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pro.autel.com

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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.



Do Not Turn the Volume Up Too Loud When Using Headphones

Listening at high volumes that over-stimulate the ear for long periods of time may result in loss of hearing.



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, etc. 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.

Contents

CHAPTER 1	USING THIS MANUAL	1
1.1	CONVENTIONS	1
CHAPTER 2	GENERAL INTRODUCTION	3
2.1	MAXICOM MK906 DISPLAY TABLET	3
2.2	ACCESSORY KIT	7
CHAPTER 3	GETTING STARTED	9
3.1	POWERING UP	9
3.2	POWERING DOWN	13
3.3	INSTALLING COMPUTER SOFTWARE	14
CHAPTER 4	DIAGNOSTICS OPERATIONS	16
4.1	ESTABLISHING VEHICLE COMMUNICATION	16
4.2	GETTING STARTED	17
4.3	VEHICLE IDENTIFICATION	19
4.4	NAVIGATION	22
4.5	DIAGNOSIS	26
4.6	SERVICE	40
4.7	GENERIC OBD II OPERATIONS	42
4.8	EXITING DIAGNOSTICS	46
CHAPTER 5	SERVICE OPERATIONS	48
5.1	OIL RESET SERVICE	48
5.2	ELECTRONIC PARKING BRAKE (EPB) SERVICE	51
5.3	PARKING BRAKE: WORKSHOP MODE	54
5.4	BATTERY MANAGEMENT SYSTEM (BMS) SERVICE	54
5.5	STEERING ANGLE SENSOR (SAS) SERVICE	60
5.6	DIESEL PARTICLE FILTER (DPF) SERVICE	62
5.7	IMMOBILIZER (IMMO) SERVICE	70
CHAPTER 6	DATA MANAGER OPERATIONS	72
6.1	OPERATIONS	72
CHAPTER 7	MAXIFIX OPERATIONS	77
7.1	NAVIGATION	77
7.2	OPERATIONS	80
CHAPTER 8	SETTINGS OPERATIONS	86

8.1	OPERATIONS.....	86
CHAPTER 9	SHOP MANAGER OPERATIONS	90
9.1	VEHICLE HISTORY.....	91
9.2	WORKSHOP INFORMATION.....	93
9.3	CUSTOMER MANAGER	94
CHAPTER 10	UPDATE OPERATIONS.....	98
CHAPTER 11	SUPPORT OPERATIONS.....	100
11.1	PRODUCT REGISTRATION	100
11.2	SUPPORT SCREEN LAYOUT	100
11.3	MY ACCOUNT	101
11.4	USER COMPLAINT	102
11.5	DATA LOGGING	104
11.6	COMMUNITIES.....	105
11.7	TRAINING CHANNELS	107
11.8	FAQ DATABASE.....	107
CHAPTER 12	ACADEMY OPERATIONS	108
CHAPTER 13	REMOTE DESK OPERATIONS	109
13.1	OPERATIONS	109
CHAPTER 14	QUICK LINK OPERATIONS	111
CHAPTER 15	FUNCTION VIEWER.....	112
CHAPTER 16	MAINTENANCE AND SERVICE.....	114
16.1	MAINTENANCE INSTRUCTIONS.....	114
16.2	TROUBLESHOOTING CHECKLIST	115
16.3	ABOUT BATTERY USAGE	115
16.4	SERVICE PROCEDURES	116
CHAPTER 17	COMPLIANCE INFORMATION.....	119
CHAPTER 18	WARRANTY	120

Chapter 1 Using This Manual

This manual contains device usage instructions.

Some illustrations shown in this manual may contain modules and optional equipment that are not included in your system. Contact your sales representative for availability of other modules and optional tools or accessories.

1.1 Conventions

The following conventions are used.

1.1.1 Bold Text

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

Example:

- Tap **OK**.

1.1.2 Note

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

1.1.3 Important

IMPORTANT indicates a situation which, if not avoided, may result in damage to the test equipment or vehicle.

1.1.4 Hyperlink

Hyperlinks, or links, that take you to other related articles, procedures, and illustrations are available in electronic documents. Blue colored text indicates a selectable hyperlink.

1.1.5 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.

Chapter 2 General Introduction

The MaxiCOM® MK906 is an advanced diagnostic device developed for customers looking for a tool with ultra-convenient and modern design while delivering ultimate performance. Featuring the powerful Samsung Exynos 5260 6-core processor (1.3 GHz quad-core ARM Cortex-A7 + 1.7 GHz dual-core ARM Cortex-A15), and an 8.0 inch LED capacitive touch screen, based on the Android multitasking operating system, and combined with the best possible coverage of OE-level diagnostics, the MaxiCOM MK906 is an ideal solution to manage your repair jobs smartly and conveniently with greater integration.

This manual describes the construction and operation of the device and how it works to deliver diagnostic solutions.

2.1 MaxiCOM MK906 Display Tablet

2.1.1 Functional Description

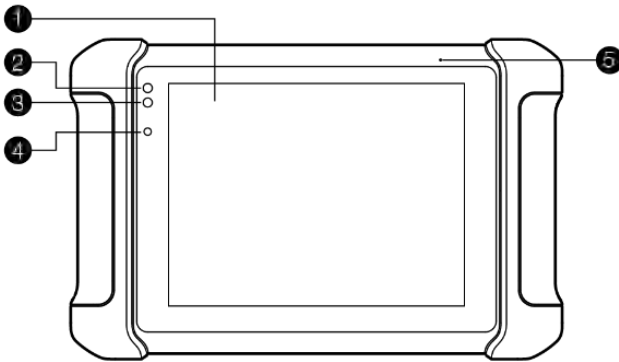


Figure 2-1 MaxiCOM MK906 Tablet Front View

1. 8.0" LED Capacitive Touch Screen
2. Power LED – indicates battery level & charging or system status.
3. Vehicle Communication LED – flashes green when the Display Tablet is communicating/linking with the vehicle's system.
4. Ambient Light Sensor – detects ambient brightness.
5. Microphone

The power LED displays different colors in response to the following scenarios:

- A. Green:
 - Illuminates green when the Display Tablet is charging and the battery level is above 90%.
 - Illuminates green when the Display Tablet is powered on and the battery level is above 15%.
- B. Yellow:
 - Illuminates yellow when the Display Tablet is charging and the battery level is below 90%.
- C. Red:
 - Illuminates red when the Display Tablet is powered on and the battery level is below 15%.
- D. Blue:
 - Illuminates blue when the MaxiCOM system is fault.

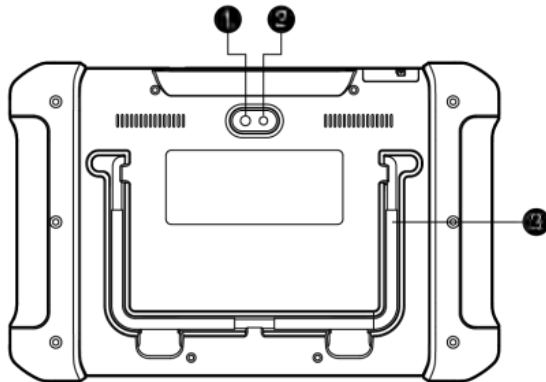


Figure 2-2 MaxiCOM MK906 Tablet Back View

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

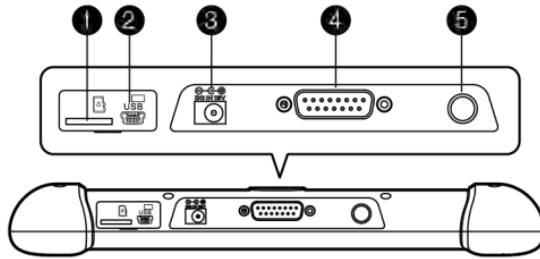


Figure 2-3 MaxiCOM MK906 Tablet Top View

1. Mini SD Card Slot – holds the mini SD Card.
2. Mini USB Port
3. DC Power Supply Input Port – Connects the 12 volt power adapter to charge.
4. DB15-Pin Port – connects the vehicle DLC cable.
5. Lock/Power Button – turns the device on & off with long press, or locks the screen with short press.

2.1.2 Power Sources

The Display Tablet can receive power from any of the following sources:

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

Internal Battery Pack

The Display Tablet can be powered with the internal rechargeable battery, which if fully charged can provide sufficient power for about 6 hours of continuous operation.

AC/DC Power Supply

The Display 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 Display Tablet can be powered from the cigarette lighter or the DLC port on the test vehicle through a direct cable connection. Connect the display tablet with the test vehicle using the cigarette lighter or OBD II cable for power supply.

2.1.3 Technical Specifications

Item	Description
Operating System	Android™ 4.4.2, KitKat
Processor	Samsung Exynos 6-Core Processor (1.3 GHz quad-core ARM Cortex-A7 + 1.7 GHz dual-core ARM Cortex-A15)
Memory	2 GB RAM & 32 GB ROM
Display	8.0 inch LED capacitive touch screen with 1024x768P resolution
Connectivity	<ul style="list-style-type: none">• Wi-Fi (802.11 b/g/n)• DB16 DLC• USB 2.0• SD Card (Support up to 32GB)
Camera (rear)	Rear-facing, 8.0 Megapixel, AF with Flashlight
Sensors	Gravity Accelerometer, Ambient Light Sensor (ALS)
Audio Input/output	<ul style="list-style-type: none">• Microphone• Single Speaker
Power and Battery	<ul style="list-style-type: none">• 3.7V/5000 mAh lithium-polymer battery• Charging via 12 V AC/DC power supply
Input Voltage	DC/12 V (9-35 V)
Power Consumption	5 W
Operating Temperature	-10 to 55°C (14 to 131°F)
Storage Temperature	-20 to 70°C (-4 to 158°F)
Housing	Strong plastic housing with protective rubber boot

Dimensions (W x H x D)	270.8 mm (10.0") x 176.0 mm (6.9") x 36.0mm (1.4")
Weight	NW: 0.93 kg (2.05 lb.),
Protocols	ISO 9142-2, ISO 14230-2, ISO 15765-4, K-Line, L-Line, Flashing Code, SAE-J1850 VPW, SAE-J1850 PWM, CAN ISO 11898, Highspeed, Middlespeed, Lowspeed and Singlewire CAN, GM UART, UART Echo Byte Protocol, Honda Diag-H Protocol, TP 2.0, TP 1.6, SAE J1939, SAE J1708, Fault-Tolerant CAN

2.2 Accessory Kit

2.2.1 Main Cable

The Display Tablet can be powered through the Main Cable when connected to an OBD II/EOBD compliant vehicle. The Main Cable connects the Display Tablet to the vehicle's data link connector (DLC).

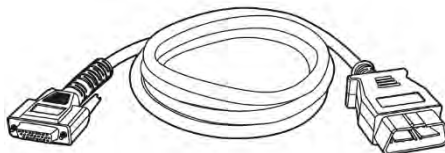


Figure 2-4 Main Cable – 1.7 m in length

2.2.2 OBD I Adapters

The OBD I adapters are for Non-OBD II vehicles. The adapter used depends on the type of vehicle being tested. The most common adapters are shown below. (Benz-14 is for European unit only and Chrysler-16 is for American unit only.)



Benz-14



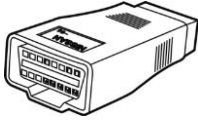
Chrysler-16



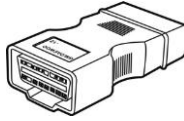
BMW-20



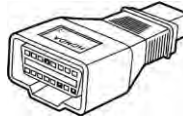
Kia-20



Nissan-14



GM/Daewoo-12



Honda-3



VW/Audi-2+2



Mitsubishi/

Hyundai -12+16



Benz-38



PSA-2



Fiat-3

2.2.3 Other Accessories



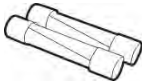
AC/DC External Power Adapter

Connects the Display Tablet to the external DC power port for power supply.



Cigarette Lighter

Provides power to the Display Tablet through connection to the vehicle's cigarette lighter receptacle, as some non-OBD II vehicles cannot provide power via the DLC connection.



Lighter Fuse

A safety device for the cigarette lighter.

Chapter 3 Getting Started

Make sure the Display Tablet has sufficient battery level or is connected to the DC power supply (see [Power Sources](#) on page 5).

3.1 Powering Up

Press the Lock/Power button on the top right side of the Display Tablet to switch the unit on. The system boots up, and shows the lock screen. Pressing the inner ring with a Lock icon at the center displays 3 entry options:

1. **Unlock** – Drag the inner ring to the right edge of the circle to enter the Android System’s Home Screen.
2. **MaxiCOM** – Drag the inner ring to the top edge of the circle to enter the MaxiCOM Job Menu.
3. **Camera** – Drag the inner ring to the left edge of the circle to launch the camera.



Figure 3-1 Sample MaxiCOM Job Menu

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

NOTE: The screen is locked by default when you first turn on the Display Tablet. It is recommended to lock the screen to protect the information in the system and reduce the power consumption.







Almost all operations on the Display 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 the various applications.







3.1.1 Application Buttons

The Application buttons configure the MaxiCOM for the type of operation or activity to be performed. The table below gives brief descriptions of the available applications.

Tap on the screen to select an application from the Job Menu.

Table 3-1 Applications



Button	Name	Description
	Diagnostics	Accesses diagnostic functions menu. See Diagnostics Operations on page 16.
	Service	Accesses special functions menu. See Service Operations on page 48 for details.
	Data Manager	Accesses the organization system for saved data files. See Data Manager Operations on page 72.
	MaxiFix	Launches the MaxiFix platform which provides the most compatible and abundant repair techniques and diagnostics database. See MaxiFix Operations on page 77.
	Settings	Accesses the MaxiCOM system settings menu and general tablet menu. See Settings Operations on page 86.
	Shop Manager	Accesses Shop Manager database to store workshop, customer information and vehicle test history. See Shop Manager Operations on page 90.








Button	Name	Description
	Update	Checks for the latest update available for the MaxiCOM system, and performs updating procedures. See Update Operations on page 98.
	Remote Desk	Configures your unit to receive remote support using the TeamViewer application program. See Remote Desk Operations on page 109.
	Support	Launches the Support platform which synchronizes Autel's on-line service base station with the MaxiCOM tablet. See Support Operations on page 100.
	Academy	Accesses technical tutorials and training articles about the device and vehicle diagnostic techniques. See Academy Operations on page 108 for details.
	Quick Link	Provides associated website bookmarks to allow quick access to product update, service, support and other information. See Quick Link Operations on page 111.
	Function Viewer	Provides quick search for the supported functions and vehicles of Autel diagnostic tools. See Function Viewer on page 112 for details.

3.1.2 Locator and Navigation Buttons

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

Table 3-2 Locator and Navigation Buttons

Button	Name	Description
	Locator	Indicates the location of the screen. Swipe the screen left or right to view the previous or next screen.
	Back	Returns to the previous screen.

Button	Name	Description
	Android Home	Returns to Android System's Home screen.
	Recent Apps	Displays a list of applications that are currently working. To open an app, touch it. To remove an app, swipe it to the right.
	Browser	Launches the Android built-in browser.
	Camera	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 Operations on page 72.
	Display & Sound	Allows you to adjust the brightness of the screen and the volume of the audio output.
	MaxiCOM Home	Returns to MaxiCOM Job Menu.
	MaxiCOM Shortcut	Returns to the MaxiCOM operation interface from other Android applications.

➤ **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 documents for additional information.







3.1.3 System Status Icons

As the Display Tablet is working with the Android operating system, you may refer to Android-related documents for more information.

By tapping on the bottom right corner, a Shortcuts Panel will be displayed, on which you are allowed to adjust various system settings of the tablet. Operations of each button on the panel are described in the table below:

NOTE: The shortcuts buttons will be highlighted when enabled, and dimmed when disabled.

Table 3-3 Shortcuts Panel Buttons

Button	Name	Description
	Calculator	Launches calculator when pressed.
	Clock	Launches clock when pressed.
	Wi-Fi	Enables/disables Wi-Fi when pressed.
	Auto Rotate	Enables/disables auto-rotate screen when pressed.
	Airplane Mode	Enables/disables Airplane Mode when pressed.
	System Settings	Launches the Android System Settings interface when pressed.

3.2 Powering Down

All vehicle communications must be terminated before shutting down the Display Tablet. A warning message displays if you attempt to shut down the Display Tablet when it is communicating with the vehicle. Forcing a shut-down while communicating may lead to ECM problems on some vehicles. Exit the Diagnostics application before powering down.

➤ **To power down the Display Tablet:**

1. Press and hold the Lock/Power Button.
2. Tap **Power off** option.
3. Tap **OK**, the tablet will turn off in a few seconds.

3.2.1 Reboot System

In case of system crash, press and hold the Lock/Power button for 8 seconds to reboot the system.

3.3 Installing Computer Software

The MaxiCOM MK906 Diagnostic Platform allows you to print the information needed for your convenience. To realize the printing function, you need to install the printer driver program.

➤ **To install the printer driver program**

1. Download the **Maxi PC Suite** from www.autel.com and install to your PC.
2. Double click on **Autel Run.exe** item.
3. Click the **MaxiSys Printer** icon in the **Maxi PC Suite** screen.
4. Select the installation language and the printer driver installation wizard will load momentarily.
5. Follow the wizard instructions on the screen and Click **Next** to continue.
6. Click on **Install** and the printer driver program will be installed onto the computer.
7. Click on **Finish** to complete the whole installation procedure.

NOTE: The MaxiSys Printer runs automatically after the installation. The computer, printer and the tablet must be connected to the same network.

3.3.1 Printing Operation

This section describes how to receive file from the Display Tablet and perform printing through the computer:

Print via PC

➤ **To perform printing through the computer**

1. Install the printer driver to the computer.
2. Before printing, make sure the Display Tablet is connected to the

computer network, either via Wi-Fi or LAN. See *8.1.3 Printing Setting* on page 87 for more information.

3. Run the **MaxiSys Printer** program on the computer to open up the printer interface.
4. Click **Test Print** to make sure the printer is working successfully.
5. Tap the **Print** button on the toolbar. A temporary file will be created and sent to the computer for printing.
 - If the **Auto Print** option in the MaxiSys Printer is selected, the MaxiSys printer will print the received document automatically.
 - If the **Auto Print** option is not selected, click **Open PDF File** to view all the temporary files. Select the file(s) you want to print and click **Print**.

NOTE: Make sure the computer installed with the Printing driver program is connected to a printer.

Print via APP

If a Wi-Fi printer is available, please purchase and install a Wi-Fi printer APP on your tablet. By a simple click on the **Print** button of a saved file on the tablet, the file will be printed automatically.

Chapter 4 Diagnostics Operations

By establishing a data link to the electronic control systems of the vehicle being serviced directly, the Diagnostics application allows you to retrieve diagnostic information, view live data parameters, and perform active tests. The Diagnostics application can access the electronic control module (ECM) for various vehicle control systems, such as engine, transmission, antilock brake system (ABS), airbag system (SRS) and more.

4.1 Establishing Vehicle Communication

The Diagnostics operations require connecting the MaxiCOM MK906 diagnostic platform to the test vehicle using the main cable.

4.1.1 Vehicle Connection

The method used to connect the Display Tablet 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.
- A vehicle not equipped with an OBD II management system supplies communication through a DLC connection, and in some cases supplies 12-volt power through the cigarette lighter receptacle or a connection to the vehicle battery.

OBD II Vehicle Connection

This type of connection only requires the main cable without any additional adapter.

➤ To connect to an OBD II vehicle

1. Connect the main cable's female adapter to the Vehicle Data Connector on the Display Tablet, and tighten the captive screws.
2. Connect the cable's 16-pin male adapter to the vehicle's DLC, which is generally located under the vehicle dash.

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

Non-OBD II Vehicle Connection

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

➤ To connect to a Non-OBD II Vehicle

1. Connect the main cable's female adapter to the Vehicle Data Connector on the Display Tablet, 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 DLC as required.

Some DLC connections only supply communication and the power is to be supplied via the cigarette lighter connection.

➤ To connect the cigarette lighter

1. Plug the DC power connector of the cigarette lighter into the DC power supply input port on the Display Tablet.
2. Connect the male connector of the cigarette lighter into the vehicle's cigarette lighter receptacle.

4.2 Getting Started

Ensure a communication link is established between the test vehicle and the Display Tablet via the main cable.

4.2.1 Vehicle Menu Layout

When the tablet is properly connected to the vehicle, the platform is ready to start vehicle diagnosis. Tap on the Diagnostics application button on the MaxiCOM Job Menu to access the Vehicle Menu.








Figure 4-1 Sample Vehicle Menu Screen


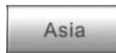
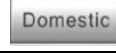


1. Top Toolbar Buttons
2. Manufacturer Buttons

Top toolbar Buttons

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

Table 4-1 Top Toolbar Buttons

Button	Name	Description
	Home	Returns to the MaxiCOM Job Menu.
	VIN Scan	Tap this button to open a dropdown list; tap Auto Detect for auto VIN detection; tap Manual Input to enter VIN manually.
	All	Displays all the vehicle makes in the vehicle menu.
	History	Displays the stored test vehicle history records. This option provides you direct access to the previously tested vehicle recorded during previous test sessions. See 9.1 Vehicle History on page 91.
	USA	Displays the USA vehicle menu.

Button	Name	Description
	Europe	Displays the European vehicle menu.
	Asia	Displays the Asian vehicle menu.
	Domestic	Displays the Domestic vehicle menu.
	Search	Tap this button to open the virtual keyboard, allowing you to manually enter the specific vehicle make required.
	Cancel	Tap this button to exit the search screen, or cancel an operation.

Manufacturer Buttons

To begin, select the manufacture button of the test vehicle, followed by the vehicle model and year.

4.3 Vehicle Identification

The MaxiCOM diagnostic system supports four methods for Vehicle Identification.

1. Auto VIN Scan
2. Manual VIN Input
3. Manual Vehicle Selection
4. OBD Direct Entry

4.3.1 Auto VIN Scan

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

➤ **To perform Auto VIN Scan**

1. Tap the **Diagnostics** application button from the MaxiCOM Job Menu. The Vehicle Menu displays. (*Figure 4-1*)

2. Tap the **VIN Scan** button on the top toolbar.
3. Select **Auto detect**. Once the test vehicle is identified, the screen will display the vehicle VIN. Tap **OK** at the bottom right to confirm the vehicle VIN. If the VIN does not match with the test vehicle's VIN, enter the VIN manually or tap **Read** to acquire VIN again.



Figure 4-2 Sample Vehicle Diagnostics Screen

4. In some cases when users have selected the vehicle brand instead of performing Auto VIN Scan in the first place, the system still provides an option for vehicle VIN scan.

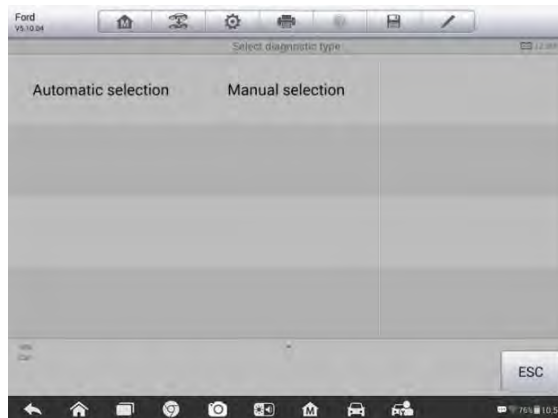


Figure 4-3 Sample Vehicle Selection Screen

5. Select **Automatic selection** and the system will proceed to acquire VIN information automatically or allow users to input the VIN

manually.

4.3.2 Manual VIN Input

For vehicles not supporting the Auto VIN Scan function, you may manually enter the vehicle VIN.

➤ **To perform Manual VIN Input**

1. Tap the **Diagnostics** application button from the MaxiCOM Job Menu. The Vehicle Menu displays. (*Figure 4-1*)
2. Tap the **VIN Scan** button on the top toolbar.
3. Select **Manual input**.
4. Tap the input box and enter the correct VIN.

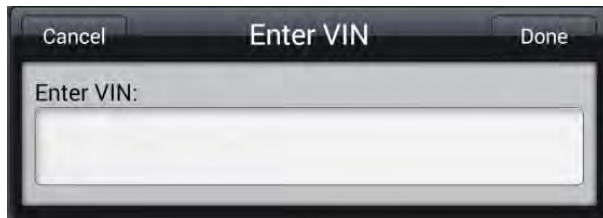


Figure 4-4 Manual VIN Input

5. Tap **Done**. Once the vehicle is identified, the Vehicle Diagnostics screen displays. (*Figure 4-2*)
6. Tap **Cancel** to exit Manual Input.

4.3.3 Manual Vehicle Selection

The Auto VIN scan can be selected after selecting the test vehicle manufacturer.

Step-by-step Vehicle Selection

This mode of vehicle selection is menu driven; you can simply follow the on-screen prompts and make a series of choices. Each selection you make advances you to the next screen. A **Back** button at the lower right corner of the screen returns you to the previous screen. Exact procedures may vary

somewhat by various vehicles being serviced.

4.3.4 Alternative Vehicle Identification

Occasionally, you may identify a test vehicle that the tester does not recognize; the database does not support, or has some unique characteristics that prevent it from communicating with the tester through the normal channels. In these instances, you are provided with the OBD direct entry, through which you can perform generic OBD II or EOBD tests. See [Generic OBD II Operations](#) on page 42 for additional information.

4.4 Navigation

Navigating the Diagnostics interface and selecting tests are discussed in this section.

4.4.1 Diagnostics Screen Layout



Figure 4-5 Sample Diagnostics Screen








The diagnostic screens typically include four sections.


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

Diagnostics Toolbar

The Diagnostics Toolbar contains a number of buttons such as print and save. The table below provides a brief description of the operations of the Diagnostics Toolbar buttons:

Table 4-2 Diagnostics Toolbar Buttons

Button	Name	Description
	Home	Returns to the MaxiCOM Job Menu.
	Vehicle Swap	Exits the service session of the currently identified test vehicle and returns to the vehicle menu screen.
	Settings	Opens the setting screen. See Settings Operations on page 86.
	Print	Prints a copy of the displayed data. See Printing Operation for additional information on page 14.
	Help	Displays operational instructions or tips.
	Save	<p>Tap this button to open a submenu, on which there are three options available to save the displayed data.</p> <ul style="list-style-type: none"> • Tap Save This Page to take a screenshot image • Tap Save All Data to save a PDF file (mostly used to save data that cover more than 1 page) • Tap Start Saving to record a video clip (only available for recording Live Data or special graph data) <p>All saved data is stored in the Data Manager application for later reviews. See Data Manager Operations on page 72.</p>
	Data Logging	<p>Records the communication data and ECU information of the test vehicle. The saved data can be reported and sent to the technical center via the internet.</p> <p>You can go to the Support application to follow up the processing progress, see Data Logging on page 104 for detailed information.</p>

Button	Name	Description
	Send	Tapping this button submits the Data Logging report to the technical center via the internet.

➤ **To print data in Diagnostics**

1. Tap the **Diagnostics** application button from the MaxiCOM Job Menu. The **Print** button on the diagnostic toolbar is available throughout the Diagnostics operations.
2. Tap **Print**. A drop-down menu displays. Tap **Print This Page** to print a screen shot.
 - a) **Print This Page** – prints a screenshot copy of the current screen
 - b) **Print All Page** – prints a PDF copy of all displayed data
3. A temporary file will be created and sent to the connected computer for printing.
4. When the file is transferred successfully, a confirmation message displays.

NOTE: Make sure the Display Tablet is connected to the computer network, either via Wi-Fi or LAN, before printing. For more instructions on printing, see [Printing Operation](#) on page 14 for details.

➤ **To submit Data Logging reports in Diagnostics**

1. Tap the **Diagnostics** application button from the MaxiCOM Job Menu. The **Data Logging** button on the Diagnostic Toolbar is available throughout the Diagnostics operations.
2. Tap the **Data Logging** button. The button displays blue during the active recording process.
3. Tap the **Data Logging** button again to finish recording. A submission form will display for inputting the report information.
4. Tap the **Send** button to submit the report form via the internet. A confirmation message displays when the report has been successfully sent.

Status Information Bar

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

1. **Menu Title** – displays the menu heading of the Main Section.
2. **Battery Icon** – displays the vehicle's voltage status.

Main Section

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

Functional Buttons

The displayed Functional Buttons vary depending on the stage of operations. Functional buttons can be used to navigate, to save or clear the diagnostic data, to exit scanning and to perform a number of other control functions. The use of these buttons will be discussed in detail in the following sections of the corresponding test operations.

4.4.2 Screen Messages

Screen messages appear when additional input is needed before proceeding. There are three main types of on-screen messages: Confirmation, Warning, and Error.

Confirmation Messages

This type of messages usually displays as an “Information” screen, to inform the user that a selected action cannot be reversed or when an action has been initiated and confirmation is needed to continue.

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

Warning Messages

This type of messages displays a warning that a selected action may result in an irreversible change or loss of data. An example of this type of message is the “Erase Codes” message.

Error Messages

Error messages display when a system or procedural error has occurred. Examples of possible errors include a disconnection or communication interruption.

4.4.3 Making Selections

The Diagnostics application is a menu driven program that presents a series of

choices. As a selection is made, the next menu in the series displays. Each selection narrows the focus and leads to the desired test. Tap the screen to make menu selections.

4.5 Diagnosis

The Diagnostics application enables a data link to the electronic control system of the test vehicle for vehicle diagnosis or service. The application performs functional tests, retrieves vehicle diagnostic information such as trouble and event codes and live data from various vehicle control systems such as engine, transmission, ABS.

There are two options available when accessing the Diagnosis section:

1. **Auto scan** – starts auto scanning for all the available systems on the vehicle.
2. **Control unit** – displays a selection menu of all available control units of the test vehicle.

After a selection is made and the tablet establishes communication with the vehicle, the corresponding function menu or selection menu displays.

Auto Scan

The Auto Scan function performs a comprehensive scanning over all the ECUs in the vehicle's ECU to locate systems faults and retrieve DTCs. An example of Auto Scan interface is pictured as below:

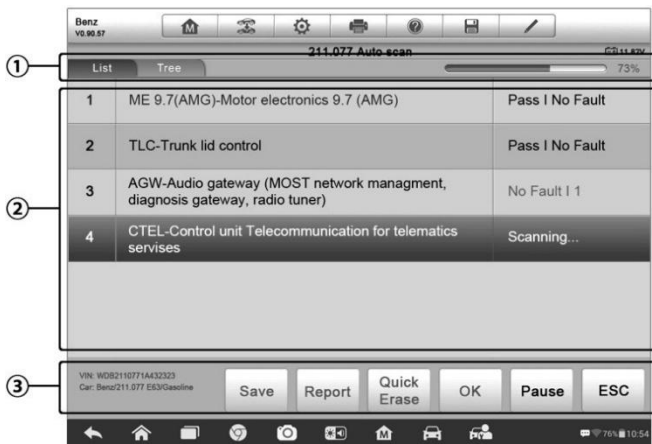


Figure 4-6 Sample Auto Scan Operation Screen

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

- **Navigation Bar**

1. List Tab – displays the scanned data in list format.
2. Tree Tab – displays the scanned data in system distribution diagram format.
3. Progress Bar – indicates the test progress.

- **Main Section**

- A. *List Tab*

Column 1 - displays the system numbers.

Column 2 - displays the scanned systems.

Column 3 - displays the diagnostic indicators describing test results:

These indicators are defined as follows:

-!-: 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 accurately locate 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.

- B. *Tree Tab*

The tree tab screen displays a system distribution diagram of the vehicle control modules. The scanned system which has passed scanning with no fault is shown in blue font; whereas the scanned system that has been

detected with fault present is shown in red font.

Column 4 – to perform further diagnosis or testing on a specific system item, tap the  button to the right of that item. A Function Menu screen will display.

- **Functional Buttons**

A brief description of the Auto Scan's Functional Buttons' operations are displayed in the table below.

Table 4-3 Functional Buttons in Auto Scan

Name	Description
Back	Returns to the previous screen or exit Auto Scan.
Pause	Suspends scanning and changes to show the Continue button.
OK	Confirms the test result. Continues to the system diagnosis after required system is selected by tapping the item in the Main Section.
Quick Erase	Deletes codes. A warning message screen will display to inform you of possible data loss when this function is selected.
Report	Displays the diagnostic data in the report form.
Save	Saves the diagnostic session as a history record, this allows you to quickly restore access to the test systems.

Control Units

Manually locate a required control system for testing through a series of choices. Follow the menu driven procedures and make proper selections; the application guides the user to the proper diagnostic function menu based on selections.

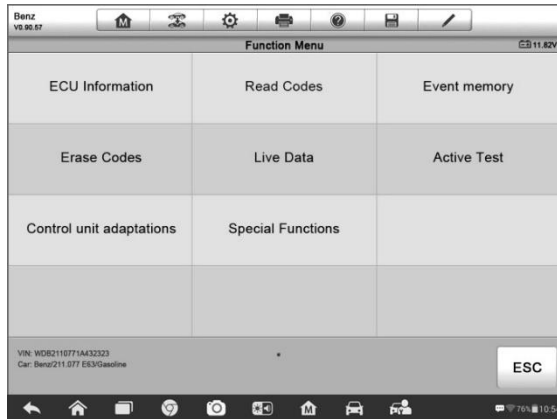


Figure 4-7 Sample Function Menu Screen

The Function Menu options vary slightly for different vehicles. The function menu may include:

- **ECU Information** – provides the retrieved ECU information in detail. An information screen opens upon 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 test vehicle's ECU.
- **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**, etc., and the tests options vary depending on the manufacturer and model.

NOTE: Toolbar functions such as saving and printing of test results can be performed throughout diagnostic testing. Data logging and access to help information are also available.

➤ **To perform a diagnostic function**

1. Establish communication with the test vehicle.
2. Identify the test vehicle by selecting from the menu options.

3. Select the **Diagnosis** section.
4. Locate the required system for testing by **Auto Scan** or through menu driven selections in **Control Units**.
5. Select the desired test from the **Function Menu**.

4.5.1 ECU Information

This function retrieves and displays the specific information for the tested control unit, including unit type, version numbers and other specifications. The sample ECU Information screen displays as below:

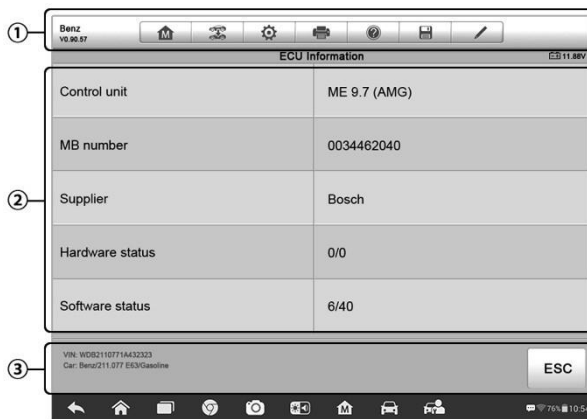


Figure 4-8 Sample ECU Information Screen

1. **Diagnostics Toolbar Buttons** – see [Table 4-2 Diagnostics Toolbar Buttons](#) on page 23 for detailed descriptions of the operations for each button.
2. **Main Section** – the left column displays the item names; the right column shows the specifications or descriptions.
3. **Functional Button – ESC** (a **Back**) button is available; tap it to exit after viewing.

4.5.2 Read Codes

This function retrieves and displays the DTCs from the vehicle's control system. The Read Codes screen varies for each vehicle being tested. On some vehicles, freeze frame data can also be retrieved for viewing. The sample Read

Codes screen displays as below:



Figure 4-9 Sample Read Codes Screen

1. **Diagnostics Toolbar Buttons** – see [Table 4-2 Diagnostics Toolbar Buttons](#) on page 23 for detailed descriptions of the operations for each button.
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 – only displays when freeze frame data is available for viewing; selecting this icon will display a data screen, which looks behaves similar to the Read Codes screen.
3. **Functional Button – ESC (a Back) button** is available; tap it to exit after viewing.

4.5.3 Erase Codes

After reading the retrieved codes and making appropriate vehicle repairs, use this function to erase vehicle codes.

➤ To erase codes

1. Tap **Erase Codes** from the Function Menu.

2. A warning message displays to advise of data loss if this function is completed.
 - a) Tap **Yes** to continue. A confirming screen displays when the operation is successfully done.
 - b) Tap **No** to exit.
3. Tap **ESC** on the confirming screen to exit Erase Codes.
4. Perform the Read Codes function again to check if codes have been erased successfully.

4.5.4 Live Data

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

Gesture scrolling allows for quick movement through data list. Using one or two fingers, simply swipe the screen up or down to locate the data you want. The figure below shows a typical Live Data screen:

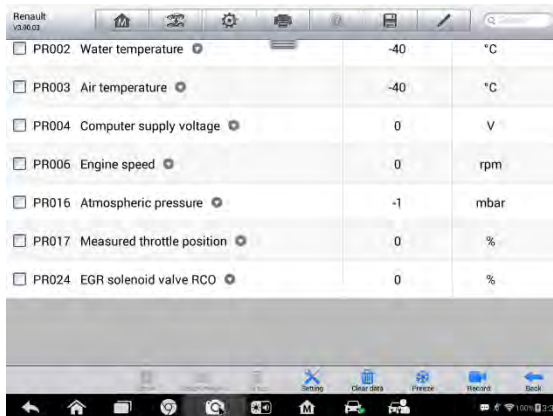


Figure 4-10 Sample Live Data Screen

1. **Diagnostics Toolbar Buttons** – tap the drop-down button at the top center of the screen and the toolbar buttons will display. See [Table 4-2 Diagnostics Toolbar Buttons](#) on page 23 for detailed descriptions of the operations for 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 make item selection. Tap the check box again to deselect the item.
 - b) **Drop-down Button** – tapping the drop-down button at the right side of the parameter name to open a submenu, providing data display mode options.
 - Value Column – displays the values of the parameter items.
 - Range Column - displays the minimum and the maximum value.
 - Unit Column – displays the unit for the parameters.
- To change the unit mode, tap the **Setting** button on the top toolbar and select a required mode. See [Unit](#) on page 86 for more information.

3. Display Mode

There are four types of display modes available for data viewing. Select the proper mode for the diagnostic purpose.

Tap the drop-down button on the right side of the parameter name to open a sub menu. There are four buttons to configure the data display mode, and one Help button on the right for access to additional information.

Each parameter item displays the selected mode independently.

Analog Gauge Mode – displays the parameters in form of an analog meter graph.

Text Mode – this is the default mode which displays the parameters in text, displaying in list format.

NOTE: Status parameters, such as a switch reading, can primarily be viewed in text form such as ON, OFF, ACTIVE, and ABORT. Whereas, value parameter, such as a sensor reading, can be displayed in text mode and additional graph modes.

Waveform Graph Mode – displays the parameters in waveform graphs.

When this mode is selected, three control buttons display on the right side of the parameter item for manipulation of display status.

- **Text Button** – resumes Text Display Mode.
- **Scale Button** – changes the scale values that 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 form of a digital gauge graph

Full Screen Display – this option is only available in the waveform graph mode, and primarily used in Graph Merge status for data comparison. Under this mode, there are three control buttons available on the top right side of the screen.

Edit Button – tapping this button opens an edit window, on which you can set the waveform color and the line thickness displayed for the selected parameter item.

- **Scale Button** – changes the scale values, which are displayed below the waveform graph. There are four scales available: x1, x2, x4 and x8.
- **Zoom-out Button** – exits 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 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**, and an edit window appears.
4. Select a parameter item on the left column.
5. Select a desired sample color from the second column.
6. Select a desired sample line thickness from the right column.
7. Repeat step 4-7 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 available functional buttons on 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 then stored as a video clip in the Data Manager application for future review. This function can be triggered automatically at preset threshold value or values may be set manually. The triggering mode and record duration can

be configured in the Setting mode of Live Data.

Freeze – displays the retrieved data in freeze frame mode.

- Previous Frame – displays previous frame of the freeze data.
- Next Frame – advances to the next frame in the freeze data.

Resume – this button appears when the Record or Freeze function is applied. Tap this button to stop data recording, or to exit freeze data mode and resume normal data display mode.

Flag – this button appears when the Record function is applied. Tapping this button sets flags for the recorded data at points wherever you choose. When playing back the recorded video clip later in *Data Manager*, the preset flag will enable a popup to allow input of text to take notes.

Clear Data – clears all previously retrieved parameter values at a cutting point.

To Top – moves a selected data item to the top of the list.

Graph Merge – tap this button to merge selected data graphs (for Waveform Graph Mode only). This function is useful for comparison between different parameters.

NOTE: In this mode, Graph Merge can only display up to three parameter items.

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

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

Setting – tap this button to access setting menu to set the trigger mode, recording duration and threshold values for data recording, and define other control settings.

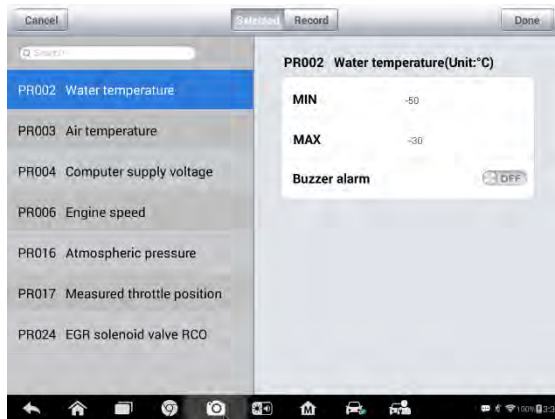


Figure 4-11 Sample Setting Mode in Live Data

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

- **Range Button** – displays the configuration screen to set the threshold values, an upper limit and a lower limit, for triggering the buzzer alarm. This function is only applied to the Waveform Graph display mode.
 - a) **MIN** – tap to display virtual keyboard and enter the required lower limit value.
 - b) **MAX** – tap to display virtual keyboard and enter the required upper limit value.
 - c) **Buzzer Alarm** – switch the alarm on and off. The alarm function makes a beep sound as a reminder whenever the data reading reaches the preset minimum or maximum point

➤ **To set threshold limits for the parameter values**


1. Tap the **Setting** functional 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 will 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 the waveform of the parameters.

- **Record Button** – displays the configuration screen for Record Setting, to set the trigger type, duration and trigger point for the data recording function.
 - a) **Trigger Type** – sets the trigger mode for data recording, 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** – reserves a relative percentage of a record length before the data recording start point for reference (for Auto trigger mode only).

➤ **To perform setting 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 and select a relative percentage of a record length to be reserved before the data recording start point.
 6. Tap **Done** to save the setting and return to the Live Data screen; or tap **Cancel** to cancel without saving and exit Setting.
- **Done Button** – confirms and saves the setting, and returns you to the Live Data screen.
 - **Cancel Button** – cancels the setting operation, and returns you to the Live Data screen.

4.5.5 Active Test

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

During an active test, the tester outputs commands to the ECU in order to drive 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 make and model. Selecting a menu option activates the test. Follow all screen instructions while performing tests. The content and pattern of the on-screen information vary 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.

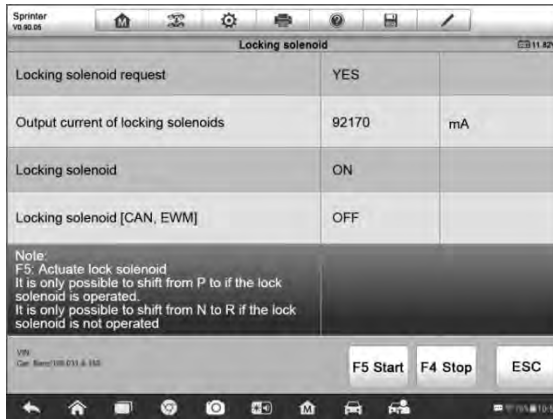


Figure 4-12 Sample Active Test Screen

The functional buttons at the lower right corner of the Active Test screen manipulate the test signals. The operational instructions are displayed on the main section of the test screen. Simply follow the on-screen instructions and make appropriate selections to complete the tests. Each time when an operation is successfully executed, message such as “Command Finished”, “Activation Successful”, or something similar displays.

Tap the **ESC** functional button to exit the test when finished.

4.5.6 Special Functions

These functions perform various component adaptations, allowing you to recalibrate or configure certain components after making repairs or replacement.

The main section of the Adaptation Operation screen displays a list of operational and vehicle status information, which 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, Activated, etc.
2. The second part shows the preconditions or requirements for executing the operation being selected.
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, you must adjust the vehicle condition to meet the requirement.

4. The last part displays the instruction of how to use the functional button at the lower right corner of the screen to manipulate the teach-in operations.

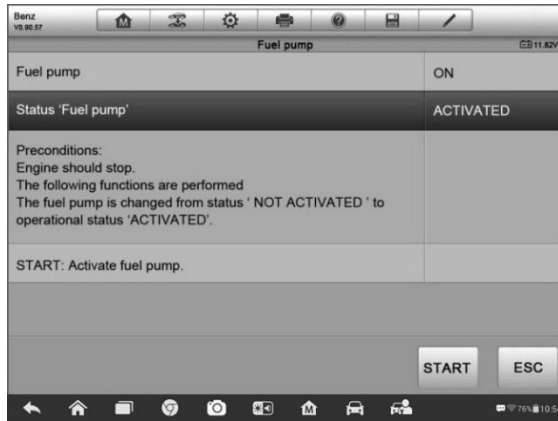


Figure 4-13 Sample Adaptation Operation Screen

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.

4.6 Service

The Service section is specially designed to provide you with quick access to the vehicle systems for various scheduled service and maintenance performances. The typical service operation screen is a series of menu driven executive commands. By following the on-screen instructions to select appropriate execution options, enter correct values or data, and perform necessary actions, the system will guide you through the complete performance for various service operations.

The most commonly performed service functions include:

- Oil Reset Service
- TPMS Programming Service

- EPB Service
- ABS/SRS Services
- SAS Calibration Service
- DPF Regeneration Service

4.6.1 Function Descriptions

This section describes the main functions for vehicle service:

Oil Reset Service

This function allows you to 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 every time the oil is changed, so the system can calculate when the next oil change is required.

Tire Pressure Monitor System (TPMS) Service

This function allows you to quickly look up the tire sensor IDs from the vehicle's ECU, as well as to perform TPMS programming and reset procedures after tire sensors are replaced.

Electric Parking Brake (EPB) Service

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

ABS/SRS Services

This function allows you to perform various bi-directional tests to check the operating conditions of both the Anti-lock Brake System and the Supplemental Restraint System, such as Automated Bleeding, Pump Motor Test, and checking Module information, etc.

Steering Angle Sensor (SAS) Service

This service function allows you to perform calibration for the Steering Angle Sensor, which permanently stores the current steering wheel position as the straight-ahead position in the steering angle sensor EEPROM. On successful completion of the calibration, the steering angle sensor fault memory is automatically cleared.

DPF Regeneration Service

The Diesel Particulate Filter service function performs the regeneration

procedure which is the DPF cleaning operation to clear the blockage through continuous burning of the particulate matter captured in the DPF filter. If the DPF light on the vehicle comes on and you successfully complete a DPF regeneration cycle, you will notice that the DPF light will automatically turn off.

4.7 Generic OBD II Operations

This option presents a quick way to check for DTCs, isolate the cause of an illuminated malfunction indicator lamp (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.

The diagnostics toolbar buttons at the top of the screen function the same as those available for specific vehicle diagnostics. See [Table 4-2 Diagnostics Toolbar Buttons](#) on page 23 for details.

4.7.1 General Procedure

➤ **To access the OBD II/EOBD diagnostics functions**

1. Tap the **Diagnostics** application button from the MaxiCOM Job Menu. The Vehicle Menu displays.
2. Tap the **EOBD** button. There are two options to establish communication with the vehicle.
 - **Auto Scan** – when this option is selected, the diagnostic tool attempts to establish communication using each protocol in order to determine the one from which the vehicle is broadcasting.
 - **Protocol** – when this option is selected, the screen opens a sub menu listing 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 under the **Protocol** option. Wait for the OBD II Diagnostic Menu to display.



Figure 4-14 Sample OBD II Diagnostic Menu

NOTE: Tapping the **i** button displayed beside the function name opens a bubble with additional function 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: Not all functions are supported by all vehicles.

4.7.2 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 and Pending Codes. A snowflake button will display on the right side of the DTC item when the Freeze Frame data is available for viewing. Tap **Clear DTC** to erase codes.



Figure 4-15 Sample DTC & FFD Screen

- **Stored Codes**

Stored codes are the current emission-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 MIL and the codes erase procedure. Manufacturers rank codes differently, so expect to see differences between makes.

- **Pending Codes**

These are codes that were generated during the last drive cycle, but before the DTC actually sets, two or more consecutive drive cycles are needed. 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 driving cycle.

- 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.
- 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**

Typically, the stored frame is the last DTC that occurred. Certain DTCs that have a greater impact on vehicle emission, have a higher priority. In these

cases, the top prioritized 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 reset the I/M Readiness Monitor Status for all vehicle’s ECM.

A confirmation screen displays when the clear codes option is selected to prevent accidental loss of data. Select **Yes** 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 state emissions compliance. Select I/M Readiness to display a sub menu 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 32 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 which communicate using a controller area network (CAN). For O2 Sensor Monitor tests results of CAN-equipped vehicles, refer to [On-Board Monitor](#).

On-Board Monitor

Use this option to view the results of On-Board Monitor tests. 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 whether the ECM responds to a command well.

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 option 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.

4.8 Exiting 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 all connections, such as data cable and USB cable, 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

4. Tap the **Home** button on the diagnostics toolbar to exit the application directly and go back to the MaxiCOM Job Menu.

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

Chapter 5 Service Operations

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 executive commands. Follow on-screen instructions to select appropriate execution options, enter correct values or data, and perform necessary actions. The application will display detailed instructions to complete selected service operations.

Currently, the following service functions are available:

- Oil Reset Service
- EPB Service
- BMS Service
- SAS Service
- DPF Service
- IMMO Service

After entering each special function, the screen will display two application choices: **Diagnosis** and **Hot Functions**. **Diagnosis** enables the reading and clearing of codes which are sometimes necessary after completing certain special functions. **Hot Functions** consists of sub functions of the selected special function.

5.1 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.

IMPORTANT:

1. Always reset the engine oil life to 100% after every oil change.
2. 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.
3. For some vehicles, the scan tool can reset additional service lights such as maintenance cycle and service interval. On BMW vehicles for an 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 check.

All software screens shown in this manual are examples, actual test screens may vary for each vehicle being tested. Observe the menu headings and on-screen instructions to make correct selections.

➤ **To perform oil reset functions**

1. Tap the **Service** application button from the MaxiCOM Job Menu.
2. Tap **Oil Reset** button. The vehicle manufacturer screen displays. Tap **VIN Scan** or the vehicle make to acquire vehicle VIN information and tap **Yes** to confirm. See [Vehicle Identification](#) on page 19 for detail.
3. Tap the desired function in the Oil Reset function list. The list may vary by test vehicle.



Figure 5-1 Sample Oil Reset Function List

4. Follow the step-by-step on-screen instruction to complete the service. Using CBS Reset UDS as an example.
5. Tap **CBS Reset UDS** on the Oil Reset function list to start the operation. The screen will display the date and time and ask for confirmation. If the displayed date and time are correct, tap **Yes** to confirm. If not, tap **No** and go to the Settings menu to set the correct date and time.

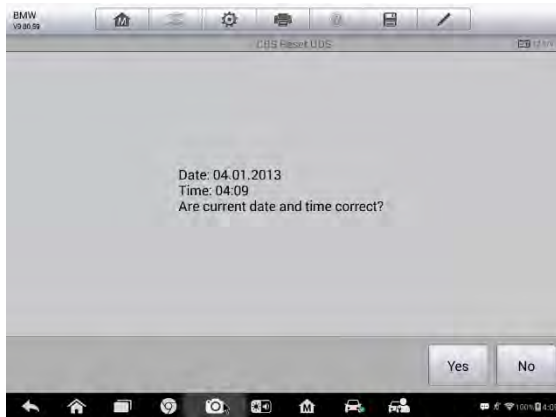


Figure 5-2 Sample Oil Reset Service Screen 1

6. The available items will display in a table of three columns: CBS value, availability, and service counter.



Figure 5-3 Sample Oil Reset Service Screen 2

7. Tap on the value and then tap the **Reset** button on the right bottom of the screen.

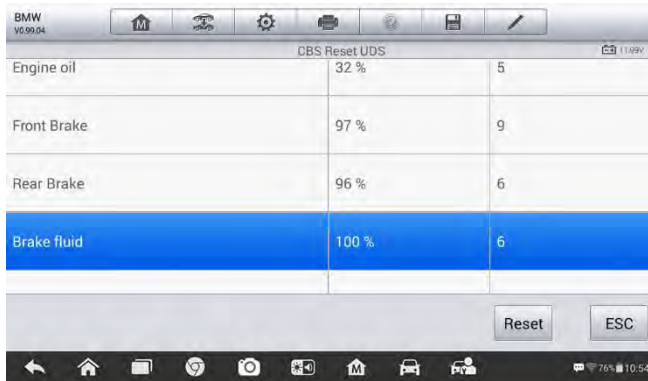


Figure 5-4 Sample Oil Reset Service Screen 3

8. When the reset is done, the availability would display as 100%. Tap **ESC** to exit.

5.2 Electronic Parking Brake (EPB) Service

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

5.2.1 EPB Safety

It may be dangerous to perform Electronic Parking Brake (EPB) system maintenance, so before you begin 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 Electronic Parking Brake system.

➤ **To perform EPB functions**

1. Tap the **Service** application button from the MaxiCOM Job Menu.
2. Tap **EPB** button. The vehicle manufacturer selection screen will display. Tap **VIN Scan** or the vehicle manufacturer to acquire vehicle VIN information and tap **Yes** to confirm. See [Vehicle Identification](#) on page 19 for detail.
3. Tap the desired service in the EPB function list. The list may vary for different vehicles being tested.



Figure 5-5 Sample EPB Function List

4. Follow the step-by-step on-screen instructions to complete the service.
5. Press **OK** button to exit.

5.2.2 EMF Start-up

This service function would start up the parking brake. It must be conducted after the following repairs:

- Replacing an EMF control unit.
- Replacing the parking brake button.

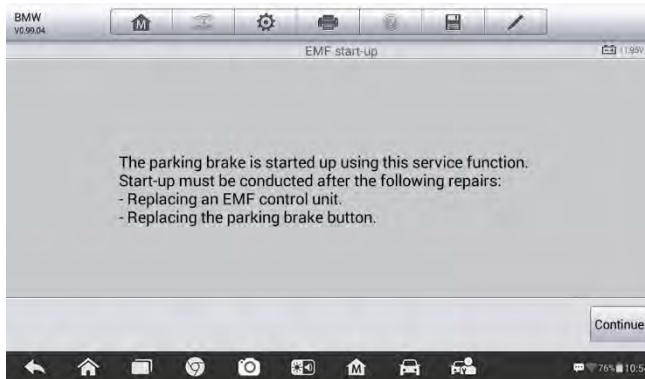


Figure 5-6 Sample EMF Start-up Screen 1

- 1) Tap **Continue** to proceed with this service function or the **Back** button at the bottom left to exit.
- 2) Tap on completed action to continue.

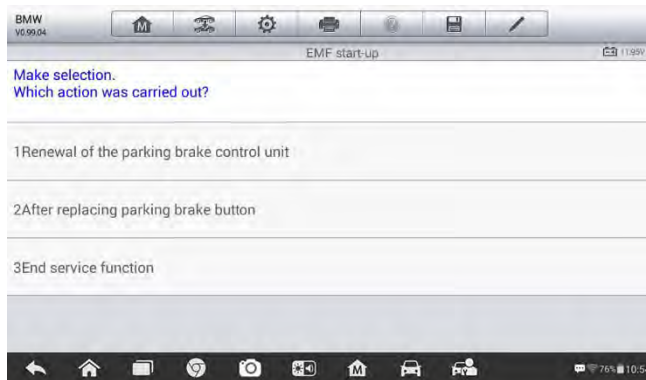


Figure 5-7 Sample EMF Start-up Screen 2

- 3) The following screen will display a message to advise that the fault memory of the parking brake control unit will be deleted. Press **Continue** to proceed or the **Back** button to exit.

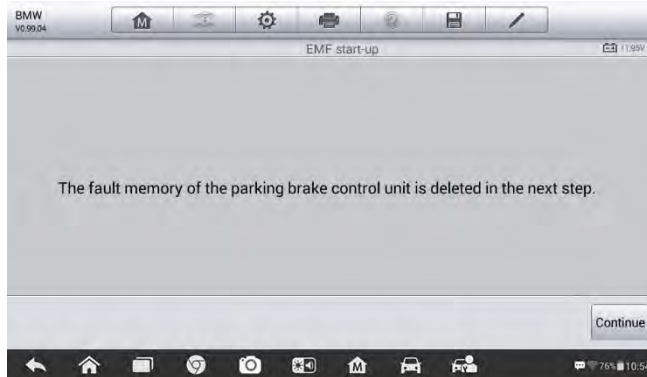


Figure 5-8 Sample EMF Start-up Screen 3

- 4) Follow the on-screen instructions to pull the parking brake button and wait for approximately three seconds until the parking brake is set. When the operation is successfully completed, a “Completed successfully” message will display on the screen, press **OK** to exit.

5.3 Parking Brake: Workshop Mode

This service is used to activate and deactivate the so-called installation position for the Automatic Hold brake. In this mode the parking brake is moved into the opened position and temporarily deactivated for personal protection.

The installation position must be activated for the following repairs:

- Replacement of brake pads.
- Replacement of a brake caliper.
- Replacement of an actuator.

Select **Parking Brake: Workshop Mode** and follow the on-screen instructions to perform a series of operations to start the brake pad after replacement.

When the operation is successfully completed, a “Completed successfully” message will appear on the screen. Press **OK** to exit.

5.4 Battery Management System (BMS) Service

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

NOTE: 1. This function is not supported by all vehicles. The screens shown in

this section are examples. 2. The sub functions and actual test screens of the BMS 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 sulphuric acid and can spill when overturned. AGM battery (known as VRLA battery, valve regulated lead acid) also contains sulphuric acid, but the acid is contained in glass mats between terminal plates.

It is recommended that the replacement aftermarket battery has the same specifications, such as capacity and type, as the existing 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.

5.4.1 Register Battery Replacement

This option displays the mileage reading when the last battery was replaced, registers the battery replacement after replacing a new battery and informing the power management system that a new battery has been installed.

If the battery change is not registered, the power management system will not function properly, which may not provide the battery with enough charging power to operate the vehicle or limit the functionality of vehicle's electrical systems.

Using the **BMW** as an example.

➤ To display the battery history

1. Tap the **Service** application button from the MaxiCOM Job Menu.
2. Tap **BMS** button and wait for the vehicle manufacturer screen. You can tap **VIN Scan** or the vehicle make to acquire vehicle VIN information and tap **Yes** to confirm. See [Vehicle Identification](#) on page 19 for detail.

3. Tap **Register Battery Replacement** in the EPB function list. The list may vary by test vehicle.

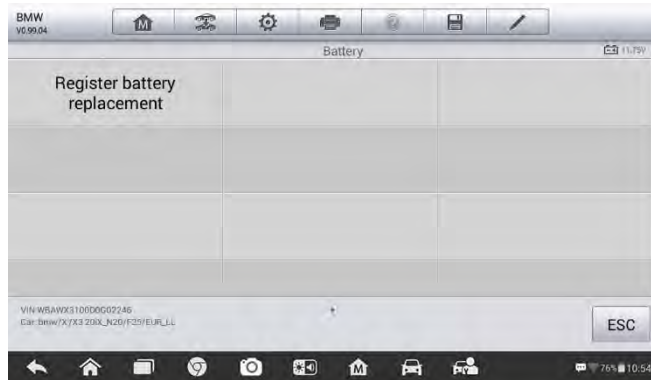


Figure 5-9 Sample BMS Function List

4. Tap on the corresponding service you want to carry out. In this case, it is function 1 **Display kilometer reading at last battery change and one before last**. A notice screen displays.



Figure 5-10 Sample BMS Screen 1

5. Read carefully the complete information and press **Continue** to continue.

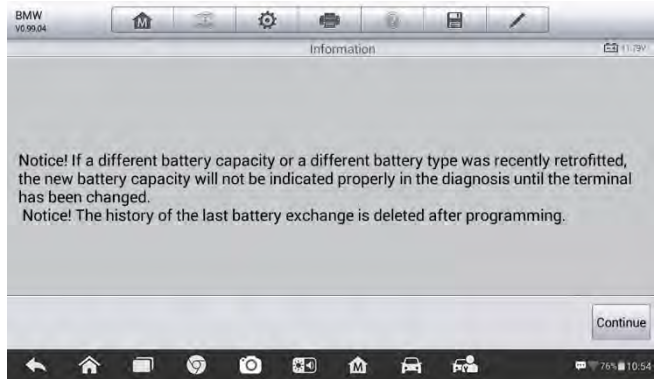


Figure 5-11 Sample BMS Screen 2

6. Check the battery capacity and the battery replacement information on the screen.
7. Tap on the corresponding function (function one in our example) to return to the selection screen or press the function two to end the service function.

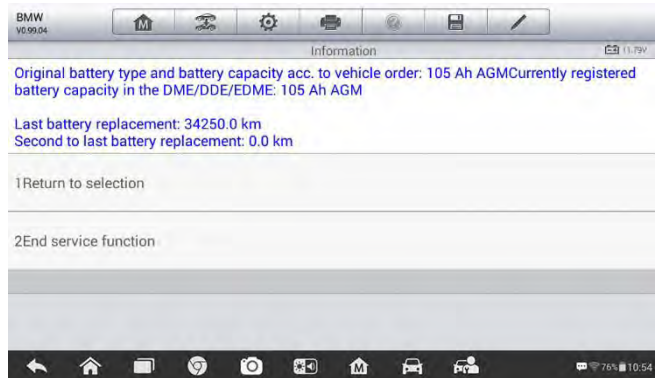


Figure 5-12 Sample BMS Screen 3

➤ **To register the battery replacement**

1. Tap on the desired function to complete. In our example, tap function two **Register battery replacement**.

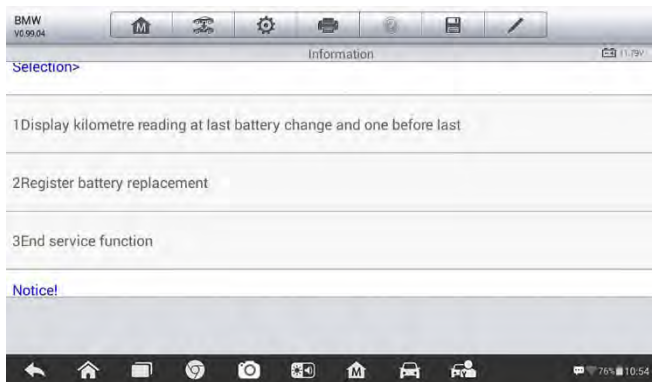


Figure 5-13 Sample BMS Screen 4

2. Read carefully the information on the screen and scroll through list to view all functions.

There are four functions listed:

- 1) Enter battery replacement: Same capacity
- 2) Enter battery replacement: Different capacity
- 3) Enter battery replacement: Changing from the normal lead-acid battery (white housing) to AGM battery (black housing)

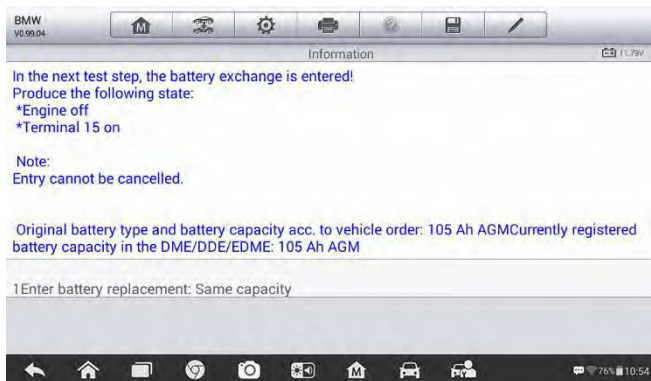


Figure 5-14 Sample BMS Screen 5

- 4) End service function.

Take the first function as an example.



Figure 5-15 Sample BMS Screen 6

1. Read carefully the information on the screen and tap **Yes** to continue.
2. Follow the on-screen instructions to input the data matrix code of the newly installed battery which should be on the label of the battery. Tap **OK** to continue.



Figure 5-16 Sample BMS Screen 7

3. When the battery exchange is successfully entered, tap **Continue** to complete the operation.

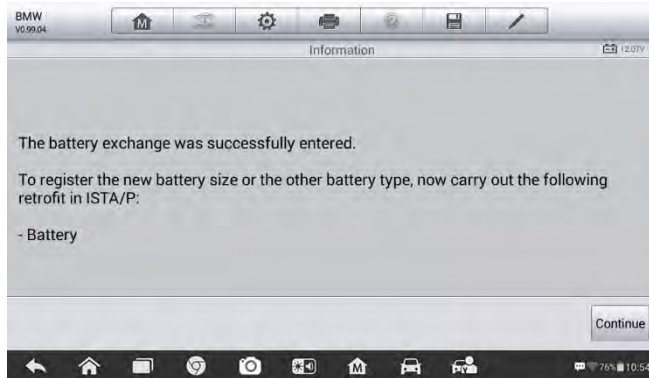


Figure 5-17 Sample BMS Screen 8

5.5 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 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 for each test vehicle. Pay attention to the menu titles and on-screen instructions to make correct option selections.
 3. Before starting the procedure, make sure the vehicle has ESC button. Look for the button on dash.
-

Using **Land Rover** as an example.

1. Tap the **Service** application button from the MaxiCOM Job Menu.
2. Tap **SAS** button and wait for the vehicle manufacturer screen. You can tap **VIN Scan** or the vehicle make to acquire vehicle VIN information and tap **Yes** to confirm. See [Vehicle Identification](#) on page 19 for detail.
3. Tap the desired function in the SAS function list. The list may vary by test vehicle.

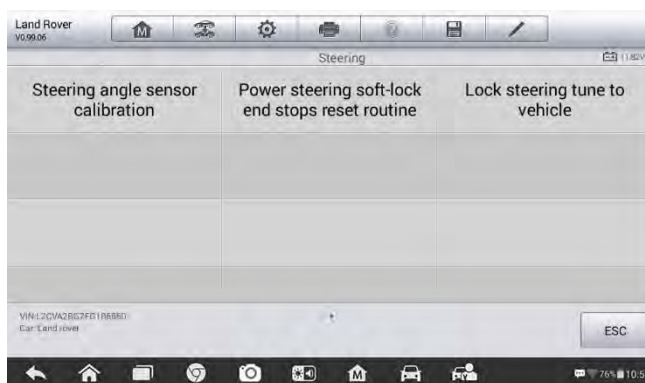


Figure 5-18 Sample SAS Function Menu

5.5.1 Steering Angle Sensor Calibration

This function allows users to perform steering angle sensor calibration and clear records. The function options vary by vehicle.

- 1) Tap **Steering Angle Sensor Calibration** from the SAS function menu to enter the function screen.
- 2) Follow the on-screen instructions to set the ignition on/off as guided. The vehicle battery voltage signal should be in the range 12.5 – 13.5 volts to proceed with this service, otherwise the scan tablet will display a warning message.

- 3) Ensure the steering wheel is in the central position and the front wheels are in the straight position. Then tap **OK** to proceed.

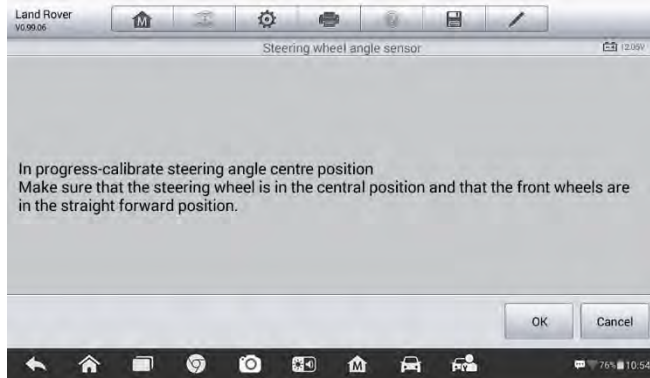


Figure 5-19 Sample SAS Function Screen 1

- 4) When the operation is completed, the scan tool will display a confirmation message. An error message will display if the procedure cannot be completed. Exit the diagnosis program, and solve the error before attempting SAS calibration again.

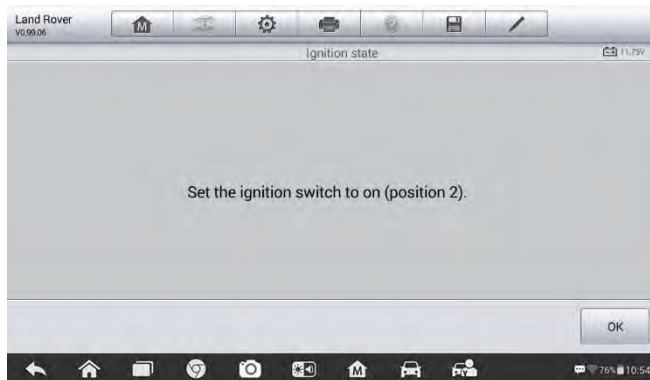


Figure 5-20 Sample SAS Function Screen 2

5.6 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 high 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 displaying. A service regeneration can be requested in the workshop, using the diagnostic tool.

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 correct spec 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.
-

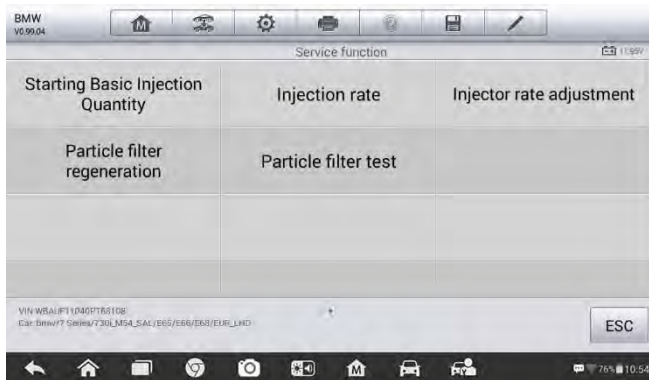


Figure 5-21 Sample DPF Service Function Menu

5.6.1 Starting Basic Inspection Quantity

This function enables start fuel delivery matching.

1. Tap **Starting Basic Inspection Quantity** from the service functions menu to enter the service screen.
2. The tool communicates with the vehicle and reads the fault codes memory. Follow the on-screen instructions to finish this procedure.
3. The tool will display a function list menu as below. Press the corresponding number button to perform the desired function.

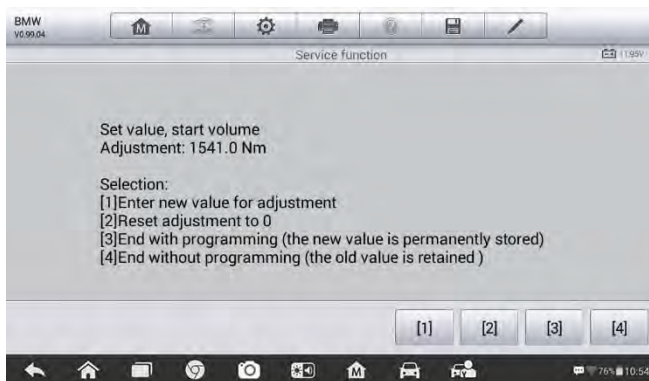


Figure 5-22 Sample Starting Basic Inspection Quantity

[1] Enter New Value for Adjustment

From the Starting Basic Inspection Quantity menu, tap [1] and the screen

displays as below.

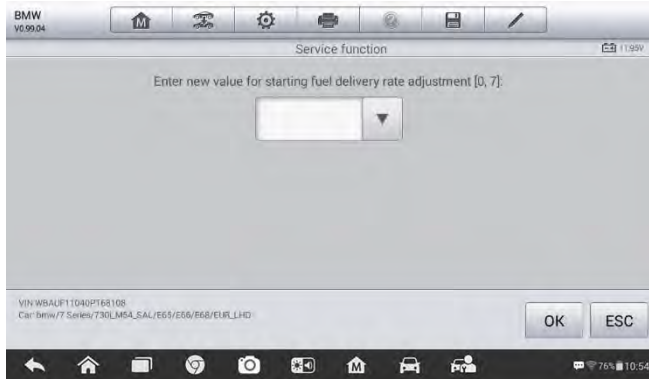


Figure 5-23 Sample Enter New Value Screen

After entering the value, tap **OK** to save the value to the tool. Tap **ESC** to exit the operation.

NOTE: The data you input should be in the range given. If the input data is out of range, the tool will display a warning message “Permissible adjustment range exceeded.”

[2] Reset Adjustment to 0

Once the **[2]** is tapped, the tool will automatically reset the value to zero.

[3]/[4] Store Data and Exit

When the fuel delivery rate adjustment is completed, tap **[3]** to store the new value in the control units; or select **[4]** and **OK** to retain the old value.

5.6.2 Injection Rate

This function is used to adjust the injection volume.

1. Tap **Injection Rate** from the service functions menu to enter the service screen.
2. The tool communicates with the vehicle and reads the fault codes memory. Follow the on-screen instructions to finish this procedure.
3. The tool will display as below. Press the corresponding number button to perform the desired function.

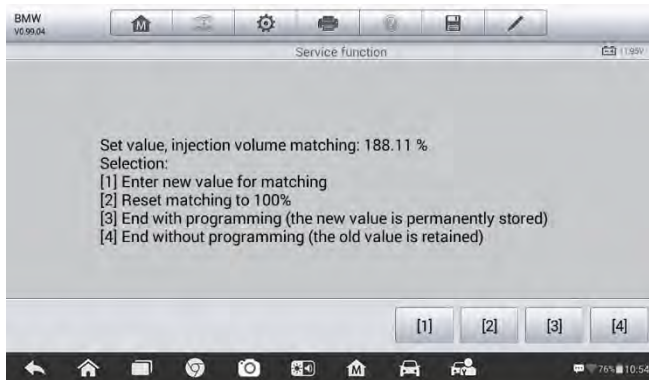


Figure 5-24 Sample Injection Rate Screen

[1] Enter New Value for Adjustment

From the **Injection Rate** menu, tap **[1]** and the screen displays as below.

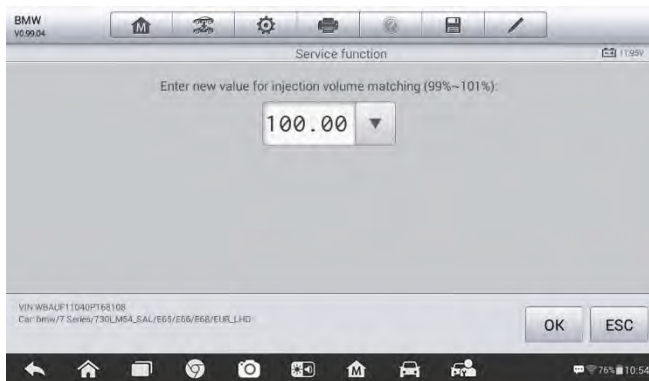


Figure 5-25 Sample Enter Value Screen

NOTE: The data you input should be in given range. If the input data is out of range, the tool will display a warning message “Permissible adjustment range exceeded.”

[2] Reset Adjustment to 100%

Once the **[2]** is pressed, the tool will automatically reset the value to 100%.

[3]/[4] Store Data and Exit

When the injection volume adjustment is completed, select **[3]** and **OK** to store the new value in the control units; or select **[4]** and **OK** to retain the old value.

5.6.3 Injector Rate Adjustment

This function is used to adjust the injector rate for individual cylinders.

1. Tap **Injection rate adjustment** from the service functions menu.
2. The tool communicates with the vehicle and reads the fault codes memory. Follow the on-screen instructions to enter the service function.
3. Tap the corresponding number button to enter new value for each cylinder.
4. Follow the on-screen instructions to tap on the corresponding number **[1]** **[2]** **[3]** **[4]** to enter the new value for the cylinder, restore the old value, and exit after finish the function.

5.6.4 Particle Filter Regeneration

This function is used to perform the particle filter regeneration.

1. Tap **Particle filter regeneration** from the service functions menu.
2. The tool communicates with the vehicle and reads the fault codes memory. Follow the on-screen instructions to check the prerequisites before particle filter regeneration, such as the fuel, the time and driving style.
3. If prerequisites are met, the tool will ask your confirmation to proceed as below. Tap **Request** to begin a regeneration or **End** to end the service function and exit.

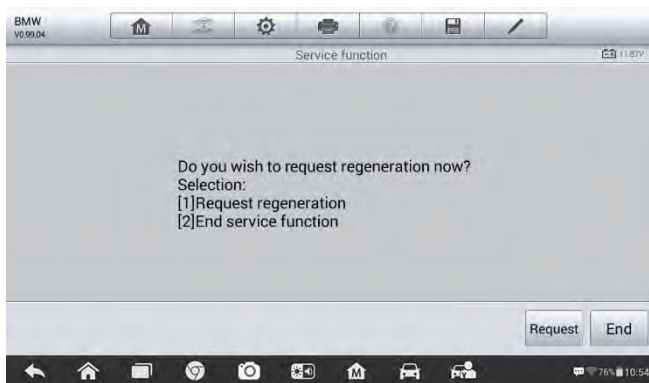


Figure 5-26 Sample Regeneration Confirmation Screen

4. A series of instruction screens display for users to perform the particle filter regeneration step by step. Follow the onscreen instructions and tap **OK** button until the tool displays the regeneration status as below.

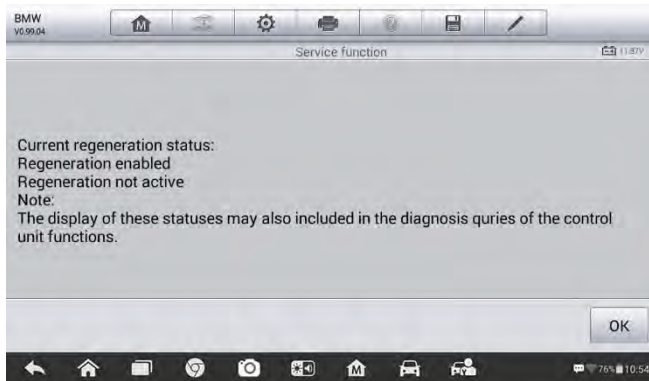


Figure 5-27 Sample Regeneration Status Screen

5. When the particle filter regeneration is complete, confirm to exit the display. Tap **Repeat** to recheck the status again or tap **End** to exit.



Figure 5-28 Sample Repeat Screen

NOTE

1. In the case of a particle filter heavily loaded with soot, it can occur that the regeneration request is blocked again after a short time or is not released. Drive the vehicle for approximately 30 minutes at a constant speed. Then perform the Particle Filter Regeneration service again.
-

2. During the regeneration phase and with the engine running, it can also occur that the display for “Regeneration active” jumps to “Regeneration not active”. This behavior can be seen exclusively with the vehicle stationary with the engine.

5.6.5 Particle Filter Test

It is advisable to carry out a series of particle filter tests as a result of constant DPF regeneration, such as checking oil level, oil change interval for diesel contamination, swirl flaps, backpressure sensors and particle filter soot remains.

1. Tap **Particle filter test** from the service functions menu.
2. The tool communicates with the vehicle and reads the fault codes memory. If there is no relevant fault code stored in DDE, the screen displays as below. Select **Cancel** to exit this function.
3. If there are DPF-related codes stored in DDE, the screen displays as below. Select **OK** to continue or **Cancel** to exit this function.

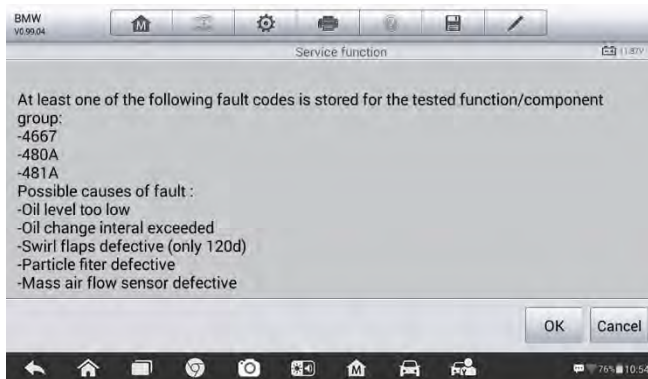


Figure 5-29 Sample Codes Screen

4. The tool shows a list of particle filter test. Select the corresponding number button to perform the desired test [1] [2] [3] [4] [5].

[1] Visual Inspection of Engine Oil

[2] Visual Inspection of Particulate Filter

[3] Function Check or Swirl Flaps

[4] Exhaust Backpressure Test

[5] Actual/Target Value Check-Mass Air Flow Sensor

5.7 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. An immobilizer is considered as providing much more effective anti-theft protection than an audible alarm alone; many auto insurance companies offer lower rates for vehicles that are equipped with an immobilizer.

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 of MK906 can disable a lost vehicle keys and program the replacement key fob. One or more replacement key fobs can be programmed.

➤ To program the replacement key fob(s)

1. Tap **IMMO KEYS** after entering the **Service** function from the MaxiCOM Job Menu.
2. Tap **Automatic Selection** or **Manual Selection** to acquire vehicle VIN information and tap **Yes** to confirm.
3. Tap **Erase/Program all key fobs** in the IMMO function list once displayed. The list may vary by test vehicle.

NOTE

1. To complete key fob programming, the Security Code will need to be required. This can be done through the Security Code Read function in hot functions.
 2. Before programming, please check and erase the fault codes.
-
4. Read the on-screen information carefully and follow the instructions to complete the operation.

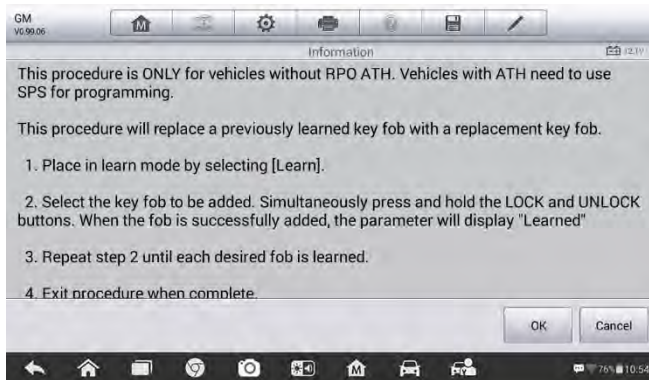


Figure 5-30 Sample IMMO Note Screen

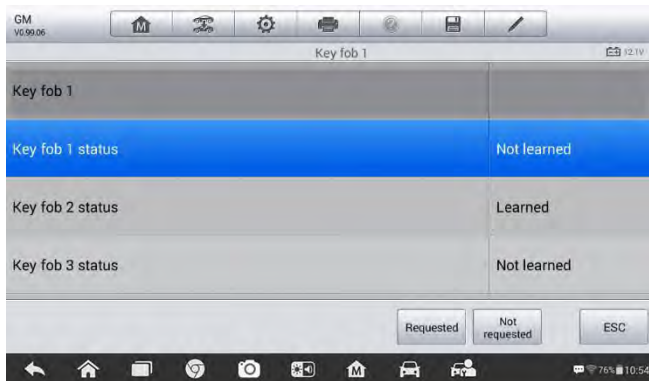


Figure 5-31 Sample Program Key FOB Scree

Chapter 6 Data Manager Operations

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, there are five types of information files to be viewed or played back.



Figure 6-1 Sample Data Manager Main Screen

6.1 Operations

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

6.1.1 Image Files

The Image section is a JPG database containing all captured screenshot images.



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 73 for detailed information.
2. **Main Section** – displays the stored images.

Table 6-1 Toolbar Buttons in JPG Database

Button	Name	Description
	Back	Returns to the previous screen.
	Enter Edit	Tap this button to display the editing toolbar. Print, delete or view image information.
	Cancel	Tap this button to close the editing toolbar or cancel file search.
	Search	Quickly locates the image file by entering the vehicle name, test path, file name or file info.
	Info	Tap this button to display the details.
	Print	Tap this button to print the selected image.
	Delete	Tap this button to delete the selected image.

- **To edit image information**

1. Select **Data Manager** application from the MaxiCOM Job Menu.
2. Select **Image** to access the JPG database.
3. Select an image to display in full screen.
4. Tapping the screen once displays the editing toolbar.
5. Tap the **Info** button to display image information.
6. Tap the **Edit** button 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.

NOTE: The printer driver program must be installed in order for the tablet's Wi-Fi printer capabilities can be used.

➤ **To install the printer driver program**

1. Please download the **Maxi PC Suite** from www.autel.com > Support & Updates > Firmware & Downloads > UPDATE CLIENT, and install to your PC. The Maxi PC Suite consists of Autel Printer, MaxiSys Pinter and PC Suite.
2. Double click on **Setup.exe** item.
3. Select the installation language and the printer driver installation wizard will load momentarily.
4. Follow the wizard instructions on the screen and click **Next** to continue.
5. Click on Install and the printer driver program will be installed onto the computer.
6. Click on Finish to complete the installation procedure.

➤ **To delete selected images**

1. Select **Data Manager** application from the MaxiCOM Job Menu.

2. Select **Image** to access the JPG database.
3. Tap the **Enter Edit** button to display the editing toolbar.
4. Select the images that need to be deleted by tapping the thumbnail images, the selected thumbnail displays a tick icon at the bottom right corner.
5. Tap the **Delete** button, and then **Delete Selected**, then the selected images will be deleted.

6.1.2 PDF Files

The PDF section stores and displays all saved data PDF files. Select a PDF file from the database to display.

The standard Adobe Reader application is used for file viewing and editing, please refer to the associated Adobe Reader manual for detailed instructions.

6.1.3 Review Data

The Review Data section allows playback of the recorded data frames of live data streams.

On the Review Data main screen, select a record file to playback.

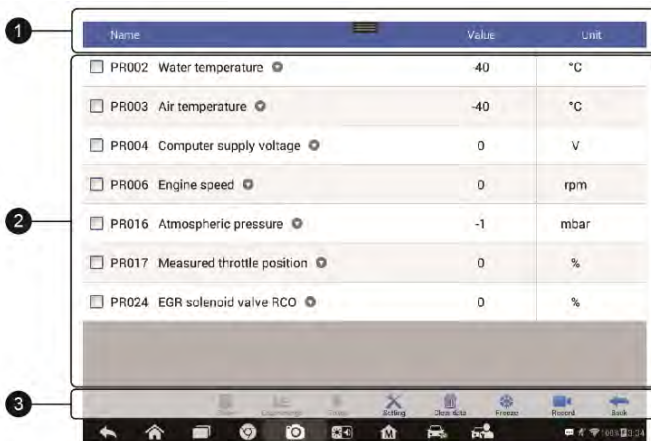


Figure 6-3 Sample Data Playback Screen

1. **Drop-down 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.
3. **Navigation Toolbar** – controls data playback

Use the Navigation Toolbar buttons to playback the record data from frame to frame.

Tap **Back** to exit data playback.

6.1.4 Apps Uninstall

This section manages the firmware applications installed on the MaxiCOM Diagnostics System. Select this section to open a management screen, on which you all the available vehicle diagnostic application can be reviewed.

Tap on the vehicle manufacturer icon that you wish to delete. The selected icon will display a blue check at the upper right corner. Tap the **Delete** button on the top bar to delete the firmware from the system database.

6.1.5 Data Logging

The Data Logging section allows you to launch Support platform directly to view all records of all sent or unsent (saved) data loggings on the diagnostic system. For more details, please refer to [Data Logging](#) on Page 104.

Chapter 7 MaxiFix Operations

The MaxiFix application launches the on-line 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 MaxiCOM users, and gives you access to a vast database of repair and diagnostic tips along with proven filed fixes.

While the MaxiFix database keeps growing with daily troubleshooting resources and the advisory reports from the MaxiCOM 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.

7.1 Navigation

You need to register the device to your online account before launching the MaxiFix platform, see [Product Registration](#) on page 100 for details.

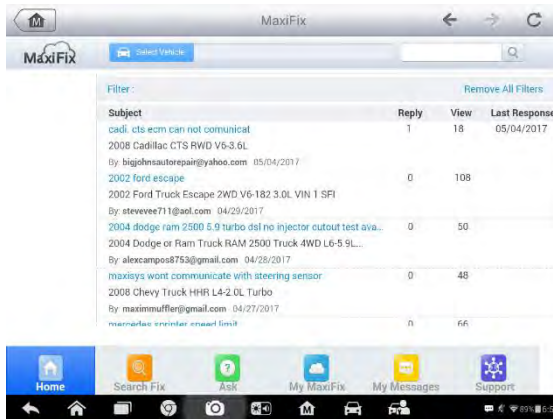


Figure 7-1 Sample MaxiFix Home Page

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 section selected 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 which you want to search 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.

7.1.1 Terminology

MaxiFix Tip

A MaxiFix Tip provides practical information of 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 with the community.

➤ 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 which may include:

- a) OBDII 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, 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 1 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. Each member is allowed to click the "Adopted!" once for a tip, and each click will add 1 count to the total number of "Adopted!" The "Adopted!" count helps you easily identify which tips 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.

7.2 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** –shows all questions and allows you to specify questions about one or multiple 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 in the community.
- **My MaxiFix** – shows 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** – shows a list of message notifications which is relevant to your activities in the Question section.
- **Support** – opens the FAQ page, or a message box for contacting Customer Service by email.

7.2.1 Home

Home is the first option on the Navigation Menu at the bottom of the screen. Tapping it opens 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 makes you are interested in, by clicking the “Filter” button on the main page of Home, and select the desired vehicle makes. This filter can be canceled anytime by clicking the “Remove All Filters” button, and the default setting will be restored to display questions about all vehicle makes.

7.2.2 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 listed in various categories:

- **All** – includes all search results, including related Questions, Tips, and Real Fixes to your search.
- **Questions** – presents a list of open Question discussed in the community that may be pertinent to your search.
- **Tips** – presents a list of Tips that directly correlate to your search criteria. 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.

7.2.3 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. Click **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. On the **Ask** page find **Ask for Help**, 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** – ask 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** – describe how the vehicle is behaving.
- **Repair History** – include 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.

7.2.4 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** –used 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. Select **Select Vehicle** from the Header and enter the identifying attributes of the vehicle you are writing the Tip about.
3. On the My MaxiFix page find **Share a Tip**; 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 right-side bottom of the page to cancel your tip and return to the My MaxiFix page.

Or use the **Submit** button at the right-side bottom of the page to contribute your tip to the community.

Use the **Attach File** button at the left-side bottom 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 determines how you are presented to the community, and what type of information will be sent to you from the community.

7.2.5 My Messages

My Messages, the fifth option on the Navigation Menu at the bottom of the screen, shows a list of message notification which is relevant to your activities in the Question section. A notification icon will appear 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 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 write down the case as a way to share a good solution. This

will help the other MaxiFix members to find useful information for practical fix.

To close a question, you need to select the question's response message from the message list on "My Messages" page first, then 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 which 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.

7.2.6 Support

Support, the last option on the Navigation Menu at the bottom of the screen, opens a page that provides two ways to gain support from MaxiFix:

1. A message form to contact the administrator of MaxiFix.
2. A Frequently Asked Questions (FAQ) link that answers the most frequent questions from MaxiFix community members.

If you wish to contact the administrator of MaxiFix 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

Chapter 8 Settings Operations

Tap the Settings button to adjust the default setting and view information about the MaxiCOM system. There are seven options available for the MaxiCOM system settings:

- **Unit**
- **Language**
- **Printing Setting**
- **Notification Center**
- **About**
- **System Settings**
- **Firmware**

This section describes the procedures to adjust the device's system settings.

8.1 Operations

This section describes the operation procedures for the settings.

8.1.1 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 MaxiCOM Job Menu.
2. Tap the **Unit** option on the left column.
3. Select the appropriate measurement unit, Metric or English. A tick icon will display to the right of the selected unit.
4. Tap the **Home** button on the top left corner to return to the MaxiCOM Job Menu. Or select another setting option for the system setup.

8.1.2 Language

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

➤ **To adjust the language setting**

1. Tap the **Settings** application on the MaxiCOM Job Menu.
2. Tap the **Language** option on the left column.
3. Select the appropriate language. A check will display to the right of the selected language.
4. Tap the **Home** button on the top left corner to return to the MaxiCOM Job Menu. Or tap another setting to adjust.

8.1.3 Printing Setting

Configure this option to enable the tablet to print through a specified Wi-Fi network connection.

➤ **To setup the printer connection**

1. Tap the **Settings** application on the MaxiCOM Job Menu.
2. Tap the **Printing Setting** option 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 the networked PC via Wi-Fi connection.
4. Tap the **Home** button on the top left corner to return to the MaxiCOM Job Menu. Or tap another setting to adjust.

8.1.4 Notification Center

This option allows you to turn the Notification Center function on or off. The Notification Center function configures the MaxiCOM tablet to receive regular on-line 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, to ensure notifications of updates are received. Internet access is required for receiving on-line messages.

➤ **To enable the Notification Center function**

1. Tap the **Settings** application on the MaxiCOM Job Menu.
2. Tap the **Notification Center** option on the left column.
3. Tap the **ON/OFF** button to enable or disable the Notifications function.

If the function is enabled the button turns blue, or if disabled the button turns gray.

4. Tap the **Home** button on the top left corner to return to the MaxiCOM Job Menu or choose another setting to adjust.

When the Notification Center function is turned on, and new messages are received by the MaxiCOM device, a notification message displays on the MaxiCOM Job Menu. Press on the message bar and drag it down, and the received messages are shown in the list. Swipe up or down to view if the message list populates additional screen.

Tap a specific message to launch the corresponding application. For example, tap on an Update notification message and the Update application will launch.

8.1.5 About

The About option displays information regarding the MaxiCOM diagnostic device including the product name, version, hardware, and serial number.

- **To check the MaxiCOM product information in About**
 1. Tap the **Settings** application on the MaxiCOM 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 MaxiCOM Job Menu or select another setting to adjust.

8.1.6 System Settings

Access the Android system setting interface to adjust background system settings including wireless and network settings, sound and display screen settings and system security settings.

- **To enable the App Switcher function**
 1. Tap the **Settings** application on the MaxiCOM Job Menu.
 2. Tap the **System settings** option on the left column.
 3. Tap the **App Switcher** option on the left column.
 4. Check the box beside “Always show the App Switcher” on the right side of the screen, then the App Switcher icon will display.

Short pressing the App Switcher icon opens a control panel:

- Tap a specific app shortcut button to access selected application screen.
- Long press a specific app shortcut button to display the app menu. The shortcut can be altered here.
- Press and drag the App Switcher icon to alter the icon position on the screen.

Refer to Android documentation for additional information about Android system settings.

8.1.7 Firmware

This option allows you to update the vehicle communication firmware embedded in the Display Tablet via the internet.

Before updating the firmware, please make sure the Display Tablet is connected to a power source and the network is stable.

➤ To update the firmware

1. Connect the Display Tablet to a power source.
2. Tap the **Settings** application on the MaxiCOM Job Menu.
3. Tap the **Firmware** option on the left column.
4. The current version and the latest version of the firmware will be displayed. Tap **Update Now** to update the firmware if available.











Chapter 9 Shop Manager Operations

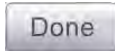
The **Shop Manager** application manages the workshop information, customer information records, and test vehicle history records. There are three main functions available:

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

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

Table 9-1 Top Toolbar Buttons in Shop Manager

Button	Name	Description
	Back	Returns to the previous screen.
	Diagnostics	Tap this button to access vehicle Diagnostics menu.
	Enter Edit	Displays the editing toolbar to print or delete the selected file.
	Delete	Deletes the selected vehicle record.
	Search	Enters the vehicle name or test path to retrieve the vehicle record.
	Cancel	Cancels edit or file search.
	Edit	Edits information for the displayed file.
	Add Account	Creates a new customer account file.
	History Notes	Opens a note form. Audio, video, image and text files may be attached.
	Vehicle History	Displays the Vehicle History which the corresponding test vehicle records.

Button	Name	Description
	Done	Completes editing and saves the file.

9.1 Vehicle History

This function stores test vehicle history records, including vehicle information and the retrieved DTCs from previous diagnostic sessions. All information is displayed in summarized details. Tap on a record to resume a diagnostic session on a “stored vehicle”.

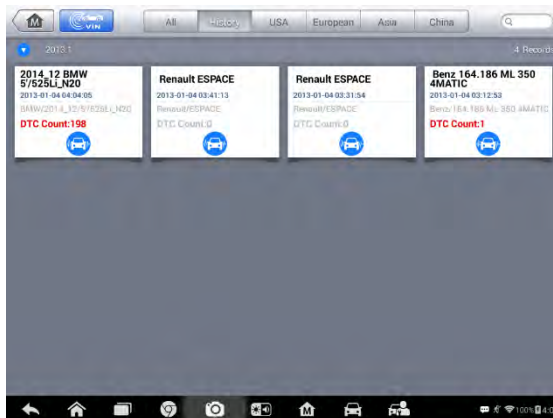


Figure 9-1 Sample Vehicle History Screen

- **To activate a test session for the recorded vehicle**
 1. Tap the **Shop Manager** application on the MaxiCOM Job Menu.
 2. Select **Vehicle History**
 3. Tap the **Diagnostics** button at the bottom of the thumbnail of a vehicle record item. Or,
 4. Or, tap the vehicle record thumbnail to view record.
 5. A Historical Test record sheet displays, check the recorded information of the recorded test vehicle, and tap the **Diagnostics** button on the upper right corner.
 6. The vehicle's **Diagnostics** screen displays, now a new diagnostic session is activated, see [Diagnosis](#) on page 26 for detailed instructions on vehicle diagnostic operations.

9.1.1 Historical Test Record

The Historical Test record sheet is a detailed data form that includes general vehicle information such as vehicle year, make and model. The form also includes retrieved DTC from previous test and all information manually inputted by the technician.

Historical Test

Vehicle Title Ford Mustang

Print

Delete

Vehicle Info

Year	2008
Make	Ford
Model	Mustang
SubModel	
Engine	

VIN

License

Odometer/
Mileage

Color

Service Record

Technician

Technician Notes

Customer Info

First Name

Last Name John

Add to Customer >

DTC

Codes	Status	Descriptions	System
No data			

Activate

Figure 9-2 Sample Historical Test Record Sheet

- **To edit the Historical Test record sheet**
 1. Tap the **Shop Manager** application on the MaxiCOM Job Menu.
 2. Select **Vehicle History**.
 3. Select the specific vehicle history record thumbnail from the main section. The Historical Test record sheet displays.
 4. Tap the **Edit** button to start editing.
 5. Tap on each item to input the corresponding information or add attaching files or images.

NOTE: The vehicle VIN number, or license and the customer information account are correlated by default. Adding one of the information will

automatically associate the other item in the record sheet, provided that the later one exists.

6. Tap **Add to Customer** to supplement the Historical Test record sheet to an existing customer account, or add a new associated account with the test vehicle record. See [Customer Manager](#) on page 94 for more information.
7. Tap **Done** to save the updated record sheet, or tap **Cancel** to exit without saving.

9.2 Workshop Information

The Workshop Information form allows you to edit, input 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 9-3 Sample Workshop Information Sheet

- **To edit the Workshop Information sheet**
 1. Tap the **Shop Manager** application on the MaxiCOM 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.

5. Tap **Done** to save the updated workshop information sheet, or tap **Cancel** to exit without saving.



9.3 Customer Manager

Use the Customer Manager function to create and edit customer accounts and correlate with the associated test vehicle history records.

➤ **To create a customer account**

1. Tap the **Shop Manager** application on the MaxiCOM 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: Required fields are noted.

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 an existing image.
5. Some customers may have more than one vehicle for service; you can always add new vehicle information to the account to be correlated. Tap **Add New Vehicle Information**, and then fill in the vehicle information. Tap the  button to cancel adding.
6. Tap **Done** to save the account, or tap **Cancel** to exit without saving.

➤ **To edit a customer account**

1. Tap the **Shop Manager** application on the MaxiCOM Job Menu.
2. Select **Customer Manager**.
3. Select a customer account by tapping the corresponding name card. A Customer Information sheet displays.
4. Tap the **Edit** button on the top toolbar to start editing.
5. Tap on the input field where needs to be altered or supplemented, 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 the **Shop Manager** application on the MaxiCOM Job Menu.
2. Select **Customer Manager**.
3. Select a customer account by tapping the corresponding name card. A Customer Information sheet displays.
4. Tap the **Edit** button on the top toolbar to start editing.
5. Tap the **Delete Customer Information** button. A confirmation message displays.
6. Tap **OK** to confirm the command, and the account is deleted. Tap **Cancel** to cancel the request.

9.3.1 History Notes

Use the History Notes function to add audio and video records, text notes and photos for the associated customer account.

➤ **To access History Notes**





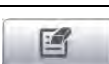


1. Tap the **Shop Manager** application on the MaxiCOM Job Menu.
2. Select **Customer Manager** or **Vehicle History**.
3. Select a customer account by tapping the corresponding name card. A Customer Information sheet displays (if **Customer Manager** is selected). Or, select a vehicle history record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




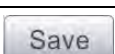


Figure 9-4 Sample History Notes Screen

1. **Functional Buttons** – navigates and makes various controls of the function.
2. **Main Section** – displays the note list on the left column and the detail information of the selected note on the right column.

Table 9-2 Function Buttons in History Notes

Button	Name	Description
	Back	Returns to the previous screen.
	Delete	Deletes the selected note.
	Search	Quickly locates the required note by entering the note title.
	Cancel	Cancels edit or file search.
	Edit	Tap this button to open an edit window to edit notes.
	Add Notes	Adds new note to History Notes.
	Audio Record	Performs audio recording and creates audio files.

Button	Name	Description
	Add Photos	Opens the image file for selection, and adds the selected photos to History Notes.
	Take a Video	Records a video and adds the file to History Notes.
	Take a Photo	Takes photos and adds the files to History Notes.
	Save	Saves notes.

➤ **To add a note in History Notes**

1. Access History Notes.
2. Tap the **Add Notes** button. An edit 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.

Chapter 10 Update Operations

The internal programming of the MaxiCOM Diagnostic System can be updated through the Update application. The updates improve the MaxiCOM applications' capabilities, typically by adding new tests, new models, or enhanced applications to the database.

The display device automatically searches for available updates for all of the MaxiCOM components when it is connected to the internet. Any updates that are found can be downloaded and installed on the device. This section describes installing an update to the MaxiCOM Diagnostic System. A notification message displays if an update is available when the Notifications function is enabled in the Settings application (See [Notification Center](#) page 87 for details).

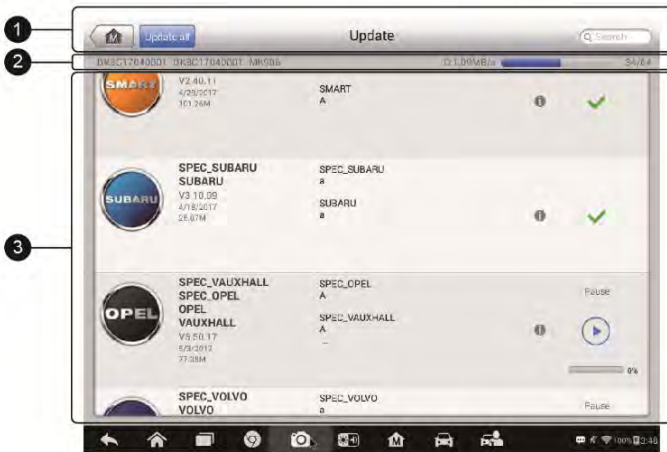


Figure 10-1 Sample Update Screen

1. Navigation and Controls

- Home Button – returns to the MaxiCOM Job Menu.
- Update All – updates all available updates.
- Search Bar – search specific update item by inputting the file name, for example: enter a vehicle manufacturer.

2. Status Bar

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

3. Main Section

- Left Column – displays vehicle buttons and update software version information; tap the **About** button to display a function list with additional software update details.
- Middle Column – displays a brief introduction about the new changes to the software operation or capabilities. Tap ⓘ button to open an information screen to view more details, and tap the dim area around to close the window.
- Right Column – according to the operation status of each software item, the button displays differently.
 - a) Tap **Update** to update the selected item.
 - b) Tap **Pause** to suspend the updating procedure.
 - c) Tap **Continue** to go on updating the suspended update.

➤ **To update the software**

1. Ensure the tablet is connected to a power source and has a stable connection with the internet.
2. Tap the **Update** application button from the MaxiCOM Job Menu; or tap the received notification message; or tap the **Update** icon on Vehicle Menu in Diagnostics application. 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 one or some of the item(s), tap the **Update** button on the right column of the specific item(s).
4. Tap the **Pause** button to suspend the updating process. Tap **Continue** to resume updating and the process will resume from the break point.
5. When the updating process is completed, the software will be installed automatically. The previous version will be replaced.

Chapter 11 Support Operations

This application launches the Support platform which synchronizes Autel's on-line service base station with the Display Tablet. In order to synchronize the device to your on-line account, you need to register the product through the internet when you use it for the first time. The Support application is connected to Autel's service channel and on-line communities which provides the quickest way for problem solutions, allowing you to submit complaints or sent help requests to obtain direct services and supports.

11.1 Product Registration

Register your MaxiCOM Diagnostic Device to access the Support platform and download update.

➤ **To register the diagnostic device**

1. Visit the website: <http://pro.autel.com>.
2. On the Sign In page, input your account ID and other information to log in.
3. If you are a new member to Autel and do not have an account, click the **Create Autel ID** button on the left side.
4. Enter the required information in the input fields, read through Autel's Terms and Conditions and tick on **Agree**, and then click **Create Autel ID** at the bottom to continue.
5. The online system will automatically send a confirmation email to the registered email address. Validate your account by clicking the link provided through the mail. A product registration screen opens.
6. Access the tool's About section in the Settings application to retrieve the tablet's serial number and password.
7. Select the product model of your device, enter the product serial number and password on the Product Registration screen, and click **Submit** to complete the registration procedure.

11.2 Support Screen Layout

The Support application interface is navigated via four simple buttons on the

top navigation bar, operation of each is described below in turn from left to right:

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



Figure 11-1 Sample Support Application Screen

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

11.3 My Account

The My Account screen displays the comprehensive information of the user and the product, which is synchronized with the on-line registered account, including User Info, Device Info, Update Info and Service Info.

Personal Info

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

- **User Info** - displays detailed information of your registered on-line Autel account, such as your Autel ID, Name, Address and other contact information, etc.
- **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 record list of the product’s software update history, including the product serial number, software version or name, and the update time.

Service Info

The Service Info section displays a detailed record list of the device’s service history information. The device’s serial number and a detailed repair report, such as the fault type, changed components, or system reinstallation, will be listed.

11.4 User Complaint

The User Complaint screen allows you to establish a new complaint case, as well as to view historical complaint records.

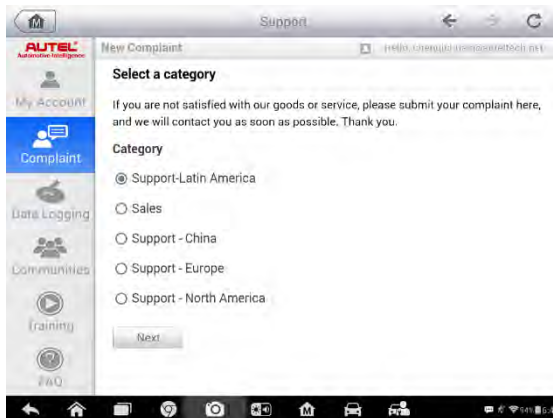


Figure 11-2 Sample Complaint Screen

The User Complaint screen consists of two parts.

1. Option Bar


- **Period Filter** – displays only the complaint records within the defined period on the list.
- **Status Filter** – displays the corresponding complaint records according to the selected case status.
- **New Complaint Button** – starts a new complaint case.

2. Complaint List

The complaint list normally displays all the complaint records of all time and all status by default. The summary information for each complaint item includes the Subject Name, Ticket ID, User's Account ID, Date, and the Case Status.

There are four case status types:

- **Open** – indicates the complaint case has been started but not processed.
- **Suspended** – indicates the complaint case is being processed.
- **Waiting Customer Reply** – indicates the complaint has been replied to by a service personnel, and requires feedback from the customer.
- **Closed** – indicates the complaint case has been processed, resolved, and closed.

➤ 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 the **Support** application on the MaxiCOM Job Menu. The device information is automatically synchronized with the online account.
3. Tap **Complaint** on the Main Menu.
4. Tap the **New Complaint** button at the upper right corner. A selection menu with a category of service channels displays.
5. Select a 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 image or

PDF files with the form.

6. Enter in each input field the appropriate information. In order to settle the complaint more efficiently, it is recommended to fill out the complaint form as completely 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, and the respond speed may depend on the processing time you've required.

➤ **To make a reply in a complaint session**

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

11.5 Data Logging

The Data Logging section keeps records of all sent or unsent (saved) data loggings on the diagnostic system. The support personnel receive and process the submitted reports through the Support platform, and send back problem solutions within 48 hours. Support personnel will answer your questions directly.

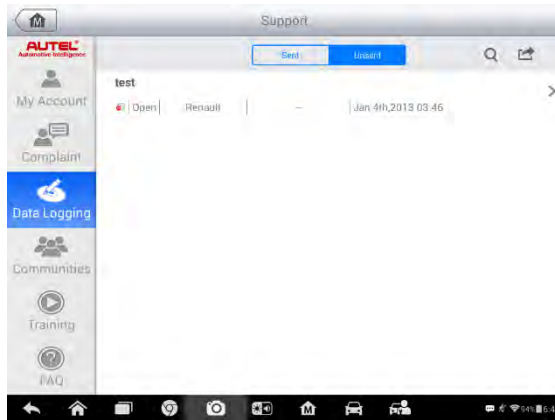


Figure 11-3 Sample Data Logging Screen

- **To make a reply in a Data Logging session**
 1. Tap on the **Sent** tag to view a list of submitted data loggings.
 2. Select a specific item to view the latest update.
 3. Tap on the input field at the bottom of the screen, and enter texts. Or tap the Audio button to record a voice message or camera button to include an image.
 4. Tap **Send** to send message to the technical center.

11.6 Communities

The Communities section launches and synchronizes with the Technical Forums on Autel's official website www.autel.com, where you are allowed to discuss technical topics or share information with, as well as ask for technical advices or offer technical supports to all other members in Autel's online support communities.

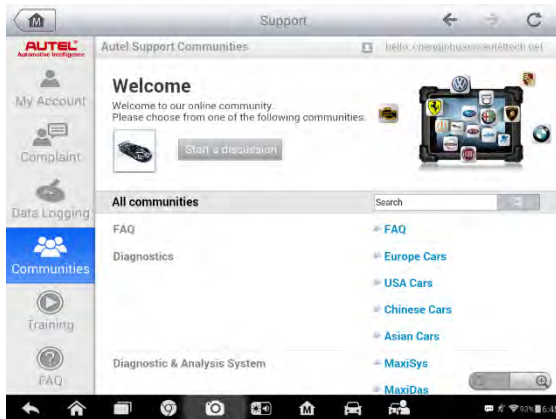


Figure 11-4 Sample Communities Home Screen

➤ **To start a discussion**

1. Tap **Start a discussion** on the Communities Home screen. A list of the major forums is displayed.
2. Select the appropriate device heading. For example, if you are going to ask a question about the MaxiCOM tablet, tap **MaxiCOM** to start a discussion.
3. Enter your topic and the discussion content in the appropriate input field.
4. Select a category or edit tags for the discussed post. This will help other 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, whether by the product or 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 posts contents are displayed.
4. Browse through all the posts by sliding the screen up and down. Tap

Go to original post when reaching the end of the discussion to return to the first post.

5. Tap **Reply** to reply a specific post, or tap **Reply to original post** to join and continue the whole discussion.
6. Enter your comment in the input field, and tap **OK** to submit your post.

11.7 Training Channels

The Training section provides quick links to Autel's online video accounts. Select a video channel by the language to see all the available online tutorial videos from Autel for various technical supports, such as product usage techniques and vehicle diagnostics practice.

11.8 FAQ Database

The FAQ section provides you comprehensive references for 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.

Chapter 12 Academy Operations

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.



Figure 12-1 Sample Academy Screen

Chapter 13 Remote Desk Operations

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 MaxiCOM tablet on their PC via the TeamViewer software.

13.1 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 and will not change later on.

Make sure the Display Tablet is connected to the internet before launching the Remote Desk application, so that the Display Tablet is accessible to receive remote support from the third party.

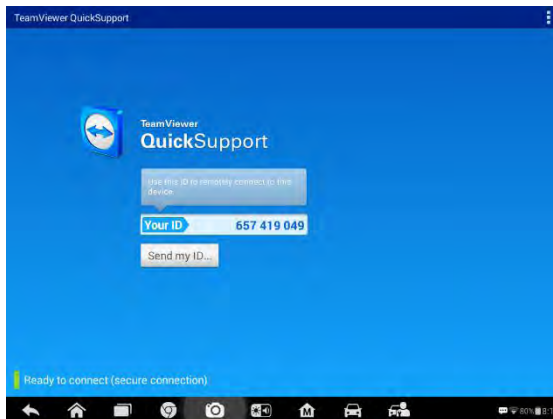


Figure 13-1 Sample Remote Desk Screen

- **To receive remote support from a partner**
 1. Power on the Display Tablet.
 2. Tap the **Remote Desk** application on the MaxiCOM 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>), and then start the software on his/her computer at the same time, in order to provide support and take control of the Display Tablet remotely.
4. Provide your ID to the partner, and wait for him/her to send you a remote control request.
5. A popup 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.

Chapter 14 Quick Link Operations

The Quick Link application provides convenient access to Autel's official website and to additional in automotive service sites.

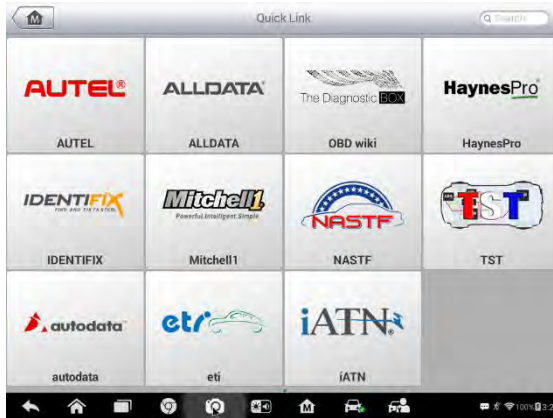


Figure 14-1 Sample Quick Link Screen

➤ **To open a quick link**

1. Tap the **Quick Link** application on the MaxiCOM Job Menu. The Quick Link application screen displays.
2. Select a website thumbnail from the main section. The built-in Android browser is launched and the selected website is opened.
3. Now you can start exploring the website!

Chapter 15 Function Viewer

The Function Viewer allows you to search the functions supported by our tools and the software 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 MaxiCOM 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.

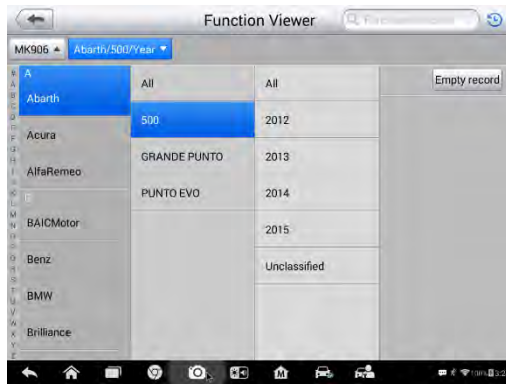


Figure 15-1 Sample Function Viewer Screen 1

3. Tap the vehicle brand, model, and year you want to search.
4. All the functions support by the selected tool for the selected vehicle displays in three columns, function, sub function, and version.

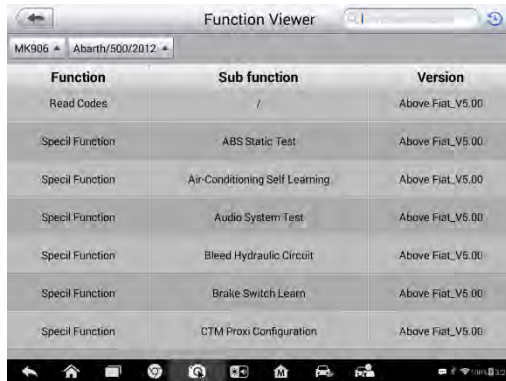


Figure 15-2 Sample Function Viewer Screen 2

➤ **Search by the functions**

1. Tap the **Function Viewer** application on the MaxiCOM 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 to the top right search column. All the vehicles with this function will be listed with 8 columns, the Brand, Model, Year, System, Sub system, Function, Sub function, and Version.

NOTE

Fuzzy search is supported, type in part of the function you want to search can also find you all the related.



The screenshot shows the 'Function Viewer' application interface. At the top, there is a search bar with the text '01'. Below the search bar, there are dropdown menus for 'MK906', 'Buick/Century/Year', 'System', and 'Type'. The main content is a table with the following columns: Year, System, Type, Function, Sub function, and Version. The table lists several entries for the year 2001, all for 'Body control module' in a 'Passenger Car' system. The functions listed are 'Active Test', 'Erase Codes', 'Live Data', 'Read Codes', 'Special Function' (with sub-functions 'BCM reprogramming', 'Key fob function test', and 'Point of sale').

Year	System	Type	Function	Sub function	Version
(1) 2001	Body control module	Passenger Car	Active Test	/	Above GM_V9.50
(1) 2001	Body control module	Passenger Car	Erase Codes	/	Above GM_V9.50
(1) 2001	Body control module	Passenger Car	Live Data	/	Above GM_V9.50
(1) 2001	Body control module	Passenger Car	Read Codes	/	Above GM_V9.50
(1) 2001	Body control module	Passenger Car	Special Function	BCM reprogramming	Above GM_V9.50
(1) 2001	Body control module	Passenger Car	Special Function	Key fob function test	Above GM_V9.50
(1) 2001	Body control module	Passenger Car	Special Function	Point of sale	Above GM_V9.50

Figure 15-3 Sample Function Viewer Screen

Chapter 16 Maintenance and Service

To ensure that the MaxiCOM diagnostic tablet performs at its optimum level, we advise that the product maintenance instructions covered in this section is read and followed.

16.1 Maintenance Instructions

Follow these guidelines to maintain your tool and ensure its optimum performance.

- 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 to 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 your tablet.
- 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.

16.2 Troubleshooting Checklist

A. When the Display Tablet does not work properly:

- Ensure the tablet has been registered online.
- Ensure the system software and diagnostic application software are properly updated.
- Ensure the tablet is connected to the internet.
- Check all cables, connections, and indicators to see if the signal is being received.

B. When battery life is shorter than usual:

- This may happen when you are in an area with low Wi-Fi signal strength. Turn off your device when not in use.

C. When the tablet cannot be turned on:

- Ensure the tablet is connected to a power source or the battery is charged.

D. When you are unable to charge the tablet:

- Your charger maybe out of order. Contact your nearest dealer.
- You may be attempting to use the device in an overly hot/cold temperature. Try changing the charging environment.
- Your device may have not been connected to the charger properly. Check the connector.

NOTE: If your problems persist, please contact Autel's technical support personnel or your local selling agent.

16.3 About Battery Usage

Your tablet is powered by a built-in Lithium-ion Polymer battery. This means that, unlike other forms of battery technology, you can recharge your battery while some charge remains without reducing your tablet's autonomy due to the "battery memory effect" inherent in those technologies.



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 other hazard.
- Ensure to use the charger and USB cables only that come together in the package. If you use the other charger and USB cables, you might incur malfunction or failure of the device.
- Only use the charging device that has been qualified with device per the standard. Use of an unqualified battery or charger may present a risk of fire, explosion, leakage, or other hazard.
- Avoid dropping the tablet. If the tablet is dropped, especially on a hard surface, and the user suspects damage, contact support.
- Move the tablet closer to your network's base station to improve battery life.
- The battery recharging time varies depending on the remaining battery capacity.
- Battery life inevitably shortens over time.
- Since over charging 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.

16.4 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 (see the following contact info) or your local distributor.

AUTEL CHINA HQ

- Phone: 0086-755-8614 7779
- Website: www.autel.com
- Email: support@autel.com
- Address: 6th-10th floor, Building B1, Zhiyuan, Xueyuan Road, Xili, Nanshan, Shenzhen, 518055, China

AUTEL NORTH AMERICA

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

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 agent, or to the below address:

6th-10th Floor, Building B1, Zhiyuan,
Xueyuan Road, Xili, Nanshan,
Shenzhen, 518055, China

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

Chapter 17 Compliance Information

FCC Compliance

FCC ID: WQ8MAXISYSMY906

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.

Chapter 18 Warranty

12-Month Limited Warranty

Autel Intelligent Technology Corp., Ltd. (the Company) warrants to the original retail purchaser of this MaxiCOM MK906 Diagnostic Device, that should this product or any part thereof during normal consumer usage and conditions, be proven defective in material or workmanship that results in product failure within twelve (12) months period from the date of delivery, 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.
