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O IMPORTANT

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

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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 required for servicing vehicles, as well as the skills 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 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. Be sure to 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.

ADANGER

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

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 at the time of publication. 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.

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.

\triangle 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.

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1 Using This Manual

This manual contains device usage instructions.

Some illustrations shown in this manual may make reference to 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 Notes and Important Messages

1.1.2.1 Notes

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

1.1.2.2 Important

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

1.1.3 Hyperlink

Hyperlinks are available in electronic documents. Blue italic text indicates a selectable hyperlink; blue underlined text indicates a website link or an email address link.

1.1.4 Illustrations

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

1.1.5 Procedures

An arrow icon indicates a procedure.

Example:

> To power down the tablet

- 1. Long press the **Power/Lock** button.
- 2. Tap **Power off**. The tablet will turn off in a few seconds.

2 General Introduction

Together with the ability to quickly read and clear DTCs for all available modules of the majority of the makes and models on the market, MaxiDAS DS808S-TS provides superior special functions, including Oil Reset, EPB (Electronic Parking Brake), SAS (Steering Angle Sensor), and BMS (Battery Management System). In addition to OBDII diagnostics and special functions, DS808S-TS can perform comprehensive TPMS services with ease.

There are two main components of the DS808S-TS system:

- DS808S-TS Tablet the central processor and monitor for the system.
- MaxiVCI Mini a vehicle communication interface. Used for accessing vehicle data.

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

2.1 MaxiDAS DS808S-TS Tablet

2.1.1 Function Description



Figure 2-1 Tablet Front View

- 1. 7.0" LCD Touchscreen
- 2. Ambient Light Sensor detects ambient brightness.
- 3. Power LED indicates battery level & charging or system status.
- 4. TPMS Service Symbol indicates the position of the embedded TPMS antenna.

The power LED displays green, yellow or red depending on power level and operating state.

- A. Green
 - Illuminates green when the tablet is charging and the battery level is above 90%.
 - Illuminates green when the tablet is powered on and the battery level is above 15%.
- B. Yellow
 - Illuminates yellow when the tablet is charging and the battery level is below 90%.
- C. Red
 - Illuminates red when the tablet is powered on and the battery level is below 15%.
 - Illuminates red when the tablet shows abnormality after being powered on or during charging.



Figure 2-2 Tablet Back View

- 5. Collapsible Stand extends from the back to allow hands-free viewing of the tablet.
- 6. Heat Sink
- 7. MaxiVCI Mini Holder



Figure 2-3 Tablet Top View

- 8. Micro SD Card Slot holds the Micro SD card.
- 9. HDMI (High-Definition Multimedia Interface) Port
- 10. USB Port
- 11. Power/Lock Button turns the device on/off with long press, or locks the screen with short press.

2.1.2 Power Sources

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

- Internal Battery Pack
- External Power Supply

2.1.2.1 Internal Battery Pack

The tablet can be powered with the internal rechargeable battery, which if fully charged can provide sufficient power for about 6.5 hours of continuous operation.

2.1.2.2 External Power Supply

The tablet can be powered from a wall socket using the included Mini USB cable and the external power adapter. The external power supply also charges the internal battery pack.

2.1.3 Technical Specifications

Item	Description
Recommended Use	Indoor
Operating System	Android [™] 11
Processor	RK3566 Quad-core Arm Cortex-A55 processor (1.8 GHz)
Memory	4GB RAM & 64GB ROM
Display	7-inch LCD screen with 1024 x 600 resolution
Connectivity	 Mini USB 2.0 USB 2.0 Wi-Fi Bluetooth HDMI Type A Micro SD card (supports up to 64 GB)
Sensor	Ambient light sensor for brightness auto changing
Audio Input/Output	Input: N/AOutput: buzzer
Power and Battery	 3.7 V/5000 mAh lithium-polymer battery Charges via 5 V DC power supply
Tested Battery Life	Around 6.5 hours of continuous use
Battery Charging Input	5 V/2 A
Power Consumption	Approx. 600 mA (LCD on with default brightness, Wi-Fi on) @3.7 V
Operating Temp.	0 to 50 °C (32 to 122 °F)
Storage Temp.	-10 to 60 °C (14 to 140 °F)
Operating Humidity	5% to 95% non-condensing
Dimensions (W x H x D)	270.8 mm (10.0") x 176.0 mm (6.9") x 36.0 mm (1.4")

Table 2-1 Specifications

Item	Description
Net Weight	885 g (2.31 lbs.)
Protocols	ISO9141-2, ISO14230-2, ISO15765, K/L-Line, Flashing Code, SAE-J1850 VPW, SAE-J1850PWM, ISO11898 (High-speed, Middle-speed, Low-speed and Single-wire CAN, fault-tolerant CAN), SAE J2610, GM UART, UART Echo Byte Protocol, Honda Diag-H Protocol, TP2.0, TP1.6

2.2 MaxiVCI Mini

MaxiVCI Mini is a small vehicle communication interface (VCI) that wirelessly connects to the tablet vehicle's data link connector (DLC) for vehicle data transmission.



Figure 2-4 MaxiVCI Mini Views

2.2.1 Function Description

- 1. Vehicle Data Connector (16-Pin) connects the MaxiVCI Mini to the vehicle's 16-pin DLC directly.
- 2. Power LED refers to Table 2-2 Power LED on page 8 for details.
- 3. Connection LED refers to Table 2-3 Connection LED on page 8 for details.
- 4. Mini USB Port provides the easiest connection between the device and the tablet via a Mini USB cable.

Table 2-2 Power LED

LED	Color	Description
	Green	Lights solid green when powered on.
Power	Red	Flashes red when a system failure occurs. Note: The power LED briefly lights red each time the device powers on and then lights green when the device is ready.

Table 2-3 Connection LED

LED	Color	Description	
Connection	Green	 Lights solid green when the device is successfully connected via the Mini USB cable but is not communicating with the vehicle. Flashes green when the device is successfully connected via the Mini USB cable and is communicating with the vehicle. 	
	Blue	 Lights solid blue when the device is successfully connected via Bluetooth but is not communicating with the vehicle. Flashes blue when the device is successfully connected via Bluetooth and is communicating with the vehicle. 	

2.2.2 Power Source

The MaxiVCI Mini operates on 12-volt vehicle power, which is received through the vehicle's DLC. The unit powers on whenever it is connected to the vehicle's DLC.

2.2.3 Technical Specifications

Item	Description
Communications	 BT V.2.1 + EDR Mini USB 2.0
Wireless Frequency	2.4 GHz
Input Voltage Range	12 V DC to 24 V DC
Supply Current	150 mA @ 12 V DC
Operating Temp.	0 to 50 °C (32 to 122 °F)
Storage Temp.	-10 to 60 °C (14 to 140 °F)
Dimensions (L x W x H)	47 mm (1.7") x 23 mm (0.9") x 51 mm (2.0")
Weight	33.1 g (0.07 lbs.)

Table 2-4 Specifications

2.3 Other Accessories

<i>s</i>	Mini USB Cable (for testing) 2 m
	Mini USB Cable (for charging) 90 cm
	External Power Adapter Together with the Mini USB cable, connects the tablet to the external DC power port for power supply.

3 Getting Started

Ensure the tablet is sufficiently charged or is connected to an external power supply (see *Power Sources* on page 5).

NOTE

The images and illustrations depicted in this manual may differ slightly from those in the most recent product.

3.1 Powering Up

Long press the **Power/Lock** button on the top-right side of the tablet to power on the unit. The power LED will illuminate green. The system boots up and displays the lock screen. Slide the screen up to enter the MaxiDAS Job Menu.



Figure 3-1 MaxiDAS Job Menu

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

⊘ NOTE

The tablet screen is locked by default when first powered on. We recommend you lock the screen to protect the information in the system and conserve the power.

The touchscreen navigation is menu-driven, enabling quick access to functions and features by tapping on the buttons on the screen. Detailed descriptions of the menu items are found in the application chapters.

3.1.1 Application Buttons

Descriptions of the tool applications are displayed in the table below:

Button	Name	Description			
(II	Diagnostics	Accesses diagnostic functions menu. See <i>Diagnostics</i> on page 16 for details.			
F	Service	Accesses special functions menu. See <i>Service</i> on page 47 for details.			
	TPMS	Accesses the TPMS service program. See <i>TPMS</i> on page 52 for details.			
	ToolKit	Accesses auxiliary functions menu for TPMS service. See <i>ToolKit</i> on page 85 for details.			
ل	TPMS Retrofit	Allows TPMS to be installed on vehicles. See <i>TPMS Retrofit</i> on page 86 for details.			
	Update	Checks for the latest update available for the MaxiDAS system and installs new software. See <i>Update</i> on page 88 for details.			
@	Settings	Accesses the MaxiDAS system settings menu and general tablet menu. See Settings on page 90 for details.			

Table 3-1 Applications

Button	Name	Description				
	Data Manager	Accesses the organization system for saved data files. See <i>Data Manager</i> on page 95 for details.				
VCI	VCI Manager	/CI Manager Pairs the tablet and the MaxiVCI Mini. Checks the communication status and updates the VCI firmware. See <i>VCI Manager</i> on page 105 for details.				
 5©	Battery Test	Battery Test Accesses the Battery Test menu with two functions, including in-vehicle test and out-vehicle test. See Battery Test on page 109 for details.				
	Remote Desktop	Configures the unit to receive remote support using the TeamViewer application. See <i>Remote Desktop</i> on page 122 for details.				
	Support	Launches the Support platform which synchronizes Autel's on-line service base station with the MaxiDAS tablet. See <i>Support</i> on page 124 for details.				
	OEM Authorization	Unlocks the gateway ECU (CGW) for some vehicles to perform advanced diagnostics tests. See <i>OEM Authorization</i> on page 128 for details.				
	MaxiViewer	Provides quick search for the supported functions and vehicles of Autel diagnostic tools. See <i>MaxiViewer</i> on page 129 for details.				
Ó	MaxiVideo	Configures the unit to operate as a video scope device by connecting to an imager head cable for close vehicle inspections. See <i>MaxiVideo</i> on page 132 for details.				
	Quick Link	Provides associated website bookmarks to allow quick access to product update, service, support, and other information. See <i>Quick Link</i> on page 138 for details.				

Button	Name	Description
×	MaxiTools	Includes log collection and factory data reset two parts.
2	Autel User Center	Allows you to register an account, view and edit your personal profile and link your device.

3.1.2 Locator and Navigation Buttons

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

Button	Name	Description	
	Locator	Indicates which screen you are on. Swipe the screen left or right to view the previous or next screen.	
	Back	Returns to the previous screen.	
	MaxiDAS Home	Returns to the MaxiDAS Job Menu from other operations.	
	Android Home	Returns to the Android system's Home screen.	
	Recent Displays a list of applications that are currently in us an app icon to launch. Close a running applicat swiping it to the top. Or close all running application tapping Clear All.		
9	Chrome	Launches the Google Chrome browser.	
C.	Screenshot	Takes a screenshot when you want to save the displayed information.	

Table 3-2 Locator and Navigation Buttons

Button	Name	Description
۲	Display Brightness	Supports the display brightness automatically or manually adjustment.
VC& VC& VC&	VCI Manager Shortcut	Opens the VCI Manager application. The BT or the cable badge at the bottom-right corner indicates the tablet is communicating with the VCI device. An X badge will display at the bottom-right corner if the tablet is not connected to the VCI device.
	Diagnostics Shortcut Returns to the Diagnostics screen.	
Ē	Service Shortcut Returns to the Service screen.	
(!)	TPMS Shortcut	Returns to the TPMS screen.

3.1.3 System Status Icons

By tapping the bottom-right corner or sliding from the top of the screen, a Shortcut Panel will be displayed, on which you are allowed to adjust various system settings for the tablet. As the tablet is working with Android operating system, you may refer to Android documents for more information.

3.2 Powering Down

All vehicle communications must be terminated before shutting down the tablet. A warning message appears if you attempt to shut down the tablet while it is communicating with the vehicle. Forcing a shut-down while communicating may lead to ECU problems on some vehicles. Please exit the Diagnostics application before powering down.

> To power down the tablet

- 1. Long press the **Power/Lock** button.
- 2. Tap **Power off**. The tablet will turn off in a few seconds.

3.2.1 Reboot System

In case of a system crash, long press the **Power/Lock** button and tap the **Restart** option to restart the system.

4 Diagnostics

The Diagnostics application can retrieve ECU information, read & erase DTCs, and view live data. The Diagnostics application can access the electronic control unit (ECU) for various vehicle control systems, including engine, transmission, antilock brake system (ABS), and airbag system (SRS).

4.1 Establishing Vehicle Communication

Prior to performing the Diagnostics function, ensure the tablet is connected to the test vehicle through the MaxiVCI Mini. To establish a proper vehicle communication between the tablet and the test vehicle, you can perform the following steps:

- 1. Connect the MaxiVCI Mini to the vehicle's DLC for both communication and power supply.
- 2. Connect the MaxiVCI Mini to the tablet via Bluetooth pairing or Mini USB cable connection.
- A BT badge or an USB cable badge will display at the bottom-right corner of the VCI Manager shortcut, which means the communication of MaxiVCI Mini and DS808S-TS tablet has been established, and the tablet is ready to start vehicle diagnosis.

4.1.1 Vehicle Connection

To connect the MaxiVCI Mini to the test vehicle, insert the vehicle data connector on the MaxiVCI Mini into the vehicle's DLC which is usually located under the vehicle dashboard, and the MaxiVCI Mini will be automatically powered on.

⊘NOTE

The vehicle's DLC is not always located under the dashboard. Refer to the vehicle's user manual for DLC location.

4.1.2 VCI Connection

The Power LED on the MaxiVCI Mini will light solid green when properly connected to the vehicle and be ready to establish communication with the tablet.

The wireless diagnostic interface MaxiVCI Mini supports two communication methods with the tablet: Bluetooth or Mini USB Cable Connection.

4.1.2.1 Bluetooth Connection

Bluetooth pairing is recommended as the first choice for the communication between the tablet and the MaxiVCI Mini. This is because the Bluetooth connection does not need to repeat the plugging and unplugging procedure which is unavoidable when using traditional wired connection, saving more time and providing higher efficiency. The working range for Bluetooth communication is about 33 feet (about 10 m), enabling remote vehicle diagnostics.

Refer to VCI Bluetooth Pairing on page 106 for details.

4.1.2.2 Mini USB Cable Connection

Use the provided Mini USB cable to connect the tablet to the MaxiVCI Mini. An USB cable badge will display at the bottom-right corner of the VCI Manager shortcut and the Connection LED on MaxiVCI Mini will light solid green when the connection between the devices is successful.

4.1.3 No Communication Message

- A. If the tablet is not connected to the MaxiVCI Mini correctly, an "Error" message may display. This indicates that the tablet cannot access the vehicle control module. In this case, please do the following check-ups:
 - Check if the MaxiVCI Mini is powered up.
 - Check if the MaxiVCI Mini is properly positioned.
 - Check if the Connection LED on the MaxiVCI Mini is illuminated for Bluetooth or Mini USB cable connection.
 - In the case of Bluetooth connection, check if the network is configured correctly, or if the right MaxiVCI Mini has been paired up with the tablet.
 - During the diagnosis process, if the communication is suddenly interrupted due to the loss of signal, check if there is any object that causes signal interruption.
 - Try standing closer to the MaxiVCI Mini to obtain more stable signals and faster communication speed.
 - In the case of Mini USB cable connection, check the cable connection between the tablet and the MaxiVCI Mini.
 - Check if the Power LED on the MaxiVCI Mini is flashing red and if so, it indicates there is a hardware problem with the MaxiVCI Mini. In this case, contact technical support for help.
- B. If the MaxiVCI Mini is unable to establish a communication link, a prompt message

displays with check instructions. The following conditions are the possible causes:

- The MaxiVCI Mini is unable to establish a communication link with the vehicle.
- The system selected for testing is not equipped on the vehicle.
- There is a loose connection.
- There is a blown vehicle fuse.
- There is a wiring fault of the vehicle or the adapter.
- There is a circuit fault in the adapter.
- Incorrect vehicle identification was entered.

4.2 Getting Started

Ensure a communication link is established between the test vehicle and the tablet via the MaxiVCI Mini.

4.2.1 Vehicle Menu Layout

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



Figure 4-1 Vehicle Menu

- 1. Top Toolbar Buttons
- 2. Vehicle Manufacturer Buttons

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

Button	Name Description				
	Home	Returns to the MaxiDAS Job Menu.			
VID	VID	VID Provides a fast way to identify the test vehicle. See Vehicle Identification on page 20 for details.			
All	All	Displays all the vehicle manufacturers.			
Favorites	Favorites	Adds your preferred vehicle manufacturers into favorites.			
History	History	Displays the saved history records. See Vehicle History on page 96 for details.			
USA	USA	JSA Displays vehicles from U.S. manufacturers.			
European	European	European Displays vehicles from European manufacturers.			
Asia	Asia	Displays vehicles from Asian manufacturers.			
China	China	Displays vehicles from Chinese manufacturers.			
Q	Search	Tap the search field to show a virtual keyboard and enter a vehicle manufacturer name.			
Cancel	Cancel	Tap to exit the search screen or cancel an operation.			

Table 4-1 Top Toolbar Buttons

4.2.1.2 Vehicle Manufacturer Buttons

The vehicle manufacturer buttons list the vehicle brands available for testing. Select the manufacturer button after the tablet is properly connected to the test vehicle to start a diagnostics session.

4.3 Vehicle Identification

The MaxiDAS diagnostics system supports four methods for vehicle identification:

- 1. Auto Detect
- 2. Manual Input
- 3. Automatic Selection
- 4. Manual Selection

4.3.1 Auto Detect

The MaxiDAS diagnostics system features the latest VIN-based Auto Detect function to identify vehicles and scan all the diagnosable ECUs and run diagnostics on the selected system. This function is compatible with 2006 and newer vehicles.

> To perform Auto Detect

1. Tap the **Diagnostics** application button from the MaxiDAS Job Menu. The Vehicle Menu displays.



2. Tap the VID button on the top toolbar to open the dropdown list.

Figure 4-2 VID Screen

 Select Auto Detect. Once the test vehicle is identified, the screen will display the vehicle VIN. Tap OK at the bottom-right corner to confirm the vehicle VIN. If the VIN does not match with the test vehicle's VIN, enter VIN manually or tap Read to acquire VIN again.

BMW V1.00	\$	e	?	Ð			
	Acquire	VIN informa	tion			VCb	12.04V
	IN manually			VIN.			
VIN Info:				Rea	ad	ок	ESC

Figure 4-3 Auto Detect Screen

4. Tap Yes to confirm the vehicle profile, or tap No if the information is incorrect.

BMW V1.00	2 4 8 0 8 9	
	Confirm vehicle profile	VCb =+ 12.04V
Chassis series	5 Series_E60/E61	
Model	520i_M54_SAL	
Version	CHN_LL	
Model year	2005_03	
VIN: Info:		Yes No

Figure 4-4 Vehicle Profile Screen

5. The tool establishes communication with the vehicle and reads the control unit information. Choose **Auto Scan** to scan all the test vehicles' available systems or tap **Control Unit** to access a specific system to diagnose.

BMW V1.00	\$ (2)	e () e	
	Diagnos	stic menu	VCb == 12.04V
Auto scan	Control unit		
VIN: Info:BMW/57525LLN20/F18/EUR_LL			ESC

Figure 4-5 Diagnostic Menu Screen

4.3.2 Manual Input

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

- To perform Manual Input
 - 1. Tap the **Diagnostics** application button from the MaxiDAS Job Menu. The Vehicle Menu displays.
 - 2. Tap the VID button on the top toolbar to open the dropdown list.
 - 3. Select Manual Input.
 - 4. Enter the correct VIN into the input box.

	All Favorites H	History USA Eur	ropean Asia Chi	na Q
- CHECK	Er	nter VIN Enter lic	ense 🛞	VOLKSWAGEN
EOBD	Pie	ase Enter VIN		Volkswagen Brazil
CHRYELER		ок		DEMO
Chrysler	DODGE	JEEP	GM Brazil	Demo
FORD	FIAT	ABAFTH	ALFA	LANCIA
FordEU	Fiat	Abarth	Alfa	Lancia

Figure 4-6 Manual Input Screen

- 5. Tap **OK**. Once the vehicle is identified, the Vehicle Diagnostics screen displays.
- 6. Tap \bigotimes at the top-right of the dialog to exit Manual Input.

4.3.3 Automatic Selection

The vehicle VIN can also be automatically acquired after a vehicle manufacturer is selected.



Figure 4-7 Selection Screen

> To perform Automatic Selection

- 1. Tap the **Diagnostics** application button from the MaxiDAS Job Menu. The Vehicle Menu displays.
- 2. Select a vehicle manufacturer.
- 3. Tap **Automatic Selection** and the VIN information will be acquired automatically. Follow the on-screen instruction to display the Diagnostic Menu screen.

4.3.4 Manual Selection

When the VIN is not automatically retrievable through the vehicle's ECU, or when the VIN is unknown, you can select the vehicle manually.

This mode of vehicle selection is menu-driven. Repeat the first two steps from the automatic selection operation and tap **Manual Selection**. Through a series of on-screen prompts and selections, the test vehicle is chosen. If needed, tap the **ESC** button at the bottom-right corner of the screen to return to the previous screen.

4.4 Navigation

After the test vehicle is identified, the Diagnostic Menu screen will appear. This section consists of various commonly used functions, including Auto Scan and Control Unit. The available functions displayed vary depending on the test vehicle.

4.4.1 Diagnostic Screen Layout



Figure 4-8 Diagnostic Menu Screen

The Diagnostic Menu screen typically includes four sections:

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

4.4.1.1 Diagnostics Toolbar

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

Button	Name	Description		
	Home	Returns to the MaxiDAS Job Menu.		
	Vehicle Swap	Exits the service session of the currently identified test vehicle and returns to the Vehicle Menu screen.		
\$	Settings	Opens the settings screen. See <i>Settings</i> on page 90 for details.		
Ê	Print	Prints a copy of the displayed data. See <i>Printing Settings</i> on page 91 for details.		
?	Help	Displays instructions for operations.		
B	Save	 Opens a submenu with 3 options for saving data: Tap Take a Screenshot to save the current page. Tap Save All Data to save as a PDF file. (Use this option when data displays on multiple screens.) Tap Save Report to upload reports to cloud. If the report is successfully uploaded, you can share the report with others via QR code, email, or phone number. See Data Manager on page 95 for details. 		

Table 4-2 Diagnostics Toolbar Buttons

Button	Name	Description		
	Data Logging	Records the communication data and ECU information of the test vehicle. When encountering an error during testing and diagnosing, use this function to contact Autel's technical staff for solutions. See <i>Data Logging</i> on page 103 for details.		

> To print data in Diagnostics

- 1. Tap the **Diagnostics** application button from the MaxiDAS Job Menu. The **Print** button on the Diagnostic Toolbar is available throughout the whole Diagnostics operations.
- 2. Tap **Print**. A drop-down menu will be displayed:
 - Print This Page prints a screenshot of the current screen.
 - Print All Data prints a PDF file of all displayed data.
- 3. A temporary file will be created and sent to the connected PC for printing.
- 4. When the file is transferred successfully, a confirmation message will appear.

> To submit Data Logging reports in Diagnostics

- 1. Tap the **Diagnostics** application button from the MaxiDAS Job Menu. The **Data Logging** button on the Diagnostic Toolbar is available throughout the whole Diagnostics operations.
- 2. Tap the **Data Logging** button to display the error options. Select a specific error, and a submission form will appear to let you fill in the report information.
- 3. Tap the **Send** button in the upper-right corner of the screen to submit the report form via the Internet. A confirmation message will appear when sent successfully.

4.4.1.2 Status Information Bar

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

- 1. Menu Title displays the menu heading of the Main Section.
- 2. VCI Icon displays the VCI connection status.
- 3. Voltage Icon displays the vehicle's voltage status.

4.4.1.3 Main Section

The Main Section of the screen varies according to the stage of operations, which may display vehicle identification selections, the main menu, test data, messages, instructions, and other diagnostic information.

4.4.1.4 Function Buttons

The displayed Function Buttons vary depending on the stage of operations. These buttons can be used to navigate menus, to save or clear 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 will appear when additional input is needed before proceeding. There are three main types of on-screen messages: Confirmation, Warning, and Error.

4.4.2.1 Confirmation Messages

Confirmation messages inform you when you about to perform an action that 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.

4.4.2.2 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.

4.4.2.3 Error Messages

Error messages display when a system or procedural error has occurred. Examples of possible errors include cable 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 Diagnostic Function Entrance

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

4.5.1 Auto Scan

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



Figure 4-9 Auto Scan Screen

- 1. Navigation Bar
- 2. Main Section
- 3. Function Buttons

4.5.1.1 Navigation Bar

List Tab — displays the scanned data in list format.

Progress Bar — indicates the test progress.

4.5.1.2 Main Section

Column 1 — displays the sequence 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 tablet and the control system.
- ↔ -?-: Indicates that the vehicle control system has been detected, but the tablet cannot access it.
- ✤ Fault(s) | #: Fault(s) indicate(s) 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.

Column 4 — tap to enter the related system to view the detailed information and perform further diagnosis or testing.

4.5.1.3 Function Buttons

The table below provides a brief description of the Function Buttons:

Name	Description
Report	Displays the diagnostic data in a report form.
Quick erase	Deletes codes. A warning message screen will display to inform you of possible data loss when this function is selected.
ок	Confirms the test result. Continues the system diagnosis after a required system is selected by tapping the item in the Main Section.
Pause	Suspends scanning and it will change to the Continue button after tapping.
ESC	Returns to the previous screen or exits Auto Scan.

Table 4-3 Function Buttons in Auto Scan

4.5.2 Control Unit

The Control Unit function allows you to manually locate a required control system for testing through a series of choices. Follow the menu-driven procedures and make

proper selections; the program will guide you to the proper diagnostic function menu based on selections.

4.6 Diagnostic Functions

VOLVO V4.52	M	ţ.ţ	\$	ē	0	B			
VOLVO > Automatic select	ion > Auto sca	n > CEM (Central El	lectronic Module)				۲	VCL	== 12.3V
			Func	tion menu	1				
		Ŕ			~		6		
ECU information	tion	Troub	le codes		Live data		Activ	e test	
Special funct	tion								
VIN: Info: VOLVO/XC90 (16-)									ESC

Figure 4-10 Function Menu Screen

The Diagnostic Functions are listed on the Function Menu screen. The Function Menu options vary slightly for different vehicles, which may include:

- ECU Information provides the retrieved ECU information in detail. An information screen opens upon selection.
- Trouble Codes contains Read Codes and Erase Codes. The former displays detailed DTC information retrieved from the vehicle control module, the latter allows you to erase DTCs and other data from the ECU.
- Live Data retrieves and displays live data and parameters from the vehicle's ECU.
- Active Test accesses vehicle-specific subsystem and components tests.
- Special Function performs various component adaptations.

The Diagnostics Toolbar functions such as saving and printing of test results can be performed throughout the whole diagnostic testing. Data logging and 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 Unit**.
- 5. Select the desired diagnostic function from the Function Menu.

4.6.1 ECU Information

This function retrieves and displays the specific information for the tested control unit, including unit type, version numbers, and other specifications.

ECU	information VCb 🛋 12.04
Production date (day, month, year)	28.01.12
Supplier	Bosch
IBS part number	7631109
IBS serial number	1734944264
Kilometer reading when programming	0
Drogramming data (day manth year)	76.16.19

Figure 4-11 ECU Information Screen

- 1. Diagnostics Toolbar Buttons see *Table 4-2 Diagnostics Toolbar Buttons* on page 25 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. Function Button in this case, only the **ESC** button is available. Tap it to exit after viewing.

4.6.2 Trouble Codes

a) 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.

		Fault Codes	VCL	== 12.04V
480685	Permanent	EMF: Undervoltage or overvoltage detected, parking brake cannot be applied and released	۲	2.
480964	Permanent	DSC: Undervoltage at control unit, intensive		20
D3441F	Permanent	DSC: FlexRay; line fault		
D35418	Permanent	No message (status, door sensors secured), receiver DSC, transmitter FRM/FEM		R
D35419	Permanent	Message (status, door sensors secured) checksum error, receiver DSC, transmitter FRM/FEM	۲	20

Figure 4-12 Read Codes Screen

- 1. Diagnostics Toolbar Buttons see *Table 4-2 Diagnostics Toolbar Buttons* on page 25 for detailed descriptions of the operations for each button.
- 2. Main Section
 - Column 1 displays the retrieved codes from the vehicle.
 - Column 2 indicates the status of the retrieved codes.
 - Column 3 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 and behaves similar to the Read Codes screen.
 - Column 4 displays additional information about the retrieved fault codes.
- 3. Function Button
 - Service Manual tap to view fault code information, including fault description, condition for fault identification, and driver information.
 - Freeze Frame tap to view the freeze frame.
 - Search tap to search for related fault code information on the Internet.
 - ESC tap to return to the previous screen or exit the function.
- b) 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 Trouble Codes screen.
- 2. A warning message displays to inform you of data clearing when this function is applied.
 - Tap Yes to continue. A Confirmation screen displays when the operation is successfully done.
 - ♦ Tap No to exit.
- 3. Tap **ESC** on the Confirmation screen to exit Erase Codes.
- 4. Perform the Read Codes function again to check if the codes have been erased successfully.

4.6.3 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 ECU, so expect variation among vehicles.

Gesture scrolling allows you to quickly move through the data list. Touch the screen and drag your finger up or down to reposition the parameters being displayed if the data occupies more than one screen. The figure below displays a typical Live Data screen:

	Name 🌖 0 items selected	Value	Range	Unit
	\$7E8 Long term secondary 02 sensor fuel trim - bank2 (use if only 1 fuel trim value)	0	-10099.2 2	%
	\$7E8 Fuel rail pressure(absolute)	680	0655350	kPa
0	\$7E8 Relative accelerator pedal position	50.2	040	%
	\$7E8 Hybrid battery pack remaining charge 🕥	50.2	0100	%
	\$7E8 Engine oil temperature	88	-20150	°C
	\$7E8 Fuel injection timing	46	-210.003	٥
€—	Cancel All Show selected Graph merge To top Setting Clear data	Freeze Reco	rd Review	Back

Figure 4-13 Live Data Screen

 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 25 for detailed descriptions of the operations for each button.

- 2. Main Section
 - Name Column displays the parameter names.
 - a) Check Box tap the check box on the left side of the parameter name to make item selection. Tap the check box again to deselect the item.
 - b) Drop-down Button tap the drop-down button on the right side of the parameter name to open a sub menu, providing data display mode options.
 - Value Column displays the values of the parameters.
 - Range Column displays the ranges of the parameters.
 - Unit Column displays the unit for the parameters (Tap the Settings button on the top toolbar and select a required mode. See Unit on page 90 for more information).
- 3. Function Buttons There are many function buttons on the Live Data screen. Detailed descriptions of these buttons are described in the following subsections.

A. Display Mode

There are four types of display modes available for data viewing, allowing you to view various types of parameters in the mode best suited to represent the data.

Tap the drop-down button on the right side of a parameter name to open a submenu. A total of 7 buttons will be displayed: The 4 buttons to the left represent different data display modes, plus one Information button (active when additional information is available), one Unit Change button (for switching the unit of displayed data), and one Trigger button (tap to open the Trigger Settings screen).

Name 😑 0 items selected	Value	Range	Unit
Absolute throttle position	16.1	0100	%
<u>∧</u> A <u></u> ■ (i) <u></u>	UPS		
Location of oxygen sensors 💿	B1S12B2S- 	-	
Oxygen sensor output voltage bank 1-sensor 1 💿	0.455	01.275	V
Short term fuel trim bank 1-sensor 1 💿	0	-10099.2 2	%
Oxygen sensor output voltage bank 1-sensor 2 🕥	0.455	01.275	v
Cancel All Show selected Graph merge To top Setting Clear data	Freeze Rec	ord Review	Back

Figure 4-14 Display Mode Screen

Each parameter item displays the selected mode independently.

- Analog Gauge Mode displays the parameters in gauge charts.
- Text Mode the default mode that displays the parameters as a text list.

NOTE

Status parameters, such as a switch reading like ON, OFF, ACTIVE, and ABORT, can only be displayed in Text Mode. Value parameters, such as a sensor reading, can be displayed in both text and graph modes.

 Waveform Graph Mode — displays the parameters in waveform graphs. In this mode, five control buttons will display on the right side of the parameter item, allowing you to manipulate the display status.



Figure 4-15 Waveform Graph Mode Screen

- a) Settings Button (SetY) sets the minimum and maximum value of the Y axis.
- b) Scale Button changes the scale values.

There are two scale buttons displayed above the waveform graph, which can be used to change the scale values of the X axis and Y axis of the graph. There are four scales available for the X axis: x1, x2, x4 and x8. And there are three scales available for the Y axis: x1, x2, and x4.

- c) Edit Button edits the waveform color and the line thickness.
- d) **Zoom-in Button** tap once to display the selected data graph in full screen.
- e) Exit Button tap to exit the waveform graph mode.

Full Screen Display — this option is only available in the waveform graph mode, and mostly used in Graph Merge status for data comparison. There are four control buttons available on the top right side of the screen under this mode.

- Scale Button tap to change the scale values below the waveform graph. There are four scales available for the X axis: x1, x2, x4 and x8. And there are three scales available for the Y axis: x1, x2, and x4.
- Edit Button tap to open an edit window, in which you can set the waveform color and line thickness displayed for the selected parameter.
- Zoom-out Button tap to exit full screen display.
- Exit Button tap to exit the waveform graph mode.

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

- 1. Select a parameter to display in Waveform Graph mode.
- 2. Tap the **Edit** button, and an edit window displays.



Figure 4-16 Waveform Edit Screen

- 3. The parameter is selected automatically in the left column.
- 4. Select a color from the middle column.
- 5. Select a line thickness from the right column.
- 6. Tap **Done** to save the setting and exit, or tap **Cancel** to exit without saving.
- Digital Gauge Mode displays the parameters in the form of a digital gauge graph.

B. Trigger Settings

On the Trigger Settings screen, you can set a standard range by filling in a minimum value and a maximum value. When exceeding this range, the trigger

function will be executed and the device will automatically record and save the generated data. You can review the saved live data by tapping the **Review** button at the bottom of the screen.

Tap the drop-down button on the right side of the parameter name to open a submenu. The Trigger button is the last one in the submenu. Tap to display the Trigger Settings screen.

Name 🕞 1 iter	ns selected	Value		Unit
	Trigger Settings	×		
Actual value o	Trigger			Nm
Engine speed	Buzzer alarm			r/min
Engine coolan	MIN			°C
Engine torque	2000			Nm
Kilometer rea	MAX 10000.0		.00	km
Transmission	Сапсеі ОК		P	°C
	Cancel All Show selected Graph merge To top Setting Clear data Freeze	Record	Review	Back

Figure 4-17 Trigger Settings Screen

Two buttons and two input boxes are available in the Trigger Settings screen.

- a) Trigger switches the trigger on or off. The trigger is ON by default.
- b) Buzzer Alarm switches the alarm on or off. The alarm function makes a beeping sound as an alert when the data reading reaches the preset minimum or maximum point. The buzzer alarm will only sound at the first trigger.
- c) MIN tap this input box to enter the required lower limit value.
- d) MAX tap this input box to enter the required upper limit value.

> To set a trigger

- 1. Tap the drop-down button on the right side of a parameter name to open a submenu.
- 2. Tap the **Trigger** button on the right side of the submenu to open the Trigger Settings screen.
- 3. Tap the MIN value input box to enter the required minimum value.
- 4. Tap the MAX value input box to enter the required maximum value.
- 5. Tap **OK** to save the settings and return to the Live Data screen, or tap **Cancel** to exit without saving.

When the trigger is successfully set, a trigger mark displays in front of the parameter

name. The mark is gray when it is not triggered, and displays orange when triggered. Moreover, two horizontal lines display on each of the data graphs (when Waveform Graph Mode is applied) to indicate the alarm point. The limit lines are shown in different colors to differentiate them from the parameter waveforms.

C. Function Buttons

The operations of the available Function Buttons on the Live Data screen are described below:

Cancel All — tap this button to cancel all selected parameters. Up to 50 parameters can be selected at one time.

Show Selected/Show All — tap this button to switch between the two options: one displays the selected parameters, the other displays all the available items.

Graph Merge — tap this button to merge selected data graphs (for Waveform Graph Mode only). This function is very useful when comparing different parameters.

NOTE

This mode supports graph merge of 2 to 5 parameters that can be represented digitally. Non-digital parameters are not supported.

> To merge selected data graphs

- 1. Select parameters that need to be merged.
- 2. Tap the Graph Merge button at the bottom of the Live Data screen.
 - a) This mode only supports parameters that can be represented digitally. If non-digital parameters are selected, a message will display advising the user that the selected parameters are not supported in this mode and to select 2 to 5 digital parameters. Tap **Got It** to return to the previous screen and select supported parameters.
 - b) When unsupported parameters are selected, a message will appear advising the user to select only supported parameters. A message will also display if more than 5 parameters have been selected. Please select 2 to 5 of the supported parameters and tap the **OK** button to merge.
- 3. Tap the **Cancel Merging** button at the bottom of the Live Data screen to cancel merging.
- To top moves a selected item to the top of the list.

Setting — tap this button to set recording duration.

> To set live data record duration

- 1. Tap the **Setting** button at the bottom of the Live Data screen.
- Tap the > button to the right of Recording Time After Trigger bar and select a time length.
- 3. Tap **OK** to save the setting and return to the Live Data Setting screen; or tap the **X** button at the upper-right corner to exit without saving.
- 4. Tap **Done** at the upper-right corner of the Live Data Setting screen to confirm and save the setting, and return to the Live Data screen, or tap **Cancel** to exit without saving.

Clear Data — tap this button to clear all cached live data.

Freeze — displays the retrieved data in freeze mode.

- Previous Frame moves to the previous frame of frozen data.
- Next Frame moves to the next frame of frozen data.
- Play/Pause tap to play/pause the frozen data.
- Resume tap to exit the freeze data mode and return to normal data display.

Record — starts recording the live data of the selected data items. Tap the **Record** button at the bottom of the Live Data screen. A message will display prompting the user to select parameters to record. Tap the **Got It** button to confirm. Scroll down and select data to record. Tap the **Record** button to start recording. Tap the **Resume** button to stop recording. The recorded live data can be viewed in the **Review** section at the bottom of the Live Data screen. The recorded data can also be reviewed in the Data Manager application.

- Resume tap this button to stop data recording and return to normal data display.
- Flag this button displays when the Record function is applied. Tap this button to set flags when recording data. Notes can be added during playback in Review or Data Manager. Select the preset flag to open a pop-up window and display a virtual keyboard to enter notes.

Review — review the recorded data. Tap the **Review** button to display a recording list, and select one item to review.

Only the data recorded during the current operation can be reviewed on the Live Data screen. All the historical recorded data can be reviewed in Review Data in the Data Manager application.

- Previous Frame switches to the previous frame of recorded data.
- Next Frame switches to the next frame of recorded data.
- Play/Pause tap to play/pause the recorded data.

- Show Selected displays the selected parameters.
- Graph Merge merges selected data graphs.
- Back exits the review and returns to the Live Data screen.

Back — returns to the previous screen or exits the function.

4.6.4 Active Test

The Active Test function is used to access vehicle-specific subsystem and component tests. Available tests vary by vehicle.

During an active test, the tablet sends commands to the ECU to activate the actuators. This test determines the integrity of the system or part by reading ECU data, or by monitoring the operation of the actuators. Such tests may include switching a solenoid, relay or switch, between two operating states.

Selecting Active Test displays a menu of test options. Available tests vary by vehicle. Select a test from the menu options, and follow the instructions displayed on the screen to complete the test. Procedures and instructions vary by vehicle.

GM V3.00	e 🕐 E	
Engine controls ignition rela	(Electrical and immobilizer)	== 12.23V
Engine controls ignition relay command	Uncommanded	-
Engine controls ignition relay command	Off	
Engine controls ignition relay ctrl circuit low voltage test status	Malfunction	
Engine controls ignition relay ctrl circuit open test status	Malfunction	
Engine controls ignition relay ctrl circuit high voltage test status	Malfunction	
Ignition 1 signal	4.37	v
VIN: Info:GM/Cadillac/SRX	0	ff On ESC

Figure 4-18 Active Test Screen

The function buttons in the lower-right corner of the Active Test screen manipulate the test signals. Operational instructions are displayed in the main section of the test screen. Follow the on-screen instructions and make appropriate selections to complete the tests. Tap the **ESC** button to exit the test when finished.

4.6.5 Special Functions

These functions perform various component adaptations, including the recalibration or configuration of certain components after repairs or replacements have been completed.

GM V3.00			\$	e	?	B		
			Spe	cial functio	'n			📑 12.27V
Brake pedal positio	n sensor le	arn Cr	ankshaft p	osition vari	ation learn	E	ngine oil	life reset
Fuel pump tr	rim reset		Fue	el trim rese	et	H	102S hea	iter learn
Idle lea	arn	Re	mote vehic	le start dis reset	able history			
VIN:								
Info:GM/Cadillac/SRX								ESC

Figure 4-19 Special Function Screen 1

Select a function to display detailed information and the execution screen.

GM V3.00			
Fuel pump trin	m reset(Fuel system)		== 12.20V
Fuel trim learn	Uncommanded	-	
Short term fuel pump trim	0.27		
Long term fuel pump trim	0.27		
Fuel pump enable command	Off		
Fuel pump enable circuit low voltage test status	Not run		
Fuel pump enable circuit open test status	Malfunction		
VIN. Info:GM/Cadillac/SRX		Rese	t ESC

Figure 4-20 Special Function Screen 2

List Tab Page:

 Column 1 — displays the description of the function being performed or the live data corresponding to the special function.

- Column 2 displays the execution status such as Completed or Activated or the corresponding live data values.
- Column 3 displays the measurement units of the live data.

Tap a function button to perform the selected function or exit the function.

4.7 Generic OBDII 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 OBDII/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 25 for details.

4.7.1 General Procedure

- > To access the OBDII/EOBD diagnostics functions
 - 1. Tap the **Diagnostics** application button from the MaxiDAS 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 which one the vehicle is using.
 - Protocol when this option is selected, the screen opens a submenu listing various protocols. A communications protocol is a standardized way of data communication between an ECU and a diagnostic tool. Global OBD may use several different communication protocols.
 - 3. Select a specific protocol under the **Protocol** option. Wait for the OBDII Diagnostic Menu to display.

EOBD V1.70		X	e Ø E	
		Fun	ction menu	VCb 🚉 12.04V
		(I/M)	m	6
DTC&FFD		I/M readiness	Live data	On-Board monitor
°.0°			•	
Component test	,	Vehicle information	Vehicle status	
VIN: Info:EOBD/ISO 15765-4(CAN)				ESC

Figure 4-21 OBDII Diagnostic Menu

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

NOTE

The supported functions may vary by vehicles.

4.7.2 Function Descriptions

This section describes the various functions of each diagnostic option:

4.7.2.1 DTC & FFD

When this function is selected, the screen displays a list of stored and pending codes. A snowflake icon will display on the right side of the DTC item when the freeze frame data is available for viewing.

EOBD V1.70		🌣 🖶 💿 🖻 🛤	
		ouble codes(LANDROVER) VCb	== 12.04V
P3492	Penuing	high.	
P3497	Pending	Cylinder deactivation system bank 2.	
P1010	Pending	Please refer to vehicle service manual.	
P0110	Pending	Intake air temperature sensor 1 circuit bank 1.	
B0002	Pending	Driver frontal stage 2 deployment control.	
U0003	Pending	High speed CAN communication bus (+) open. 🔞	
VIN: Info:EOBD/SAE J1850(PWM)		Service Freeze frame Search Erase codes Codes	ESC

Figure 4-22 DTC & FFD Screen

Stored Codes

Stored codes are the current emissions-related DTCs from the ECU of the vehicle. OBDII/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 DTCs may vary by vehicle.

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 single driving cycle.

- a) If a test failed during the drive 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 do not necessarily indicate a faulty component or system. If test results indicate another failure after additional driving, a DTC is stored to indicate a faulty component or system.

• Freeze Frame

Typically, the stored freeze frame is the last DTC reported. 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 emissions-related diagnostics data including DTCs, freeze frame data, and specific manufacturer-enhanced data from the vehicle ECU. This option resets the I/M Readiness Monitor Status for all vehicle monitors to "Not Ready" or "Not Complete".

A Confirmation screen will appear when the Clear Codes option is selected to prevent accidental loss of data. Select **Yes** on the confirmation screen to continue, or select **No** to exit.

4.7.2.2 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.

4.7.2.3 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 33 for detailed information.

4.7.2.4 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.

4.7.2.5 Component Test

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

4.7.2.6 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.

4.7.2.7 Vehicle Status

This function checks the current condition of the vehicle, such as the communications protocols of OBDII modules, quantity of fault codes, and the status of the malfunction indicator light (MIL).

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 to stop all communications with the vehicle before closing the Diagnostics application.

NOTE

Damage to the vehicle electronic control module (ECM) may occur if the communication is disrupted. Ensure all forms of communication link such as data cable, USB cable, and wireless or wired network, are properly connected throughout the test. Exit all interfaces before disconnecting the test cable and power supply.

> To exit the Diagnostics application

On an active diagnostic screen:

- 1. Tap the **Back** or **ESC** button to exit a diagnostic session step by step.
- 2. Or tap the **Vehicle Swap** button on the Diagnostics Toolbar to return to the Vehicle Menu screen.

On the Vehicle Menu screen:

- 1. Tap the **Home** button on the top toolbar.
- 2. Or tap the **Back** button on the Navigation Bar at the bottom of the screen.
- 3. Or tap the **Home** button on the Diagnostics Toolbar to exit the application directly and return to the MaxiDAS Home Menu.

Now, the Diagnostics application is no longer communicating with the vehicle and it is safe to open other MaxiDAS applications.

5 Service

The Service application 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.

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

The most commonly used services are described in this chapter.

5.1 Oil Reset Service

This function performs reset of the Engine Oil Life system, which calculates the 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.

- 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 tool can reset additional service lights such as the maintenance cycle and service interval. On BMW vehicles for example, service resets include engine oil, spark plugs, front/rear brakes, coolant, particle filter, brake fluid, micro filter, vehicle inspection, exhaust emissions inspection and vehicle checks.

5.2 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.

5.2.1 EPB Safety

It can be dangerous to perform Electric 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 Electric Parking Brake system.

5.3 Tire Pressure Monitoring 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 replacement and reset procedures after tire sensors are replaced.

5.4 Battery Management System (BMS) Service

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

🖉 NOTE

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

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 exiting battery. If the original battery is replaced with a different type of battery (e.g. a lead-acid battery is replaced with an AGM battery) or a battery with a different capacity (mAh), the vehicle may require reprogramming of the

new battery type, in addition to, performing the battery reset. Consult the vehicle manual for additional vehicle-specific information.

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 (VIN) is also read from the instrument cluster and stored permanently in the steering angle sensor EEPROM. On successful completion of calibration, the steering angle sensor fault memory is automatically cleared.

Calibration must always be carried out after the following operations:

- Steering wheel replacement.
- Steering angle sensor replacement.
- Any maintenance that involves opening the connector hub from the steering angle sensor to the column.
- Any maintenance or repair work on the steering linkage, steering gear or other related mechanism.
- Wheel alignment or wheel track adjustment.
- Accident repairs where damage to the steering angle sensor, SAS assembly, or any part of the steering system may have occurred.

🖉 NOTE

- 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.
- All software screens shown in this manual are examples, actual test screens may vary by test vehicle. Pay attention to the menu titles and onscreen instructions to make correct selections.
- 3. Before starting any procedure, make sure vehicle has an ESC button. Look for button on dash.

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 higher load and speed. In order for regeneration to take place, a prolonged high exhaust temperature must be obtained.

In the event of the car being driven in such a way that regeneration is not possible, i.e., frequent short journeys, a diagnostic trouble code will eventually be registered in addition to the DPF light and "Check Engine" indicators 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 specified engine oil.
- The oil for diesel is not contaminated.

IMPORTANT

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

🖉 ΝΟΤΕ

- 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 motors and pedestrians at risk.

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 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 engine. If the code is incorrect or absent, the computer disables the system, and the engine will be unable to start until the correct key is placed in the ignition.

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

6 TPMS

The TPMS application is used to check the TPMS sensor conditions, program the MX-Sensor, and perform the TPMS Relearn procedure and other basic TPMS diagnostic functions.

6.1 Getting Started

6.1.1 TPMS Service Menu Layout

Tap **TPMS** on the MaxiDAS Job Menu. The Vehicle Menu displays. Select a specific vehicle to perform TPMS service. A TPMS icon displays on the Manufacturer button indicating the TPMS service is available.

0-			History	North America 👻	Q	
	<u>oe</u>	CADILLAC	GMC	SATURN	TESLA	
	OEMPartNo.	Cadillac	GMC	Saturn	Tesla	
	VPG	CHRYSLER	BUICK	RETROPT		-0
	VPG	Chrysler	Buick	Retrofit	Jeep	
	OLDSMOBILE	PONTIAC	HUMMER	LINCOLN	MERCURY	
	Oldsmobile	Pontiac	Hummer	Lincoln	Mercury	

Figure 6-1 TPMS Vehicle Menu Screen

1. Top Toolbar Buttons

Table 6-1 Top Toolbar Buttons

Button	Name	Description							
	Home	Returns to the MaxiDAS Job Menu.							
VID	VID	Provides a fast way to identify the test vehicle. See <i>Vehicle Selection</i> on page 53 for details.							

Button	Name	Description
History	History	Displays the stored test vehicle history records. See <i>Vehicle History</i> on page 96 for details.
North America 🔻	Market	Tap the dropdown button to select the correct market, then the vehicle manufacturer icons of the selected market will be displayed. <i>Note: Please double check whether the</i> <i>market is selected correctly if the vehicle</i> <i>cannot be found.</i>
Q	Search	Searches for a specific vehicle make.

- 2. TPMS Service Access Methods
 - OEM Part NO.
 - Vehicle Manufacturer Buttons

6.1.2 OEM Part NO.

Refer to TPMS by OEM Part NO. on page 81 for details.

6.1.3 Vehicle Manufacturer Buttons

Select the required vehicle manufacturer and follow the on-screen instructions to select vehicle information step by step to start a TPMS service session.

6.2 Vehicle Selection

There are four accesses to identify the test vehicle:

- Auto Detect
- Manual Input
- Automatic Selection
- Manual Selection

6.2.1 Auto Detect

Properly connect the tablet and vehicle first (refer to *Establishing Vehicle Communication* on page 16 for details), then tap the **TPMS** application button from the MaxiDAS DS808S-TS Job Menu to access the Vehicle Menu.

> To perform Auto Detect in TPMS application

- 1. Tap the **TPMS** application button from the MaxiDAS Job Menu. The Vehicle Menu displays.
- 2. Tap the VID button on the Top Toolbar to open the dropdown list.



Figure 6-2 VID Screen in TPMS Application

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 the VIN again.

NOTE

Before acquiring the vehicle VIN, make sure the tablet is connected to the network in order to get the information of the test vehicle.



Figure 6-3 Auto Detect in TPMS Application

4. Tap **OK** to confirm the vehicle information such as Model, Year, OEM Sensor Part NO., and Area, or tap **ESC** to return to the previous screen.

Nissan V1.00		19-29 (2-2)	\$	ľ	?	Ð			
			Vehicl	e informati	on			VCL	== 12.20V
Model									FRONTIER
Year									201007
OEM Sensor PartNur	n				40	7001AA0E	3/40700JA	00C/40	700JA01B
Area									US
VIN Info:								ок	ESC

Figure 6-4 Vehicle Information in TPMS Application

5. Then the TPMS Service Menu will display. See *Figure 6-14 TPMS Service Screen*.

6.2.2 Manual Input

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

> To perform Manual Input in TPMS Application

- 1. Tap the **TPMS** application button from the MaxiDAS Job Menu. The Vehicle Menu displays.
- 2. Tap the **VID** button on the Top Toolbar to open the dropdown list.
- 3. Select Manual Input.
- 4. Enter the correct VIN into the input box, then tap **OK**.



Figure 6-5 Manual Input in TPMS Application

5. A VIN Confirmation screen will display. If the VIN is correct, tap **OK** to enter the Vehicle Information screen.

NOTE

Before acquiring the vehicle VIN, make sure the tablet is connected to the network.

6. After confirming the vehicle information, tap **OK** to enter the TPMS Service Menu. See *Figure 6-14 TPMS Service Screen*.

6.2.3 Automatic Selection

Depending on the vehicle, the Auto VIN function is still available after a vehicle brand is selected. You can tap **Automatic Selection** to automatically acquire the VIN information or manually input the VIN.

> To perform Automatic Selection in TPMS Application

- 1. Tap the **TPMS** application button from the MaxiDAS Job Menu. The Vehicle Menu displays.
- 2. Select a vehicle brand from the Vehicle Manufacturer Selection screen.

		History	North America 🔻	۹
OE	CADILLAC	GMC	SATURN	TESLA
OEMPartNo.	Cadillac	GMC	Saturn	Tesla
VPG	CHRYSLER	Buick	Retrofit	Jeep
Oldsmobile	PONTIAC	HUMMER	Lincoln	Mercury
Ordarfiobile	Fontiac		Lincolli	wiercury

Figure 6-6 Vehicle Manufacturer Selection

3. Tap Automatic Selection on the Select Diagnostic Type screen.

Nissan V1.00	\$ 22 1									
Select diagnostic type VCb 📑 1										
Automatic selection	Manual selection									
VIN: Info:			ESC							

Figure 6-7 Selection Screen in TPMS Application

4. Tap **Read** to automatically acquire the VIN, or you can manually input the VIN information. If the VIN is correct, tap **OK** to proceed.



Figure 6-8 Automatic Selection in TPMS Application

5. Follow the on-screen instructions to confirm the vehicle information and finally enter the TPMS Service screen. See *Figure 6-14 TPMS Service Screen*.

6.2.4 Manual Selection

You can also tap **Manual Selection** on the Select Diagnostic Type screen to select the vehicle information like model and year step by step.

> To perform Manual Selection in TPMS application

- 1. Tap the **TPMS** application button from the MaxiDAS Job Menu. The Vehicle Menu displays.
- 2. Select a vehicle brand on the Vehicle Manufacturer Selection screen.
- 3. Tap Manual Selection on the Select Diagnostic Type screen.
- 4. Follow the on-screen instructions to select the vehicle information such as model and year in sequence.

Cadillac V1.00	M	(F)	\$	÷	?	B			
			Select ve	hicle inforr	nation			VCb	=+ 12.39V
Model					e select M		Model		×
							Q Sear	ch	
								ATS	
								ATS-V	
								BLS	
								CT4	
								CT5	
								CT6	
VIN: Info:Cadillac							ОК	Reset	ESC

Figure 6-9 Vehicle Model Selection

Cadillac V1.00	M	\$	÷	?	B			
		Select ve	hicle inforn	nation			VCL	== 12.39V
Model					ATS	Year		×
						Q Search		
Year			Plea	ise select	Year	20	12/01-2012 (433MHz)	
						20	13/01-2013 (433MHz)	
						20	14/01-2014 (433MHz)	
						20	15/01-2015 (433MHz)	
						20	16/01-2020 (433MHz)	
VIN: Info:Cadillac/ATS						ОК	Reset	ESC

Figure 6-10 Vehicle Year Selection

The following screen may display for vehicles using Indirect TPMS.

Audi V1.00		\$	ľ	?	B	Ē		
		Select ve	hicle inform	nation			VCL	== 12.39V
Model					A4	Year		×
						Q Search		
Year			Plea	ise selec	t Year	19	96/11-201 (433MHz	
						20	08/08-201 (Indirect)	
						20	12/01-202 (433MHz	
VIN: Info:Audi/A4						ОК	Reset	ESC

Figure 6-11 Indirect TPMS Selection Screen

For indirect TPMS vehicle, only the **Relearn** function is supported. Tap the vehicle year information button, in the case of the above screen — 2008/08-2019/12 (indirect), to display the Relearn Procedure screen. Follow the on-screen instructions to complete the operation.



Figure 6-12 Relearn Procedure for Indirect TPMS

For vehicles using **Direct TPMS**, select the correct vehicle. The TPMS Service screen will be displayed.

Toyota V1.00		\$	þ	?	B	
Avalon(US) I6/01-2012/10(Japan/USA 3 Check	(Diagnostics F	rogramm	iing	Relearn	VCb 📑 12.39V
Psi		ID (HEX) 🔻	Psi 🔻	MHz	°F▼	BAT
	LF					
	RF					
n' 'n	RR					
	LR					
Trigger Check MX-Sensor						Back

Figure 6-13 Relearn Procedure for Direct TPMS

6.3 TPMS Service Screen Layout

The TPMS Service screen typically includes four sections:



Figure 6-14 TPMS Service Screen

- 1. Top Toolbar Buttons
- 2. Navigation Tab
- 3. Main Section
- 4. Function Buttons

6.3.1 Top Toolbar Buttons

The top toolbar contains a number of buttons. See *Table 4-2 Diagnostics Toolbar Buttons* on page 25 for details.

6.3.2 Navigation Tab

The navigation tab at the top of the Main Section screen contains the following items:

- 1. Check Tab displays the triggered sensor data.
- 2. Diagnostics Tab checks the status of the TPMS system. This function is available for certain vehicles.
- 3. Programming Tab displays the triggered/retrieved sensor IDs and new programmed sensor IDs.
- 4. Relearn Tab displays the OEM sensor manufacturer, part number, and sensor frequency and performs the relearn procedures.

⊘ NOTE

Not all vehicles support Diagnostics function. If the selected vehicle model does not support Diagnostics, this tab will not appear on the screen.

6.3.3 Main Section

The main section of the screen varies depending on the stage of operations. It can show the TPMS sensor conditions, such as sensor ID, pressure, temperature, battery status, and the specific relearn procedures.

6.3.4 Function Buttons

The displayed function buttons at this section of the screen varies depending on the stage of operations. They can be used to trigger the TPMS sensor, create sensor IDs, program MX-Sensor, read and clear codes, and return to the previous screen or exit the function. The functions of these buttons will be introduced respectively in the following sections.

6.4 TPMS Check

The sensor check function allows the activation of TPMS sensor to view sensor data such as sensor ID, tire pressure, tire temperature, sensor battery, sensor position, and sensor frequency. It also sends the sensor data to vehicle's ECU to let the ECU learn the positions of sensors whenever wheels are rotated or sensors are replaced.



Figure 6-15 Check Screen

- 1. Sensor ID
- 2. Tire Pressure
- 3. Sensor Frequency
- 4. Tire Temperature
- 5. Sensor Battery Status
- 6. Low Battery Icon
- 7. Successfully Triggered

- The default check order on the tablet is LF (left front), RF (right front), RR (right rear), and LR (left rear). The wheel positions correspond with the descriptions on the right of the screen. If you select **RF** in the right table, the cursor will automatically move to vehicle's RF wheel on the left screen. You can also change the check order by manually moving the cursor to other wheels.
- 2. You can tap the dropdown button choose a unit of the sensor ID, tire pressure, and tire temperature according to your preference.
- 3. If the battery level of a sensor is low, a red low battery icon 🛄 will display beside the wheel on the screen.
> To check the sensors

- 1. Select the **Check** tab.
- 2. Tap the desired wheel position on the vehicle thumbnail. Hold the tablet with its top-right corner (with the TPMS service symbol) close to the tire sidewall near the valve stem, and then tap the **Trigger** button.
- 3. The tablet will send low frequency signal to trigger the sensor.
- 4. Once the sensor is successfully triggered, the information of the sensor will be displayed on the screen.
- 5. Tap **Back** to exit the function.

NOTE

Once triggered, the wheel icons will display green or red indicating sensor status. Refer to *Table 6-2 Possible Results for Triggering* on page 64 for details. And the sensor position, sensor ID, tire pressure, tire temperature, sensor frequency, and sensor battery information of the triggered sensor will display in the table on the right of the screen.

Table 6-2 Possible Results for Triggering								
lcon	Results	Description						
(Green)	Successful Sensor Read	TPMS sensor is successfully activated and decoded. The table on the right side of the screen displays sensor information.						
(Green)	Successful Sensor Read & Low Battery	TPMS sensor is successfully activated and decoded, but the battery level of the sensor is low.						
(Red)	Failed Sensor Read	If the search period expires and no sensor is activated or decoded, the sensor may be mounted incorrectly or cannot function. The table on the right side of the screen displays "Failed". If a sensor with a duplicate ID has been read, the screen displays a message "Sensor ID duplicated". In this case, repeat the test procedure.						

Table 6-2 Possible Results for Triggering

6.5 **TPMS** Diagnostics

The Diagnostics function is used to check the status of the TPMS system. This function requires connection with the test vehicle. Refer to *Establishing Vehicle Communication* on page 16 for details.

- > To perform TPMS diagnostics function
 - 1. Tap the **Diagnostics** tab. The tablet will automatically communicate with the vehicle.



Figure 6-16 Diagnostics Communication Screen

2. The diagnostics results will be displayed on the screen automatically.



Figure 6-17 Diagnostics Screen 1

- 1) Sensor IDs Retrieved by Activation
- 2) Sensor IDs Retrieved by OBD Saved in the TPMS ECU
- 3) DTCs Retrieved by OBD Existed in the TPMS ECU

⊘ NOTE

- If the OBD function is supported by the test vehicle, the sensor ID saved in the TPMS ECU will be retrieved and displayed on the screen with an OBD mark before it when the communication is completed.
- If the sensor ID retrieved from sensor activation is the same as the ID saved in the ECU, the trigger mark (^(*)) and OBD mark (⁽¹⁰⁾) beside the IDs will display green. If the IDs are different, the marks will become red (^(*)) and ⁽¹⁰⁾). In this case, the vehicle ECU may not recognize the sensor installed on the vehicle.
- If the OBD function is not supported by the test vehicle, the sensor ID saved in the TPMS ECU cannot be retrieved and only the sensor ID retrieved from sensor activation will display on the screen with a signal icon. See *Figure 6-18 Diagnostics Screen 2* for details.



Figure 6-18 Diagnostics Screen 2

6.5.1 DTC Details

If diagnostic trouble codes (DTCs) are present in the TPMS ECU, a yellow hazard icon displays in the DTC column and the detail button is available.

Tap detail in the DTC column to view the detailed information.

Porsche V1.00	☆ 🌫 🌣 🖶 🖉 🖻 📟	
	TPMS DTCs VCb 📼 1	2.51V
800303	1 to 2 wheel electronics units are not detected	
800402	External transmitter, position FR	
800403	External transmitter, position RL	
VIN: Info:Porsche/Cayma	an Service Freeze frame Search ES	c

Figure 6-19 DTCs Screen

In the screen above, the detailed fault descriptions will be displayed. Select one of the DTCs and tap **Search**, the additional information will display.

If no DTCs are present in the TPMS ECU, a green "No DTC" message will display in the DTC column.



Figure 6-20 No DTC Screen

6.5.2 Retry Diagnosis

Tap **Retry Diagnosis** to establish communication with the ECU again and to retrieve sensor IDs and DTCs present in the ECU.

6.5.3 Clear DTCs

Tap the **Clear DTCs** button, and the data trouble codes existed in the TPMS ECU will be cleared.

6.5.4 Live Data

Tap Live Data to view the data stream of the sensor information.

Name 📀 0 items selected	Value	Unit
Wheel electronics 01:Wheel identification	4044427537	
Wheel electronics 01:Current wheel position	Front left position	
Wheel electronics 01:Last tire pressure value		bar
Wheel electronics 01:Last temperature value		°C
Wheel electronics 01:Setpoint pressure 📀	2.4	bar
Wheel electronics 01:Remaining life span 💿	127	Month
Cancel All Show selected Graph merge To top Setting Clear data Freez	e Record F	Review Back

Figure 6-21 Live Data Screen

All the parameters displayed on the Live Data screen are default values.

Check box before the parameters you want to see, the Show Selected icon on the bottom of the screen will be available and turn blue. Tap **Show Selected** and the selected parameters will be displayed in a separate screen.

For more details, please refer to *Live Data* on page 33.

6.5.5 ECU Information

Tap this button, the information of the test vehicle will be listed out on the screen.

Hyundai V1.00	🖶 🔘 🖻 📖						
Inform	nation VCb 🖽 12.20V						
Vehicle Name	012398						
H/W Ver	F						
S/W Ver	G						
Part No	876543ABCDE						
Part Name	FG9876543ABCDEFG9876						
Manufacturing Date	543ABCDE						
VIN: InfoHyundai/Accent	ESC						

Figure 6-22 ECU Information Screen

6.6 Sensor Programming

The Programming function is used to program the sensor data to the MX-Sensor and replace the faulty senor (poor battery life or malfunction).

NOTE

Programming function will only work with Autel MX-Sensor. The 1-Sensor (Press In) is taken as an example in this manual. Please choose the proper MX-Sensor when programming.



Figure 6-23 Programming Function Screen

As shown in the screen above, there are four options available when programming MX-Sensor: Copy by Activation, Copy by OBD, Copy by Input, and Auto Create 1-20 Sensors.

The main section of the screen may include:

- Column 1 displays wheel positions.
- Column 2 displays the new created sensor IDs.
- Column 3 displays the retrieved sensor IDs by activation or by OBD.
- Column 4 displays the product serial number.

The sensor IDs retrieved from sensor activation or TPMS ECU will automatically appear on the screen with the trigger and OBD marks beside them.



Figure 6-24 Programming Screen 1

If the OBD function is not supported by the test vehicle and the sensor ID saved in the ECU cannot be retrieved, the Programming screen appears as below:

Hyundai V1.00		Image: Constraint of the second sec	B.	
Accent(EU) //01-2020/06(Lo Line 433MH	Check [Diagnostics Programming	Relearn	VCb 12.39V
КРа		ID (HEX) 🔻		PSN Code
	LF	ବ F11111	11	
	RF		222	
n''n	RR	〒33333	333	
	LR	<u></u> F44444	144	
	Auto	Create		
	opy By 1-	create 20 sors		Back

Figure 6-25 Programming Screen 2

6.6.1 Copy by Activation

This function allows the user to copy the retrieved sensor ID from the activated sensor to the new MX-Sensor. It is used after the original sensor is triggered.

- > To copy by activation
 - 1. After performing TPMS check (see *TPMS Check* on page 62 for details), the trigger marks with sensor IDs will appear on the table in the Programming screen.

Hyundai V1.00	(the state of the	\$?	
Accent(EU) //01-2020/06(Lo Line 433MF	k D	iagnostics Prog	gramming Re	elearn VCb = 12.39
КРа		ID (HE	EX) 🔻	PSN Code
	LF		ବ F111111	
	RF			
n '- 'n	RR			
	LR			
	Auto C	Treate		
Copy By Copy By Copy B Activation OBD Input	y 1-2	20		Back

Figure 6-26 Copy by Activation Confirmation Screen

- 2. Select the corresponding wheel, then tap **Copy by Activation**.
- 3. Place the MX-Sensor near the top-right of the tablet and tap **OK** to start programming the retrieved sensor ID to the MX-Sensor.

Hyundai V1.00		🌣 🖶 📀 E	
Accent(EU) 2020/06(Lo Line 433MHz)	Check [Diagnostics Programming Re	elearn VCb 🗈 12.39V
КРа		ID (HEX) 🔻	PSN Code
»	LF	1 sensor(s) Programming	23%
	RF	 중 F2222222 ✓✓✓✓✓✓✓✓✓✓<p< th=""><th></th></p<>	
n''n	RR	 F3333333 F3333333 	
	LR	 F4444444 F4444444 	
Copy By Activation OBD	Copy By 1-	Create 20 sors	Back

Figure 6-27 Copy by Activation Screen

Hyundai V1.00		F.	\$	ß	?	B				
Accent(EU) 1/01-2020/06(Lo Line 433MH	Check	[Diagnostics	Prog	ramming	Rele	arn	VCb 📑 12.39V		
KPa	1			ID (HE	X) T		PSN Code			
		LF	🔺 F1111	111			S7708L	S7708L6M6C001049		
		RF								
		RR			 F33333 F33333 					
		LR								
Copy By Activation OBD	Copy By Input	1-	Create 20 sors					Back		

Figure 6-28 Copy by Activation Complete Screen

4. When the programming is complete, the programmed ID will display in the column to the right of the wheel designation. In the pictured example, the new ID is displayed to the right of the LF column.

🖉 NOTE

- If the IDs of the original sensor and the new MX-Sensor are the same and the ID is already registered to the vehicle ECU, there is no need to perform the Relearn function when the new programmed sensor has been installed to the same wheel.
- If the IDs retrieved from sensor activation and those registered to the TPMS ECU are different, tap Copy by OBD to program the IDs saved in the ECU to the new MX-Sensor.

6.6.2 Copy by OBD

By using this function, the tablet will program the sensor IDs retrieved from the ECU of the test vehicle to the new MX-Sensors.

- > To copy by OBD
 - Select one sensor position and place a MX-Sensor near the TPMS antenna of the tablet (the top-right corner), then tap Copy by OBD to program the new MX-Sensor.



Figure 6-29 Copy by OBD Screen

2. When the programming is complete, the programmed ID will display in the column to the right of the wheel designation. In the pictured example, the new ID is displayed to the right of the RF column.

- 1. There is no need to perform the Relearn function to write the ID into the ECU when the new programmed sensor has been put in the same position.
- 2. The Copy by OBD programming method, if available, is recommended to program new MX-Sensors.

6.6.3 Copy by Input

The Copy by Input function allows users to program a new MX-Sensor with the ID of an original TPMS sensor.

> To copy by input

- Select one sensor position and place a MX-Sensor near the TPMS antenna of the tablet (the top-right corner), then tap **Copy by Input** to program the new MX-Sensor.
- 2. When the input displays, enter the ID of the original sensor, then tap **OK** when finished.



Figure 6-30 Copy by Input Screen

⊘ NOTE

- 1. Sensor either has a hexadecimal format or a decimal format. A warning message will display if too many characters are entered.
- 2. The Copy by Input programming method uses the ID of the original sensor that is already stored within the TPMS ECU and therefore does not require the sensor be relearned if the new programmed sensor has been put in the same position.

6.6.4 Auto Create 1-20 Sensors

The Auto Create 1-20 Sensors function is used to automatically create a random sensor ID to program a new MX-Sensor.

To use this function, there is no need to activate the original sensor or retrieve the original sensor IDs from the TPMS ECU.

> To auto create 1-20 sensors

- Select the vehicle model, and select a wheel location on the display and place the MX-Sensor(s) near the top-right corner of the tablet. Tap Auto Create 1-20 Sensors to program the new MX-Sensor.
- 2. When the programming is complete, the programmed ID will display in the table on the screen.

NOTE

- 1. A random ID will be created for the MX-Sensor. This new ID differs from the ID stored in the TPMS ECU. Therefore, the sensor needs to be relearned.
- The tablet has the ability to program 20 MX-Sensors at once without unboxing. It is suggested that you place the top-right corner (marked with TPMS Service Symbol) of the tablet to the middle of the longer side of the packaging box, as seen in the figure below.

AUTEL MX-SENSOF PROGRAMMABLE UNIVERSAL TPMS SENSOR	
■ [I SENSOR-PL ■ [I SENSOR ■ 433 me-PL ● METAL STEM ● RUBBER STEM	= 315 EE = 433 EE
	—TPMS Service Symbol

Figure 6-31 Auto Create 20 MX-Sensors

6.7 TPMS Relearn

This function is used to write the newly programmed sensor IDs into the vehicle ECU for sensor recognition.

Generally speaking, relearn only needs to be performed when the newly programmed sensor IDs are different from the original sensor IDs stored in the TPMS ECU.

There are four ways for relearn, namely OBD Relearn, Automatic Relearn, Stationary Relearn, and Copy Relearn. The first three are new sensor ID relearn methods, while the Copy Relearn is a method to clone the sensor ID.

- OBD Relearn
- Automatic Relearn
- Stationary Relearn
- Copy Relearn

6.7.1 OBD Relearn

OBD Relearn is completed via the OBD diagnostic function without needing to drive, and the relearn procedures are basically the same for different models. Thus, we highly recommend you use this time-saving and efficient relearn method.

The OBD Relearn function allows the DS808S-TS tablet to directly write the TPMS sensor IDs into the TPMS module.

NOTE

- Not all vehicles support the OBD Relearn function. If the selected vehicle supports OBD Relearn function, the OBD Relearn button will display on the bottom of the screen.
- 2. Before performing the OBD Relearn function, be sure to activate all the four sensors.



Figure 6-32 OBD Relearn Screen 1



Figure 6-33 OBD Relearn Screen 2

6.7.2 Automatic Relearn

Automatic Relearn requires driving to complete. For some vehicle models, the Automatic Relearn procedures can be completed directly by driving, while for some vehicle models, you need to follow the on-screen Learning Process Guide to let the vehicle enter the Automatic Relearn mode before driving.



Figure 6-34 Automatic Relearn Screen 1



Figure 6-35 Automatic Relearn Screen 2

6.7.3 Stationary Relearn

Stationary Relearn can be completed without relying on driving and the OBD diagnostics. To activate this mode, it is usually necessary to perform a series of operations to let the vehicle enter the relearn mode first, then use TPMS tools to perform activation or deflation to complete the relearn. The Stationary Relearn operation procedures vary by vehicle models. Please carefully read the on-screen Learning Process Guide before performing Stationary Relearn.

ONOTE

Stationary Relearn requires the vehicle to be placed in the "Learn Mode" after each new sensor is triggered.

> To perform Stationary Relearn

1. Tap Trigger to activate the new sensor first.



Figure 6-36 Stationary Relearn Screen 1

- 1) Vehicle Information
- 2) Battery from Vehicle
- 3) OEM Sensor Information
- 4) Learning Process Guide
- 2. Then follow the Learning Process Guide to perform Stationary Relearn.



Figure 6-37 Stationary Relearn Screen 2

6.7.4 Copy Relearn

Copy Relearn is to clone the sensor ID and tire location. Before performing Copy Relearn, you need to first obtain the sensor ID and tire location needed to be cloned, then use Autel tools to clone and program the sensor ID, and install the sensor to the corresponding tire to complete Copy Relearn.

- 1. Ensure the original sensor will not interfere with the relearn procedures. It is recommended to keep the original sensor at least 100 meters away from the vehicle, or put the sensor in an enclosed metal box to avoid signal interference.
- Normally, it is not necessary to perform relearn procedures after cloning. However, some vehicle models like Porsche and Maserati, may need to perform the relearn procedures after cloning, so that the TPMS system can work properly.

Cadillac V1.00	2 * * *					
CT4(EU) 2020/01-2022/12(433MHz 13530661)	Check Programming Relearn VCk	• =+ 12.39V				
ID (HEX)	OEM Sensor Manufacturer: Schrader Sensor Frequency: 433MHz OEM Sensor Part Number: 13530661 Wheel nut torque value (№m): NA Number on sensor: 13530661					
	Learning Process Guide H Position releam type: Copy. Releam Procedure: . 1. You can use one of the following three methods to copy according to the actual situation : Method 1, copy by activation. Method 2, copb yo Bor ead IDs (ff any tool is available) . Method 3, copb yo Bread IDs (ff any tool is available) . Method 3, copb yo Bread IDs (ff any tool is available) . Method 3, copb yo Bread IDs (ff any tool is available) .					
Trigger		Back				

Figure 6-38 Copy Relearn Screen 1



Figure 6-39 Copy Relearn Screen 2

6.8 TPMS by OEM Part NO.

If the sensor's OEM part number is known, this function is an efficient method to activate and program MX-Sensors.

6.8.1 Application Scenarios

This method is ideal for the following two cases:

6.8.1.1 In the workshop

If the mounted sensor is faulty and the part number is known to the technician, the technician can use this method to check the original sensor, and then write the retrieved information into a new MX-Sensor via Programming function. Then the newly programmed MX-Sensor is ready to replace the original sensor and be installed on the vehicle.

6.8.1.2 In the tire shop

If a customer needs to replace one or more tires including sensors, or purchase a lot of sensors for one vehicle model and the OEM part number of this model is known, this function can be used to program up to 20 sensors at the same time.

6.8.2 Operations

- 1. Tap **OEM Part NO.** on the TPMS Vehicle Menu screen to access the next screen. A list of sensor OEM part numbers will display.
 - a) Swipe the screen left and right to find the correct OEM part number of the sensor for the test vehicle.

OEMPartNo. V1.00		\$	÷	?	Ð		۹	
		Select	OEM-Part	No.			VCb 📑 12.39V	
52940BV	/100	529	940J7000		52940L1100			
531046	53305555				543002			
54306	543093				5430T4			
5430W VIN: Info:	 550254709902			56029359AA				

Figure 6-40 OEM Part NO. Screen

b) Or tap the search box on the top-right corner of the screen to enter the part number.

Cancel			Search							Search	
				Se	lect OEM	-Part No	D .			VCL	== 12.39V
5BA0	37973	A									
q w	2	е	r	t	⁵ y	6	⁷ И	i ⁸	9 O	р	⊠
а	S	d	f		g	h	j	k	I		9
<u>+</u> z		х	С	v	b		n	m	ļ	?	*
?123 ,											٢

Figure 6-41 OEM Part NO. Search Screen

2. When a specific OEM part NO. is selected, the screen will display as below.

OEMPartNo. V1.00		\$	÷	?	Ð	
Continental OEM:103460200A(433MHz)	Che	ck Program	mming	Suppo	rt	VCb = 12.39V
		ID (HEX) 🔻	Psi 🔻	MHz	°F▼	BAT
	1					
	3					
	4					
Trigger						Back

Figure 6-42 OEM Part NO. Service Menu Screen

NOTE

Only sensor Check and Programming functions are available with the OEM Part NO. function. The Diagnostics and Relearn functions can only be accessed by selecting a vehicle on the TPMS Vehicle Menu screen.

6.8.2.1 Check

The Check tab is the default selection on the screen above. Tap **Trigger** on the bottom-left of the screen to activate the original sensors and retrieve the sensor

information. The original sensor ID, tire pressure, tire temperature, sensor battery status, and sensor frequency will populate the displayed table.

OEMPartNo. V1.00		\$?	Ð	
TRW OEM:529333V600(433MHz)	Che	eck Program	nming	Suppo	ort	VCb 12.35V
		ID (HEX) ▼	Psi 🔻	MHz	°F▼	BAT
	1	0489E0A6	0.1	433	82	ок
	2					
	3					
	4					
Trigger						Back

Figure 6-43 Check Screen via OEM Part NO.

6.8.2.2 Programming

The programming function is used to program the sensor data to the MX-Sensor and replace the faulty sensor (poor battery life or malfunction).

There are three options available when programming MX-Sensor using the OEM Part NO. function: Copy by Activation, Copy by Input, and Auto Create 1-20 Sensors. Refer to *Sensor Programming* on page 69 for details.

OEMPartNo. V1.00		•	e e e	9 📖	
TRW OEM:529333V600(433MHz)	Cheo	Programm	ing Support	1	/Cb 📑 12.35V
		ID (H	EX) 🔻	PSN Co	ode
	1	04001049	⑦ 0489E0A6	S7708L6M6	C001049
	2				
	3				
	4				
Copy By Activation Input Sense	20				Back

Figure 6-44 Programming Screen via OEM Part NO.

- 1. ID Programmed to the New MX-Sensor
- 2. ID Retrieved from Sensor Activation

3. PSN Code on MX-Sensor

By tapping **Auto Create 1-20 Sensors**, up to 20 MX-sensors can be programmed at a time.

The Product Serial Number (PSN) code, which is printed on the MX-Sensor, acts as a reference to identify the corresponding sensor ID. This can be especially useful when programming multiple MX-Sensors.

6.8.2.3 Support

The Support function will display the correct vehicle types for the selected OEM part number.

To conduct additional procedures such as Diagnostics and Relearn, select the correct test vehicle and then tap **Enter Vehicle** at the bottom-left of the screen. Refer to *TPMS Diagnostics* on page 65 and *TPMS Relearn* on page 75 for more details about the comprehensive TPMS functions menu.

VCb =+ 12.16V
Years
2004/04-2014/05(433MHz)
2004/04-2014/12(433MHz)
2012/01-2014/05(433MHz)
Back
201

Figure 6-45 Support Screen

7 ToolKit

This chapter describes auxiliary functions for TPMS service and vehicle diagnostics.

ToolKit V0.99		🖶 🕐 🖻					
	ToolKit VCk 🖆 0.0						
KKE & RF	Unlock REDI7002A	Sleep Park Mode					
VIN: Info:			ESC				

Figure 7-1 ToolKit Screen

1. RKE & RF

This function is used to check the signal strength of 315 and 433 MHz frequencies of remote keyless entry fobs.

2. Unlock RED I 7002A

This function is used to unlock the specified Redi-sensor: 7002A.

3. Sleep | Park Mode

For those OEM sensors that are delivered in Sleep Mode, this function is used to wake and set them to Park Mode.

8 TPMS Retrofit

This function is used to install the TPMS system in vehicles. A TPMS retrofit is only required if your vehicle is not installed with a TPMS system. Tap the **TPMS Retrofit** application button on the MaxiDAS Job Menu to access the function, then a Vehicle Identification screen will display. See *Vehicle Identification* on page 20 for additional information.

Prior to using this function, ensure the ignition light is in the **ON** position with the MaxiVCI Mini device successfully connected to the vehicle and the tablet.

> To perform the TPMS Retrofit function

- 1. Tap the **TPMS Retrofit** button from the MaxiDAS Job Menu.
- 2. Select the appropriate vehicle manufacturer, followed by the vehicle model and year.
- 3. Tap **OK** at the bottom of the screen to confirm the information of the vehicle. The Retrofit screen opens.
- Follow the instructions displayed on the screen, which will guide you to choose the procedure, including the Back-up, Retrofit, Restore, Program Autel ECU, Autel ECU Relearn and Service Function buttons.



Figure 8-1 TPMS Retrofit Screen

Ø NOTE

- 1. The Retrofit screen has the same layout as the TPMS screen. After the retrofit function is finished, tap on the other tabs to perform optional functions.
- Accesses the TPMS Retrofit function either by tapping **TPMS** on the MaxiDAS Job Menu or by directly tapping **TPMS Retrofit**. The TPMS Retrofit application lists vehicles available for retrofit only. The TPMS application covers all vehicles, and the vehicles available for retrofit will display on the Retrofit tab.

9 Update

The Update application on the tablet downloads the latest version of the software. The updates improve the MaxiDAS applications' capabilities, typically by adding new tests, new model coverage or by adding new or enhanced applications.

The tablet automatically searches for available updates for all of the MaxiDAS software when it is connected to the Internet. Any updates that are found can be downloaded and installed on the device. This section describes update procedures in the MaxiDAS system.



Figure 9-1 Update Screen

- 1. Navigation and Controls
 - Home Button returns to the MaxiDAS Job Menu.
 - Update All updates all available updates.
 - Show Recent shows the recent updates.
 - **Diagnostics** updates all available applications in Diagnostics.
 - **TPMS** updates all available applications in TPMS.
 - TPMS Retrofit updates all available applications in TPMS Retrofit.
 - **Renew** tap to renew your subscription.
 - Refresh refreshes the available update list.
 - Search searches a specific update item by entering the file name such as a vehicle make.

- 2. Status Bar
 - Left Side displays the account information, the MaxiDAS device model information and serial number.
 - Right Side indicates the downloading speed.
- 3. Main Section
 - Left Column displays vehicle buttons.
 - Middle Column displays a brief introduction about the new changes to the software operation or capabilities. Tap the ¹ 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 Internet connection.
- Tap the Update application button from the MaxiDAS 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 of diagnostics software, select Diagnostics tab and then tap the Update All button; if you want to update all items of TPMS service software, select TPMS tab and then tap the Update All button; or if you want to update all items of TPMS retrofit service software, select TPMS Retrofit tab and then 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 pause point.
- 5. When the updating process is completed, the software will be installed automatically. The previous version will be replaced.

10 Settings

Access the Settings menu to adjust default settings and view information about the MaxiDAS system. The following options are available for the MaxiDAS system settings:

- Unit
- Language
- Printing Settings
- Report Settings
- Push Notifications
- Auto Update
- TPMS Market
- TPS Prog. Setting
- Vehicle List
- System Settings
- About

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

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

10.2 Language

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

> To adjust the language setting

- 1. Tap the **Settings** application on the MaxiDAS Job Menu.
- 2. Tap the Language option on the left column.

- 3. Select an 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 MaxiDAS Job Menu, or tap another setting to adjust.

10.3 Printing Settings

Configure this option to enable the tablet to print via network.

> To setup the printer connection

- 1. Tap the **Settings** application on the MaxiDAS Job Menu.
- 2. Tap the **Printing Settings** option on the left column.
- Check if the Print via PC-Link option is selected. If not, tap it to activate the printing function, which enables the device to send files to the printer through the PC via Wi-Fi connection.
- 4. Tap the **Home** button on the top-left corner to return to the MaxiDAS Job Menu, or tap another setting to adjust.

10.3.1 Printing Operations

If the Wi-Fi printer is not available, you can use your PC to print the data on the tablet. Follow the instructions below to operate.

- > To install the PC Link driver program
 - Download the Maxi PC Suite software from <u>www.autel.com</u> > Support > Downloads > Autel Update Tools, and install it to your windows-based computer.
 - 2. Double click on Setup.exe item.
 - 3. Select the installation language and the wizard will load momentarily.
 - 4. Follow the instructions on the screen and click **Next** to continue.
 - 5. Click on Install and the printer driver program will be installed onto the PC.
 - 6. Click on **Finish** to complete the installation.

NOTE

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

This section describes how to receive files from the tablet and perform printing through the computer.

- Make sure the tablet is connected to the same network with your computer, either via Wi-Fi or LAN, before printing.
- Make sure the computer installed with the Printing Services program is connected to a printer.

> To perform printing through the PC

- 1. Run the PC Link program on the PC.
- 2. Select the MaxiSys Printer tab.
- 3. Tap the **Print** button on the Top Toolbar of the tablet. A test document will be sent to the PC.
 - 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) needed for printing, then tap Print.

🖉 ΝΟΤΕ

To confirm that the printer is functioning normally, you can click **Test Print** in the PC Link program to test.

10.4 Report Settings

This option automatically synchronizes the diagnostics information of the vehicle to the vehicle history and forms a diagnostic report for the user to upload. Tap the **ON/OFF** button to enable/disable the Report Upload to Cloud function. The button appears blue if the function is enabled and displays gray if the function is disabled.

🖉 NOTE

Make sure the tablet is connected to the Internet while uploading reports.

10.5 Push Notifications

This option allows you to manage notifications. The Notification Preferences option is turned on by default and cannot be turned off by users so that certain system notifications such as system security warnings won't be blocked.

To manage other notifications

- 1. Tap the **Settings** application on the MaxiDAS Job Menu.
- 2. Tap the **Push Notifications** option on the left column.
- 3. Tap the ✓ button on the right of the Other Notifications option to open a drop-down list.
- 4. There are four options: Enable All Notifications, Limit to 3 Notifications or Less

Per Week, Limit to 1 Notification Per Week, and Disable All Notifications. Select whichever you prefer.

🖉 NOTE

- Notifications will display on the screen. Slide the screen from top to check the received messages. If the message list covers more than one screen, slide the list up or down to view them.
- Tapping a specific message launches the corresponding application. For example, if you tap on an Update notification, the Update application will be launched.

10.6 Auto Update

The Auto Update allows the tool to automatically update the OS, the MaxiDAS system, and the vehicle coverage software. Each can be configured to update automatically at a specified time. Tap the **ON/OFF** button to enable/disable the desired automatic update time.

To set auto system or vehicle update

- 1. Tap the **Settings** application on the MaxiDAS Job Menu.
- 2. Tap the **Auto Update** option on the left column. The three auto update items will display on the right of the screen.
- 3. Select the update type to schedule. Toggle the button to **ON**.
- 4. Tap on the time to set the time of the day for updating. If the update time is set and the device is connected to the Internet, the selected software will be automatically updated at the configured time.

10.7 TPMS Market

This option allows you to set the TPMS market region. The available options are Europe Market, North America Market, Korea Market, Japan Market, and Australia Market. A check mark will display to the right of the selected item.

10.8 TPMS Prog. Setting

This option allows you to set the TPS program pressure limit. The available options are Prog. Pressure≤69Kpa/10PSI and No Prog. Pressure Limit. A check mark will display to the right of the selected item.

10.9 Vehicle List

This option allows you to sort the vehicles either by alphabetical order or by frequency of use.

> To adjust the vehicle list setting

- 1. Tap **Settings** on the MaxiDAS Job Menu.
- 2. Tap Vehicle list on the left column.
- 3. Select the desired sort type. A check mark will display to the right of the selected item.
- 4. Tap the **Home** button on the top-left corner to return to the MaxiDAS Job Menu, or select another setting option for the system setup.

10.10 System Settings

This function provides you with direct access to the Android system settings interface, where you can adjust various system settings for the Android operating system, regarding wireless and network settings, various device settings such as sound and display, as well as system security settings, and check related information about the Android system. Refer to your Android documentation for additional information.

10.11 About

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

> To check the MaxiDAS product information in About

- 1. Tap the **Settings** application on the MaxiDAS Job Menu.
- 2. Tap the **About** option on the left column. The product information displays on the right of the screen.
- 3. Tap the **Home** button on the top-left corner to return to the MaxiDAS Job Menu or select another setting to adjust.

11 Data Manager

The Data Manager application allows you to store, print, and review the saved files, manage the workshop information, and customer information records, and keep test vehicle records.

Selecting the Data Manager application opens the file system menu. There are nine main functions available.



Figure 11-1 Data Manager Main Screen

Button	Name	Description
F	Vehicle History	Tap to review the diagnostic history record.
Â	Workshop Information	Tap to edit the information of workshops.
22	Customer	Tap to create a new customer account file.
	Image	Tap to review the screenshots.

Button	Name	Description		
M	Report	Tap to view the local reports on your tablet. If the report is successfully uploaded to cloud, you can also share the report with others.		
	PDF	Tap to review the reports stored as PDF format.		
	Review Data	Tap to review the recorded data.		
E	Data Logging	Tap to review the communication data and ECU information of the tes vehicle. The saved data can be reported and sent to the technica center via the Internet.		
Ħ	Uninstalled Apps	Tap to uninstall applications.		

11.1 Vehicle History

This function stores records of test vehicle records, including vehicle information and the retrieved DTCs from previous diagnostic sessions. Test information is summarized and displayed in an easy-to-read table listing. The Vehicle History also provides direct access to the previously tested vehicle and allows you to directly restart a diagnostic session without needing to perform auto or manual vehicle selection.



Figure 11-2 Vehicle History Screen

- 1. Top Toolbar Buttons displays navigation and application controls.
- 2. Main Section displays all the vehicle history records.
- To activate a test session for the recorded vehicle
 - 1. Tap the Data Manager application on the MaxiDAS Job Menu.
 - 2. Select **Vehicle History** to open the screen. Tap the relevant application tab to select the test record. Take selecting the **Diagnostics** tab as an example.
 - Tap **Diagnostics** icon at the bottom of the thumbnail of a vehicle record item. The Diagnostics screen of the vehicle displays and a new diagnostic session is activated. See *Diagnostics* for detailed instructions on vehicle diagnostic operations.
 - 4. 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.
 - 5. Select a vehicle thumbnail to choose a record. A Historical Test record sheet displays. Review the recorded information of the test vehicle, and tap the **Diagnostics** button on the upper-right corner to continue diagnostics.

11.1.1 Historical Test Record

The Historical Test Record is a detailed data form of the vehicle, which includes general vehicle information, service record, customer information, and the diagnostic trouble codes retrieved from the previous test sessions. Technician Notes will also appear if present.

🖉 ΝΟΤΕ

The MaxiDAS tablet must establish connection to the MaxiVCI Mini device to restart test sessions on the previously tested vehicles.

Historical test						
Title	2016 Demo JK-Wrangler		View PDF			
Vehicle inf	ormation		Print			
Year	2016	License plate	E-mail			
Make	Demo	VIN 1C4BJWFG5GL131334	Get Report			
Model	JK-Wrangler	Odometer Mileage	Delete			
Sub model		Color				
Engine		Status Not started				
Service rec						

Figure 11-3 Historical Test Record Sheet

- > To edit the Historical Test record
 - 1. Tap Data Manager on the MaxiDAS Job Menu.
 - 2. Select Vehicle History.
 - 3. Select the specific vehicle history record thumbnail from the main section. The Historical Test record will appear.
 - 4. Tap Edit (the pen icon) to start editing.
 - 5. Tap each item to input information or attach files or images.

The vehicle VIN, license number, and customer account information are correlated by default. Vehicle records will automatically be correlated using this vehicle and customer identification.

- 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* on page 99 for more information.
- 7. Tap **Done** to save the updated record sheet, or tap **Cancel** to exit without saving.

11.2 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.

Workshop information						
Basic information						
Set shop logo			Set page footer logo			
Shop name			Tel			
State			Fax			
City			E-mail			
Zip code						
Address						

Figure 11-4 Workshop Information Sheet

- > To edit the Workshop Information sheet
 - 1. Tap the Data Manager application on the MaxiDAS 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.

11.3 Customer

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

- > To create a customer account
 - 1. Tap the Data Manager application on the MaxiDAS Job Menu.
 - 2. Select Customer.
 - 3. Tap the **Add a customer** button. An empty information form displays; tap each field to input the appropriate information.

The items that must be filled are indicated as required fields.

- 4. Some customers may have more than one vehicle for service. You can always add new vehicle information to the account. Tap Add New Vehicle Information, and then fill in the vehicle information. Tap the ③ button to cancel.
- 5. Tap **Complete** to save the account, or tap **Cancel** to exit without saving.

> To edit a customer account

- 1. Tap **Data Manager** on the MaxiDAS Job Menu.
- 2. Select Customer.
- 3. Select a customer account by tapping the corresponding name card. A Customer Information record displays.
- 4. Tap Edit on the Top Toolbar to start editing.
- 5. Tap on the input field to edit information, and enter the updated information.
- 6. Tap **Complete** to save the updated information, or tap **Cancel** to exit without saving.

> To delete a customer account

- 1. Tap **Data Manager** on the MaxiDAS Job Menu.
- 2. Select Customer.
- 3. Select a customer account by tapping the corresponding name card. A Customer Information record displays.
- 4. Tap Edit on the Top Toolbar to start editing.
- 5. Tap **Delete** button on the top of the screen. A message displays.
- 6. Tap **OK** to confirm the command, and the account is deleted, or tap **Cancel** to cancel the request.

11.4 Image

The Image section is a PNG database containing all captured screenshots.

•	Image	۹ /
Screenshot_20211205-19174	Bipping Screenshot_20211205-191739.png Screenshot_20211205- Image: Screenshot_20211205- Image: Screenshot_20211205- Image: Screenshot_20211205- Image: Screenshot_2021120	191724.png Screenshot_20211205-191638.png
Screenshot_20211205-19163	0.png Screenshot_20211205-191623.png Screenshot_20211205-	
1 3 6 6 0 6 last attact taun (right colspan="2") Trip colspan="2"	10 2100 mm Defense Stateger Off	Image: Control of the contro
· · · · · · · · · · · · · · · · · · ·		

Figure 11-5 Image Screen

- 1. Top Toolbar Buttons used to edit, print, and delete the stored image files. See the following table for detailed information.
- 2. Main Section displays the stored images.

Table 11-2 Toolbar	Buttons in Image Screen
--------------------	-------------------------

Button	Name	Description	
ŧ	Back	Returns to the previous screen.	
Q	Search	Tap to search the image by entering its stored time.	
	Edit	Tap to display the editing toolbar to select, delete, print, or email the image(s).	
Cancel	Cancel	Tap to close the editing toolbar o cancel file search.	
	Print	Tap to print the selected image.	
	Delete	Tap to delete the selected image.	
χ	Email	Tap to send the selected image to an email.	

To edit/delete image(s)

- 1. Select **Data Manager** from the MaxiDAS Job Menu.
- 2. Select **Image** to access the PNG database.
- 3. Tap **Edit** on the top-right corner of the screen. The editing screen displays.

- 4. Select the image(s) you want to edit by tapping the check box at the bottom-right corner of the image.
- Tap the Delete icon to delete the selected images or delete all images. Tap Print to print the selected image(s). Tap Email to send the selected image(s) to an email.

11.5 Report

This section stores and displays all reports. The reports stored in this area will be uploaded automatically when you set **ON** to the Report Upload to Cloud in Report Settings. See *Report Settings* on page 92 for further details. Tap one of the reports to view it or save it to the cloud. Select **View Local Reports** to open it. Tap **Report Cloud Sharing** to share it.

(Report List	Q /
All		
BMW Vehicle Diagnostic Report		
2022-06-15 12:34:20	Report sharing 🛞	
VIN: / BMW/ /	View local reports	
	Report cloud sharing	

Figure 11-6 Report List Screen

> To share a report

- 1. Select Data Manager from the MaxiDAS Job Menu.
- 2. Tap Report to access the Report List screen.
- 3. Tap a report record to display the Record Sharing dialog box.
- 4. Tap Report Cloud Sharing.
- 5. Scan the QR code or tap Send Email or Send SMS to share the report.

11.6 PDF Files

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

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

11.7 Review Data

The Review Data section allows you to play back the recorded data frames of live data streams.

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

	 • 		e
	Name 🕤 0 items selected	Value	Unit
	✓ Engine speed	9024	r/min
	Engine torque setpoint value	9024	Nm
0	✓ Kilometer reading	37898.67	km
0-	Time:00:32/00:32 Frame:42/42 Graph merge Show selected P	Previous Play	Next frame Back

Figure 11-7 Data Playback Screen

- 1. Main Section displays the recorded data frames.
- 2. Navigation Toolbar allows you to manipulate data playback.

Use the Navigation Toolbar buttons to play back the recorded data from frame to frame.

Tap **Back** to exit data playback.

11.8 Data Logging

The Data Logging section allows you to launch Support platform directly to view all records of all feedback or no feedback data loggings on the diagnostic system. For more details, see *Data Logging* on page 125.

11.9 Uninstall Apps

This section allows you to manage the firmware applications installed on the MaxiDAS diagnostics system. Selecting this section opens a managing screen, on which you can check all available vehicle diagnostic applications.

Select the vehicle firmware you want to delete by tapping on the vehicle manufacturer icon, the selected item will display a blue mark at the upper-right corner. Tap the **Delete** button on the Top Toolbar to delete the firmware from the system database.

12 VCI Manager

This application pairs the tablet with the MaxiVCI Mini, checks the communication status and update the VCI firmware.

					VCI Manager		Stop	
	вт	VCI BT	Disconnected				VCI	
	BAS	BAS BT	Disconnected					
	0	VCI Update	Disconnected		Devices		Scanning	1
0—	0	BAS Update	Disconnected	Bluet	ooth		ON	
				67 4)	Maxi-CMJBMCC0144		Disconnected	
				67 4)	Maxi-CBJVN6C01048		Disconnected	-0
				61 4)	Maxi-CMJBM9C03014		Disconnected	
				61 4)	Maxi-CFJ2LAC01040		Disconnected	
				BT4)	Maxi-CBJMM9C01179		Disconnected	
					Tap to	o connect or disconn	ect	

Figure 12-1 VCI Manager Screen

- 1. Connection Mode there are four connection modes available for selection. The connection status is displayed alongside.
 - VCI BT when the VCI is paired to a device via Bluetooth, the connection status displays as "Connected". Otherwise, it displays as "Disconnected".
 - BAS BT when paired to a battery tester via Bluetooth, the connection status displays as "Connected". Otherwise, it displays as "Disconnected".
 - VCI Update connects the VCI to the diagnostic tablet via Bluetooth first, then updates the VCI firmware through the tablet.
 - BAS Update updates the BT506 battery tester's firmware via Internet through the tablet.
- 2. Bluetooth Setting

The Bluetooth setting screen displays the device name for all the devices available for pairing, you can tap the needed one to start pairing. The BT status icon displayed to the left of the device name indicates the received signal strength.

12.1 VCI Bluetooth Pairing

The MaxiVCI Mini needs to be connected to a vehicle, so that it is powered during the synchronization procedure. Ensure the tablet has sufficient battery power or is connected to an external power supply.

> To pair the MaxiVCI Mini with the tablet

- 1. Power on the tablet.
- 2. Insert the 16-pin vehicle data connector of the MaxiVCI Mini to the vehicle data link connector (DLC).
- 3. Tap the VCI Manager application on the MaxiDAS Job Menu of the tablet.
- 4. Select VCI BT from the Connection Mode list on the left column.
- 5. Tap the **Scan** button at the top-right corner. Now the device starts searching for available pairing units.
- 6. The device name may display as "Maxi-" suffixed with a serial number. Select the appropriate device for pairing.
- 7. When paring is successfully done, the connection status displayed to the right of the device name is shown as "Connected".
- Once connected, the BT badge displays at the bottom-right corner of the VCI Manager shortcut, and the Connection LED on the MaxiVCI Mini illuminates solid blue, which signifies that the tablet is connected to the MaxiVCI Mini, and is ready to perform vehicle diagnosis. If you need to disconnect the connected device, tap it again.
- 9. Tap the **Home** button on the top-left to return to the MaxiDAS Job Menu.

NOTE

A MaxiVCI Mini can only be connected to one tablet at a time, and once it's connected, the device will not be discoverable to other devices.

12.2 BAS Bluetooth Pairing

The BT506 battery tester device can be connected with the tablet via Bluetooth. Ensure that the BT506 battery tester is sufficiently charged or is connected to an external power supply before use.

> To pair the Battery Tester with the tablet

- 1. Power on the diagnostic tablet and the battery tester.
- 2. Connect the red clamp to the positive (+) battery terminal and the black clamp to the negative (–) battery terminal.
- 3. Tap VCI Manager on the MaxiDAS Job Menu of the tablet.
- 4. Select **BAS BT** from the Connection Mode list on the left column.

- 5. Toggle the Bluetooth **ON**. Tap **Scan** at the top-right corner of the screen. The device will start to search for available units to pair with.
- Depending on the type of battery tester, the device name may appear as "Maxi-" suffixed with the battery tester's serial number. Select the appropriate device for pairing.
- 7. When paired successfully, the connection status reads "Connected".

12.3 VCI Update

12.3.1 Update via Tablet

Before updating the VCI firmware, ensure the tablet's connection to the Internet is stable.

- > To update the MaxiVCI Mini firmware via tablet
 - 1. Power on the tablet.
 - 2. Using a Mini USB cable to connect the MaxiVCI Mini to the tablet.
 - 3. Tap the VCI Manager application on the MaxiDAS Job Menu of the tablet.
 - 4. Select **VCI Update** from the Connection Mode list on the left column.
 - 5. The current version and the latest version of the VCI firmware will be displayed after a few seconds. Tab **Update Now** to update the VCI firmware if available.

12.3.2 Update via PC

> To update the MaxiVCI Mini firmware via PC

- Download the Maxi PC Suite software from <u>www.autel.com</u> > Support > Downloads > Autel Update Tools, and install it onto your PC.
- 2. Using a Mini USB cable to connect the MaxiVCI Mini to the PC.
- 3. Launch the **PC Suite** on the PC which is installed after the installation of **Maxi PC Suite** and click the **MaxiVCI Mini** icon in the Device Selection window.
- 4. The PC will automatically recognize the MaxiVCI Mini.
- 5. Click **Update** to complete the update if an update is available.

12.4 BAS Update

Before updating the battery tester firmware, please make sure the network connection is stable.

> To update the battery tester's firmware

- 1. Power on the diagnostic tablet and the battery tester.
- 2. Connect the battery tester to the tablet via Bluetooth.
- 3. Tap the VCI Manager application on the MaxiDAS Job Menu of the tablet.
- 4. Select **BAS Update** from the Connection Mode list on the left column.
- 5. The current version and the latest version of the battery tester's firmware will be displayed after a few seconds. Tap **Update Now** to update the battery tester's firmware if available.

⊘ NOTE

Do not leave the BAS Update page during upgrade.

13 Battery Test

The Battery Test application allows the user to perform in-vehicle battery test and out-vehicle battery test functions when the BT506 battery tester is connected to the MaxiDAS DS808S-TS tablet and a battery. The BT506 battery tester enables technicians to view the health status of the vehicle's battery and electrical system.

NOTE

The BT506 battery tester needs to be purchased separately.



Figure 13-1 Battery Test Screen

13.1 MaxiBAS BT506 Battery Tester

13.1.1 Function Description



Figure 13-2 MaxiBAS BT506 Tester

- 1. Power Button
- 2. Status LED
- 3. Power LED
- 4. USB Port
- 5. Battery Clamp Cable

Table 13-1 LED Description

LED	Color	Description
Status LED	Flashing Green	The tester is communicating via USB cable.
	Flashing Blue	The tester is communicating via Bluetooth.
	Flashing Red	Battery clamps are connected to the wrong battery terminals.

LED	Color	Description	
Power LED	Solid Green	The tester is powered on and the battery is sufficiently charged.	
	Flashing Green	The tester is charging. (Turns solid green when battery is fully charged.)	
	Solid Red	The device is in boot mode.	
	Flashing Red	The battery level is low. Please charge.	

13.2 Power Sources

The MaxiBAS BT506 tester can receive power from the following sources:

- Internal Battery Pack
- AC/DC Power Supply

IMPORTANT

Do not charge the tester when the temperature is below 0 °C (32 °F) or above 45 °C (113 °F).

13.2.1 Internal Battery Pack

The MaxiBAS BT506 battery tester can be powered with the internal rechargeable battery.

13.2.2 AC/DC Power Supply — Using Power Adapter

The MaxiBAS BT506 battery tester can be powered from an electrical outlet using the AC/DC power adapter. The AC/DC power supply also charges the internal battery pack.

13.2.3 Technical Specifications

Item	Description
Connectivity	USB 2.0, Type CBluetooth 4.2
Input Voltage	5 V DC
Working Current	< 150 mA at 12 V DC
Internal Battery	3.7 V/800 mAh Lithium-ion Polymer battery
CCA Range	100 to 2000 A
Voltage Range	1.5 to 16 V
Working Temp.	- 10 °C to 50 °C (14 °F to 122 °F)
Storage Temp.	- 20 °C to 60 °C (- 4 °F to 140 °F)
Dimension (L x W x H)	107 mm (4.21") x 75 mm (2.95") x 26 mm (1.02") (clamp cable not included)
Weight	320 g (0.7 lbs.)

Table 13-2 Technical specifications

13.3 Test Preparation

13.3.1 Inspect the Battery

Before starting a test, inspect the battery for:

- Cracking, buckling or leaking. If you see any of these defects, replace the battery.
- Corroded, loosen or damaged cables and connections. Repair or replace as needed.
- Corrosion on the battery terminals, and dirt or acid on the case top. Clean the case and terminals using a wire brush and a mixture of water and baking soda.

13.3.2 Connect the Battery Tester

> To pair with the MaxiDAS tablet

- 1. Turn on both the MaxiDAS DS808S-TS tablet and the BT506 battery tester. Ensure that the units are sufficiently charged before you begin.
- 2. Enable Bluetooth on the tablet by tapping VCI Manager > BAS BT. Tap Scan at the top-right corner. The device will start to search for available pairing units.
- 3. Depending on the type of battery tester, the device name may display as "Maxi-" suffixed with a serial number. Select the appropriate device for pairing.
- 4. When paired successfully, the connection status will read "Connected".



Figure 13-3 Battery Tester Connection Example 1

> To connect to a battery

- 1. Connect the red clamp to the positive (+) terminal of the battery.
- 2. Connect the black clamp to the negative (-) terminal of the battery.



Figure 13-4 Battery Tester Connection Example 2

13.4 In-vehicle Test

The In-vehicle Test is used for testing batteries that are installed in a vehicle. An in-vehicle test includes the Battery Test, Starter Test, and Generator Test. These tests help determine the health of the battery, the starter, and the generator.

IMPORTANT

A disclaimer will appear when first accessing any function on the **Home** screen. Please read the end-user agreement and tap **Accept** to continue. If you tap **Decline**, you will not be able to use the features properly.

Prior to testing any battery, ensure that the battery tester is paired with the tablet via Bluetooth and connected properly to a battery.

> To start the in-vehicle test

- 1. Tap Battery Test on the MaxiDAS Job Menu. Select In-vehicle Test.
- Confirm the vehicle information on the left side of the screen. Make sure the VIN is entered.
- 3. Confirm your battery information, including voltage, type, standard, and capacity. Tap **Next** to continue the in-vehicle test functions.

+	Vehicle i	nformation			12.8
License					
VIN	•	Туре	Standard	Capacity	
Make					
Acura	>				
Year		FLOODED	CCA	100	1
2019	>	AGM		105	-
Model					
ILX HYBRID	>				
			Batt		t

Figure 13-5 Battery information Screen

Please refer to the table below for a list of buttons that may appear when accessing the functions:

Button	Name	Description		
12.3 Battery Connection		The value on the icon indicates the real-time voltage of the tested battery. In the battery test, the button will turn green if the battery is good. Otherwise, it will turn red.		
Next	Next	Tap to proceed.		
Home		Returns to the battery test main screen.		
-	Back	Returns to the previous screen.		
Þ	Exit	Returns to the Job Menu.		

Table 13-3 Top Toolbar Buttons

13.4.1 Battery Test

1. Follow the on-screen instructions. Check the boxes once all required tasks are completed, and tap **Start Testing**.

	Battery	Starter	Generator	13.1
		Operations needed bef	ore battery test	
		1.Turn off electrical ap	pliances.	
		2.Ignition OFF.		
7		3.Close all the vehicle	doors.	
				Start Testing

Figure 13-6 Battery Screen

2. Wait until the test is completed. The test results will be displayed on the tool.

+	Battery	Starter	Generator		3
5			Good Batt		
			SOH 1009	6	·
	SOC	2			100%
	Volt	tage			12.79 V
	Mea	asured Capacity			110 CCA
	Сар	pacity			100 CCA
				Report	Continue

Figure 13-7 Battery Test Results Screen

The battery test results include a color-coded results summary, a list of test data, and repair tips. Possible in-vehicle test results are as follows:

Result	Repair Tip
Good Battery	Battery is good.
Good & Recharge	Battery is good but insufficiently charged. Recharge the battery.
Charge & Retest	Battery requires charge to determine its condition.
Bad Cell	Replace the battery.
Replace Battery	Replace the battery.

⊘NOTE

Please always complete the battery test before you proceed to the starter and generator tests.

13.4.2 Starter Test

Follow the on-screen instructions to complete the test. Start the engine and let it idle. The test results will appear as follows:

+	Battery	Starter	Generator		3
			Charging No	rmal	
4	Ripp	ble			1 mV 🗸
	No-	oad voltage			14.32 V 🗸
	Loa	d Voltage			14.50 V 🗸
5					
(LIII)	J				
				Denert	Dana
				Report	Done

Figure 13-8 Starter Test Result Screen

Result	Description	
Cranking Normal	The starter is good.	
Current Too Low	Low momentary discharge capacity.	
Voltage Too Low	Low battery storage capacity.	
Not Started	The starter is not detected for starting.	

Table 13-5 Starter Test Results

13.4.3 Generator Test

Follow the on-screen instructions to complete the test. The test results will appear as follows:

 • 	Battery	Starter	Generator		3
			Charging No	rmal	
4	Rip	ple			1 mV 🗸
	No	load voltage			14.32 V 🗸
	Loa	ad Voltage			14.50 V 🗸
	L				
	Ţ				
				Report	Done
				Report	Done

Figure 13-9 Generator Test Results Screen

Result	Description	
Charging Normal	The generator is functioning normally.	
Output Too Low	 The belt linking the starter and the generator is loose; The cable linking the starter and battery is loose or corroded. 	
Output Too High	 The generator is not properly connected to the ground; The voltage adjuster is broken and needs replacement. 	
Ripple Too Large	The commutation diode is broken.	
No Output	 The cable is loose; Some vehicles with power management systems do not provide path for charging due t the sufficient load capacity of the battery; The generator or the voltage adjuster is broker and needs replacement. 	

Table 13-6 Generator Test Results

13.5 Out-vehicle Test

Out-vehicle Test is used to test the condition of batteries that are not connected to a vehicle. This function aims to check the health status of the battery only.

13.5.1 Test Procedure

> To start the out-vehicle test

- 1. Connect the tester clamps to the battery terminals.
- 2. Select the appropriate battery type, rating standard, and CCA value. Tap **Start Testing** to start the test.

	Out of Vehicle Test			12.8
	Battery Voltage	12V	•	
4	Туре	Standard	Capacity	
Battery Test is ready. Press 'Start Testing'	FLOODED	CCA	100	
	AGM			
	, solv or mar		S	tart sting

Figure 13-10 Out-vehicle Test Screen

3. The test results will display in a few seconds.

+ •	Out of Vehicle Test	ß
	Good Battery	
	SOH 100%	
4 🤡	SOC	100%
	Voltage	12.74 V
Good Battery	Measured Capacity	117 CCA
	Capacity	100 CCA
	Tomosratura	26.00
		Report

Figure 13-11 Out-vehicle Test Results Screen

13.5.2 Test Results

Result	Description
Good Battery	Battery meets required standards.
Good & Recharge	Battery is good, but low on charge. Fully charge the battery. Check for causes of low charge.
Charge & Retest	Battery requires charge to determine its condition.
Replace Battery	Battery fails to meet industry-accepted standards.
Bad Cell	Battery fails to meet industry-accepted standards.

Table 13-7 Out-Vehicle Test Results

14 Remote Desktop

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

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 unique global ID. The first time the Remote Desktop application is launched, this ID is generated automatically based on the hardware characteristics and will not change later on.

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

TeamViewer QuickSupport	:
How to connect to this device	Your ID 669 030 766 SEND MY ID
 Ready to connect (secure connection) 	

Figure 14-1 Remote Desktop Screen

> To receive remote support from a partner

- 1. Power on the tablet.
- 2. Tap the **Remote Desktop** application on the MaxiDAS Job Menu. The TeamViewer QuickSupport screen appears and the device ID is generated and shown.
- 3. Your partner must install the Remote Control software to his/her PC by

downloading the TeamViewer program (full version) online (see <u>http://www.teamviewer.com</u>), and then launch the software.

- 4. Provide your ID to your partner and wait for him/her to send you a remote-control request.
- 5. A prompt will appear asking you 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.

15 Support

This application launches the Support platform which synchronizes Autel's online service base station with the tablet. In order to synchronize the device to your online 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 online communities which provides the quickest way for problem solutions, allowing you to submit complaints and send help requests to obtain direct services and supports from the online community.

15.1 Product Registration

In order to get access to the Support platform and obtain update and other services from Autel, you are required to register the MaxiDAS tablet the first time you use it.

> To register the MaxiDAS tablet

- 1. Visit the website: pro.autel.com.
- 2. If you have an Autel account, sign in with your account ID and password and skip to step 7.
- 3. If you are a new member to Autel, click the **Register** button to create your Autel ID.
- 4. Enter the required personal information in the input fields.
- 5. Enter your email address, then click **Request**. You will receive an email from Autel with your verification code. Open the email and copy the code into the proper input box.
- Set a password for your account, and enter the password again to confirm. Read the Autel User Service Agreement and Autel Privacy Policy, then check the box to accept the terms. After all the information is entered, click Register. A Product Registration screen will appear.
- Your product serial number and password are required to complete your registration. To find your serial number and password on the tool: go to Settings > About.
- 8. Enter your tool's serial number and password on the Product Registration screen. Enter the CAPTCHA code and click **Submit** to complete your registration procedure.

15.2 Support Screen Layout

The Support application interface is navigated by the Home button on the Top Toolbar. And 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 function screen on the right.

	Support
	1
👤 My Account	User information
Data Logging Training	Autel ID: Real name: Country/District: Town/City: Company/Institute: Address: Post code:
	Device information Product serial number: Registration time: Expired time: Warranty period:

Figure 15-1 Support Application Screen

15.3 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 information and device information.

- User Information displays detailed information of your registered online Autel account, such as your Autel ID, name, address, and other contact information.
- Device Information displays the registered product information, including the product serial number, registration time, expired time, and warranty period.

15.4 Data Logging

The Data Logging screen keeps records of all **Feedback** (submitted), **No Feedback** (not submitted but saved) or **History** (up to the latest 20 test records) data loggings on the diagnostic system. You can edit and send test records by using the Data Logging function. Autel support personnel will receive and process submitted reports through the Support platform.



Figure 15-2 Data Logging Screen

> To make a reply in a Data Logging session

- 1. Tap on the **Feedback** tag to view the list of submitted data loggings.
- 2. Select a specific item to view the latest update of the processing progress.
- 3. Tap on the input field at the bottom of the screen and enter your reply, or tap the **Audio** button to record a voice message or the **Camera** button to take a screenshot.
- 4. Tap **Send** to deliver your message to Autel support.

15.5 Training

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

15.6 FAQ

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

- Account displays questions and answers about the use of Autel's online user account.
- Shopping displays questions and answers about online product purchase methods or procedures.

• Payment — displays questions and answers about online product payment methods or procedures.

16 OEM Authorization

The OEM Authorization application allows you to unlock the gateway ECU (CGW) for some vehicles to perform advanced diagnostics tests.

NOTE

Make sure the tablet is connected to the Internet before launching the OEM Authorization application.

> To unlock the gateway ECU (CGW)

- 1. Connect the MaxiDAS tablet to the vehicle through the MaxiVCI Mini. See *Establishing Vehicle Communication* on page 16.
- 2. Tap **Diagnostics** application from the MaxiDAS Job Menu.
- 3. Tap **Renault**. Select the vehicle type and tap **OK** to confirm the vehicle information.
- 4. On the Information screen, tap **Unlock**.
- 5. On the Purchase screen, tap **OK**. Select purchase method and pay to unlock the gateway. On the Purchase Successful screen, tap **OK**.
- Exit the Diagnostics application. Tap **OEM Authorization** application on the MaxiDAS Job Menu. On the OEM Authorization screen, tap **Renew**. The Unlocking Information screen appears, on which you can view the remaining service sessions.

17 MaxiViewer

The MaxiViewer 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 **MaxiViewer** application on the MaxiDAS Job Menu. The Function Viewer screen displays.
- 2. Tap the tool name on the top-left corner to drop down the tool list. Tap the one you want to search.
- 3. Tap the vehicle brand, model, and year you want to search.



Figure 17-1 Function Viewer Screen 1

4. All the functions support by the selected tool for the selected vehicle will display as several columns.

Function Viewer						Q. 🕫
MaxiDAS DS	S808S-TS 🔻 Acur	a/Acura 1.6/Year	•	System	▼ SubSys ▼	Туре
Year Range	Feature	Feature	Туре	Function	Sub function	Version
/	SRS	/	Passenger car	ECU information	/	Above Acur a_V2.10
1	SRS	/	Passenger car	Erase codes	/	Above Acur a_V2.10
/	SRS	/	Passenger car	Freeze frame data	/	Above Acur a_V2.10
1	SRS	/	Passenger car	Live data	/	Above Acur a_V2.10
/	SRS	/	Passenger car	Read codes	/	Above Acur a_V2.10

Figure 17-2 Function Viewer Screen 2

To search by the functions

- 1. Tap the **MaxiViewer** application on the MaxiDAS Job Menu. The Function Viewer 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 the function you want to search in the top-right search column. All the vehicles with this function will be listed with several columns, including system, function, sub function, and version.

Cancel		function	s 🔻 🔍 ECU Inform	mation		\otimes	0
MaxiDAS DS808S-TS 🔻 Brand/Model/Year 🔻							
Machinemodel	Model	Year Range	Feature	Feature	Function	Sub function	Version
Jaguar	F-Type	2014-2015	Passenger's door module	/	ECU information	/	Above Jag uar_V1.20
Jaguar	F-Type	2014-2015	Passenger's door module	/	ECU information	/	Above Jag uar_V1.20
Jaguar	F-Type	2014-2015	Transmission control module	/	ECU information	/	Above Jag uar_V1.20
Jaguar	F-Type	2014-2015	Transmission control module	/	ECU information	/	Above Jag uar_V1.20
Jaguar	F-Type	2014-2015	Body control module	/	ECU information	/	Above Jag uar_V1.20
							Alexandra

Figure 17-3 Function Viewer Screen 3

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

18 MaxiVideo

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

MARNINGS & IMPORTANTS:

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

- Do not place the imager head into anything or anywhere that may contain a live electric charge or moving parts, which increases the risk of electric shock or entanglement injuries.
- Do not use the imager head cable to modify surroundings, clear pathways or clogged areas.
- When inspection is completed, carefully withdraw the imager head from the inspected area.
- The imager head cable is waterproof to a depth of 1 m (3.28'), greater depths may cause leakage into the imager head cable, electric shock or tool damage.
- The working temperature of the imager head is between 0 °C (32 °F) and 55 °C (13 °F).

Check-Ups:

- ✓ FOR AUTOMOBILES: Ensure the automobile is not running during inspection to avoid damage from hot metal and liquid under the hood. Do not let the imager head get oil or gasoline.
- ✓ FOR PIPES: If you suspect that a metal pipe may carry electric charge, have a qualified electrician to check the pipe before inspecting it.
- ✓ FOR WALLS: Before you inspect the inside of a wall with the imager head, turn off the circuit breaker to the house.
- ✓ WORK AREA: Ensure the work area has sufficient light.

18.1 Additional Accessories

The MaxiVideo Camera and its fittings are the additional accessories. Both sizes ($8.5 \,$ mm and $5.5 \,$ mm) of the imager head are optional and available for purchase along with the standard MaxiDAS tool kit.

18.1.1 MaxiVideo Camera



Figure 18-1 MaxiVideo Camera

- 1. Removable Imager Head Cable connects to the tool when using MaxiVideo for image and video viewing.
- 2. Handgrip ergonomically designed handle for comfortable grips and agile operation.
- 3. USB Cable connects the MaxiVideo Camera to the MaxiDAS tablet.

18.1.2 Imager Head Accessories



Figure 18-2 8.5 mm Imager Head Accessories

- 1. Mirror helps to look around corners and see the unreachable areas.
- 2. Hook unclogs obstacles and picks up wires in the pipes or confined areas.
- 3. Magnet picks up small metal objects such as dropped rings or screws.



Figure 18-3 5.5 mm Imager Head Accessories

- 1. Mirror helps to look around corners and see the unreachable areas.
- 2. Magnet picks up small metal objects, such as dropped rings or screws.

18.1.3 Accessory Assembly

18.1.3.1 For 8.5 mm Imager Head

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

1. Hold the accessory and the imager head.



2. Slip the end of the accessory over the imager head and then fix the accessory.



18.1.3.2 For 5.5 mm Imager Head

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

1. Hold the accessory and the imager head.



2. Screw the thread part of the accessory over the imager head to fix the accessory.



18.1.4 Technical Specifications

Item	Description			
Optimal Viewing Distance	 0.79" to 2.36" (2 cm to 6 cm) with 8.5 mm diameter imager head 0.79" to 2.36" (2 cm to 6 cm) with 5.5 mm diameter imager head 			
Resolution	 JPG images (640 x 480) AVI videos (320 x 240) 			
Operating Temp.	 Main Unit: 0 °C to 55 °C (32 °F to 13 °F) (ambient) Cable: -10 °C to 70 °C (14 °F to 158 °F) 			
Storage Temp.	-20 °C to 75 °C (-4 °F to 167 °F) (ambient)			
Waterproof	Imager head and cable to 1 m			
Weight	 0.3 kg for 8.5 mm diameter imager head 0.2 kg for 5.5 mm diameter imager head 			

Table 18-1 Specifications

18.2 Operations

Before opening the MaxiVideo application, the imager head cable must be connected to the tablet through the USB port. Install the correct imager head accessories according to the specific needs.

When in operation, the imager head cable can be manipulated so as to better access confined or awkward spaces.

> To take images using the MaxiVideo application

- 1. Connect the USB cable of the MaxiVideo camera to the USB port on the top side of the tablet.
- 2. Power up the tablet.
- 3. Tap the **MaxiVideo** application on the MaxiDAS Job Menu. The MaxiVideo interface displays, showing a camera operating screen. The imager head camera is used by default.
- 4. Focus the image to be captured in the view finder by adjusting the imager head cable.

- 5. Select the **Camera** icon at the lower-right corner to take images.
- 6. Tap the blue ring on the screen. The view finder now displays the captured picture and auto-saves the taken photo.
- 7. Tap the thumbnail image on the top-right corner of the screen to view the stored image, slide the screen left or right to view the images.
- 8. Tap on the selected image and the edit toolbar instantly displays.
- 9. Tap the corresponding button to share or delete an image.
- 10. Tap the **Back** or **Home** button on the Navigation Bar at the bottom of the screen to exit the MaxiVideo application.

> To record a video using the MaxiVideo application

- 1. Connect the USB cable of the MaxiVideo camera to the USB port on the top side of the tablet.
- 2. Power up the tablet.
- 3. Tap the **MaxiVideo** application on the MaxiDAS Job Menu. The MaxiVideo interface displays, showing a camera operating screen. The Imager head camera is used by default.
- 4. Properly locate the imager head cable to focus the subject for recording.
- 5. Select the **Video** icon at the lower-right corner to record a video.
- 6. Tap the red ring on the operating screen to start recording.
- 7. Tap the red circle again to stop recording. The recorded video is automatically saved.
- 8. Tap the **Gallery** icon at the bottom-right corner to review all the recorded videos.
- 9. Select the corresponding button on the upper-right corner to search or delete a video.

19 Quick Link

The Quick Link application provides you with convenient access to Autel's official website and many other well-known sites in automotive service industry to provide technical help, knowledge bases, forums, and training and expertise consultations.

		Quick Link		
AUTEL	ALLDATA	OBD WIKI	HAYNESPRO	IDENTIFIX
AUTEL	ALLDATA	OBD wiki	HaynesPro	IDENTIFIX
MITCHELL1	NASTF	ORIO HEMSI DA	ORIO PORTAL	SAAB Original
Mitchell1	NASTF	ORIO Hemsida	ORIO Portal	SAAB Original
SAAB WESHOP	TST	AUTODATA	ETI	IATN
SAAB Weshop	TST	autodata	eti	iATN

Figure 19-1 Quick Link Screen

> To open a quick link

- 1. Tap the **Quick Link** application on the MaxiDAS Job Menu. The Quick Link application screen appears.
- 2. Select a website thumbnail from the main section. The Chrome browser is launched and the selected website is opened.

20 Maintenance and Service

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

20.1 Maintenance Instructions

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

- Use a soft cloth and alcohol or a mild window cleaner to clean the touch screen of the tablet.
- Do not use any abrasive cleansers, detergent, or automotive chemicals 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 device in humid, dusty or dirty areas.
- Check the housing, wiring, and connectors for dirt and damage before and after each use.
- After using the device, 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.
- Only use 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.

20.2 Troubleshooting Checklist

A. When the 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 may be 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.

20.3 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.

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

- Make sure 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 as per the standard. Use of an unqualified battery or charger may present a risk of fire, explosion, leakage, or other hazards.
- Avoid dropping the tablet. If the tablet is dropped, especially on a hard surface, and the user suspects damage, take it to a service center for inspection.
- 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 vehicle in summer or winter, may reduce the capacity and life of the battery. Always keep the battery within normal temperatures.

20.4 Service Procedures

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

20.4.1 Technical Support

If you have any question or problem on product operations, please contact us.

Autel North America

- Phone: 1-855-AUTEL-US (288-3587) (Monday-Friday, 9AM-9PM Eastern Time)
- Fax: (631) 357-3304
- Email:

Tech Support: <u>ussupport@autel.com;</u> Sales: <u>sales@autel.com;</u> Careers: <u>careers@autel.com</u>

- Address: 36 Harbor Park Drive, Port Washington, New York, USA 11050
- Web: <u>www.autel.com</u>

Autel Europe

- Phone: +49(0)89 540299608 (Monday-Friday, 9:00AM-6:00PM Berlin Time)
- Email: <u>support.eu@autel.com</u>
- Address: Landsberger Str. 408, 4. OG, 81241 München, Germany
- Web: <u>www.autel.eu</u>

China Headquarters

- Phone: 0086-755-2267-2493 (Monday-Friday, 9:00AM-6:00PM Beijing Time)
- Email: <u>sales@auteltech.net;</u> <u>support@autel.com</u>
- Address: 7th, 8th and 10th Floor, Building B1, Zhiyuan, Xueyuan Road, Xili, Nanshan, Shenzhen, 518055, China
- **Fax**: 0086-755-8614-7758
- Web: <u>www.auteltech.cn</u>

Autel Latin America

- Phone: +52 33 1001 7880 (Spanish in Mexico), +55 19 97816 4911 (Portuguese in Brazil)
- Email: <u>latsupport@autel.com</u> (in Mexico); <u>brsupport@autel.com</u> (in Brazil)
- Address: Avenida Americas 1905, 6B, Colonia Aldrete, Guadalajara, Jalisco, Mexico
- Web: <u>www.autel.com</u>

Autel APAC

- **Phone**: +81-045-548-6282 (in Japan)
- Email: <u>sales.jp@autel.com</u>; <u>support.jp@autel.com</u>
- Address: 6TH FLOOR, ARI- NADORIBIRU 3-7-7, SHIN-YOKOHAMA, KOUHOKU-KU, YOKOHAMA-SHI, KANAGAWA-KEN, 222-0033 JAPPAN
- Web: <u>www.autel.com/jp/</u>

Autel IMEA DMCC

- **Phone**: +971 585 002709 (in UAE)
- Email: sales.imea@autel.com; imea-support@autel.com; imea-support@autel.com; imea.support@autel.com; <
- Address: 906-17, Preatoni Tower (Cluster L), Jumeirah Lakes Tower, DMCC, Dubai, UAE
- Web: <u>www.autel.com</u>

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

20.4.2 Repair Service

If it becomes necessary to return your device for repair, please contact us first and then download the repair service form from <u>www.autel.com</u>, and fill it in. 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:

8th Floor, Building B1, Zhiyuan, Xueyuan Road, Xili, Nanshan, Shenzhen, 518055, China

20.4.3 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

21 Compliance Information

FCC Compliance FCC ID: WQ8-MX808S-TS2152

This device complies with Part 15 of the FCC rules and Industry Canada's license-exempt RSSs. Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference.
- 2. This device must accept any interference received, including interference that may cause undesired operation.

Cet appareil est conforme aux CNR exempts de licence d'Industrie Canada. Son fonctionnement est soumis aux deux conditions suivantes:

- 1. Ce dispositif ne peut causer des interferences; et
- 2. Ce dispositif doit accepter toute interférence, y compris les interférences qui peuvent causer un mauvais fonctionnement de l'appareil.

A WARNING

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

⊘NOTE

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.

-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-- Consult the dealer or an experienced radio/TV technician for help.

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.

RF WARNING STATEMENT

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

RoHS COMPLIANCE

This device is declared to be in compliance with the European RoHS Directive 2011/65/EU.

CE COMPLIANCE

This product is declared to conform to the essential requirements of the following directives and carries the CE mark accordingly:

Radio Equipment Directive 2014/53/EU

22 Warranty

Limited One Year Warranty

Autel Intelligent Technology Corp., Ltd. (the Company) warrants to the original retail purchaser of this MaxiDAS diagnostics device that should this product or any part thereof during normal usage and conditions, be proven defective in material or workmanship and results in product failure within 1 year period from the date of purchase, such defect(s) will be repaired, or replaced (with new or rebuilt parts) with Proof of Purchase, at the Company's option, without charge for parts or labor directly related to the defect(s).

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

This warranty does not apply to:

- 1) Products subjected to abnormal use or conditions, accident, mishandling, neglect, unauthorized alteration, misuse, improper installation or repair or improper storage;
- 2) Products whose mechanical serial number or electronic serial number has been removed, altered or defaced;
- Damage from exposure to excessive temperatures or extreme environmental conditions;
- 4) Damage resulting from connection to, or use of any accessory or other product not approved or authorized by the Company;
- 5) Defects in appearance, cosmetic, decorative or structural items such as framing and non-operative parts;
- 6) 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.