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IMPORTANT

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

For Services and Support

pro.autel.com

www.autel.com

1-855-288-3587 (North America)
+86 (0755) 8614-7779 (China)

support@autel.com

For technical assistance in all other markets, please refer to *Technical Support* in this manual.

Safety Information

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

There are various procedures, techniques, tools, and parts 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 essential to perform tests in an appropriate and acceptable manner that does not endanger your safety, the safety of others in the work area, the device being used, or the vehicle being tested.

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

DANGER

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

WARNING

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

Safety Instructions

The safety messages herein cover situations Autel is aware of 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.

DANGER

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

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 Hyperlinks

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, MaxiPRO MP900-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, MP900-TS can perform comprehensive TPMS services with ease.

There are two main components of the MP900-TS system:

- MP900-TS Tablet — the central processor and monitor for the system.
- MaxiVCI V150 — 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 MaxiPRO MP900-TS Tablet

2.1.1 Function Description

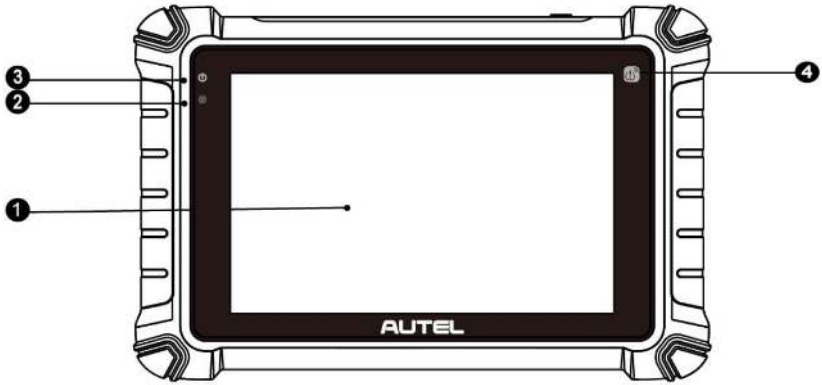


Figure 2-1 ***Tablet Front View***

1. 8.0” LCD Touchscreen
2. Ambient Light Sensor — detects ambient light 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.

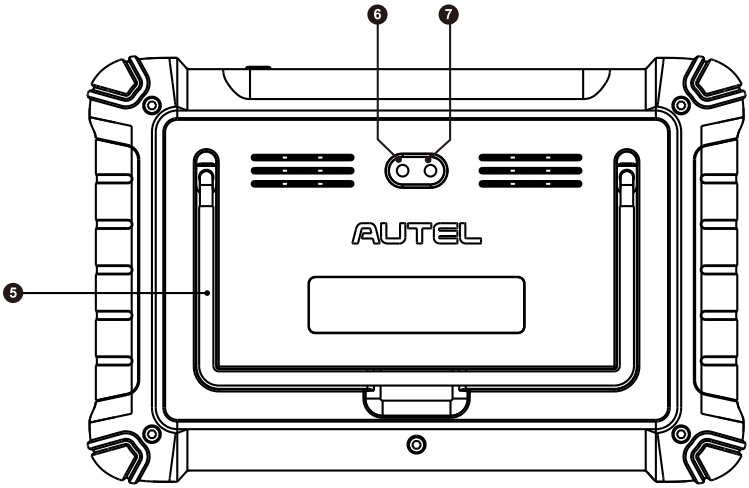


Figure 2-2 ***Tablet Back View***

5. Collapsible Stand — extends from the back to allow hands-free viewing of the tablet.
6. Rear Camera
7. Camera Flash



Figure 2-3 *Tablet Top View*

8. USB Type-C Charging Port
9. Mini SD Card Slot
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 7 hours of continuous operation.

2.1.2.2 External Power Supply

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

2.1.3 Technical Specifications

Table 2-1 *Specifications*

Item	Description
Recommended Use	Indoor
Operating System	Android 11
Processor	Quad-core processor
Memory	4 GB RAM & 64 GB ROM
Display	8-inch LCD screen with 1280 x 800 resolution
Rear Camera	8 MP
Connectivity	● USB Type-C ● USB 2.0 ● Wi-Fi ● Bluetooth ● Mini SD card (supports up to 64 GB)
Sensor	Ambient light sensor for brightness auto changing
Audio Input/Output	● Input: N/A ● Output: buzzer
Power and Battery	● 3.7 V/7700 mAh lithium-polymer battery ● Charges via 5 V DC power supply
Tested Battery Life	Around 7 hours of continuous use
Battery Charging Input	5 V/3 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

Item	Description
Dimensions (W x H x D)	259.87 mm (10.23”) x 168.98 mm (6.65”) x 33.60 mm (1.32”)
Net Weight	998 g (2.2 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, DoIP, CAN FD

2.2 MaxiVCI V150

MaxiVCI V150 is a small vehicle communication interface (VCI) that wirelessly connects to the tablet vehicle’s data link connector (DLC) for vehicle data transmission.

2.2.1 Function Description

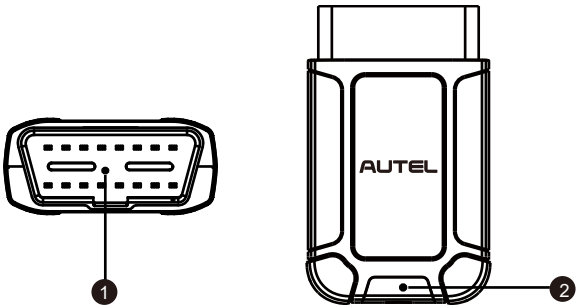


Figure 2-4 *MaxiVCI V150 Views*

1. Vehicle Data Connector (16-Pin) — connects the MaxiVCI V150 to the vehicle’s 16-pin DLC directly.
2. Power/Connection LED — refers to *Table 2-2 Power/Connection LED* on page 8 for details.

Table 2-2 *Power/Connection LED*

LED	Color	Description
Power/Connection	Green	Lights solid green when powered on.
	Blue	Lights solid blue when the device is successfully connected via Bluetooth but is not communicating with the vehicle.
	Flashing Blue	Flashes blue when the device is successfully connected via Bluetooth and is communicating with the vehicle.
	Red and Blue/Red and Green	Lights solid red and blue (connected via Bluetooth) or solid red and green (not connected) when there is something abnormal.
	Flashing Red	Flashes red when the firmware is updating.

2.2.2 Power Source

The MaxiVCI V150 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.

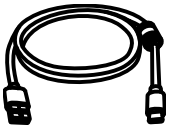
2.2.3 Technical Specifications

Table 2-3 *Specifications*

Item	Description
Communication	BR + EDR
Wireless Frequency	2.4 GHz
Input Voltage Range	8 to 30 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)

Item	Description
Dimensions **(W x H x D)**	46.8 mm x 77.47 mm x 21.38 mm (1.84” x 3.05” x 0.84”)
Weight	51.5 g (0.11 lbs)

2.3 Other Accessories

	**External Power Adapter** Together with the USB Type-C cable, connects the tablet to the external DC power port for power supply.
	**USB Type-C Cable (for charging)**

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 MaxiPRO Job Menu.



Figure 3-1 ***MaxiPRO 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.

Table 3-1 *Applications*

Button	Name	Description
	**Diagnostics**	Accesses diagnostic functions menu. See *Diagnostics* on page 16 for details.
	**Service**	Accesses special functions menu. See *Service* on page 53 for details.
	**TPMS**	Accesses the TPMS service program. See *TPMS* on page 58 for details.
	**ToolKit**	Accesses auxiliary functions menu for TPMS service. See *ToolKit* on page 89 for details.
	**TPMS Retrofit**	Allows TPMS to be installed on vehicles. See *TPMS Retrofit* on page 90 for details.
	**VCI Manager**	Pairs the tablet and MaxiVCI V150. Checks the communication status and updates the VCI firmware. See *VCI Manager* on page 92 for details.
	**Settings**	Accesses the MaxiPRO system settings menu and general tablet menu. See *Settings* on page 95 for details.

Button	Name	Description
	**Update**	Checks for the latest update available for the MaxiPRO system and installs new software. See *Update* on page 101 for details.
	**Battery Test**	Accesses the Battery Test menu with two functions, including in-vehicle test and out-of-vehicle test. See *Battery Test* on page 104 for details.
	**Data Manager**	Accesses the organization system for saved data files. See *Data Manager* on page 116 for details.
	**Remote Desktop**	Configures the unit to receive remote support using the TeamViewer application. See *Remote Desktop* on page 125 for details.
	**OEM Authorization**	Unlocks the gateway ECU (CGW) for some vehicles to perform advanced diagnostics tests. See *OEM Authorization* on page 127 for details.
	**Support**	Launches the Support platform which synchronizes Autel's on-line service base station with the MaxiPRO tablet. See *Support* on page 128 for details.
	**MaxiViewer**	Provides quick search for the supported functions and vehicles of Autel diagnostic tools. See *MaxiViewer* on page 131 for details.
	**MaxiVideo**	Configures the unit to operate as a video scope device by connecting to an imager head cable for close vehicle inspections. See *MaxiVideo* on page 132 for details.
	**Quick Link**	Provides associated website bookmarks to allow quick access to product update, service, support, and other information. See *Quick Link* on page 133 for details.

Button	Name	Description
	**MaxiTools**	Includes log collection and factory data reset two parts.
	**Autel User Center**	Allows you to register an account, view and edit your personal profile and link your device. See *Autel User Center* on page 134 for details.

3.1.2 Locator and Navigation Buttons

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

Table 3-2 *Locator and Navigation Buttons*

Button	Name	Description
	**Locator**	Indicates which screen you are on. Swipe the screen left or right to view the previous or next screen.
	**Back**	Returns to the previous screen.
	**MaxiPRO Home**	Returns to the MaxiPRO Job Menu from other operations.
	**Android Home**	Returns to the Android system's Home screen.
	**Recent Apps**	Displays a list of applications that are currently in use. Tap an app icon to launch. Close a running application by swiping it to the top. Or close all running applications by tapping **Clear All**.
	**Chrome**	Launches the Google Chrome browser.
	**Camera**	Tap the **Camera** icon to open camera viewfinder. Press and hold the icon to take a screenshot of the display screen. The saved files are auto-stored in the Data Manager application for later review. See *Data Manager* on page 116 for details.

Button	Name	Description
	**Display Brightness**	Supports the display brightness automatically or manually adjustment.
	**VCI Manager Shortcut**	Opens the VCI Manager application. The BT 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.
	**Service Shortcut**	Returns to the Service screen.
	**TPMS Shortcut**	Returns to the TPMS screen.

➢ **To use the camera**

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

NOTE

After swiping the camera screen from left to right, the camera mode and video mode can be switched by tapping the **Camera** icon or **Video** icon.

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 reboot 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 V150.

4.1.1 Vehicle Connection

To connect the MaxiVCI V150 to the test vehicle, insert the vehicle data connector on the MaxiVCI V150 into the vehicle's DLC which is usually located under the vehicle dashboard, and the MaxiVCI V150 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/Connection LED on the MaxiVCI V150 will light solid green when properly connected to the vehicle and be ready to establish communication with the tablet.

The wireless diagnostic interface MaxiVCI V150 can be connected to the tablet via Bluetooth pairing, which does not need to repeat the plugging and unplugging procedure that is unavoidable when using traditional wired connection, saving more time and providing higher efficiency. The working range for Bluetooth communication is about 328 feet (100 m), enabling remote vehicle diagnostics. To establish a proper vehicle communication between the tablet and test vehicle, you can perform the following steps:

1. Connect the MaxiVCI V150 to the vehicle's DLC for both communication and power supply.
2. Connect the MaxiVCI V150 to the tablet via Bluetooth pairing.

A BT badge will display at the bottom-right corner of the VCI Manager shortcut, which means the communication of MaxiVCI V150 and MP900-TS tablet has been established, and the tablet is ready to start vehicle diagnosis.

Refer to *VCI Bluetooth Pairing* on page 93 for details.

4.1.3 No Communication Message

A. If the tablet is not connected to the MaxiVCI V150 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 V150 is powered up.
- Check if the MaxiVCI V150 is properly positioned.
- Check if the Power/Connection LED on the MaxiVCI V150 is illuminated for Bluetooth connection.
- Check that the network is configured correctly or that the right MaxiVCI V150 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 V150 to obtain more stable signals and faster communication speed.
- Check if the Power/Connection LED on the MaxiVCI V150 lights solid red and blue (connected via Bluetooth) or solid red and green (not connected) when there is something abnormal, and if so, it indicates there is something abnormal with the MaxiVCI V150. In this case, contact technical support for help.

B. If the MaxiVCI V150 is unable to establish a communication link, a prompt message displays with check instructions. The following conditions are the possible causes:

- The MaxiVCI V150 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 tablet via the MaxiVCI V150.

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 MaxiPRO Job Menu to access the Vehicle Menu.



Figure 4-1 ***Vehicle Menu***

1. Top Toolbar Buttons
2. Vehicle Manufacturer Buttons

4.2.1.1 Top Toolbar Buttons

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

Table 4-1 *Top Toolbar Buttons*

Button	Name	Description
	**Home**	Returns to the MaxiPRO Job Menu.
	**VID**	Provides a fast way to identify the test vehicle. See *Vehicle Identification* on page 20 for details.
	**All**	Displays all the vehicle manufacturers.
	**Favorites**	Adds your preferred vehicle manufacturers into favorites.
	**History**	Displays the saved history records. See *Vehicle History* on page 117 for details.
	**America**	Displays vehicles from American manufacturers.
	**Europe**	Displays vehicles from European manufacturers.
	**Asia**	Displays vehicles from Asian manufacturers.
	**China**	Displays vehicles from Chinese manufacturers.
	**Search**	Tap the search field to show a virtual keyboard and enter a vehicle manufacturer name.
	**Cancel**	Tap to exit the search screen or cancel an operation.

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 MaxiPRO diagnostics system supports five methods for vehicle identification:

1. Auto Detect
2. Manual Input
3. Scan VIN/License
4. Automatic Selection
5. Manual Selection

4.3.1 Auto Detect

The MaxiPRO 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.

➢ **To perform Auto Detect**

1. Tap the **Diagnostics** application button from the MaxiPRO 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*

3. 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.



Figure 4-3 *Auto Detect Screen*

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



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.

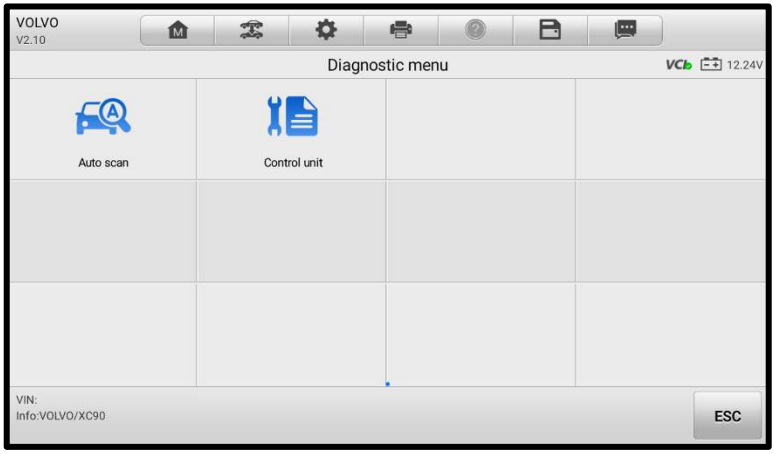


Figure 4-5 ***Diagnostic Menu Screen***

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 MaxiPRO 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.



Figure 4-6 *Manual Input Screen*

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

4.3.3 Scan VIN/License

MaxiPRO diagnostic tablet also supports Scan VIN/License function. Enabling this function will automatically turn on the camera. With the help of the camera system, the vehicle's VIN or license number can be easily recognized.

NOTE

The method of scan license is supported in some countries and areas. Please manual input the license number if it is not available.

➢ **To perform Scan VIN/License**

1. Tap the **Diagnostics** application button from the MaxiPRO Job Menu. The Vehicle Menu displays.
2. Tap the **VID** button on the top toolbar to open the dropdown list.
3. Select **Scan VIN/License**.
4. The camera will be turned on. On the right side of the screen, from top to bottom, three options are available: **Scan QR Code/Barcode, Scan VIN, and Scan License Number**.

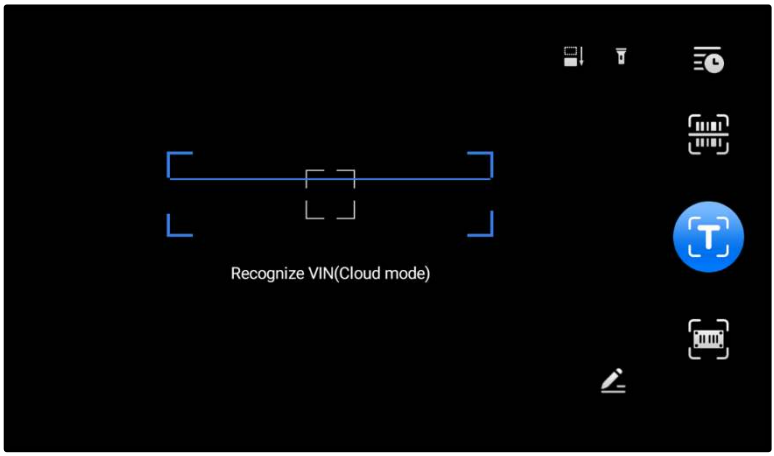


Figure 4-7 ***Scan VIN/License 1***

5. Select one of the three options and position the tablet to align the VIN, or license number, or the barcode within the scanning window. The scan result will display in the dialog box of the Recognition Result screen. Tap **OK** to confirm the result, and then the vehicle information confirmation screen will display on the tablet.

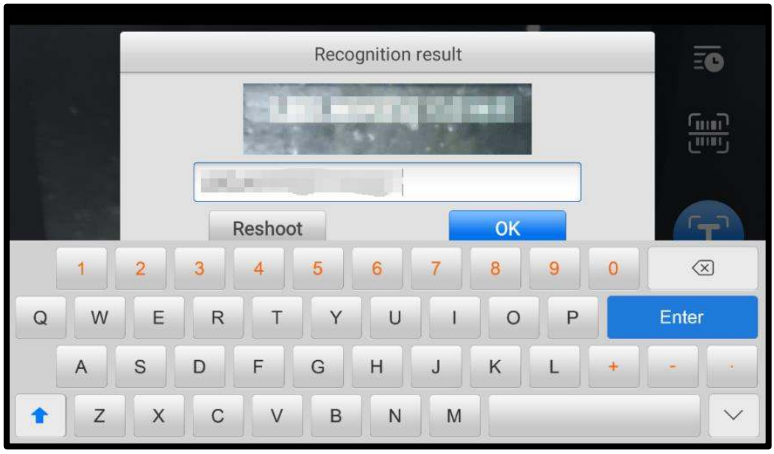


Figure 4-8 ***Scan VIN/License 2***

6. If the VIN, or license number, or barcode cannot be scanned, you can input manually. Tap the button on the bottom-right corner of the screen to display the screen for manually input. (The illustration below is the Enter VIN screen.) After entering correct VIN, tap **OK** to continue.

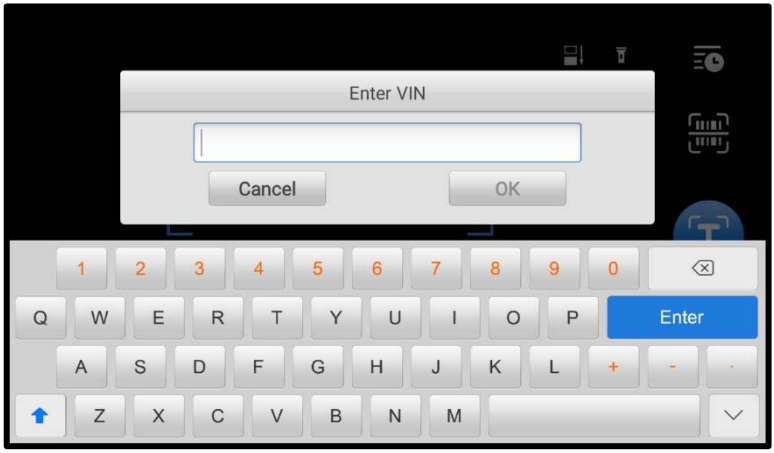


Figure 4-9 *Enter VIN Screen*

4.3.4 Automatic Selection

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

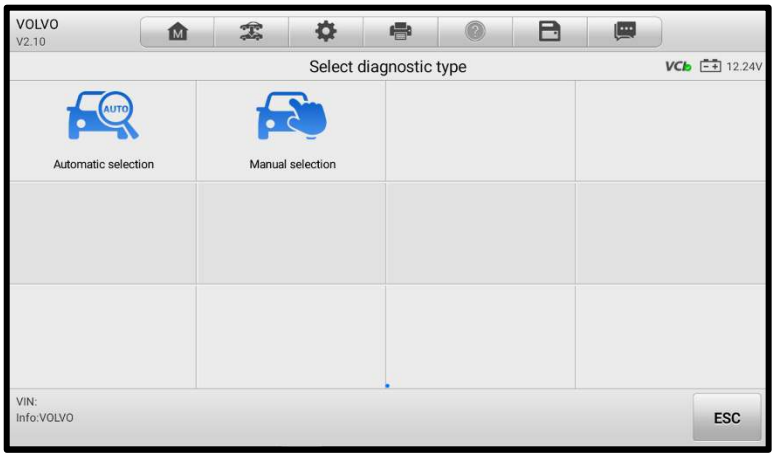


Figure 4-10 *Selection Screen*

➢ **To perform Automatic Selection**

1. Tap the **Diagnostics** application button from the MaxiPRO 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 instructions to complete the operation and advance to the Diagnostic Menu screen.

4.3.5 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

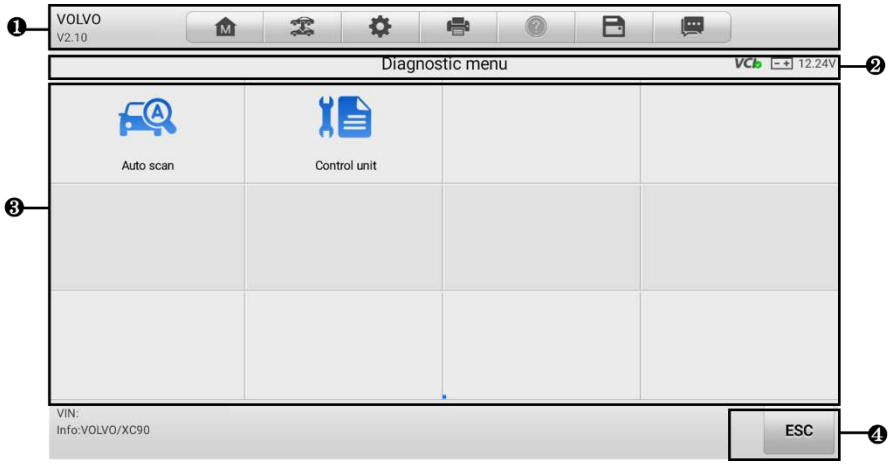


Figure 4-11 ***Diagnostic Menu Screen***

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.

Table 4-2 *Diagnostics Toolbar Buttons*

Button	Name	Description
	**Home**	Returns to the MaxiPRO 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 *Settings* on page 95 for details.
	**Print**	Prints a copy of the displayed data. See *Printing Settings* on page 96 for details.
	**Help**	Displays instructions for operations.
	**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 116 for details.
	**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 *Data Logging* on page 124 for details.

➢ **To print data in Diagnostics**

1. Tap the **Diagnostics** application button from the MaxiPRO 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 MaxiPRO 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 are 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 will display 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. Once a selection has been made, the next menu in the series is displayed. 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 codes and live data from various vehicle control systems like engine, transmission, and ABS.

There are two options available when accessing the diagnostic function:

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 screen is pictured as below.

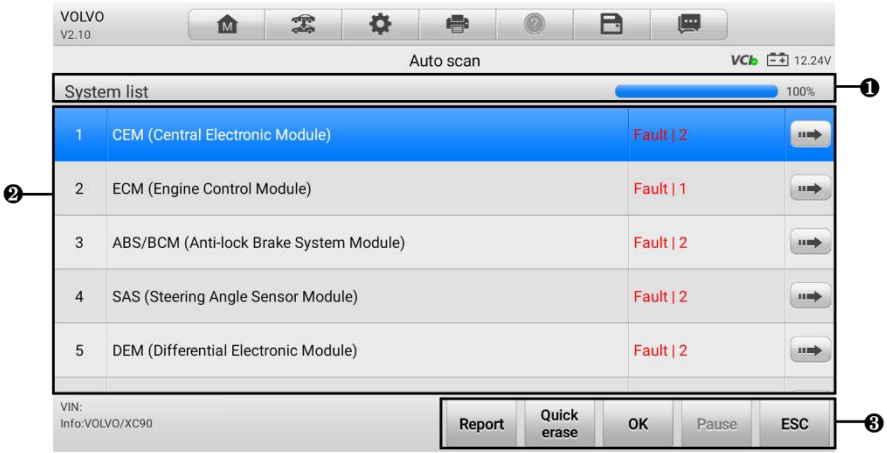


Figure 4-12 *Auto Scan Screen*

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:

- **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.
- **Not Scanned**: Indicates the system has not been scanned or the tablet is unable

to access this system.

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.

Table 4-3 *Function Buttons in Auto Scan*

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.
OK	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.

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

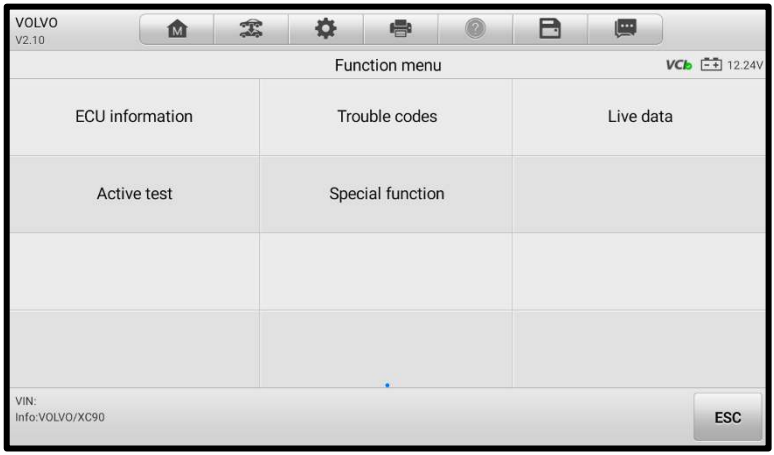


Figure 4-13 ***Function Menu Screen***

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, and 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.

NOTE

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. Locate the required system for testing by tapping **Auto Scan** or through menu-driven selections in **Control Unit**.
4. Select the desired diagnostic function from the Function Menu screen.

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.



Figure 4-14 *ECU Information Screen*

1. Diagnostics Toolbar Buttons — see *Table 4-2 Diagnostics Toolbar Buttons* on page 27 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.

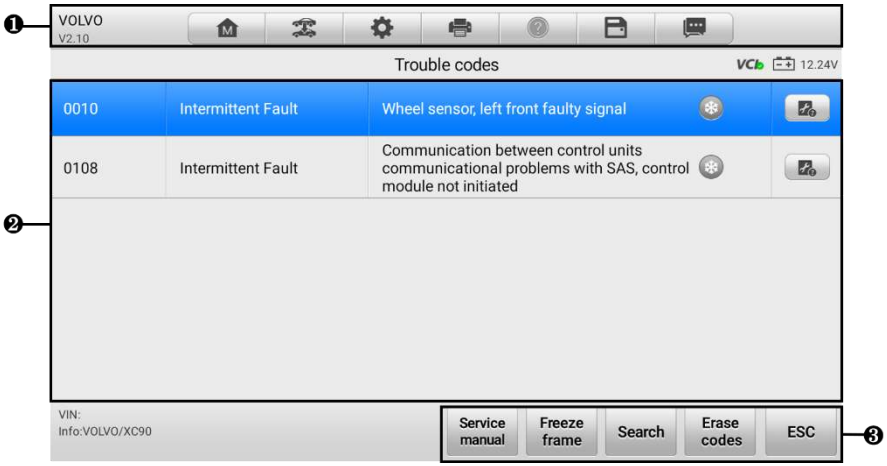


Figure 4-15 *Trouble Codes Screen*

1. Diagnostics Toolbar Buttons — see *Table 4-2 Diagnostics Toolbar Buttons* on page 27 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 — tap to display 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.

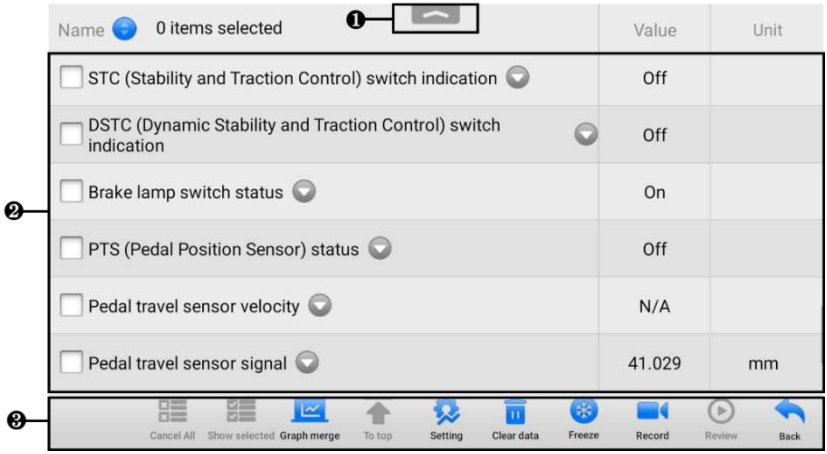


Figure 4-16 ***Live Data Screen***

1. Diagnostics Toolbar Buttons — tap the drop-down button at the top center of the screen and the diagnostic toolbar buttons display. See *Table 4-2 Diagnostics Toolbar Buttons* on page 27 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 submenu, providing data display mode options.
- Value Column — displays the values of the parameters.
- Unit Column — displays the unit for the parameters (Tap the **Settings** button on the diagnostic toolbar and select a required mode. See *Unit* on page 95 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).

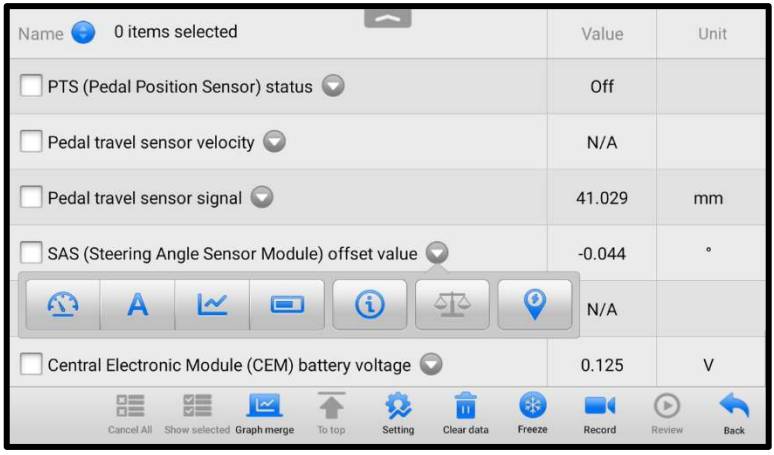


Figure 4-17 *Display Mode Screen*

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.

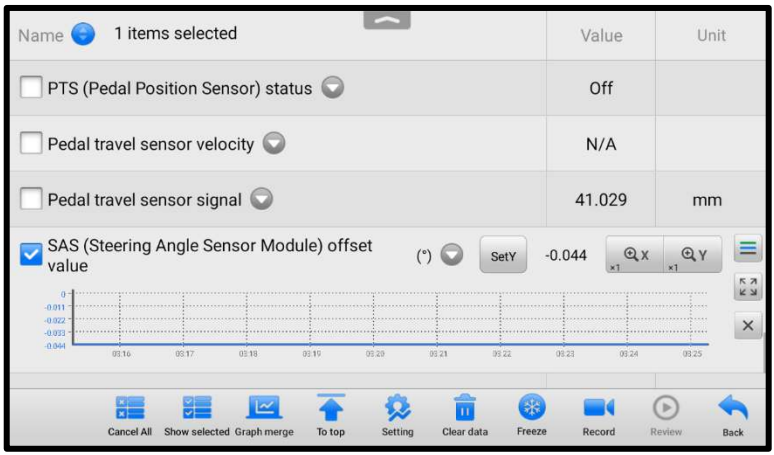


Figure 4-18 *Waveform Graph Mode Screen*

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.

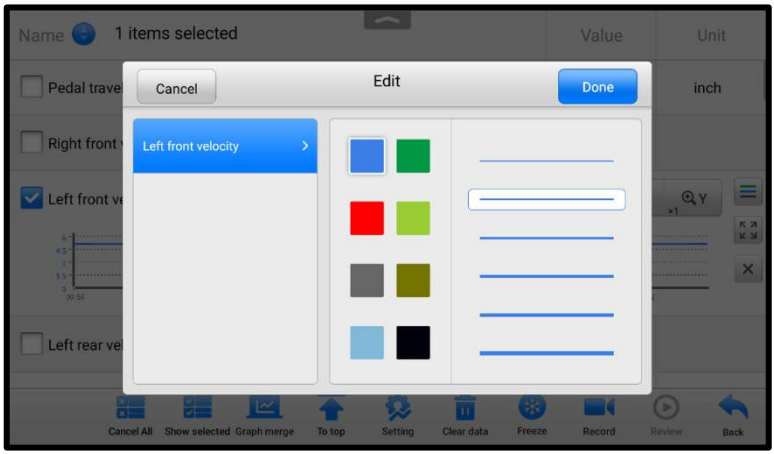


Figure 4-19 ***Waveform Edit Screen***

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.

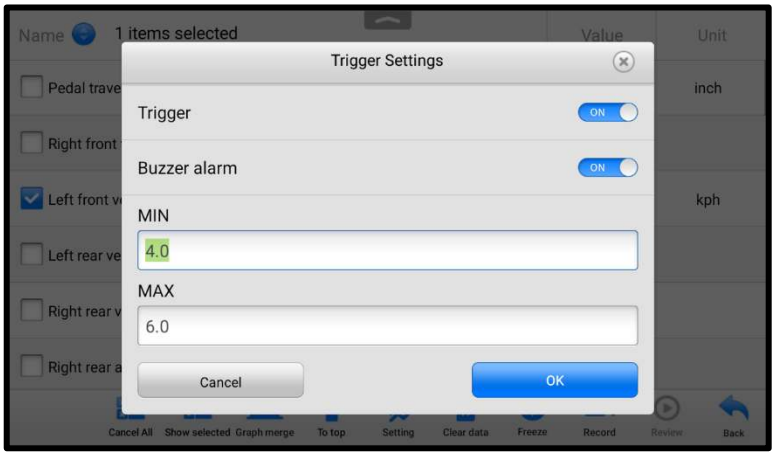


Figure 4-20 *Trigger Settings Screen*

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 will display 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.
2. 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.

NOTE

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.

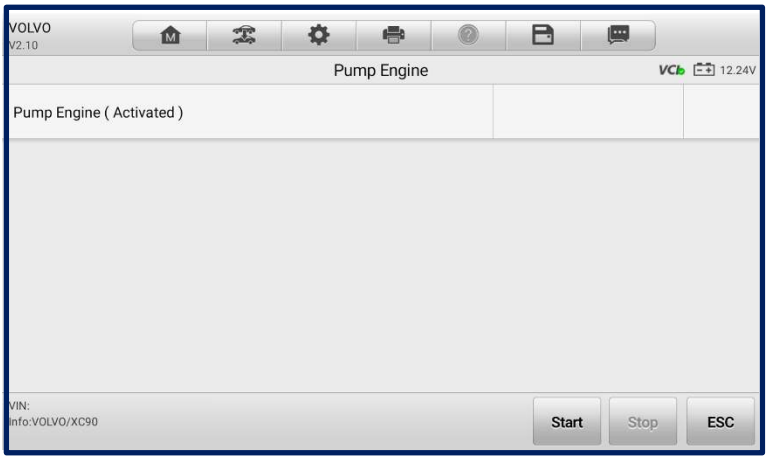


Figure 4-21 ***Active Test Screen***

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.

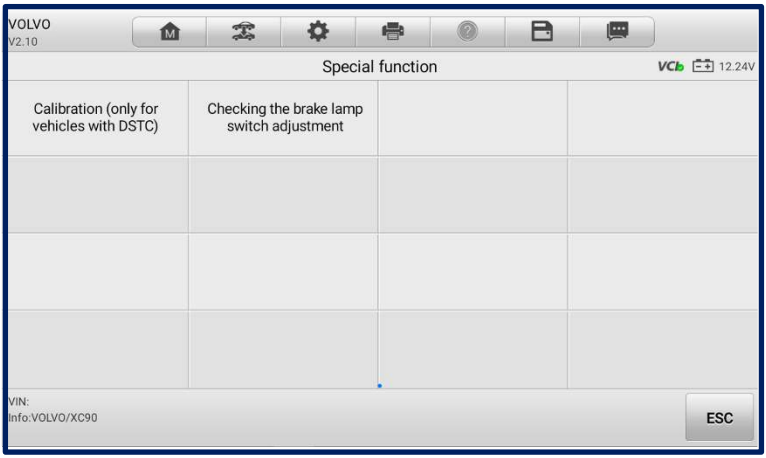


Figure 4-22 *Special Function Screen 1*

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

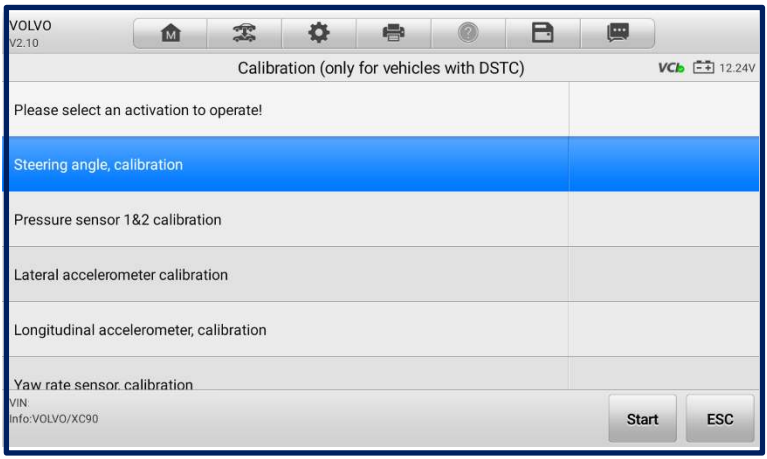


Figure 4-23 *Special Function Screen 2*

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 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 27 for details.

4.7.1 General Procedure

➢ **To access the OBDII/EOBD diagnostics functions**

1. Tap the **Diagnostics** application button from the MaxiPRO 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.

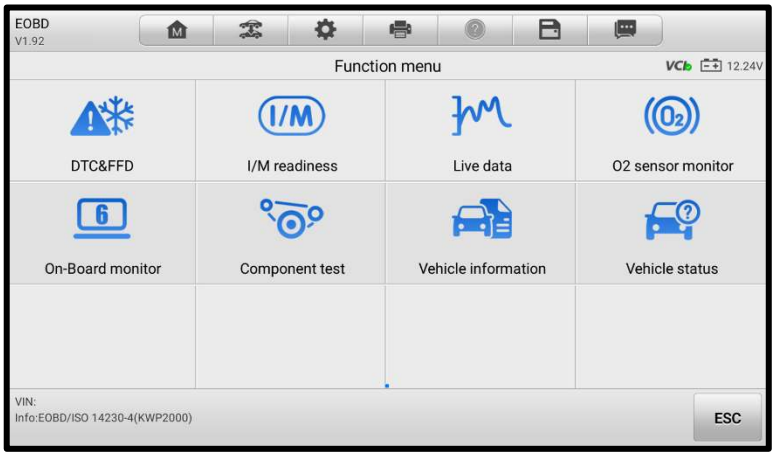


Figure 4-24 *OBDII Diagnostic Menu*

4. Select a function to continue.
   - **DTC & FFD**
   - **I/M Readiness**
   - **Live Data**
   - **O2 Sensor Monitor**
   - **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.

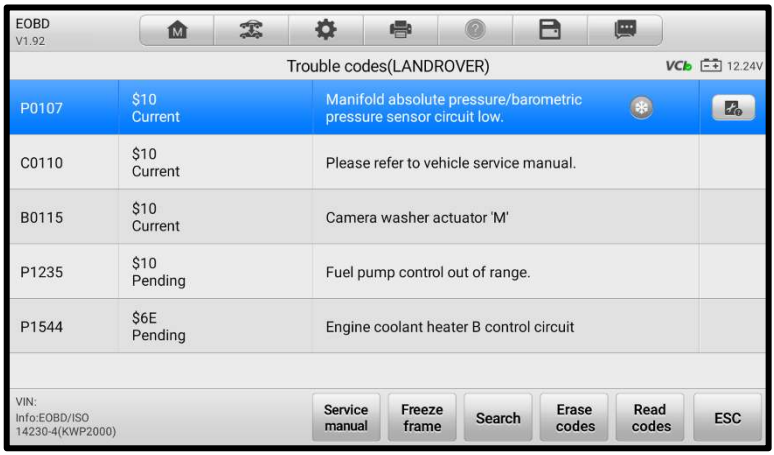


Figure 4-25 *DTC & FFD Screen*

- **Current Codes**

  Current 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.

  b) 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 35 for detailed information.

4.7.2.4 O2 Sensor Monitor

This function allows you to access to the oxygen sensor information, including the characteristic parameters and the test results of some evaluation indexes. However, the OBD system using the CAN communication protocol does not support this function, and the relevant information will be output in the On-Board monitor.

4.7.2.5 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.

4.7.2.6 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.

4.7.2.7 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.

4.7.2.8 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 Diagnostic Reports

4.8.1 Pre-Scan and Post-Scan Functions

After performing pre-scan and post-scan functions by entering the same maintenance order number, tap **Data Manager** > **Vehicle History** to select the historical test record named with the maintenance order number. Both the pre-scan results and post-scan results will be displayed in the same historical test record, which can be generated as a PDF report for easily comparing the changes between pre-scan and post-scan.

- **Pre-Scan Function**

  Select and tap a vehicle button from the Vehicle Menu screen. Enter the maintenance order number in the pop-up box to scan and detect the whole vehicle. You can also add pictures to record the current condition of the vehicle. Once the pre-scan is completed, you are not allowed to perform pre-scan again, and the scan result cannot be modified.

- **Post-Scan Function**

  After the pre-scan is complete, exit the current test vehicle and tap the vehicle button from the Vehicle Menu screen to reconnect again. Enter the same maintenance order number in the pop-up box. The screen for post-scan will display. The post-scan record will be generated when the scan is completed. The pre-scan results and post-scan results will be displayed in the same historical test record.

NOTE

The post-scan function can be performed repeatedly. After exiting the vehicle, you only need to tap the vehicle button from the Vehicle Menu screen to reconnect again, then enter the same maintenance order number in the pop-up box and follow the steps to rescan. The last post-scan result is the final one.

4.8.2 Diagnostics Report Saving, Viewing, and Sharing

The diagnostic report can be reviewed, saved, and shared with others through many ways.

4.8.2.1 Diagnostics Report Saving

- Via the **History** function

  1) Enter the main screen of the Diagnostics application, and tap **History** on the top toolbar.

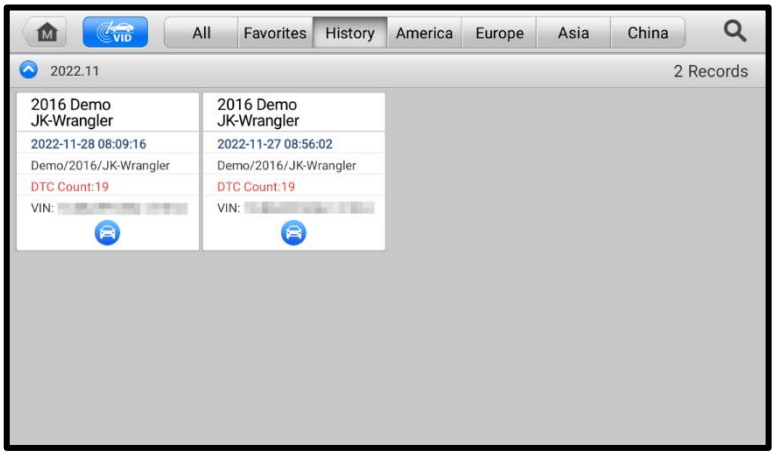


Figure 4-26 *History Screen*

  2) Select a history record, and tap the ••• button on the upper-right corner.

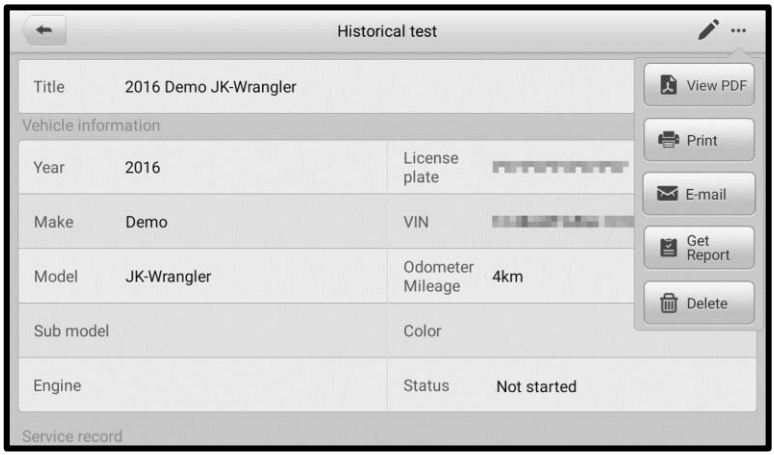


Figure 4-27 *Historical Test Screen*

3) Tap **Get Report**. Enter the license plate and current mileage. Tap **Save**.

- Via the functions on the Diagnostics Toolbar

  The diagnostic report can also be viewed from such diagnostics functions screen including Auto scan, Trouble codes, Live data, and Active test. There are two ways to view the saved reports:

  ✧ Tap the button in the diagnostics toolbar and select **Save All Data**. Enter the license number and tap **Save**. Tap the button on the upper-right of the screen to view the report.

  ✧ Tap the button in the diagnostics toolbar and select **Save Report**. Enter the license plate and current mileage. Tap **Save** > **View Report** and then select a saved report to view.

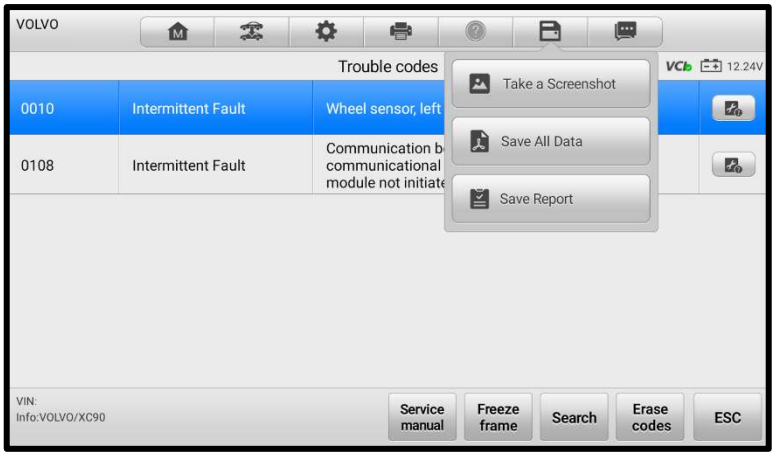


Figure 4-28 ***Trouble Codes Screen***

4.8.2.2 Diagnostics Report Viewing

All the saved reports can be viewed in the Data Manager application.

✧ Tap **Data Manager** > **Vehicle History**. Select a specific vehicle history record and then tap **View PDF** in the upper-right corner to view the report.

✧ Once you saved the reports by tapping the **Save All Data** button, tap **Data Manager** > **PDF** to view these reports.

✧ Once you saved the reports by tapping the **Get Report** or **Save Report** button, tap **Data Manager** > **Cloud Report** to view these reports.

4.8.2.3 *Diagnostics Report Cloud Sharing*

1. Tap **Data Manager** > **Cloud Report** to enter the Report List screen.

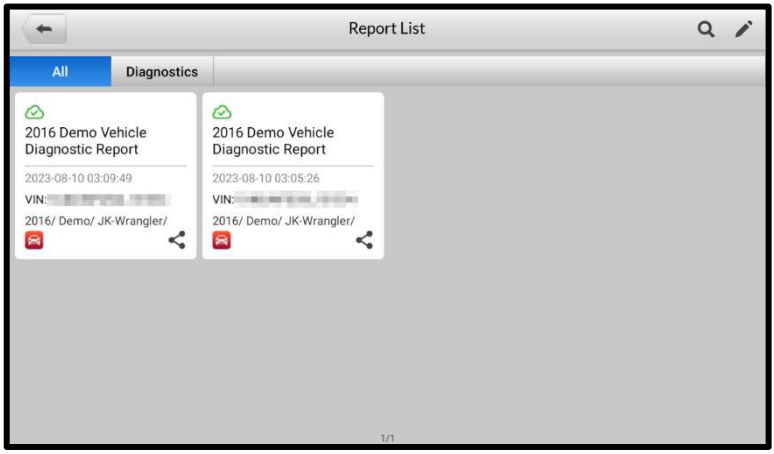


Figure 4-29 ***Report List 1***

2. Tap on the report that displays, then select **Report Cloud Sharing**.

NOTE

Note that if the report displays, it means the report has been uploaded to the cloud successfully, and you can share the report with others; if the report displays, it means the report has failed to upload to the cloud, but will try to automatically upload to the cloud when entering the Report again.



Figure 4-30 ***Report List 2***

3. There are three ways for report cloud sharing: scan the QR code, send by email, or send by SMS (via phone number).

4.9 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 MaxiPRO Home Menu.

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

NOTE

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

1. Autel accepts no responsibility for any accident or injury arising from servicing the SAS system. When interpreting DTCs retrieved from the vehicle, always follow the manufacturer's recommendation for repair.
2. All software screens shown in this manual are examples, actual test screens may vary by test vehicle. Pay attention to the menu titles and 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.

NOTE

1. The DPF will not regenerate if the engine management light is on, or there is a faulty EGR valve.
2. The ECU must be re-adapted when replacing the DPF and when topping up the fuel additive Eolys.
3. If the vehicle needs to be driven in order to perform a DPF service, a second person is needed for the function. One person should drive the vehicle while the other person observes the screen on the Tool. Do not attempt to drive and observe the scan tool at the same time. This is dangerous and puts your life and the lives of other 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 supports TPMS sensors including BLE sensors which are compatible with Tesla vehicles. Relying on this application, you can 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 MaxiPRO Job Menu. The Vehicle Menu displays. Select a specific vehicle to perform TPMS service. A TPMS icon displays on the vehicle manufacturer button indicating the TPMS service is available.



Figure 6-1 ***TPMS Vehicle Menu Screen***

1. Top Toolbar Buttons

Table 6-1 ***Top Toolbar Buttons***

Button	Name	Description
	**Home**	Returns to the MaxiPRO Job Menu.
	**VID**	Provides a fast way to identify the test vehicle. See *Vehicle Selection* on page 59 for details.

Button	Name	Description
History	**History**	Displays the stored test vehicle history records. See *Vehicle History* on page 117 for details.
North America	**Market**	Tap the drop-down button to select the correct market, then the vehicle manufacturer icons of the selected market will be displayed. *Note: Please double check whether the market is selected correctly if the vehicle cannot be found.*
	**Search**	Searches for a specific vehicle make.

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

OEM Part NO.

Refer to *TPMS by OEM Part NO.* on page 84 for details.

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 Connecting Tablet to Vehicle

Prior to performing TPMS function, you need to connect the tablet to vehicle. For how to establish a connection between the tablet and vehicle, see *Establishing Vehicle Communication* on page 16 for details.

6.3 Vehicle Selection

There are five accesses to identify the test vehicle:

- Auto Detect
- Manual Input
- Scan VIN/License
- Automatic Selection
- Manual Selection

6.3.1 Auto Detect

For vehicles supporting the Auto Detect function, you can acquire the VIN information to quickly identify the exact vehicle with just one tap.

➢ **To perform Auto Detect in TPMS application**

1. Tap the **TPMS** application button from the MaxiPRO 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 corner of the screen 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.

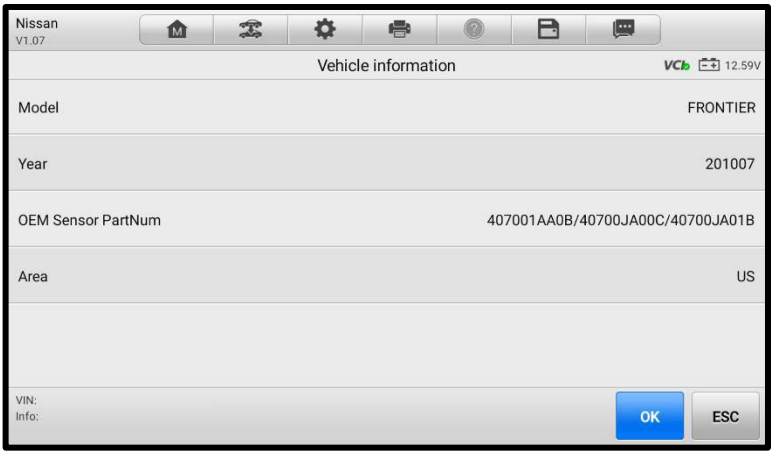


Figure 6-4 *Vehicle Information in TPMS Application*

5. The TPMS Service screen will display. See *Figure 6-14 TPMS Service Screen*.

6.3.2 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 MaxiPRO 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 screen. See *Figure 6-14 TPMS Service Screen*.

6.3.3 Scan VIN/License

MaxiPRO tablet also supports identifying the vehicle by scanning its VIN or license number. Using this vehicle identification method will automatically turn on the camera system.

➢ **To perform Scan VIN/License in TPMS application**

1. Tap the **TPMS** application button from the MaxiPRO Job Menu. The Vehicle Menu displays.
2. Tap the **VID** button on the top toolbar to open the dropdown list.
3. Select **Scan VIN/License**.

4. The camera will be turned on. On the right side of the screen, from top to bottom, three options are available: **Scan QR Code/Barcode**, **Scan VIN**, **and Scan License Number**. See *Figure 4-7 Scan VIN/License 1*.
5. Select one of the three options and position the tablet to align the VIN, or license number, or the barcode within the scanning window. The scan result will display in the dialog box of the Recognition Result screen. (See *Figure 4-8 Scan VIN/License 2*.) Tap **OK** to confirm the result, and then the vehicle information confirmation screen will display on the tablet.
6. If the VIN, or license number, or barcode cannot be scanned, you can input manually. Tap the button on the bottom-right corner of the screen to display the screen for manually input. After entering correct VIN or license number, tap **OK** to continue.
7. Follow the on-screen instructions to complete the operation and advance to the TPMS Service screen. See *Figure 6-14 TPMS Service Screen*.

6.3.4 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 MaxiPRO Job Menu. The Vehicle Menu displays.
2. Select a vehicle brand from the TPMS Vehicle Menu screen.



Figure 6-6 *Vehicle Manufacturer Selection*

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

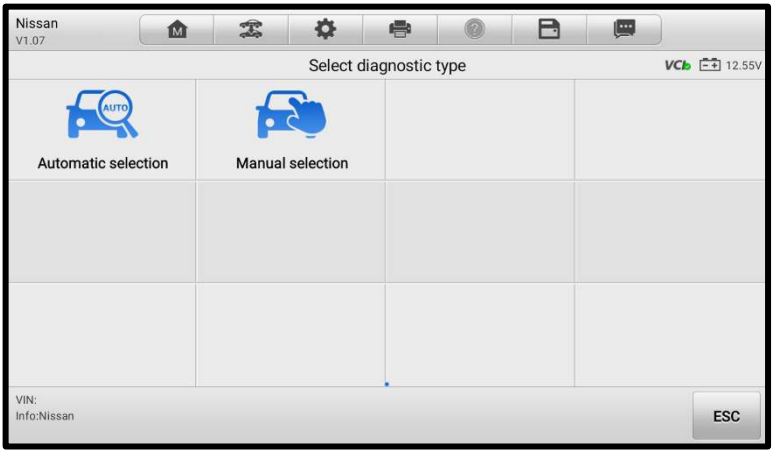


Figure 6-7 ***Selection Screen in TPMS Application***

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*.

6.3.5 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 MaxiPRO Job Menu. The Vehicle Menu displays.
2. Select a vehicle brand from the TPMS Vehicle Menu 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.



Figure 6-9 ***Vehicle Model Selection***

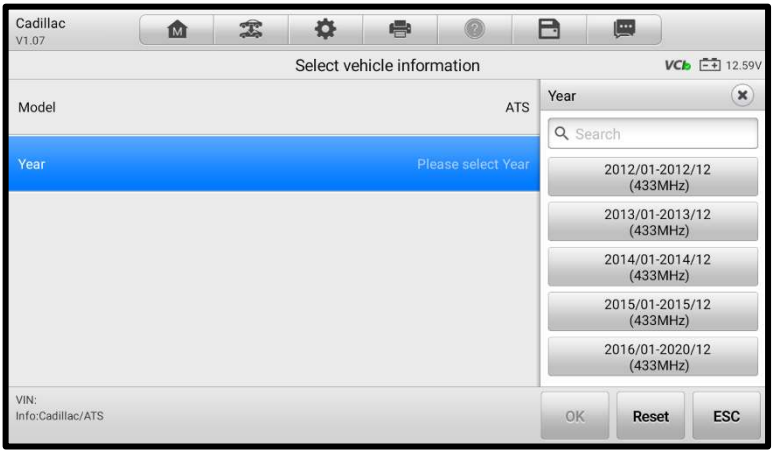


Figure 6-10 ***Vehicle Year Selection***

The following screen may display for vehicles using **Indirect TPMS**.

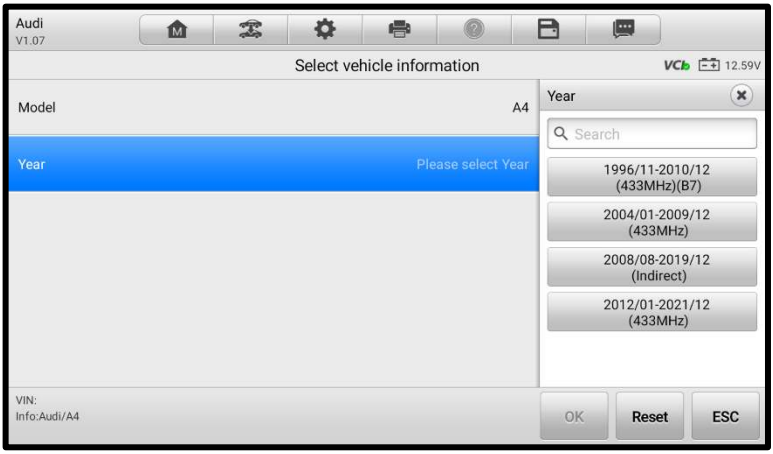


Figure 6-11 ***Indirect TPMS Selection Screen***

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.

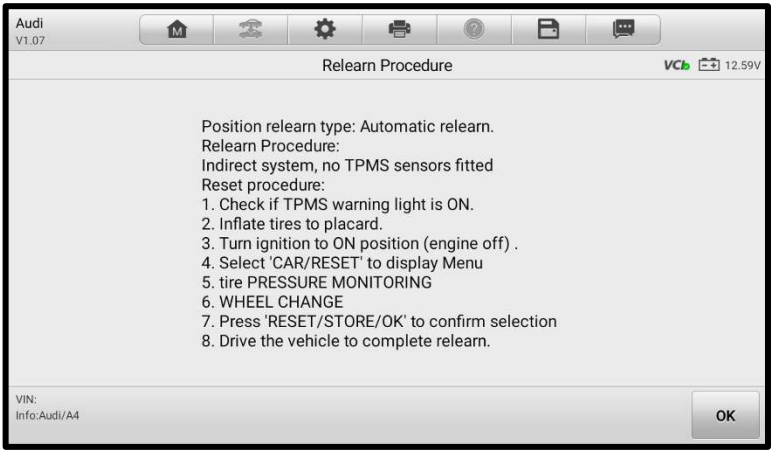


Figure 6-12 ***Relearn Procedure for Indirect TPMS***

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

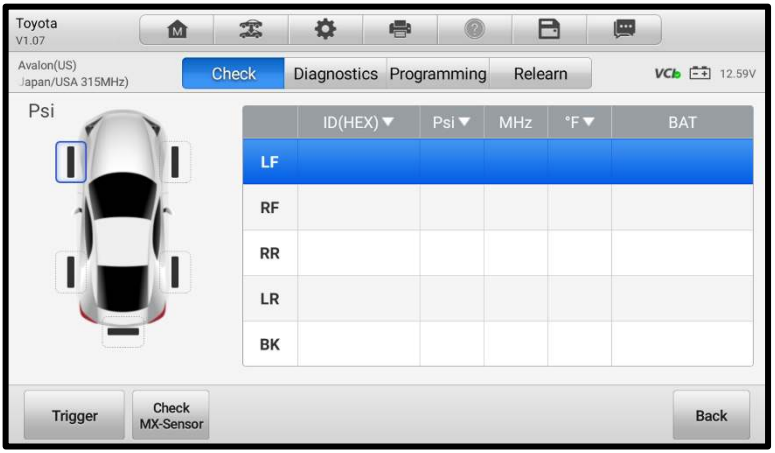


Figure 6-13 *TPMS Service Screen*

6.4 TPMS Service Screen Layout

The TPMS Service screen typically includes four sections:

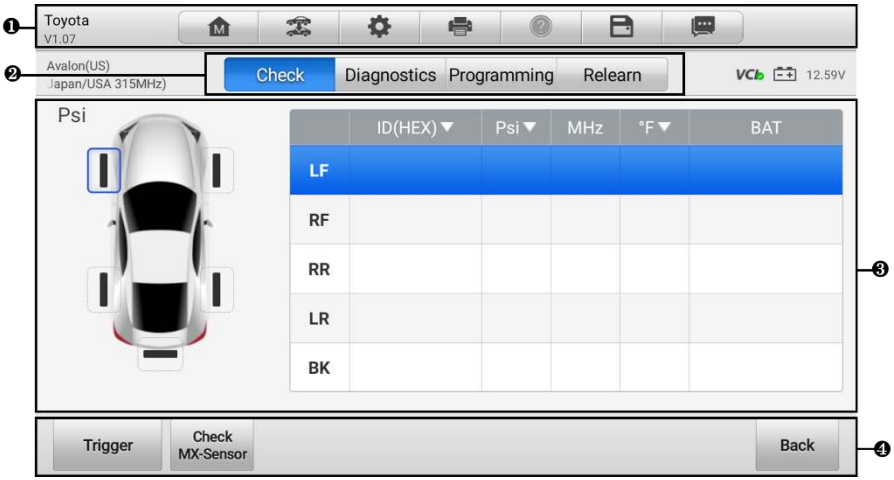


Figure 6-14 *TPMS Service Screen*

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

6.4.1 Top Toolbar Buttons

The top toolbar contains a number of buttons. See *Table 4-2 Diagnostics Toolbar Buttons* on page 27 for details.

6.4.2 Navigation Tab

The navigation tab at the top of the main section 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.

6.4.3 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.

6.4.4 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.

6.5 TPMS Check

The sensor check function allows the activation of TPMS sensor to view sensor data such as sensor ID, tire pressure, sensor frequency, tire temperature, sensor battery, and sensor position. 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.

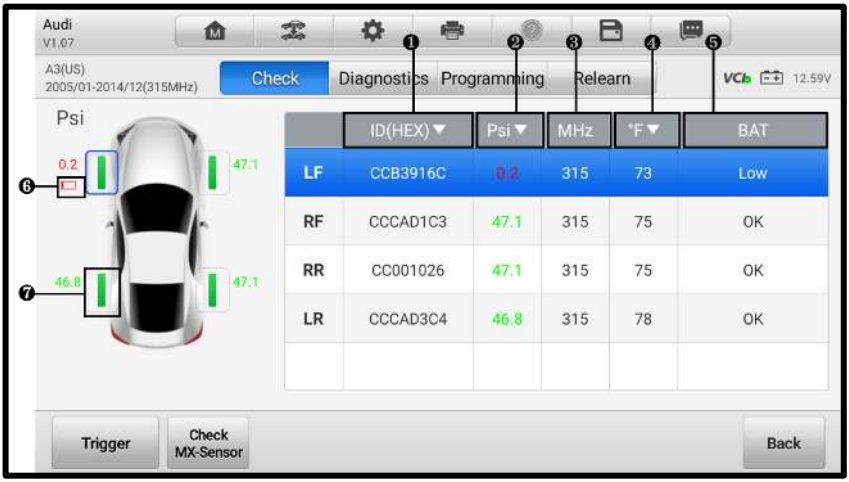


Figure 6-15 *Check Screen*

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

NOTE

1. 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 drop-down button  on the table header to 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 part of the tablet marked with 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 70 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*

Icon	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.

6.6 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.

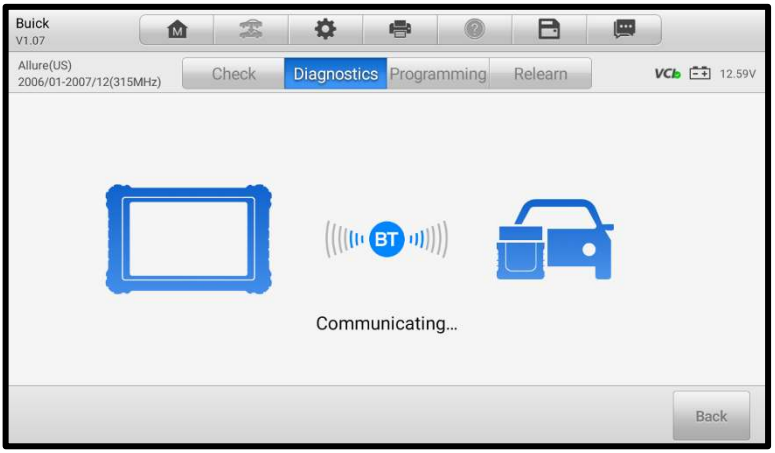


Figure 6-16 *Diagnostics Communication Screen*

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

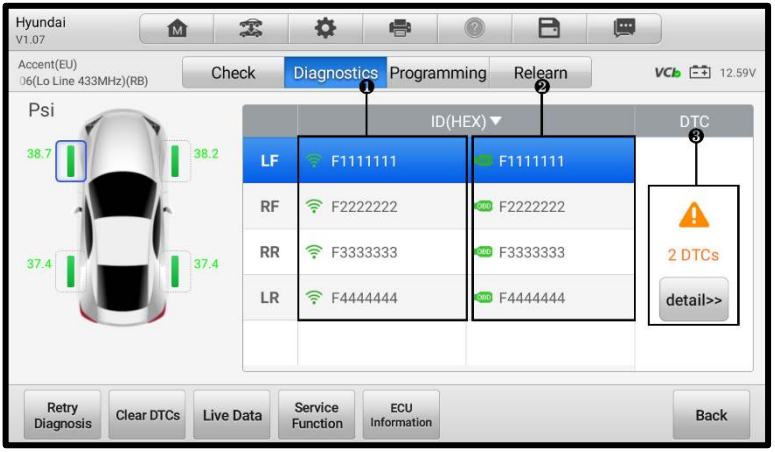


Figure 6-17 *Diagnostics Screen 1*

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

1. 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.
2. If the sensor ID retrieved from sensor activation is the same as the ID saved in the ECU, the trigger mark ( ) and OBD mark ( ) beside the IDs will display green. If the IDs are different, the marks will become red (and). In this case, the vehicle ECU may not recognize the sensor installed on the vehicle.
3. 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.

6.6.1 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.

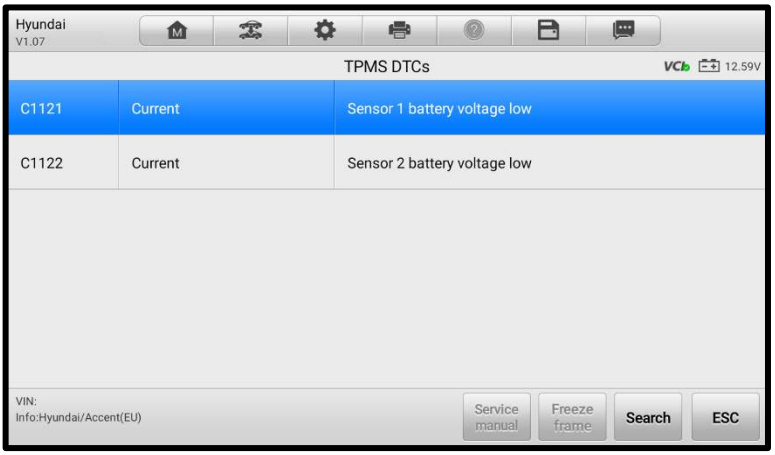


Figure 6-18 *DTCs Screen*

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

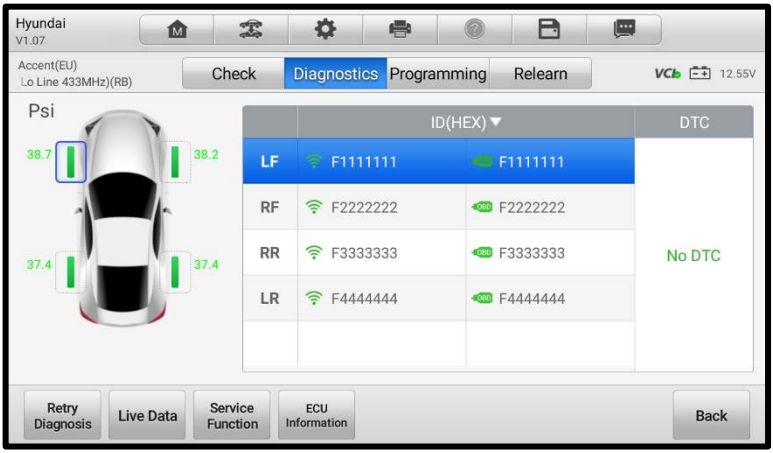


Figure 6-19 ***No DTC Screen***

6.6.2 Retry Diagnosis

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

6.6.3 Clear DTCs

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

6.6.4 Live Data

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

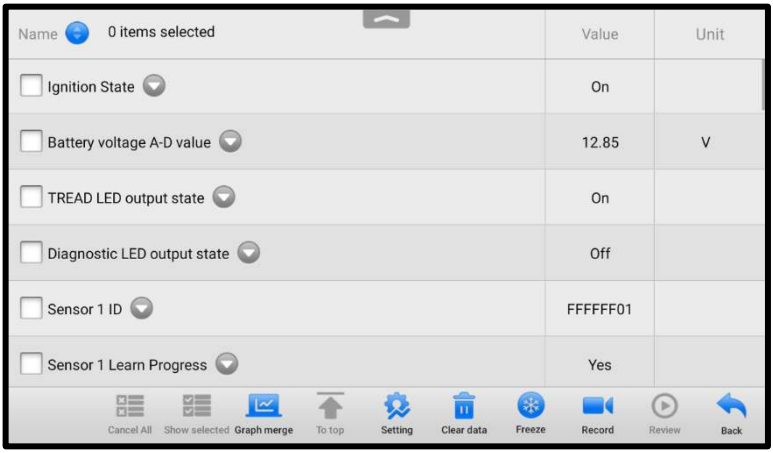


Figure 6-20 *Live Data Screen*

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 35.

6.6.5 Service Function

Tap this button and all the service functions supported by this vehicle will be shown on the screen. You can select one of the functions among them each time and follow the on-screen instructions to complete.

6.6.6 ECU Information

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

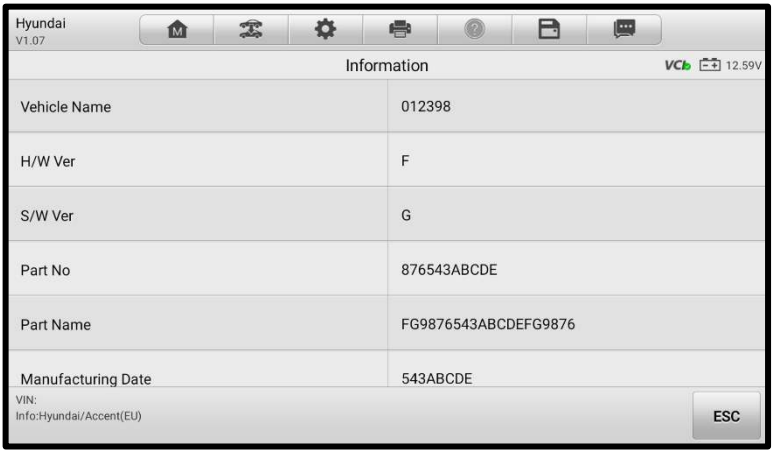


Figure 6-21 ***ECU Information Screen***

6.7 Sensor 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).

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 6-22 ***Programming Function Screen***

As shown in the screen above, there are two options available when programming MX-Sensor: Copy by OBD 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.

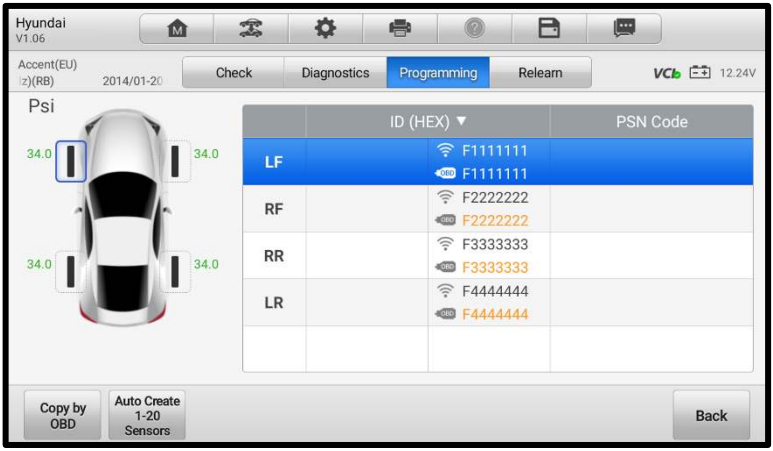


Figure 6-23 ***Programming Screen 1***

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.

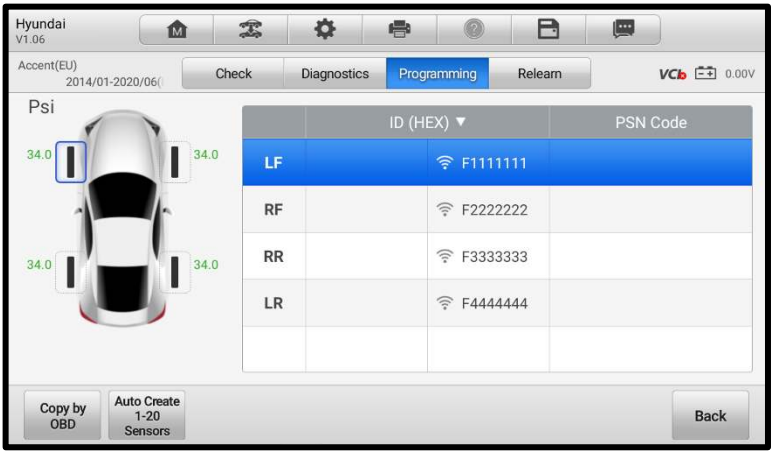


Figure 6-24 ***Programming Screen 2***

6.7.1 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**

1. Select one sensor position and place an MX-Sensor near the TPMS antenna of the tablet, then tap **Copy by OBD** to program the new MX-Sensor.



Figure 6-25 ***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.

NOTE

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.

6.7.2 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.

NOTE

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**

1. Select the vehicle model, and select a wheel location on the screen and place the MX-Sensor(s) near the TPMS antenna 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.
2. The tablet has the ability to program 20 MX-Sensors at once without unboxing. It is suggested that you place the part of the tablet marked with TPMS Service Symbol to the middle of the longer side of the packaging box, as seen in the figure below.



Figure 6-26 ***Auto Create 20 MX-Sensors***

6.8 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 relearn methods for new sensor ID, while the Copy Relearn is a method to clone the sensor ID.

6.8.1 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 efficient and time-saving relearn method.

The OBD Relearn function allows the MP900-TS tablet to directly write the TPMS sensor IDs into the TPMS module.

NOTE

1. 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.

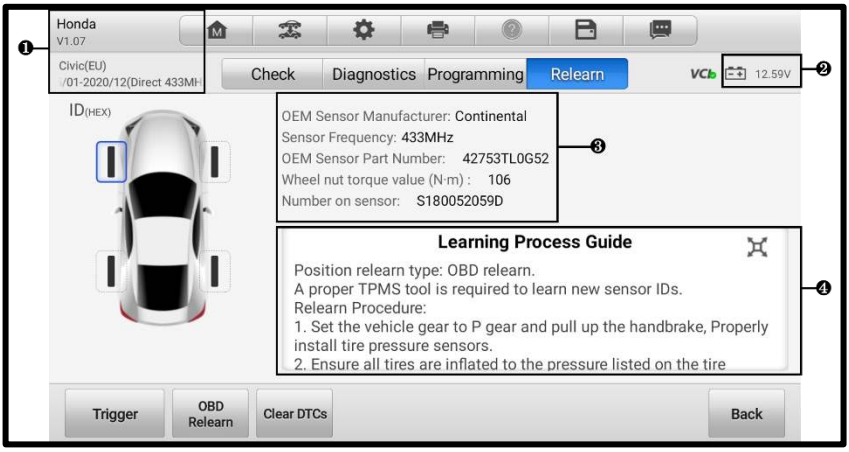


Figure 6-27 ***OBD Relearn Screen 1***

1. Vehicle Information
2. Battery from Vehicle
3. OEM Sensor Information
4. Learning Process Guide

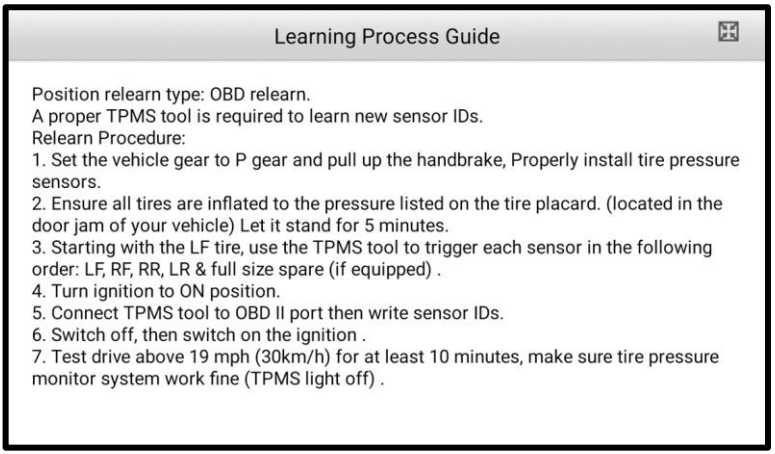


Figure 6-28 *OBD Relearn Screen 2*

6.8.2 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.

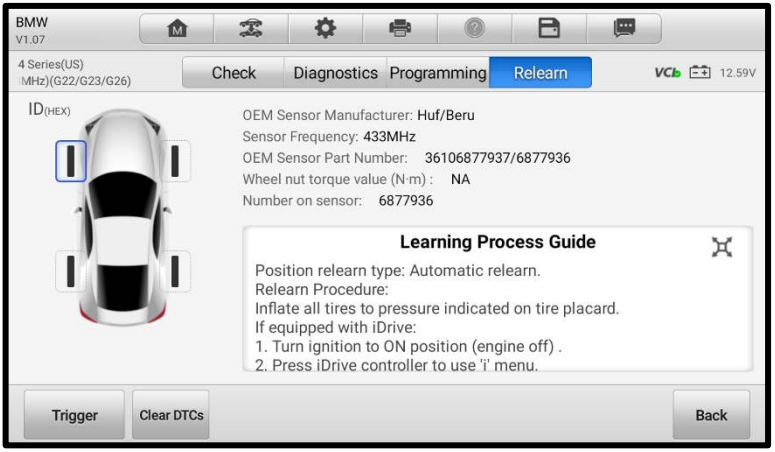


Figure 6-29 *Automatic Relearn Screen 1*

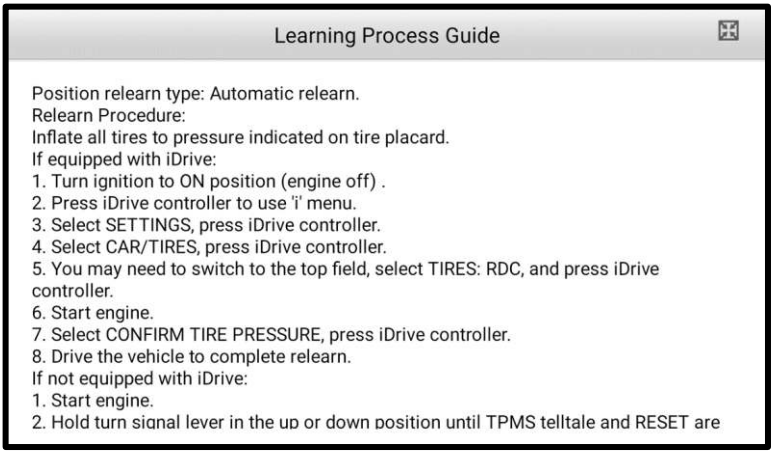


Figure 6-30 ***Automatic Relearn Screen 2***

6.8.3 Stationary Relearn

Stationary Relearn can be completed without relying on driving and 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.

NOTE

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

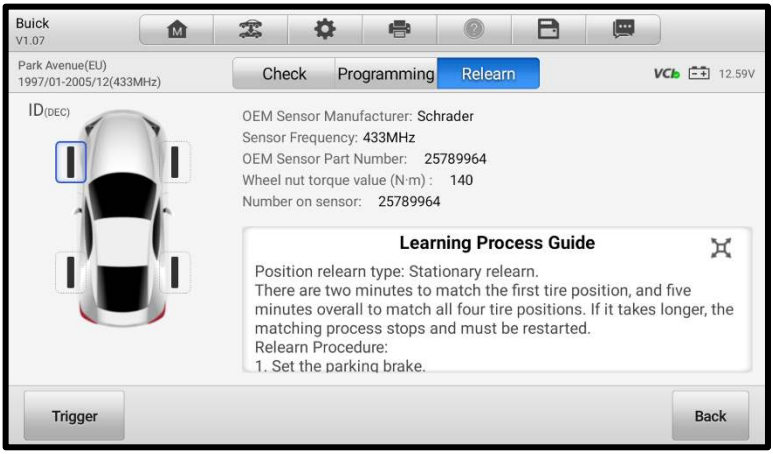


Figure 6-31 ***Stationary Relearn Screen 1***

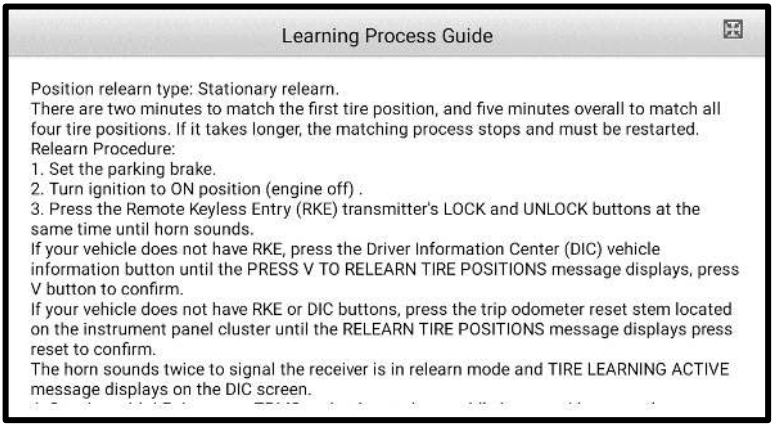


Figure 6-32 ***Stationary Relearn Screen 2***

6.8.4 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 tool to clone and program the sensor ID, and install the sensor to the corresponding tire to complete Copy Relearn.

NOTE

1. Ensure the original sensor will not interfere with the relearn procedures. It is recommended that you 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.
2. 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.

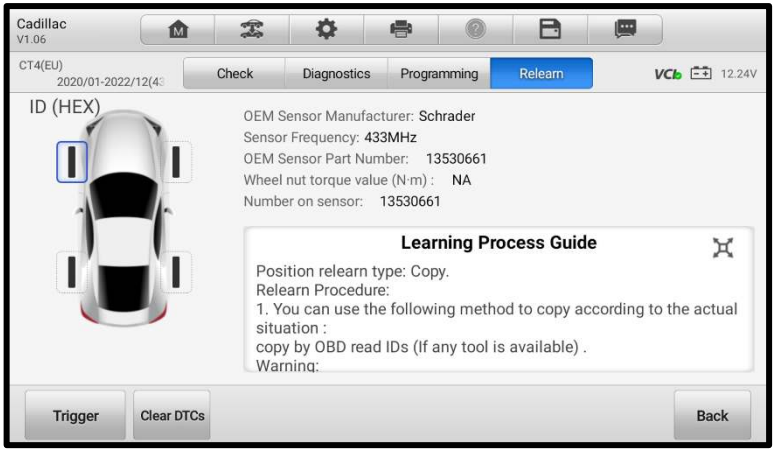


Figure 6-33 *Copy Relearn Screen 1*

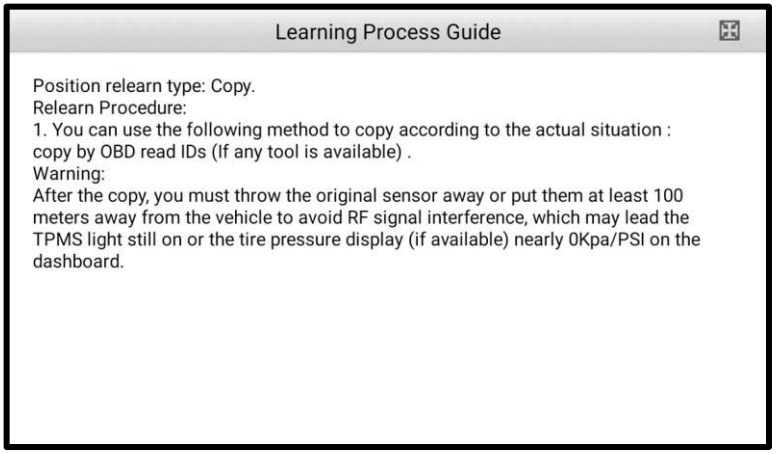


Figure 6-34 *Copy Relearn Screen 2*

6.9 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.

6.9.1 Application Scenarios

This method is ideal for the following two cases:

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.

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.

6.9.2 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.

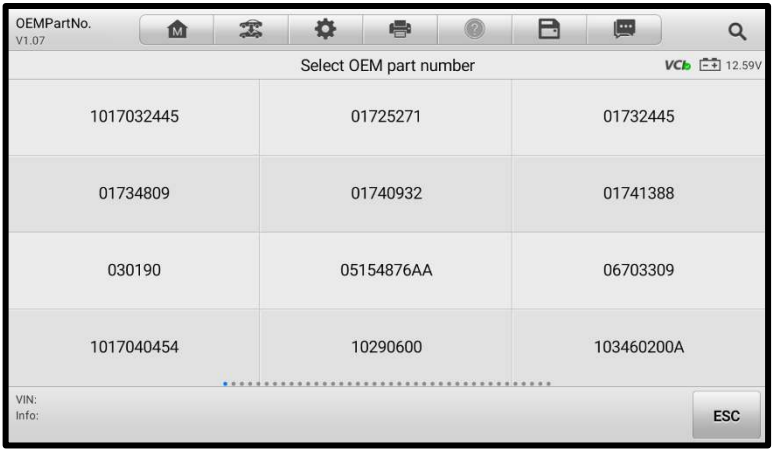


Figure 6-35 ***OEM Part NO. Screen***

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



Figure 6-36 *OEM Part NO. Search Screen*

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



Figure 6-37 *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.

6.9.2.1 *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 frequency, and sensor battery status will populate the displayed table.

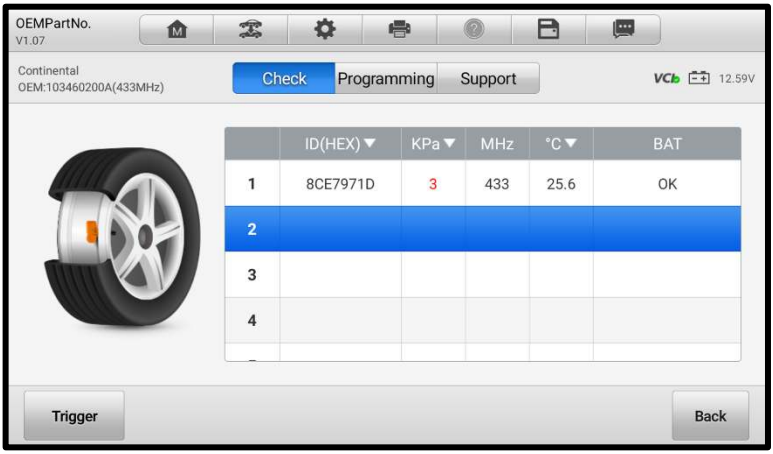


Figure 6-38 *Check Screen via OEM Part NO.*

6.9.2.2 *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).

Tap **Auto Create 1-20 Sensors** to program MX-Sensor using the OEM Part NO. function. Refer to *Auto Create 1-20 Sensors* on page 78 for details.



Figure 6-39 ***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

NOTE

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.

6.9.2.3 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 71 and *TPMS Relearn* on page 79 for more details about the comprehensive TPMS functions menu.



Figure 6-40 ***Support Screen***

7 ToolKit

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



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 MaxiPRO 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 V150 device successfully connected to the vehicle and the tablet.

➢ **To perform the TPMS Retrofit function**

1. Tap the **TPMS Retrofit** application button from the MaxiPRO 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.
4. 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.

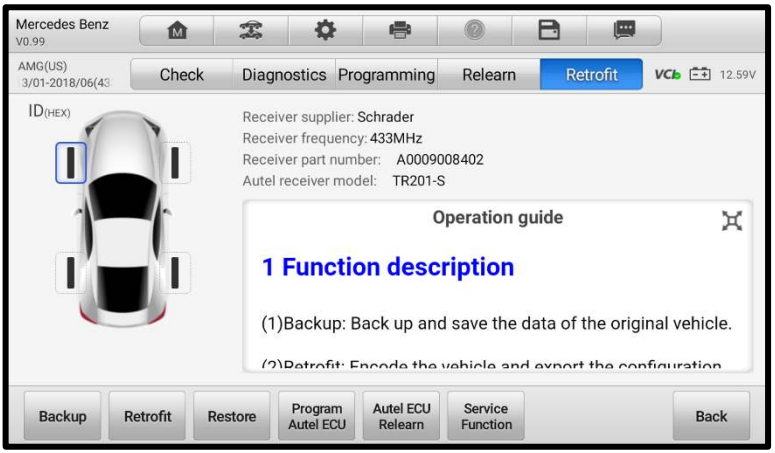


Figure 8-1 ***TPMS Retrofit Screen***

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.
2. Accesses the TPMS Retrofit function either by tapping **TPMS** on the MaxiPRO 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 VCI Manager

This application pairs the tablet with the MaxiVCI V150, checks the communication status and update the VCI firmware.

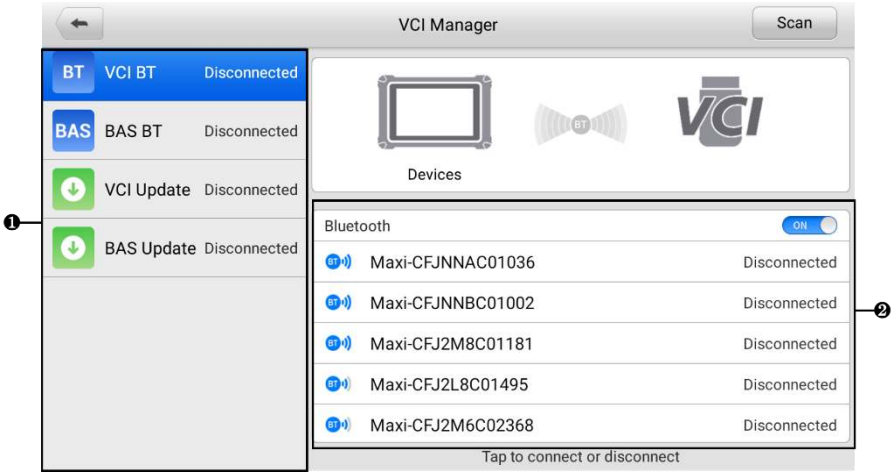


Figure 9-1 *VCI Manager Screen*

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 the Internet through the tablet.
2. Bluetooth Setting

   Toggle the Bluetooth ON/OFF button to **ON**. 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.

9.1 VCI Bluetooth Pairing

The MaxiVCI V150 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 V150 with the tablet**

1. Power on the tablet.
2. Insert the 16-pin vehicle data connector of the MaxiVCI V150 to the vehicle data link connector (DLC).
3. Tap the **VCI Manager** application on the MaxiPRO Job Menu of the tablet.
4. Select **VCI BT** from the Connection Mode list on the left column.
5. Toggle the Bluetooth ON/OFF button to **ON**. 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.”
8. Once connected, the BT badge displays at the bottom-right corner of the VCI Manager shortcut, and the Power/Connection LED on the MaxiVCI V150 illuminates solid blue, which signifies that the tablet is connected to the MaxiVCI V150, 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 MaxiPRO Job Menu.

NOTE

An MaxiVCI V150 can only be connected to one tablet at a time, and once it’s connected, the device will not be discoverable to other devices.

9.2 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 MaxiPRO Job Menu of the tablet.
4. Select **BAS BT** from the Connection Mode list on the left column.

5. Toggle the Bluetooth ON/OFF button to **ON**. Tap **Scan** at the top-right corner of the screen. The device will start to search for available units to pair with.
6. 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.”

9.3 VCI Update

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

➢ **To update the MaxiVCI V150 firmware via tablet**

1. Power on the tablet.
2. Connect the MaxiVCI V150 to the tablet via Bluetooth.
3. Tap the **VCI Manager** application on the MaxiPRO 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.

9.4 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 MaxiPRO 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.

10 Settings

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

- **Unit**
- **Language**
- **Printing Settings**
- **Report Settings**
- **Push Notifications**
- **Auto Update**
- **TPMS Market**
- **TPS Prog. Setting**
- **Vehicle List**
- **Laws and Regulations**
- **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 MaxiPRO Job Menu.
2. Tap the **Unit** option on the left column.
3. Select the appropriate measurement unit. 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 MaxiPRO Job Menu, or select another setting option for system setup.

10.2 Language

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

➢ **To adjust the language setting**

1. Tap the **Settings** application on the MaxiPRO 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 MaxiPRO 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 MaxiPRO Job Menu.
2. Tap the **Printing Settings** option on the left column.
3. Tap **Print via PC-Link** or **Print via Wi-Fi** to activate the printing function, which enables the device to send files to the printer through the PC via Wi-Fi or Ethernet connection.
4. Tap the **Home** button on the top-left corner to return to the MaxiPRO 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**

1. Download the **Maxi PC Suite** software from www.autel.com > ***Support*** > ***Downloads*** > ***Autel Update Tools***, and install it to your windows-based PC.
2. Double click on **Setup.exe**.
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 tab is selected by default 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 PC.

NOTE

1. Make sure the tablet is connected to the same network with your PC, either via Wi-Fi or LAN, before printing.
2. Make sure the PC 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 the **Open PDF File** to view all the temporary files. Select the file(s) needed for printing, then tap **Print**.

NOTE

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

10.4 Report Settings

Two options are available in this section: Scan Report and Report Upload to Cloud.

- Scan Report

  Toggle the **ON/OFF** button to enable/disable Pre-Scan and Post-Scan functions, which enable the user to compare the changes between pre-scan and post-scan. For more information about the pre-scan and post-scan functions, see *Pre-Scan and Post-Scan Functions* on page 48 for details.

- Report Upload to Cloud

  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. For more information about the Report Upload to Cloud function, see *Diagnostics Report Saving, Viewing, and Sharing* on page 49 for details.

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 MaxiPRO 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

1. 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.
2. 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 function allows the tool to automatically update the OS, the MaxiPRO 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 MaxiPRO 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 MaxiPRO 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 MaxiPRO Job Menu, or select another setting option for the system setup.

10.10 Laws and Regulations

In order to protect the rights and interests of both software developers and users, some legal terms and statement information are listed here. Please carefully read them before using the Autel softwares.

10.11 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.

10.12 About

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

➢ **To check the MaxiPRO product information in About**

1. Tap the **Settings** application on the MaxiPRO 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 MaxiPRO Job Menu or select another setting to adjust.

11 Update

The Update application on the tablet downloads the latest version of the software. The updates improve the MaxiPRO 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 MaxiPRO software when it is connected to a network. Any updates that are found can be downloaded and installed on the device.

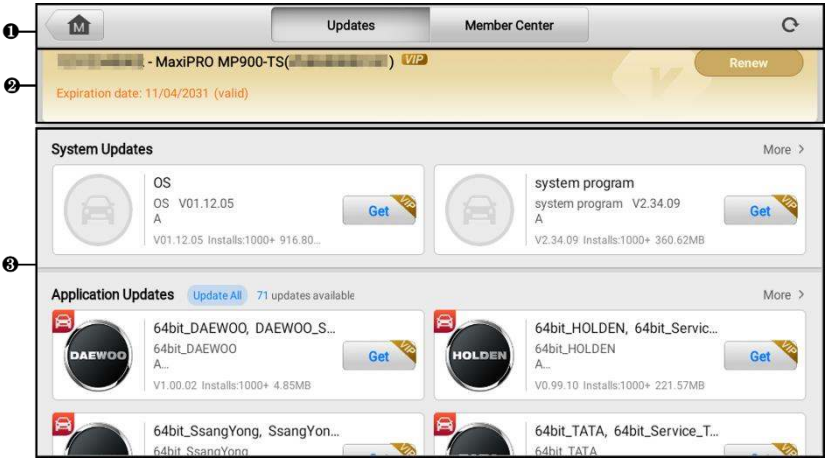


Figure 11-1 ***Update Screen 1***

1. Top Tool Buttons
   - Updates — tap to display the Update screen, which is displayed by default after tapping the **Update** application button.
   - Member Center — tap to enter the Member Center screen.
   - Refresh — refreshes the available updates.
2. Information Bar — displays your Autel ID, MaxiPRO device model information, subscription validity period and other related information. Tap **Renew** to extend subscription.
3. Main Section — displays the available updates.

11.1 Update Procedures

➢ **To update the software**

1. Power up the tablet, and ensure that it is connected to a power source and has a steady network connection.

NOTE
Make sure the tablet is registered before activating the Update application. See *Autel User Center* on page 134 for details.

2. Tap the **Update** application button from the MaxiPRO Job Menu; or tap the update notification message when received. The Update screen displays. Check all available updates:
   - If you only want to update some individual items, tap the **Get** button on the right column of the specific item. This option is highly recommended to ensure updates are performed correctly, especially if unsure of the speed and stability of your network connection.
   - If you decide to update all the items, tap the **Update All** button.
3. Tap **More** to view the details of the applications that can be updated this time. If you did not perform the update operations, you can also tap the **Get** or **Update All** button for update on the following screen.

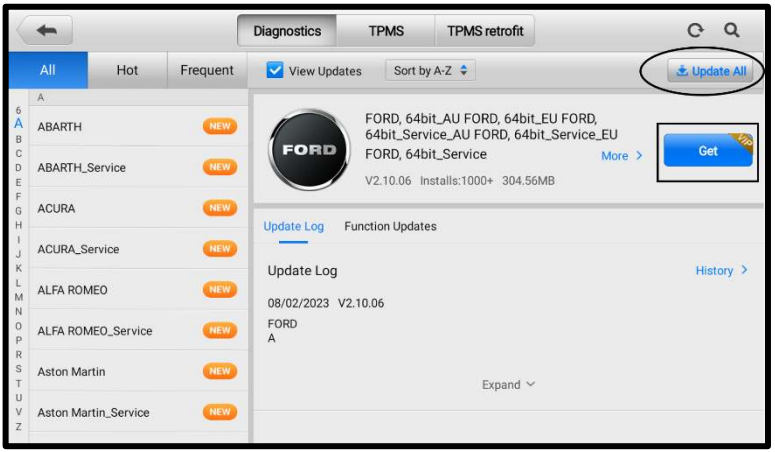


Figure 11-2 ***Update Screen 2***

4. Tap **Pause** to suspend the updating procedure if needed. To resume a paused update, tap **Continue**.
5. When the updating process is completed, the software will be installed automatically. The new version will replace the older version.

11.2 Member Center

In order to meet the individual needs of Autel members, the Member Center section integrated diversified member services such as account management, rights collection, and event participation. The Autel members can enjoy exclusive privileged services here.

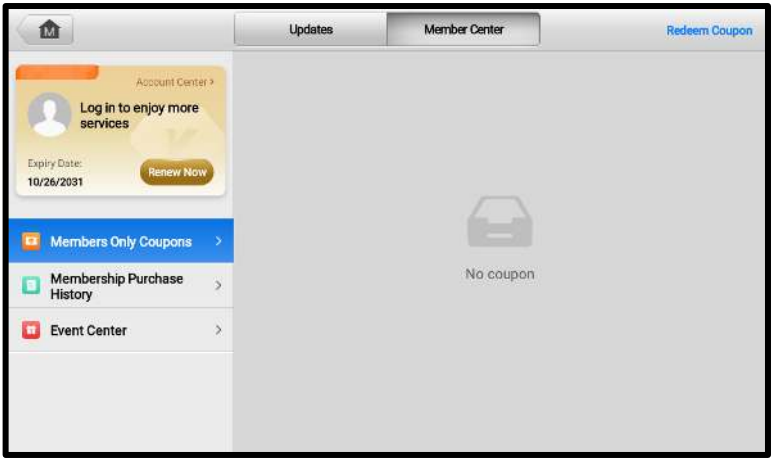


Figure 11-3 ***Member Center Screen***

12 Battery Test

The Battery Test application allows the user to perform in-vehicle battery test and out-of-vehicle battery test functions when the BT506 battery tester is connected to the MaxiPRO MP900-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 12-1 ***Battery Test Screen***

12.1 MaxiBAS BT506 Battery Tester

12.1.1 Function Description

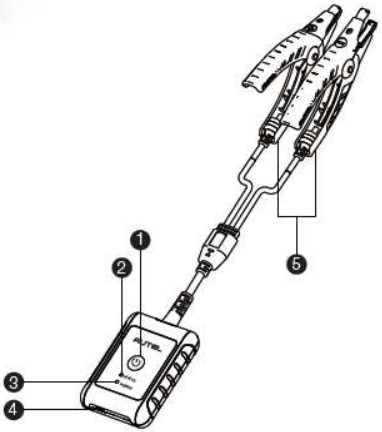


Figure 12-2 *MaxiBAS BT506 Tester*

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

Table 12-1 *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.

12.1.2 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).

12.1.2.1 Internal Battery Pack

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

12.1.2.2 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.

12.1.3 Technical Specifications

Table 12-2 *Technical specifications*

Item	Description
Connectivity	• USB 2.0, Type C • Bluetooth 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.)

12.2 Test Preparation

12.2.1 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.

12.2.2 Connect the Battery Tester

➢ **To pair with the MaxiPRO tablet**

1. Turn on both the MaxiPRO 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**. Toggle the Bluetooth **ON**. 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.”

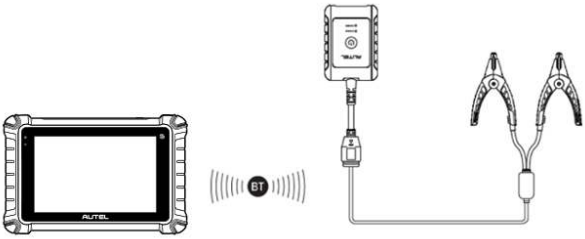


Figure 12-3 ***Battery Tester Connection Example 1***

➢ **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.

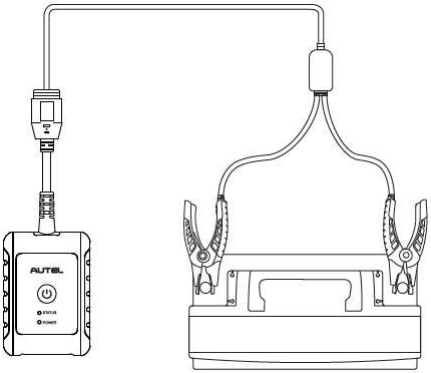


Figure 12-4 ***Battery Tester Connection Example 2***

12.3 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** from the MaxiPRO Job Menu. Select **In-vehicle Test**.
2. 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.

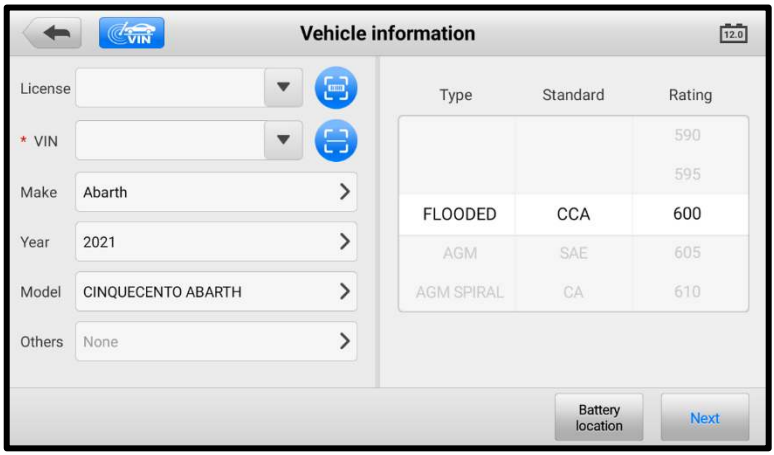


Figure 12-5 *Battery information Screen*

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

Table 12-3 *Top Toolbar Buttons*

Button	Name	Description
	**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**	Tap to proceed.
	**Home**	Returns to the battery test main screen.
	**Back**	Returns to the previous screen.
	**Exit**	Returns to the Job Menu.

12.3.1 Battery Test

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

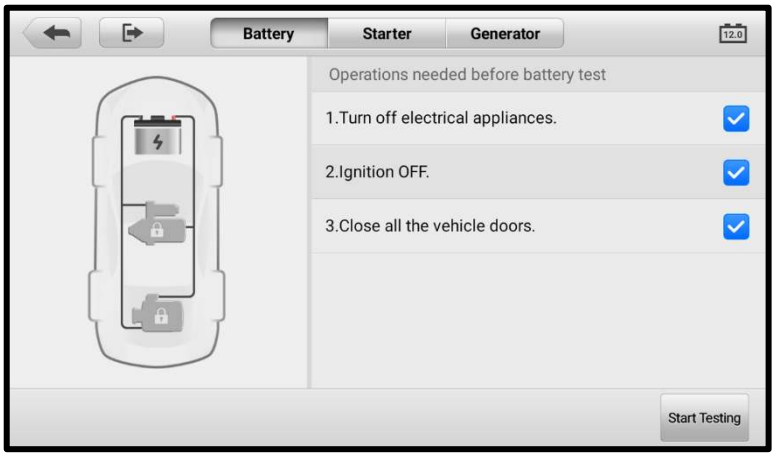


Figure 12-6 *Battery Screen*

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



Figure 12-7 *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.

Table 12-4 *Test Results*

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.

12.3.2 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.



Figure 12-8 *Starter Test Result Screen*

Table 12-5 *Starter Test Results*

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.

12.3.3 Generator Test

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

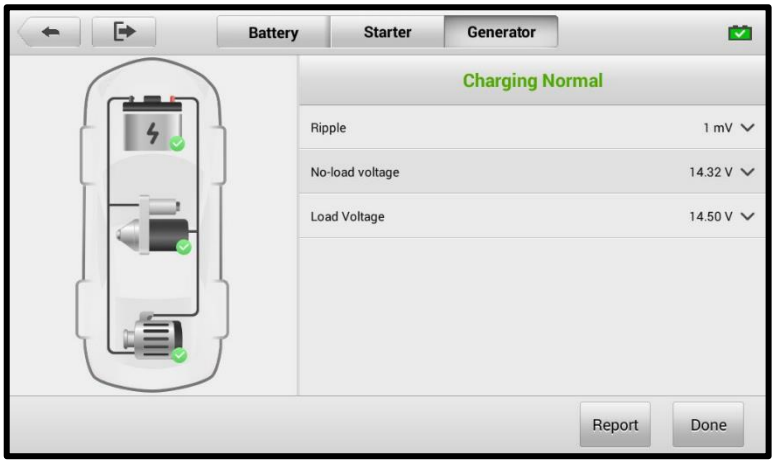


Figure 12-9 *Generator Test Results Screen*

Table 12-6 *Generator Test Results*

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 to the sufficient load capacity of the battery; • The generator or the voltage adjuster is broken and needs replacement.

12.4 Out-of-vehicle Test

Out-of-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.

12.4.1 Test Procedure

➢ **To start the out-of-vehicle test**

1. Connect the tester clamps to the battery terminals.
2. Tap **Battery Test** from the MaxiPRO Job Menu. Select **Out-of-vehicle Test**.
3. Select the appropriate battery type, rating standard, and CCA value. Tap **Start Testing** to start the test.

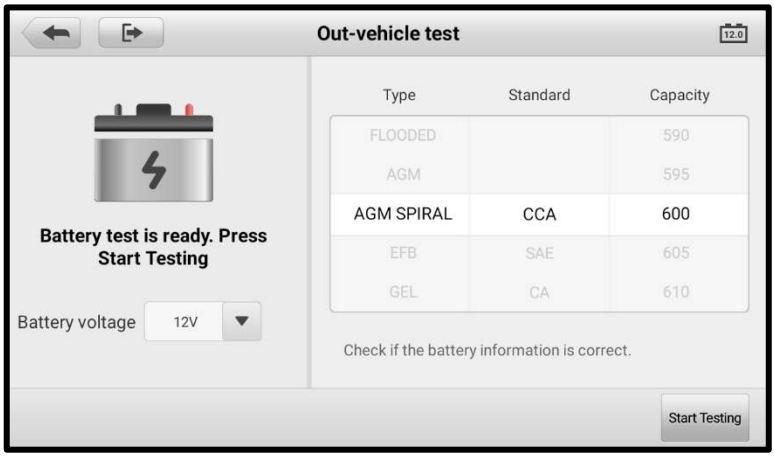


Figure 12-10 ***Out-of-vehicle Test Screen***

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

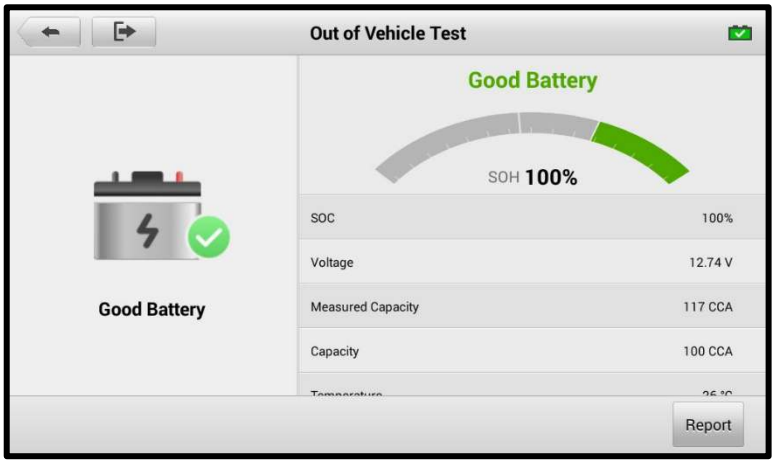


Figure 12-11 ***Out-of-vehicle Test Results Screen***

12.4.2 Test Results

Table 12-7 ***Out-of-Vehicle 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.

13 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 13-1 ***Data Manager Main Screen***

Table 13-1 ***Buttons in Data Manager***

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

Button	Name	Description
	**Image**	Tap to review the screenshots.
	**Cloud 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.
	**Data Logging**	Tap to review the communication data and ECU information of the test vehicle. The saved data can be reported and sent to the technical center via the Internet.
	**Uninstalled Apps**	Tap to uninstall applications.

13.1 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.

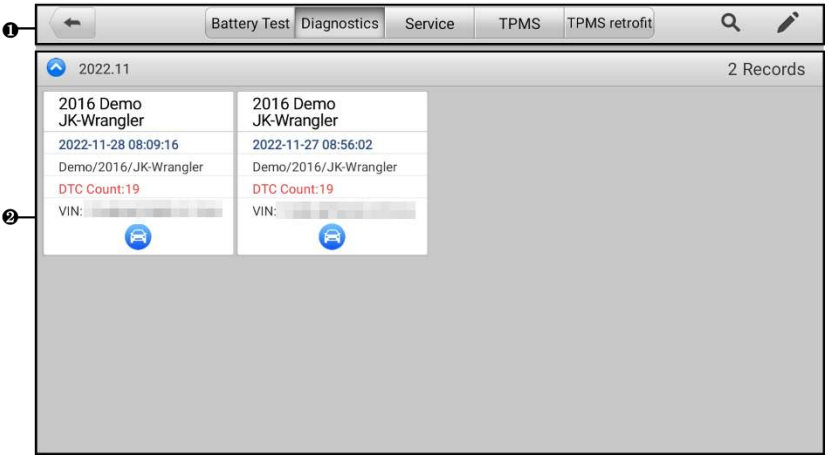


Figure 13-2 ***Vehicle History Screen***

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 MaxiPRO 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.
3. Tap the **Diagnostics** icon at the bottom of the thumbnail of a vehicle record item.
4. The Diagnostics screen of the vehicle displays and a new diagnostic session is activated. See *Diagnostics* for detailed instructions on vehicle diagnostic operations. Or,
5. Select a vehicle thumbnail to open 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.

13.1.1 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.

NOTE

The MaxiPRO tablet must establish connection to the MaxiVCI V150 device to restart test sessions on the previously tested vehicles.

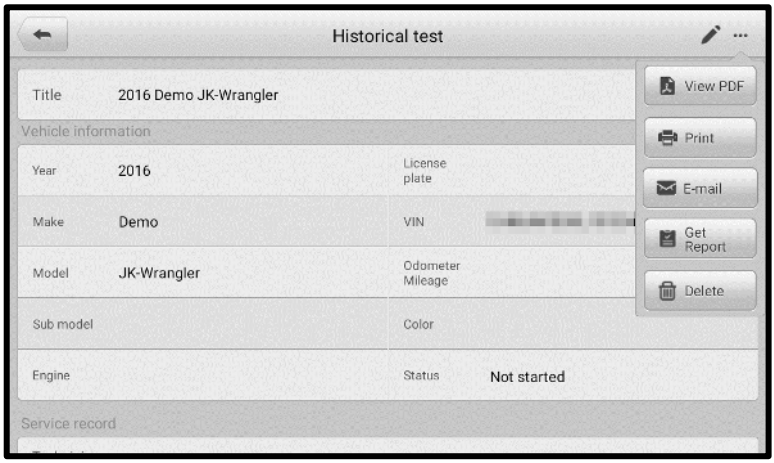


Figure 13-3 ***Historical Test Record Sheet***

➢ **To edit the Historical Test record**

1. Tap **Data Manager** on the MaxiPRO 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.

NOTE

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

13.2 Workshop Information

The Workshop Information form allows you to edit, input, and save the detailed workshop information, such as shop name, address, phone number, and other remarks,

which, when printing vehicle diagnostic reports and other associated test file, will display as the header of the printed documents.

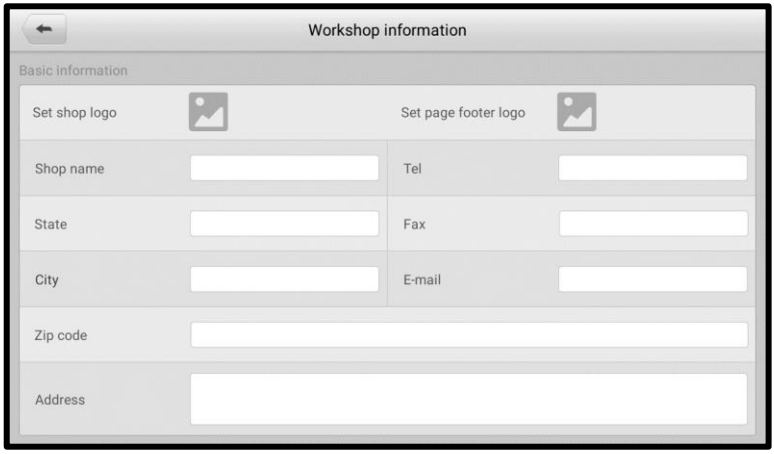


Figure 13-4 *Workshop Information Sheet*

➢ **To edit the Workshop Information sheet**

1. Tap the **Data Manager** application on the MaxiPRO 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.

13.3 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 MaxiPRO 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.

NOTE

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 ⊗ 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 MaxiPRO Job Menu.
2. Select **Customer**.
3. Select a customer account by tapping the corresponding name card. A Customer Information record displays.
4. Tap the **Edit** icon 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 MaxiPRO Job Menu.
2. Select **Customer**.
3. Tap the **Delete** icon on the right of a customer account. A message displays.
4. Tap **OK** to confirm the command, and the account is deleted, or tap **Cancel** to cancel the request.

13.4 Image

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

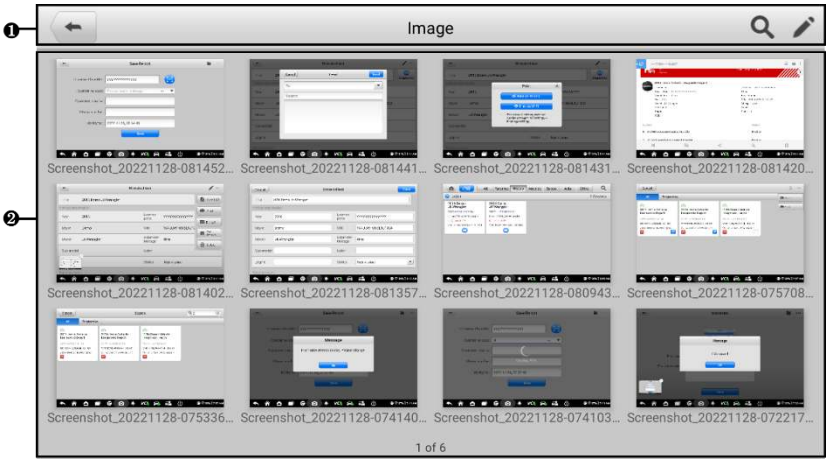


Figure 13-5 *Image Screen*

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 13-2 *Toolbar Buttons in Image Screen*

Button	Name	Description
	**Back**	Returns to the previous screen.
	**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**	Tap to close the editing toolbar or cancel file search.
	**Print**	Tap to print the selected image.
	**Delete**	Tap to delete the selected image.
	**Email**	Tap to send the selected image to an email.

➢ **To edit/delete image(s)**

1. Select **Data Manager** from the MaxiPRO 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.
5. 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.

13.5 Cloud Report

This section stores and displays all reports. The reports stored in this area will be uploaded automatically when you set the Report Upload to Cloud in Report Settings to **ON**. See *Report Settings* on page 97 for further details. Tap one of the reports to view it or share with others by selecting **View Local Reports** or **Report Cloud Sharing**. For more information about Report Cloud Sharing, see *Diagnostics Report Cloud Sharing* on page 51 for details.

13.6 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.

13.7 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.

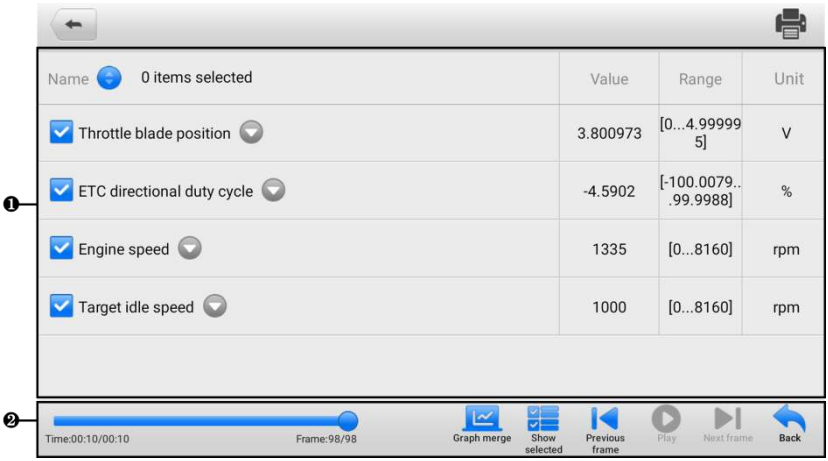


Figure 13-6 *Data Playback Screen*

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.

13.8 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 129.

13.9 Uninstall Apps

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

Select the vehicle software 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 software from the system database.

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 MaxiPRO 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.

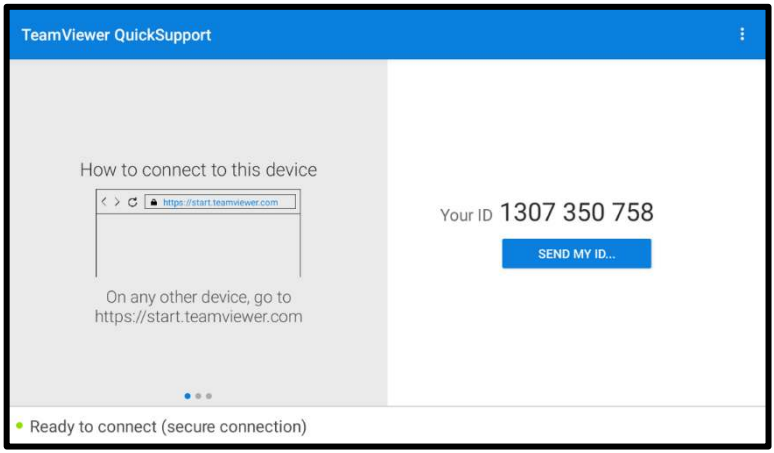


Figure 14-1 ***Remote Desktop Screen***

➢ **To receive remote support from a partner**

1. Power on the tablet.
2. Tap the **Remote Desktop** application on the MaxiPRO 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 http://www.teamviewer.com), 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 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 MaxiPRO tablet to the vehicle through the MaxiVCI V150. See *Establishing Vehicle Communication* on page 16.
2. Tap the **Diagnostics** application from the MaxiPRO 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**.
6. Exit the Diagnostics application. Tap the **OEM Authorization** application on the MaxiPRO Job Menu. On the OEM Authorization screen, tap **Renew**. The Unlocking Information screen appears, on which you can view the remaining service sessions.

16 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.

16.1 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 MaxiRRO tablet the first time you use it. See *Autel User Center* on page 134 for detailed information.

16.2 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.



Figure 16-1 ***Support Application Screen***

16.3 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.

16.4 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.

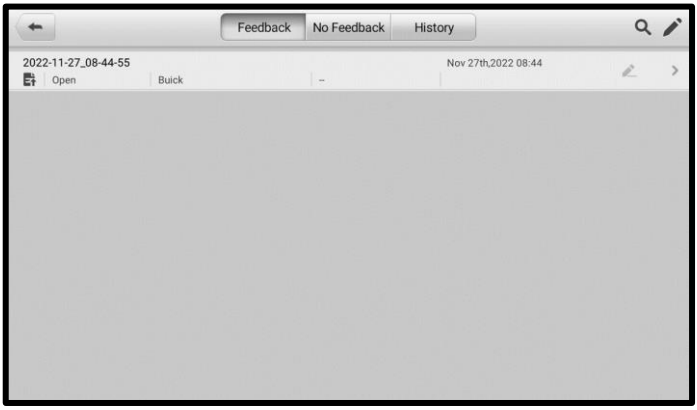


Figure 16-2 ***Data Logging Screen***

➢ **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.

16.5 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.

16.6 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.

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 MaxiPRO Job Menu. The Function Viewer screen displays.
2. Tap the tool name on the top-left corner to open the drop-down list. Tap the one you want to search.
3. Tap the vehicle brand, model, and year you want to search.
4. All the functions supported by the selected tool for the selected vehicle will display as several columns.

➢ **To search by the functions**

1. Tap the **MaxiViewer** application on the MaxiPRO Job Menu. The Function Viewer screen displays.
2. Tap the tool name on the top-left to open the drop-down 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.

NOTE

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

NOTE

1. The MaxiVideo Digital Inspection Camera and its fittings are additional accessories, and need to be purchased separately. Both sizes (8.5 mm and 5.5 mm) of the imager head are optional and available for purchase.
2. For detailed operation instructions, please refer to the Quick Reference Guide for the MaxiVideo Digital Inspection Camera.

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.

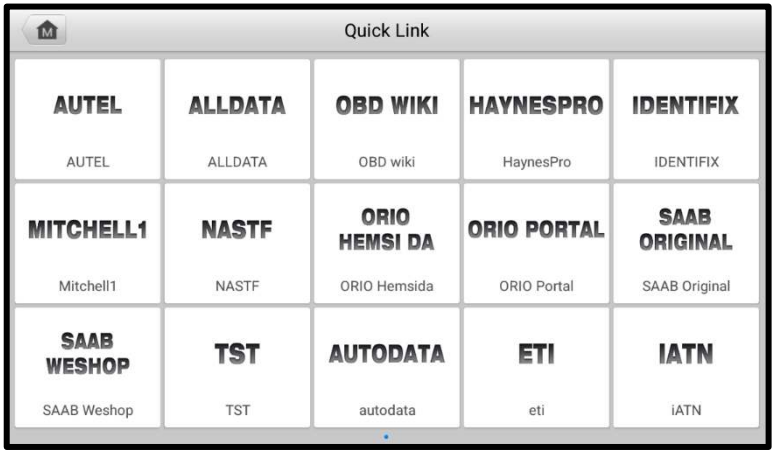


Figure 19-1 ***Quick Link Screen***

➢ **To open a quick link**

1. Tap the **Quick Link** application on the MaxiPRO 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 Autel User Center

Software updates are available for free for the first year from the date of purchase. The Autel User Center application allows you to register your tool to download the latest released software, thereby enhancing the functionality of the MaxiPRO application by adding new vehicle models or enhanced applications to the database.

There are two ways for product registration:

A. Register the product using the MaxiPRO tablet

➢ **To log in with your account and register your tool**

1. Tap **Autel User Center** from the MaxiPRO Job Menu. The following screen displays.

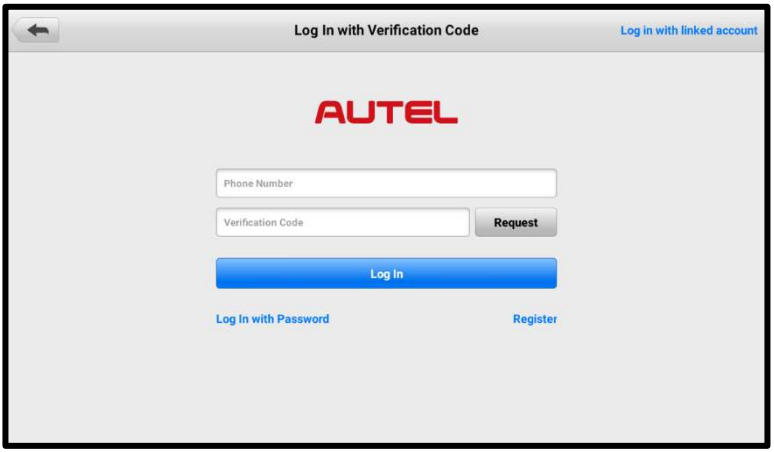


Figure 20-1 ***Autel User Center Screen***

2. If you already have an Autel ID, you can log in with your phone number and verification code, or tap **Log In with Password** to log in with your Autel ID and password. If you don't have an Autle ID yet, tap **Register** to create an Autel ID.
3. Once your account is successfully registered, you will enter the main menu of the Autel User Center.
4. Select **Device Management** on the main menu.

5. Tap the **Link Device** button on the upper-right corner of the Device Management screen. The serial number and password of the device will automatically appear on the Link Device screen.
6. Tap the **Link** button to complete the product registration.

B. Register the product on the Autel website

➢ **To register the MaxiPRO 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.
6. 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.
7. 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.

21 Maintenance and Service

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

21.1 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.

21.2 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.

21.3 About Battery Usage

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

DANGER

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.

21.4 Service Procedures

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

21.4.1 Technical Support

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

Autel China Headquarters

- **Phone:** +86 (0755) 8614-7779 (Monday-Friday, 9AM-6PM Beijing Time)
- **Email:** support@autel.com
- **Address:** Floor 2, Caihong Keji Building, 36 Hi-tech North Six Road, Songpingshan Community, Xili Sub-district, Nanshan District, Shenzhen City, China
- **Web:** www.autel.com

Autel North America

- **Phone:** 1-855-288-3587 (Monday-Friday, 9AM-6PM Eastern Time)
- **Email:** ussupport@autel.com
- **Address:** 36 Harbor Park Drive, Port Washington, New York, USA 11050

- **Web:** www.autel.com/us

Autel Europe

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

Autel APAC

Japan:

- **Phone:** +81-045-548-6282
- **Email:** support.jp@autel.com
- **Address:** 6th Floor, Ari-nadoribiru 3-7-7, Shinyokohama, Kohoku-ku, Yokohama-shi, Kanagawa-ken, 222-0033 Japan
- **Web:** www.autel.com/jp

Australia:

- **Email:** ausupport@autel.com
- **Address:** Unit 5, 25 Veronica Street, Capalaba

Autel IMEA

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

Autel Latin America

Mexico:

- **Phone:** +52 33 1001 7880 (Spanish in Mexico)
- **Email:** latsupport@autel.com
- **Address:** Avenida Americas 1905, 6B, Colonia Aldrete, Guadalajara, Jalisco, Mexico

Brazil:

- **Email:** brsupport@autel.com

- **Address:** Avenida José de Souza Campos n° 900, sala 32 Nova Campinas Campinas – SP, Brazil
- **Web:** www.autel.com/br

21.4.2 Repair Service

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

Floor 2, Caihong Keji Building, 36 Hi-tech North Six Road, Songpingshan Community, Xili Sub-district, Nanshan District, Shenzhen City, China

21.4.3 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

22 Compliance Information

FCC Compliance FCC ID: WQ8-DS900TS2232

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.

⚠ 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.

IC WARNING

-English:
This device complies with Industry Canada's licence-exempt RSS standard(s). Operation is subject to the following two conditions:
(1) this device may not cause interference, and
(2) this device must accept any interference, including interference that may cause undesired operation of the device.
-French:
Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:
(1) l'appareil nedoit pas produire de brouillage, et
(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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

23 Warranty

Limited One Year Warranty

Autel Intelligent Technology Corp., Ltd. (the Company) warrants to the original retail purchaser of this MaxiPRO 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).

NOTE

If the warranty period is inconsistent with local laws and regulations, please comply with the relevant local laws and regulations.

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;
3) 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.