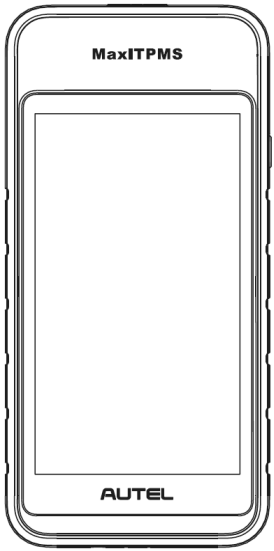
AUTEL®

USER MANUAL

MaxiTPMS

ITS600 CV/ITS600 CV Pro



Patent

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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.

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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.

CONTENTS

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 the 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 the **Power Off** option.
3. Tap **OK**. The tablet will turn off in a few seconds.

2 General Introduction

There are two main components of ITS600 CV/ITS600 CV Pro system:

- MaxiTPMS ITS600 CV/ITS600 CV Pro Tablet — the central processor and monitor for the system.
- MaxiVCI V200 — Vehicle Communication Interface. The device 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 MaxiTPMS ITS600 CV/ITS600 CV Pro Tablet

2.1.1 Function Description

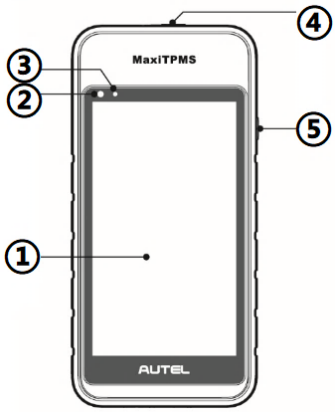


Figure 2-1 ***MaxiTPMS Tablet Front View***

1. 5.5” LCD Capacitive Touchscreen
2. Ambient Light Sensor — detects ambient brightness.
3. Power LED — indicates battery level & charging or system status.
4. TPMS Service Symbol — indicates the position of the embedded TPMS antenna.

5. Power/Lock Button — long press to turn on/off the tablet, or short press to lock the screen.

The power LED displays green or red depending on the power level and operating state:

A. Green
   - Flashes green when the tablet is charging.
   - Illuminates green when the tablet is fully charged.

B. Red
   - Illuminates red when a problem is detected.

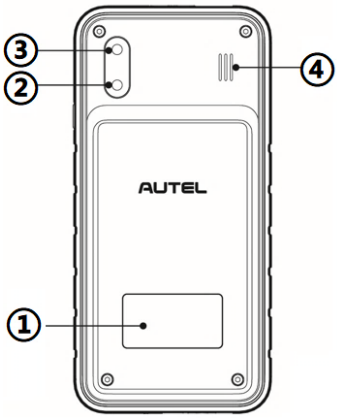


Figure 2-2 *MaxiTPMS Tablet Back View*

1. Sticker
2. Rear Camera
3. Camera Flash
4. Speaker

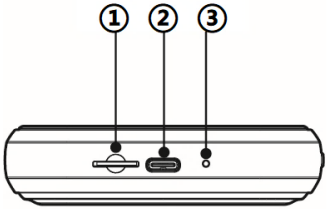


Figure 2-3 *MaxiTPMS Tablet Bottom View*

1. Micro SD Card Slot
2. Type-C USB OTG Port
3. Microphone

Camera

Function Description: Used for vehicle information identification, such as VIN scanning and vehicle photography.

Privacy Impact: Collects vehicle VIN data and uploads it to the cloud platform to identify the vehicle model, year, engine type, etc.

Permission Control: Camera access permissions can be disabled in system settings (Path: Settings > System Settings > More > APPs & notifications > App permissions > Camera).

Microphone

Function Description: Used for audio and video recording through the device and its camera.

Privacy Impact: Stores recorded voice data from the recorder and camera locally.

Permission Control: Microphone access permissions can be disabled in system settings (Path: Settings > System Settings > More > APPs & notifications > App permissions > Microphone).

2.1.2 Power Sources

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

- Internal Battery Pack
- AC/DC Power Supply
- Vehicle 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 video watching and 5 hours of operation.

2.1.2.2 AC/DC Power Supply

The tablet can be powered from a wall socket using the AC/DC power adapter that connects to the Type-C USB cable. The AC/DC power supply also charges the internal

battery pack.

2.1.2.3 Vehicle Power

The tablet can be powered from the auxiliary power outlet adapter or other suitable power port on the test vehicle through a direct cable connection. The vehicle power cable connects to the USB Type-C port at the bottom of the tablet for charging.

2.1.3 Technical Specifications

Table 2-1 *Specifications*

Item	Description
Recommended Use	Indoor
Operating System	Android 9.0
Processor	Quad-core processor (1.5 GHz)
Memory	2 GB RAM DDR4 & 64 GB ROM
Display	5.5-inch LCD capacitive touchscreen with 1280 x 720 resolution
Rear Camera	8 MP
Connectivity	● Wi-Fi ● Type-C USB ● Bluetooth
Sensor	Light sensor for brightness auto adjustment
Audio Input/Output	● Input: Microphone ● Output: Speaker
Power and Battery	● 3.8 V/5000 mAh lithium-polymer battery ● Charges via 5 V DC power supply
Battery Charging Input	5 V/1.5 A
Power Consumption	700 mA (LCD on with default brightness, Wi-Fi on) @3.8 V

Item	Description
Operating Temp.	0 °C to 50 °C (32 °F to 122 °F)
Storage Temp.	-20 °C to 60 °C (-4 °F to 140 °F)
Dimensions (W x H x D)	183.0 mm (7.2”) x 89.0 mm (3.5”) x 22.0 mm (0.87”)
Net Weight	368 g (0.8 lb.)
Protocols	ISO9141-2, ISO14230-2, ISO15765, K/L-Line, Flashing Code, SAE-J1850 VPW, SAE-J1850PWM, ISO11898 (Highspeed, Middlespeed, Lowspeed and Singlewire CAN, fault-tolerant CAN), SAE J2610, GM UART, UART Echo Byte Protocol, Honda Diag-H Protocol, TP2.0, TP1.6, ISO 13400, CAN FD, SAE-J1939, SAE-J2411 Single Wire Can (GMLAN)

2.2 VCI – Vehicle Communication Interface

The MaxiVCI V200 is a small vehicle communication interface (VCI) used to connect to a vehicle’s DLC and the tablet for vehicle data transmission.

2.2.1 Function Description

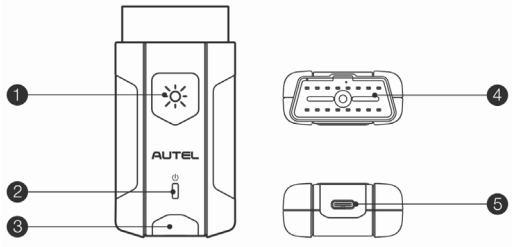


Figure 2-4 *MaxiVCI V200 Views*

1. Flashlight Power Button
2. Power LED — refer to *Table 2-2 VCI LED Description* for details
3. Vehicle/Connection LED — refer to *Table 2-2 VCI LED Description* for details
4. Vehicle Data Connector (16-pin)
5. USB Port

Table 2-2 *VCI LED Description*

LED	Color	Description
Power LED	Yellow	The VCI is powered on and performing a self-check.
	Green	The VCI is ready for use.
	Flashing Red	The firmware is updating.
Vehicle/ Connection LED	Green	● Solid Green: The VCI is connected via USB cable. ● Flashing Green: The VCI is communicating via USB cable.
	Blue	● Solid Blue: The VCI is connected via Bluetooth. ● Flashing Blue: The VCI is communicating via Bluetooth.

NOTE

The power LED briefly lights yellow each time the device powers on and then lights green when the device is ready.

2.2.2 Technical Specifications

Table 2-3 *Technical Specifications*

Item	Description
Communications	● BLE + EDR ● Type-C USB
Wireless Frequency	2.4 GHz
Input Voltage Range	8 V to 30 V DC
Supply Current	150 mA @ 12 V DC
Operating Temp.	0 °C to 50 °C (32 °F to 122 °F)
Storage Temp.	-20 °C to 60 °C (-4 °F to 140 °F)

Item	Description
Dimensions (L x W x H)	89.89 mm (3.53") x 46.78 mm (1.84") x 21 mm (0.82")
Weight	70.7 g (0.156 lb.)
Built-in Battery	3.7 V Lithium Battery
Light	White LED

NOTE

The 3.7 V lithium battery is used for LED lighting only.

2.3 Accessories Kit

2.3.1 Non-OBDII Adapters

The adapter used depends on the type of vehicle being tested. The most common adapters are shown below.

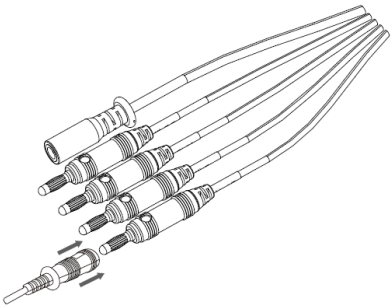
Deutsch-9

Deutsch-6

UNI-4

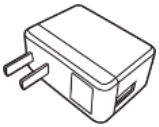
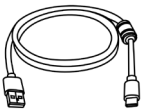
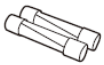
UNI-4 instructions

Choose the appropriate JW1/JW2/JW3/JW4/JW5/JW6/JW7/JW8/JW9/JW10 that matches DLC to connect with UNI-4.



2.3.2 Other Accessories

Table 2-4 *Other Accessories*

	**Power Adapter** Used with the Type C USB cable to charge the tablet via a DC electrical outlet.
	**Type C USB Cable** Connect the power adapter and the tablet for charging.
	**Auxiliary Power Outlet Adapter** Provides power to the tablet or the VCI through connection to the vehicle's auxiliary power outlet, as some non-OBDII vehicles cannot provide power via the DLC connection.
	**Clamp Cable** Provides power to the tablet or the VCI through connection to the vehicle's battery.
	**Light Fuse x 2** A safety device for the auxiliary power outlet adapter.

3 Getting Started

Ensure the tablet is sufficiently charged or is connected to a power outlet (refer to *Power Sources* for details).

3.1 Powering Up

Hold and press the **Power/Lock** button on the right side of the tablet to switch the unit on. The system boots up and displays the MaxiTPMS Job Menu.

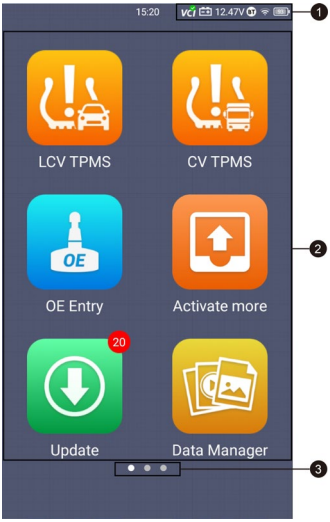


Figure 3-1 ***MaxiTPMS ITS600 CV Job Menu***

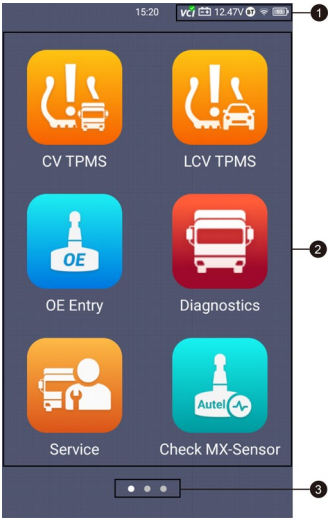


Figure 3-2 ***MaxiTPMS ITS600 CV Pro Job Menu***

1. Status Information Bar
2. Application Buttons
3. Locator

Almost all operations on the tablet are controlled through the touchscreen. The touchscreen navigation is menu-driven, allowing for quick access to the test procedure or data that you need, through a series of questions and options. Detailed descriptions of the menu structures are found in the chapters for each application.

3.1.1 Status Information Bar

The status information bar varies according to the stage of operations, and may display the items described in the table below.

Table 3-1 ***Status Information Bar***

Icon	Name	Description
VCI VCI	**VCI Status**	VCI: displays on the top toolbar when the MaxiVCI V200 is not connected to the tablet. VCI : displays after the MaxiVCI V200 is successfully connected to the tablet.

Icon	Name	Description
	**Voltage**	Displays the current voltage value of the connected device.
	**Wi-Fi**	Indicates that Wi-Fi is connected and displays the signal strength.
	**Battery Level**	Displays the remaining battery power.

3.1.2 Application Buttons

Descriptions of the applications are displayed in the table below.

Table 3-2 *Applications*

Button	Name	Description
	**CV TPMS**	Accesses the CV TPMS service program, which is designed for medium and heavy-duty commercial vehicles. Refer to *CV TPMS* for details.
	**LCV TPMS/ TPMS**	Accesses the LCV TPMS/TPMS service program. LCV TPMS is specifically for light commercial vehicles, while TPMS covers both light commercial vehicles and passenger vehicles. Refer to *TPMS* for details.
	**OE Entry**	Accesses the OEM menu. Refer to *OE Entry* for details.
	**Diagnostics**	Accesses the diagnostics functions menu. Refer to *Diagnostics* for details.
	**Battery Test**	Assesses the battery test menu. Refer to *Battery Test* for details.
	**Service**	Accesses the special functions menu. Refer to *Service* for details.

Button	Name	Description
	**Check MX-Sensor**	Accesses the tire age check function. Refer to *Check MX-Sensor* for details.
	**Tire DOT**	Accesses the tire age check function. Refer to *Tire DOT* for details.
	**Hand-held Inclinometer**	Connects your tablet to a hand-held inclinometer to measure the ride height of Mercedes-Benz vehicles. Refer to *Hand-held Inclinometer* for details.
	**TPMS Retrofit**	Allows TPMS to be installed on vehicles. Refer to *TPMS Retrofit* for details.
	**Activate More**	Accesses TPMS and CV Diag packages with purchase. Refer to *Activate More* for details.
	**Update**	Accesses the system software update menu. Refer to *Update* for details.
	**Data Manager**	Accesses the organization system for saved data files. Refer to *Data Manager* for details.
	**Academy**	Accesses technical tutorials and training articles about the device or vehicle diagnostic techniques. Refer to *Academy* for details.
	**ToolKit**	Accesses auxiliary functions menu for TPMS service. Refer to *ToolKit* for details.
	**MaxiTools**	Accesses multiple useful tools such as quick link and log collection.
	**Settings**	Accesses the MaxiTPMS system settings menu and general tablet menu. Refer to *Settings* for details.

Button	Name	Description
	**Remote Desktop**	Configures your unit to receive remote support using the TeamViewer application. Refer to *Remote Desktop* for details.
	**User Center**	Allows users to register the Autel tool for downloading the latest released software. Refer to *User Center* for details.
	**OEM Authorization**	Manages the permissions for unlocking the OE gateway.

3.1.3 Locator

The locator icon displays at the bottom of the MaxiTPMS Job Menu. Swipe the screen left or right to view the previous or next screen.

3.1.4 System Status Icons

Slide the screen downward to display the Shortcuts Panel and access a variety of features. The table below shows each icon and its corresponding feature.

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

Table 3-3 *System Status Icons*

Button	Name	Description
	**System Settings**	Launches the Android system settings interface when pressed.
	**Bluetooth**	Enables/Disables Bluetooth when pressed.
	**WLAN**	Enables/Disables Wi-Fi when pressed.
	**Flashlight**	Turns on/off the flashlight when pressed.

Button	Name	Description
	**Screenshot**	Takes a screenshot of the display.
	**Automatic brightness**	Adjusts the screen brightness to your surroundings.
	**Logger**	Posts log collection.
	**Restart App**	Restarts applications when pressed.
	**Camera**	Enables photo-taking and recording.
	**VCI Manager**	Opens the VCI Manager application for VCI connection and upgrade. Refer to *VCI Manager* for more details.

3.2 Powering Down

All vehicle communications must be terminated before powering off the tablet. A warning message will display if the unit attempts to power off while still connected to the vehicle. Forcing the tablet to power off while the unit is still communicating with the vehicle may lead to ECM problems on some vehicles. Exit TPMS-related or diagnostics applications before powering off.

➢ **To power down the tablet**

1. Hold and press the **Power/Lock** button.
2. Tap the **Power Off** option.
3. Tap **OK**. The tablet will turn off in a few seconds.

3.2.1 Reboot System

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

4 CV TPMS

The MaxiTPMS tablet provides an extensive series of CV TPMS-related services and functions. Quickly identifying commercial vehicle information and easy to operate, the tablet is an ideal choice for technicians to complete CV TPMS work.

4.1 Establishing Vehicle Communication

Prior to performing the TPMS function, ensure the MaxiTPMS tablet is connected to the test vehicle through the MaxiVCI V200. To establish proper vehicle communication between the tablet and the test vehicle, you can perform the following steps:

1. Connect the MaxiVCI V200 to the vehicle's DLC for both communication and power supply.
2. Connect the MaxiVCI V200 to the MaxiTPMS tablet via Bluetooth connection or using a USB-C to USB-C cable (not included).
3. A green "√" mark will be displayed on the VCI status icon, indicating the communication between the MaxiVCI V200 and the MaxiTPMS tablet has been established, and the tablet is ready for vehicle diagnosis.

4.1.1 Vehicle Connection

The method used to connect the MaxiVCI V200 to a vehicle's DLC depends on the vehicle's configuration as follows:

- A vehicle equipped with an On-board Diagnostics Two (OBDII) management system supplies both communication and 12-volt/24-volt power through a standardized J-1962 DLC.
- A vehicle not equipped with an OBDII management system supplies communication through a DLC connection, and in some cases supplies 12-volt power through the auxiliary power outlet or a connection to the vehicle battery.

OBDII Vehicle Connection

This type of connection does not require an additional adapter. Simply connect the MaxiVCI V200 to the vehicle's DLC (OBD-II port), which is usually located under the vehicle dash.

NOTE

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

Non-OBDII Vehicle Connection

This type of connection requires a Deutsch-9/Deutsch-6/UNI-4 adapter for the specific vehicle being serviced.

There are three possible scenarios for Non-OBDII vehicle connection:

- DLC connection supplies both communication and power.
- DLC connection supplies communication and power, which is to be supplied via the vehicle’s auxiliary power outlet.
- DLC connection supplies communication and power, which is to be supplied via a connection to the vehicle battery.

➢ **To connect to a Non-OBDII Vehicle**

1. Locate the required Deutsch-9/Deutsch-6/UNI-4 adapter and connect its 16-pin jack to the Vehicle Data Connector on the MaxiVCI V200.
2. Connect the attached Deutsch-9/Deutsch-6/UNI-4 adapter to the vehicle's DLC.

NOTE

Some vehicles may have more than one adapter or may have test leads instead of an adapter. Make the proper connection to the vehicle DLC as required.

➢ **To connect the auxiliary power outlet adapter**

1. Plug the DC power connector of the auxiliary power outlet adapter into the DC power supply input port of the UNI-4 adapter.
2. Connect the 16-pin jack of the UNI-4 adapter to the Vehicle Data Connector on the MaxiVCI V200.
3. Connect the male connector of the auxiliary power outlet adapter to the vehicle’s auxiliary power outlet.

➢ **To connect the clamp cable**

1. Connect the tubular plug of the clamp cable to the male connector of the auxiliary power outlet adapter.

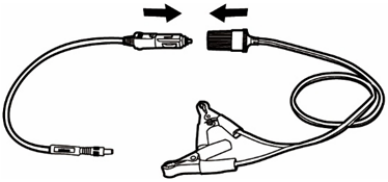


Figure 4-1 ***Connect Auxiliary Power Outlet Adapter to Clamp Cable***

2. Plug the DC power connector of the auxiliary power outlet adapter into the DC power supply input port of the UNI-4 adapter.
3. Connect the 16-pin jack of the UNI-4 adapter to the Vehicle Data Connector on the MaxiVCI V200.
4. Connect the clamp cable to the vehicle's battery.

4.1.2 VCI Connection

After the MaxiVCI V200 device is properly connected to the vehicle, the Power LED illuminates solid green, indicating that it is ready to establish communication with the MaxiTPMS tablet.

The MaxiVCI V200 device supports two communication methods with the MaxiTPMS tablet: Bluetooth or a USB-C to USB-C cable connection.

4.1.2.1 Bluetooth Connection

Bluetooth pairing is recommended as the first choice for the communication between the MaxiTPMS tablet and the MaxiVCI V200. This is because the Bluetooth connection does not need to repeat the plugging and unplugging procedure, which is unavoidable when using a traditional wired connection, saving more time and providing higher efficiency. The working range for Bluetooth communication is about 33 feet (about 10 m), enabling remote vehicle diagnostics.

Refer to *Bluetooth Connection* for detailed information.

4.1.2.2 USB-C to USB-C Cable Connection

The communication between the MaxiTPMS tablet and the MaxiVCI V200 device can also be established using a USB-C to USB-C cable. However, the USB-C to USB-C cable is not included in the package. If you choose this method to establish communication between the devices, a USB-C to USB-C cable should be prepared by yourself.

4.1.3 No Communication Message

1. If the MaxiTPMS tablet is not connected to the MaxiVCI V200 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 V200 is powered up.
   - Check if the MaxiVCI V200 is properly positioned.
   - Check if the Vehicle/Connection LED on the MaxiVCI V200 is illuminated for Bluetooth or USB-C to USB-C cable connection.
   - In the case of Bluetooth connection, check if the network is configured correctly, or if the right MaxiVCI V200 has been paired up with the MaxiTPMS 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 V200 to obtain more stable signals and faster communication speed.
   - In the case of a USB-C to USB-C cable connection, check the cable connection between the MaxiTPMS tablet and the MaxiVCI V200.

2. If the MaxiVCI V200 is unable to establish a communication link, a prompt message displays with check instructions. The following conditions are the possible causes:

   - The MaxiVCI V200 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 in the vehicle or the adapter.
   - There is a circuit fault in the adapter.
   - Incorrect vehicle identification was entered.

4.2 Getting Started

4.2.1 CV TPMS Service Menu Layout

Tap **CV TPMS** on the MaxiTPMS Job Menu to access the Vehicle Identification screen.

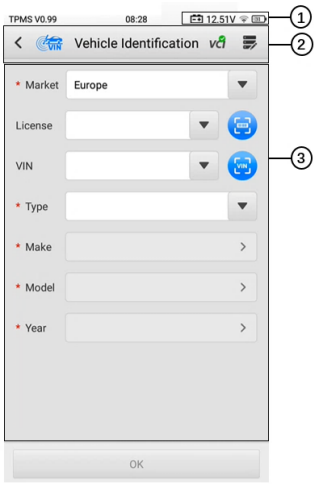


Figure 4-2 ***Vehicle Identification Screen***

1. Status Information Bar — refer to *Table 3-1 Status Information Bar* for details.
2. Top Toolbar Buttons — refer to *Table 4-1 Top Toolbar Buttons on Vehicle Menu* for details.
3. CV TPMS Service Access Methods

4.2.1.1 Top toolbar buttons

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

Table 4-1 ***Top Toolbar Buttons on Vehicle Menu***

Button	Name	Description
<	**Exit**	Returns to the MaxiTPMS Job Menu.
VIN	**Auto VIN Detect**	Automatically acquire the Vehicle Identification Number (VIN) information, vehicle make, model, and year. Refer to *Auto VIN Detect* for details.
VCI VCI	**VCI Status**	VCI: displays on the top toolbar when the MaxiVCI V200 is not connected to the tablet. VCI: displays after the MaxiVCI V200 is successfully connected to the tablet.

Button	Name	Description
	**Data Logging**	Records the communication data and ECU information of the test vehicle. When encountering an error during testing and diagnosing, use this function to contact Autel's technical support for solutions. Refer to *Data Logging* for details.

➢ **To send a message to the technical center**

1. After a testing or diagnostics session is done, tap  in the upper-right corner of the screen to make a selection of error type.
2. Tap **OK** to open the Details screen.
3. Describe problems in detail in the **Reason for Sending** section.
4. Confirm vehicle information, then tap  to upload data logs, or tap  in the upper-right corner of the screen to correct the vehicle information.

4.2.1.2 CV TPMS Service Access Methods

There are several options available on the screen when accessing the Vehicle Identification page to select the vehicle tested.

- **Market**

  Select the market where the user resides, with current options including Europe and North America, and potentially more regions to be supported in the future.
- **License**

  Tap  to scan the license plate number or manually input the plate number.
- **VIN**

  Tap  to perform the VIN Scan method or manually input the VIN code to identify your vehicle make/model/year.
- **Type**

  Select the commercial vehicle type: truck, bus, or trailer to perform the CV TPMS function.
- **Make**

  Tap the blank bar to the right, and the screen displays a list of vehicle manufacturers in alphabetical order. Select the auto manufacturer of your tested vehicle.
- **Model**

  Select the specific vehicle model of your vehicle from a list of models displayed.
- **Year**

  Select the model year you want to search for the vehicle.

NOTE

The red asterisk icons in the top-left corner of the optional headings indicate mandatory vehicle information to be acquired.

4.3 Vehicle Identification

There are four methods available for acquiring VIN information: Auto VIN Detect, Scan License, Scan VIN, and Manual Input.

4.3.1 Auto VIN Detect

The Auto VIN Detect function is used to quickly identify the test vehicle. Before operating, make sure a communication link is established between the test vehicle and the tablet via the MaxiVCI V200. Refer to *Establishing Vehicle Communication* for details.

Or, manually input on the Vehicle Identification screen and follow the on-screen instructions to select the vehicle make, model, and year.

4.3.2 Scan License

Tap on the right side of the screen. The camera will be opened. Place the tablet to align the license number within the scanning window. The result displays in the Recognition result dialog box after scanning. Tap **OK** to confirm the result. Once the license number is successfully detected, the screen will automatically jump to the Vehicle Identification page, and the license number scanned will display.

NOTE

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

Figure 4-3 ***Scan License Screen 1***

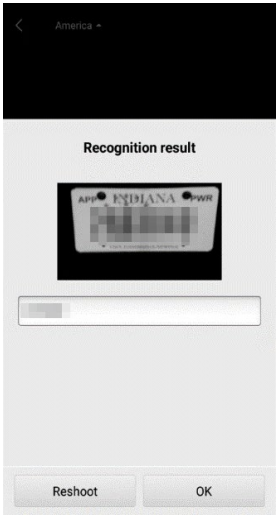


Figure 4-4 ***Scan License Screen 2***

4.3.3 Scan VIN

Tap to perform the Scan VIN method. The camera will be opened. Place the tablet to align the VIN code within the scanning window. The result displays in the Recognition result dialog box after scanning. Tap **OK** to confirm the result. Once the VIN code is successfully detected, the screen will automatically jump to the Vehicle Identification page with the VIN code scanned displayed.

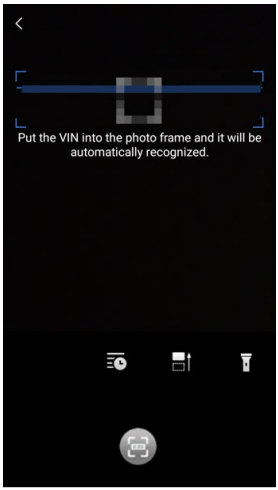


Figure 4-5 *Scan VIN Screen*

4.3.4 Manual Input

For vehicles that do not support scanning function, the MaxiTPMS system allows you to enter the vehicle VIN or license number manually, or simply take a photo of the VIN sticker or license plate for quick vehicle identification.

➢ **To perform Manual Input**

1. Tap the **CV TPMS** application from the MaxiTPMS Job Menu. The Vehicle Identification screen displays.
2. Select **License** or **VIN**, and tap the corresponding input box on the screen to open the keyboard.
3. Enter the correct license number or VIN code.
4. If no license plate or VIN code is available to identify the vehicle automatically, you can also choose the vehicle type, make, model, and year directly on the Vehicle Identification screen.

NOTE

If “trailer” is selected as the vehicle type to perform the CV TPMS work, VIN code inputting or scanning will not be supported.

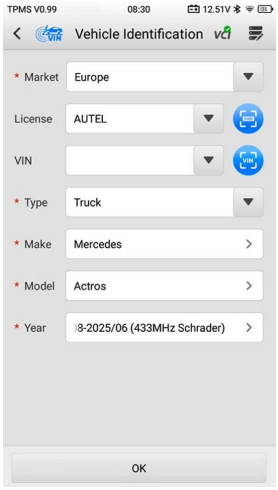


Figure 4-6 *Vehicle Information Selection Screen*

After selecting the vehicle information, the tablet will enter the CV TPMS Service Menu.

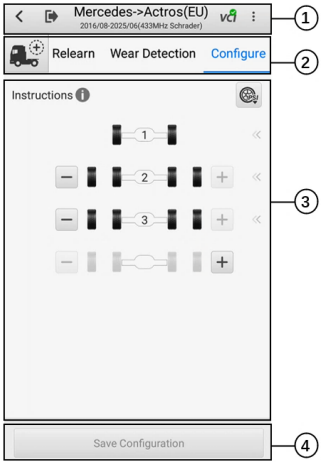


Figure 4-7 *TPMS Service Menu*

1. Top Toolbar Buttons — refer to Table 4-2 *Top Toolbar Buttons on Service Menu* for details.
2. Navigation Tab
3. Main Section
4. Function Buttons

4.3.4.1 Top Toolbar Buttons

Table 4-2 *Top Toolbar Buttons on Service Menu*

Button	Name	Description
	**Back**	Returns to the previous screen.
	**Exit**	Returns to the MaxiTPMS Job Menu.
	**VCI Status**	: displays on the top toolbar when the MaxiVCI V200 is not connected to the tablet. : displays after the MaxiVCI V200 is successfully connected to the tablet.
	**More**	Includes **Report** and **Data Logging** functions. ● **Report:** displays the TPMS test report page. Refer to *TPMS Test* Report for details. ● **Data Logging:** records the communication data and ECU information of the test vehicle. Refer to *Data Logging* for details.

4.3.4.2 Navigation Tab

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

1. Vehicle Type Icon — indicates the vehicle type for performing CV TPMS work. You can add a vehicle type to link the entire commercial vehicle, as well as switch, change, or remove a vehicle type according to the actual needs.
2. Check Tab — triggers sensors and displays sensor data.
3. Diagnostics Tab — communicates with the test vehicle to perform diagnostics functions, and displays diagnostics results of DTCs.
4. Programming Tab — programs the MX-sensors and displays the new programmed sensor IDs and sensor PSNs (Product Serial Number).

5. Relearn Tab — displays the OE sensor information & Relearn procedure. Follow the instructions to perform the relearn function.
6. Wear Detection Tab — inputs tire tread depth and displays results graphically.
7. Configure Tab — configures axle and wheel numbers and the tire pressure reference values for each axle. Follow the instructions to perform the configuration function.

NOTE

The vehicle type of bus does not support the Tractor-Trailer Linkage function, and the vehicle type icon will not display on the screen.
Not all vehicles support the Diagnostics function. If the selected vehicle model does not support the Diagnostics function, this tab will not display.

4.3.4.3 Main Section

The data displayed includes wheel axle and wheel numbers, tire pressure reference configuration, sensor ID, tire pressure, sensor frequency, tire temperature, and battery status, along with vehicle-specific relearn procedures, the specifics of which depend on the operation.

4.3.4.4 Function Buttons

Specific function buttons will display depending on the operation. These buttons or icons can be used to save axle and wheel configurations, trigger the TPMS sensor, create sensor IDs, program MX-Sensors, return to the previous screen, or exit, etc.

4.4 CV TPMS Configure

The **Configure** function allows users to configure axle and wheel numbers according to the specific commercial vehicle, and configure the tire pressure reference values for each axle.

After selecting the test commercial vehicle, the tablet will enter the Configure screen. Tap **Instructions** in the upper-left corner of the main section to view the guide. Follow the instructions to perform the configuration function.

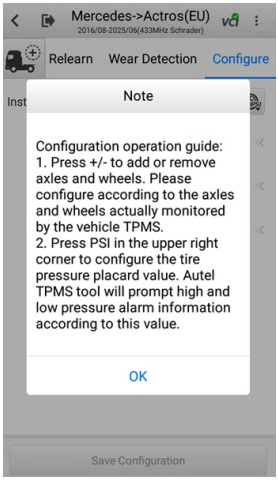


Figure 4-8 ***Configuration Instructions Screen***

Tap the button to configure tire pressure reference values for each axle and select the data unit from kPa, psi, or bar. When the axle pressure is detected to be 25% higher or lower than the reference value, the tablet will trigger an abnormality reminder.

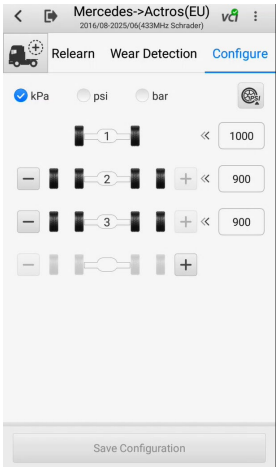


Figure 4-9 ***Configuration Screen***

4.5 CV TPMS Check

The **Check** function allows the user to activate the CV TPMS sensor to view sensor data — sensor ID, tire pressure, tire temperature, battery condition, and sensor position.

➢ **To check the sensors**

1. Follow the steps in *Vehicle Identification* to select the test commercial vehicle and finish configuration according to the instructions displayed on the Configuration screen.
2. Hold the front side of the tablet close to the sensor mounted on the wheel. The trigger antenna is embedded in the tablet's top middle area.
3. On the tablet, select the wheel you wish to trigger by either selecting the image of the wheel on the pictured vehicle or by selecting the corresponding wheel notation (1L, 1R, etc.). Tap the **Trigger** button to activate this sensor.
4. Once the sensor is successfully triggered, the information from the sensor will display.

NOTE

- If the battery level of a sensor is low, a red low battery icon will display beside the wheel on the screen.
- Once triggered, the wheel icons will display green or red, indicating sensor status. Refer to *Table 4-3 Possible Results for Triggering* for details.

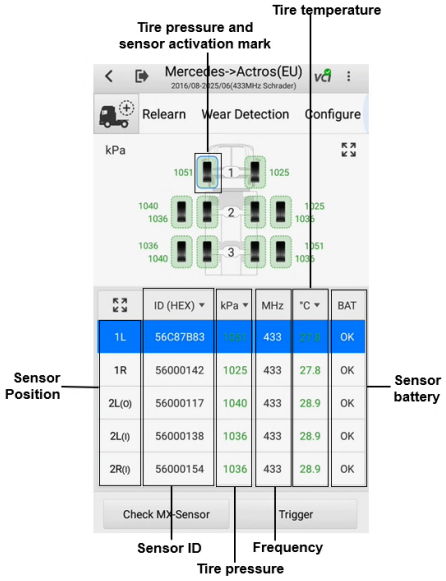


Figure 4-10 ***CV Check Screen***

The sensor position, sensor ID, tire pressure, tire temperature, sensor frequency, and sensor battery information of the triggered sensor will display on the table.

NOTE

1L, 1R, 2L(O), 2L(I), 2R(O), 2R(I), etc. indicate the sensor positions on each tire, where:

1. The leading number denotes the axle number.
2. “L” and “R” represent “Left” and “Right”, indicating the left and right wheels.
3. “O” and “I” in parentheses represent “Outer” and “Inner”, indicating the outer and inner wheels.

Table 4-3 *Possible Results for Triggering*

Icon	Results	Description
 (Green)	Successful Sensor Read	The TPMS sensor is successfully activated and decoded. The table displays the sensor information.
 (Green)	Successful Sensor Read & Low Battery	The 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 may not function. The table displays “Failed.” If the tire pressure is not in the normal range, the icon will turn red. If a sensor with a duplicate ID has been read, the screen displays a message “Sensor ID duplicated.” Repeat the test procedure.

4.6 CV TPMS Diagnostics

The **Diagnostics** function is used to check the status of the CV TPMS system. This function requires a connection with the test commercial vehicle.

4.6.1 CV Diagnosis Operations

Tap **Diagnostics**, and the tablet will automatically communicate with the commercial vehicle.

Figure 4-11 ***Communication Screen***

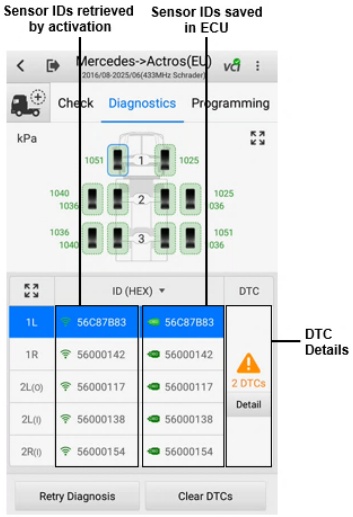


Figure 4-12 ***CV Diagnostics Screen***

If the OBD function is supported by the test commercial vehicle, the sensor ID saved in

the CV TPMS ECU will be retrieved and displayed on the screen with an OBD icon adjacent to it.

If the sensor ID retrieved from sensor activation is the same as the ID saved in the ECU, the trigger mark ( ) and OBD mark ( ) will display green.

If the IDs are different, the marks will display red (and). In this case, the ECU cannot recognize the sensor installed on the commercial vehicle.

If the OBD function is not supported by the test commercial vehicle, the sensor ID saved in the CV TPMS ECU cannot be retrieved, and only the sensor ID retrieved from sensor activation will display on the screen with a signal icon.

- **Details**

If Diagnostic Trouble Codes (DTCs) are presented in the CV TPMS ECU, a yellow hazard icon will show up in the DTC column with the number of faults displayed below, and the **detail** button is available (refer to *Figure 4-12 CV Diagnostics Screen*).

Tap **detail** in the DTC column to view the detailed information of the DTCs.

On this screen, the detailed fault definition will display. Select one of the DTCs and tap **Search**, and the tablet will automatically connect to the Internet, and additional information will display.

If no DTCs are present in the CV TPMS ECU, a green “No DTC” message will display on the DTC screen.

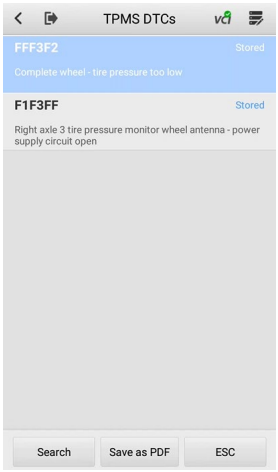


Figure 4-13 *CV TPMS DTCs Screen*

- **Retry Diagnosis**

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

- **Clear DTCs**

  Tap **Clear DTCs** to clear the DTCs from the ECU. It is recommended that DTCs be read and that needed repairs be performed before erasing codes.

4.7 CV Sensor Programming

The **Programming** function allows users to program the sensor data to the MX-Sensor to replace existing sensors with low battery life and those that are no longer functioning.

This device offers four programming methods when programming the MX-Sensor: **Copy by Activation**, **Copy by OBD**, **Copy by Input**, and **Auto Create**.

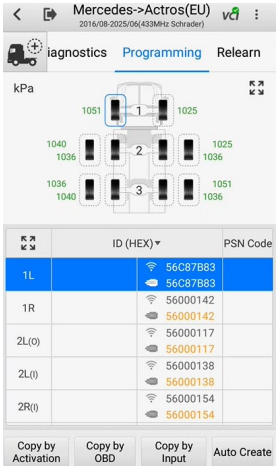


Figure 4-14 ***CV Sensor Programming Screen***

4.7.1 Copy by Activation

Once the sensors mounted on the commercial vehicle have been triggered and the sensor and tire information displayed on the tablet, you can apply **Copy by Activation** to program a new MX-Sensor (universal CV TPMS sensor provided by Autel).

Select a wheel location on the display screen and place an MX-Sensor in front of the tablet. Tap **Copy by Activation** to program a new MX-Sensor.

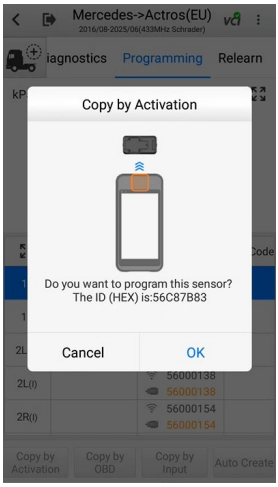


Figure 4-15 ***Copy by Activation Confirmation Screen***

A window will display for your confirmation. Tap **OK** to program, or tap **Cancel** to quit the operation.

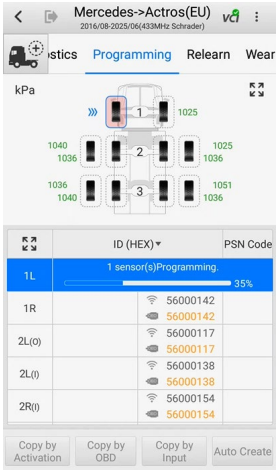


Figure 4-16 ***Copy by Activation Screen***

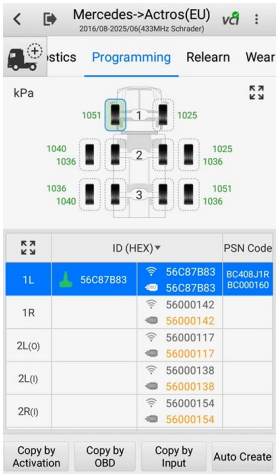


Figure 4-17 ***Copy by Activation Complete Screen***

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 1L column.

By using **Copy by Activation**, the sensor ID that is retrieved from the activated sensor is programmed to the new MX-Sensor.

Normally, since the IDs of the original sensor and the new MX-Sensor are the same and the ID is already recognized by the ECU, there is no need to perform the **Relearn** function when the new programmed sensor has been attached to the same wheel.

4.7.2 Copy by OBD

If the IDs retrieved from sensor activation and those registered to the CV TPMS ECU are different, use **Copy by OBD** to program the IDs saved in the ECU to the new MX-Sensor.

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

After the sensor ID is retrieved by performing the CV diagnostics function. Select a wheel location on the display and place an MX-Sensor in front of the tablet. Tap **Copy by OBD** to program the new MX-Sensor.

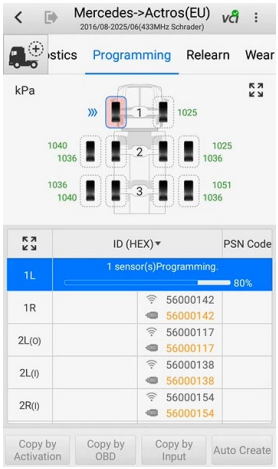


Figure 4-18 ***Copy by OBD Screen***

When the programming is complete, the programmed ID will display in the column to the left of the wheel designation. In the pictured example, the new ID is displayed to the right of the 1L column.

By using **Copy by OBD**, the sensor ID that is retrieved from the CV TPMS ECU is programmed to the new MX-Sensor.

Normally, 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.

The **Copy by OBD** programming method, if available, is recommended to program new MX-Sensors, as there is no need for Relearn.

4.7.3 Copy by Input

The **Copy by Input** allows users to manually enter the Sensor ID and program a new MX-Sensor with the ID of an original CV TPMS sensor.

Select a wheel location on the display, place an MX-Sensor in front of the tablet, and then tap **Copy by Input** to program the new MX-Sensor.

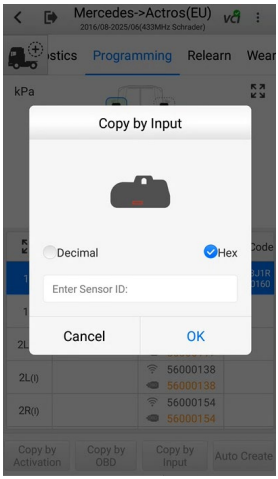


Figure 4-19 ***Copy by Input Screen***

Tap **Copy by Input**. When the input box displays, enter the ID of the original sensor. Tap inside the input box to display a soft keyboard. Once displayed, input the ID.

NOTE

Sensors either have a hexadecimal format or a decimal format. A warning message will display if too many characters are entered.

The **Copy by Input** programming method uses the ID of the original sensor that is already stored within the CV TPMS ECU and therefore normally does not require the sensor to be relearned if the new programmed sensor has been put in the same position.

4.7.4 Auto Create

The **Auto Create** function is used to automatically create new sensor IDs to program new MX-Sensors. Make sure the sensors to be auto-created are placed within 0.33 feet (10 cm) of the tablet, and avoid possible programming errors by putting the other sensors at least 3.94 feet (1.2 m) away from the tablet. Up to 20 MX-Sensors can be programmed at the same time.

Select the vehicle model. Select a wheel location on the display and place MX-Sensors in front of the tablet. Tap **Auto Create** to program new MX-Sensors.

New IDs will be created for the MX-Sensors. These new IDs differ from the IDs stored in the CV TPMS ECU. Therefore, the sensors will have to be relearned to the CV TPMS ECU.

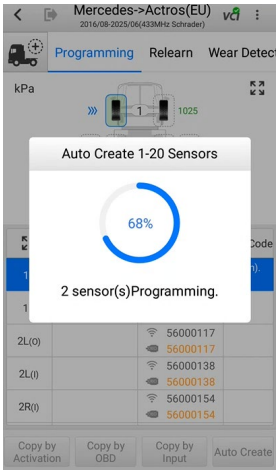


Figure 4-20 *Auto Create Screen*

NOTE

A maximum of 20 MX-Sensors can be programmed at once, without unboxing. It is suggested to place the tablet in front of the longer side of the packaging box for the best programming result. Refer to *Figure 4-21 Auto Create Diagram* below for more information.

➢ **To program 20 MX-Sensors without unboxing**

1. Tap **Auto Create**.
2. The tablet will create and display the new IDs.
3. Place the new MX-Sensors in front of the MaxiTPMS tablet.
4. Tap **OK** to program the sensors with the new IDs.

NOTE

Since new IDs have been created, a relearn process is essential.

Figure 4-21 ***Auto Create Diagram***

4.8 CV TPMS Relearn

This function is used to transfer new sensor IDs into the ECU for sensor recognition. Step-by-step relearn instructions are provided for all supported commercial vehicles. Relearning is needed when the new sensor IDs are different from the original sensor IDs stored within the CV TPMS ECU.

Three major methods are available for relearn process. According to the actual situation, perform the most suitable CV TPMS relearn method.

- OBD Relearn
- Automatic Relearn
- Stationary Relearn

4.8.1 OBD Relearn

4.8.1.1 OBD Relearn

The OBD Relearn function allows the MaxiTPMS tablet to directly write the CV TPMS sensor IDs to the TPMS module.

NOTE

A few commercial vehicles do not support OBD Relearn for the original design. If the function is supported by the selected commercial vehicle, the **OBD Relearn** button will display at the bottom of the screen. Regarding some commercial vehicles, if OBD Relearn is not provided by the tool, then the **OBD Relearn** button will not display.

To perform the Relearn function, activate all the sensors.

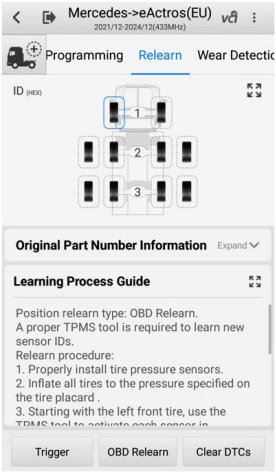


Figure 4-22 *OBD Relearn Screen 1*

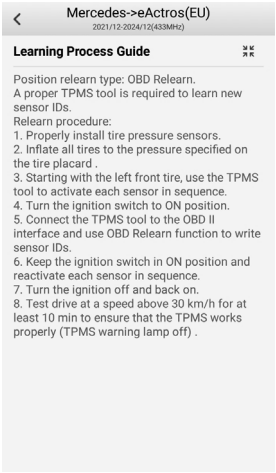


Figure 4-23 *OBD Relearn Screen 2*

4.8.2 Automatic Relearn

For some commercial vehicles, the Relearn function can be completed by driving. Refer to the on-screen Relearn Procedure for the exact details of the process.

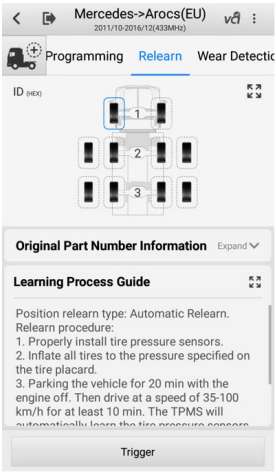


Figure 4-24 *Automatic Relearn Screen 1*

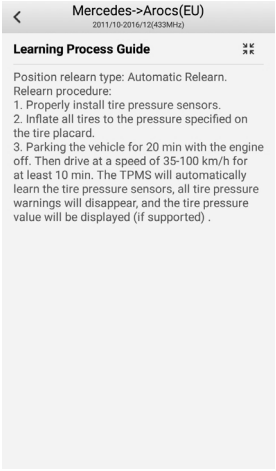


Figure 4-25 ***Automatic Relearn Screen 2***

4.8.3 Stationary Relearn

Stationary Relearn requires the commercial vehicle to be placed in the “Relearn Mode”.

Tap **Relearn** to access the relearn menu.

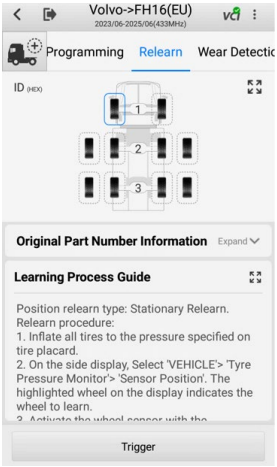


Figure 4-26 ***Stationary Relearn Screen 1***

Then follow the **Relearn Procedure** to perform Stationary Relearn.

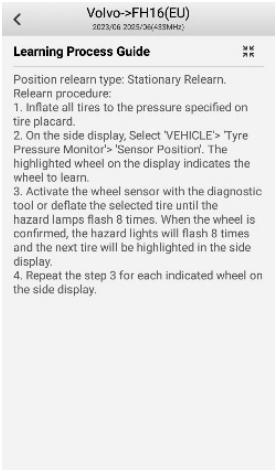


Figure 4-27 ***Stationary Relearn Screen 2***

4.9 Wear Detection

Wear Detection is used to detect the wear condition of the tire tread, and the measurement data can be added to the CV TPMS test report for comprehensive analysis.

4.9.1 Check Settings

Check Settings include configurable options such as check mode, tire type, limit values, and data unit.

- Tread Check Mode — two modes are available, including All tread check and Single check.
- Tire Type — displays three tire types, including Summer, Winter, and All-season tires.
- Tire Tread Wear Limit Settings — displays the default settings of tire tread wear parameters.
- Data Unit — adjusts the measurement unit.

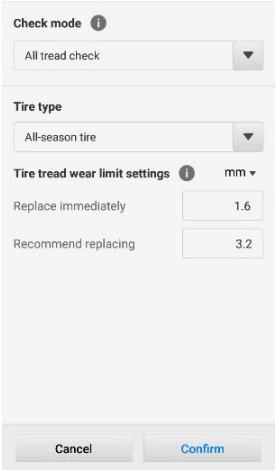


Figure 4-28 *Check Settings Screen*

4.9.1.1 All Tread Check

The All Tread Check mode analyzes tire wear across three positions on each tire: outer, center, and inner, to provide a comprehensive inspection.

4.9.1.2 Single Tread Check

The Single Tread Check mode measures tread depth at one position on each tire of the test vehicle.

4.9.2 Measurement Data Input

After the measurement is complete, tap **Manual Input** at the bottom of the screen, and the measurement input screen will display. Tap inside the input box to display a soft keyboard and input the measurement data. After all the data is input, return to the Wear detection screen.

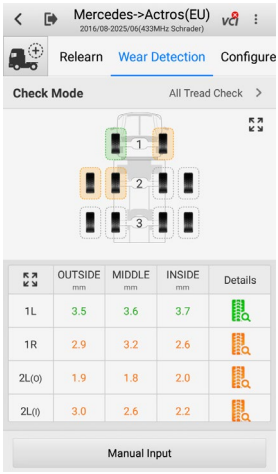


Figure 4-29 *All Tread Check Screen*

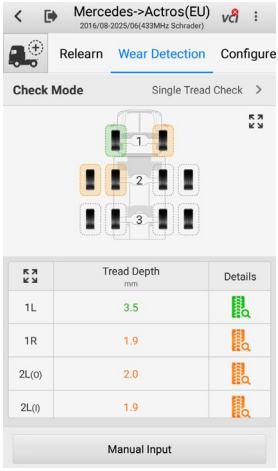


Figure 4-30 *Single Tread Check Screen*

4.9.3 Details

The **Details** screen displays tire tread information. After measurements are complete, select a tire and tap the corresponding tire tread icon under the Details column to proceed to the next screen.

Displayed sections vary by check mode, and measurement data changes color based on the manually selected tire condition for a comprehensive analysis.

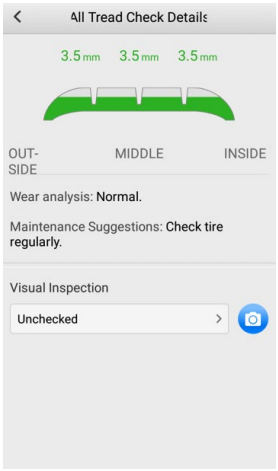


Figure 4-31 ***Details Screen***

1) Graphic measurements — displays measurements data graphically, with different colors indicating varying tire tread wear conditions.
2) Visual Inspection — displays with nine tire statuses, including normal, worn, and bulge.

On the Wear Detection screen, measurements and the tire tread icon will display green, yellow, or red, indicating wear status. Refer to *Table 4-2 Top Toolbar Buttons on Service Menu* for details.

Tap ⋮ > **Report** in the top-right corner of the screen to access the CV TPMS test report generated.

Tire Tread icons are highlighted with colors that are described in the table below.

Table 4-4 ***Possible Results for Measurements***

Tire Tread	Results	Description
(Gray)	Untested	The tire/ is untested.

Tire Tread	Results	Description
 (Green)	Good	The tire is in good condition.
 (Yellow)	A replacement is recommended.	It is suggested to replace the tire.
 (Red)	Immediate replacement is recommended.	It is suggested to replace the tire immediately.

4.10 Tractor-Trailer Linkage

This function allows you to perform CV TPMS work on a commercial vehicle, covering both tractor and trailer components. If you have completed CV TPMS on a tractor or on a trailer, you can tap the  icon to add the trailer and perform the CV TPMS function, or tap the  icon to add the tractor and perform the function. As an example, consider initially selecting a truck to perform CV TPMS work, and then adding a trailer.

➢ To link the entire commercial vehicle

1. Tap **CV TPMS** on the MaxiTPMS Job Menu to access the Vehicle Identification screen.
2. Tap  button to open a drop-down list and select **Truck**.

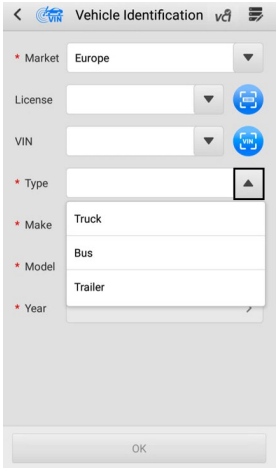


Figure 4-32 *Vehicle Type Selecting Screen*

3. Follow the steps in *Vehicle Identification* and *CV TPMS Configure* to select the test vehicle and complete configuration operations. Then tap the icon on the left side of the top toolbar to enter the Add Trailer screen. The tractor information will be saved.

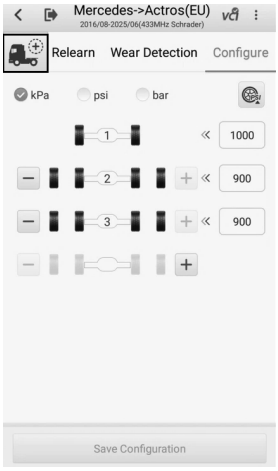


Figure 4-33 *Tractor Configuration Screen*

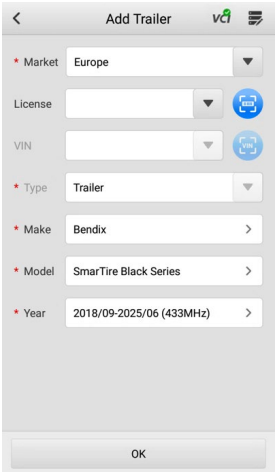


Figure 4-34 ***Add Trailer Screen***

4. Complete the vehicle information for the trailer and tap **OK** at the bottom of the screen to enter the Configure screen. After performing the trailer configuration function, the trailer and the tractor establish a connection.

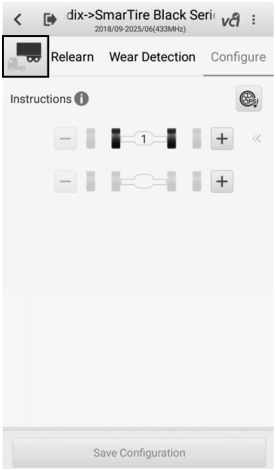


Figure 4-35 ***Trailer Configuration Screen***

5. Tap the icon to open a drop-down list: **Switch to tractor**, **Change trailer**, and **Remove trailer**.

- Switch to tractor: tap to switch to the tractor screen. The trailer information will be saved.
- Change trailer: tap to return to the Add Trailer screen and change the trailer information.
- Remove trailer: tap to delete the current trailer information.

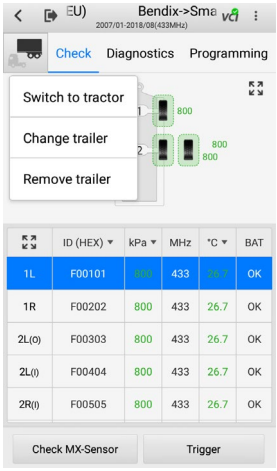


Figure 4-36 *Trailer Screen*

6. If the screen is switched to the tractor screen, you can tap the icon to open a drop-down list: **Switch to trailer**, **Change trailer**, and **Remove trailer**.
   - Switch to trailer: tap to switch to the trailer screen. The tractor information will be saved.
   - Change trailer: tap to return to the Add Trailer screen and change the trailer information.
   - Remove trailer: tap to delete the current trailer information.

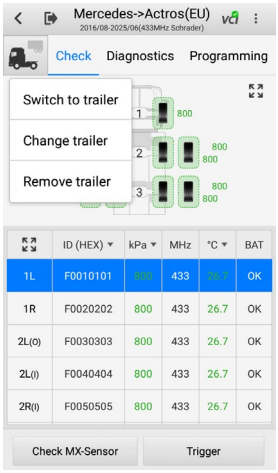


Figure 4-37 ***Tractor Screen***

NOTE

If you initially select the truck as the vehicle type to perform the CV TPMS work, the tractor information cannot be changed or deleted. Similarly, if you initially select the trailer, the trailer information also cannot be changed or deleted.

7. After the tractor and trailer have established a connection and completed the CV TPMS work, tap the ⋮ on the top-right of the service menu and tap **Report** to generate a CV TPMS report that includes the tractor and trailer information. Refer to *TPMS Test Report* for details.

5 TPMS

The MaxiTPMS tablet offers a comprehensive range of services and functions related to TPMS for light commercial vehicles. The TPMS function for passenger vehicles becomes available upon purchasing the TPMS package, and the icon label is upgraded from “LCV TPMS” to “TPMS”. For details, refer to *Activate More*.

5.1 Getting Started

Prior to the use of the application, ensure the MaxiVCI V200 is properly connected to and is communicating with the tablet. Refer to *Establishing Vehicle Communication* for further details.

5.1.1 TPMS Service Menu Layout

Tap **TPMS** on the MaxiTPMS Job Menu to access the Vehicle Identification screen.

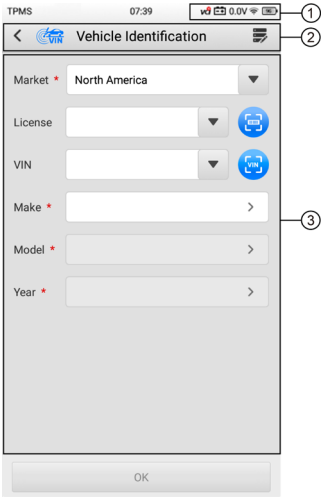


Figure 5-1 ***Vehicle Identification Screen***

1. Status Information Bar — refer to *Table 3-1 Status Information Bar* for details.
2. Top Toolbar Buttons — refer to *Table 5-1 Top Toolbar Buttons on Vehicle Menu* for details.
3. TPMS Service Access Methods

5.1.1.1 *Top toolbar buttons*

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

Table 5-1 ***Top Toolbar Buttons on Vehicle Menu***

Button	Name	Description
	**Exit**	Returns to the MaxiTPMS Job Menu.
	**Auto VIN Detect**	Automatically acquire the Vehicle Identification Number (VIN) information, vehicle make, model, and year. Refer to *Auto VIN Detect* 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 support for solutions. Refer to *Data Logging* for details.

5.1.1.2 *TPMS Service Access Methods*

There are six options available on the screen when accessing the Vehicle Identification page to select the vehicle tested.

- **Market**

  Select the market where the user resided, featuring the Europe, North America, Korea, Japan, and Australia markets.
- **License**

  Tap  to scan the license plate number or manually input the plate number.
- **VIN**

  Tap  to perform the VIN Scan method or manually input the VIN code to identify your vehicle make/model/year.
- **Make**

  Tap the blank bar to the right, and the screen displays a list of vehicle manufacturers in alphabetical order. Select the auto manufacturer of your tested vehicle.
- **Model**

  Select the specific vehicle model of your vehicle from a list of models displayed.

- **Year**

  Select the model year you want to search for the vehicle.

NOTE

The red asterisk icons in the top-left corner of the optional headings indicate mandatory vehicle information to be acquired.

5.2 Vehicle Identification

There are four methods available for acquiring VIN information: Auto VIN Detect, Scan License, Scan VIN, and Manual Input.

5.2.1 Auto VIN Detect

The Auto VIN Detect function is used to quickly identify the test vehicle. Before operating, make sure a communication link is established between the test vehicle and the tablet via the MaxiVCI V200. Refer to *Establishing Vehicle Communication* for details.

Or, manually input on the Vehicle Identification screen and follow the on-screen instructions to select the vehicle make, model, and year. This function is compatible with 1998 and newer vehicles.

5.2.2 Scan License

Tap  on the right side of the screen. The camera will be opened. Place the tablet to align the license number within the scanning window. The result displays in the Recognition result dialog box after scanning. Tap **OK** to confirm the result. Once the license number is successfully detected, the screen will automatically jump to the Vehicle Identification page, and the license number scanned will display.

NOTE

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

Figure 5-2 ***Scan License Screen 1***

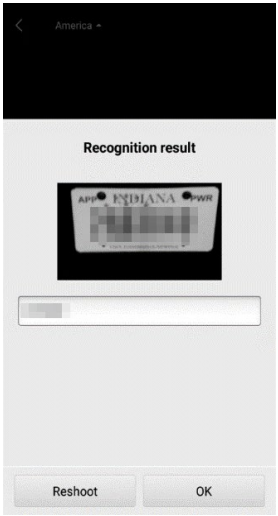


Figure 5-3 ***Scan License Screen 2***

5.2.3 Scan VIN

Tap to perform the Scan VIN method. The camera will be opened. Place the tablet to align the VIN code within the scanning window. The result displays in the Recognition result dialog box after scanning. Tap **OK** to confirm the result. Once the VIN code is successfully detected, the screen will automatically jump to the Vehicle Identification page with the VIN code scanned displayed.

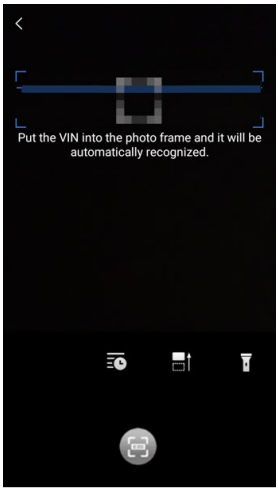


Figure 5-4 ***Scan VIN Screen***

5.2.4 Manual Input

For vehicles that do not support scanning function, the MaxiTPMS system allows you to enter the vehicle VIN or license number manually, or simply take a photo of the VIN sticker or license plate for quick vehicle identification.

➢ **To perform Manual Input**

1. Tap the **TPMS** application from the MaxiTPMS Job Menu. The Vehicle Identification screen displays.
2. Select **License** or **VIN**, and tap the corresponding input box on the screen to open the keyboard.
3. Enter the correct license number or VIN code.
4. If no license plate or VIN code is available to identify the vehicle automatically, you can also choose the vehicle make, model, and year directly on the Vehicle Identification screen.

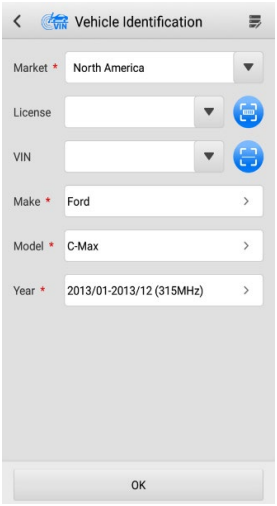


Figure 5-5 ***Vehicle Information Selection Screen***

The following screen may display for vehicles using Indirect TPMS.

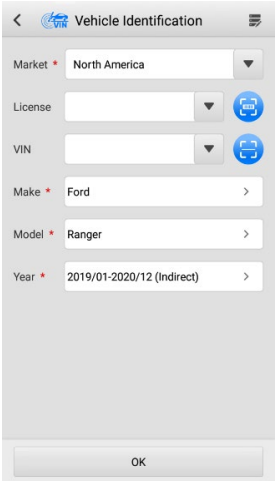


Figure 5-6 ***Indirect TPMS Selection Screen***

For an **indirect TPMS** vehicle, only the **Relearn** function is supported. Not all vehicles provide the Indirect TPMS mode. Tap the **Year** option bar to open a dropdown list of model years. Find the model year that denotes with an indirect

TPMS system on the screen, for example, in the case of the above screen — 2019/01-2020/12 (indirect), a vehicle year model confirmation message displays, tap **OK** to confirm and display the Relearn Procedure, and follow the instructions to complete the operation.

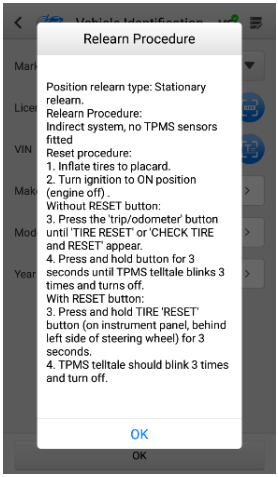


Figure 5-7 ***Relearn Procedure for Indirect TPMS***

For vehicles using **Direct TPMS**, select the correct vehicle. The TPMS Service Menu will display.

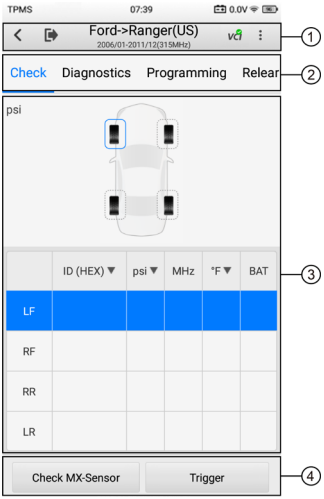


Figure 5-8 *TPMS Service Menu*

1. Top Toolbar Buttons — refer to *Table 5-2 Top Toolbar Buttons on Service Menu* for details.
2. Navigation Tab
3. Main Section
4. Function Buttons

5.2.4.1 Top Toolbar Buttons

Table 5-2 *Top Toolbar Buttons on Service Menu*

Button	Name	Description
	Back	Returns to the previous screen.
	Exit	Returns to the MaxiTPMS Job Menu.
	VCI Status	: displays on the top toolbar when the MaxiVCI V200 is not connected to the tablet. : displays after the MaxiVCI V200 is successfully connected to the tablet.

Button	Name	Description
⋮	**More**	Includes **Data Logging** and **Report** functions. ● **Data Logging:** records the communication data and ECU information of the test vehicle. Refer to *Data Logging* for details. ● **Report:** displays the TPMS test report page. Refer to *TPMS Test Report* for details.

5.2.4.2 Navigation Tab

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

1. Check Tab — triggers sensors and displays sensor data.
2. Diagnostics Tab — communicates with the test vehicle to perform diagnostics functions, and displays diagnostics results, including live data and DTCs.
3. Programming Tab — programs the MX-sensors and displays the new programmed sensor IDs and sensor PSNs (Product Serial Number).
4. Relearn Tab — displays the OE sensor information & Relearn procedure. Follow the instructions to perform the relearn function.
5. Retrofit Tab — performs retrofit-related functions of the selected vehicle model.
6. Wear Detection Tab — measures tire tread depth and brake disc wear and displays results graphically.

NOTE

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

5.2.4.3 Main Section

The data displayed includes sensor ID, tire pressure, sensor frequency, tire temperature, and battery status, along with vehicle-specific relearn procedures, the specifics of which depend on the operation.

5.2.4.4 Function Buttons

Specific function buttons will display depending on the operation. These buttons or icons can be used to trigger the TPMS sensor, create sensor IDs, program MX-Sensors, and return to the previous screen or exit, etc.

5.3 TPMS Check

The **Check** function allows the user to activate the TPMS sensor to view sensor data —

sensor ID, tire pressure, tire temperature, battery condition, and sensor position.

➢ **To check the sensors**

1. Follow the steps in *Vehicle Identification* to select the test vehicle.
2. Hold the top side of the tablet close to the sensor mounted on the wheel. The trigger antenna is embedded in the tablet's top middle area.
3. On the tablet, select the wheel you wish to trigger by either selecting the image of the wheel on the pictured vehicle or by selecting the corresponding wheel notation (LF, RF, RR, and LR). Tap the **Trigger** button to activate this sensor.
4. Once the sensor is successfully triggered, the information from the sensor will display.

NOTE

- If the battery level of a sensor is low, a red low battery icon will display beside the wheel on the screen.
- Once triggered, the wheel icons will display green or red, indicating sensor status. Refer to *Table 5-3 Possible Results for Triggering* for details.

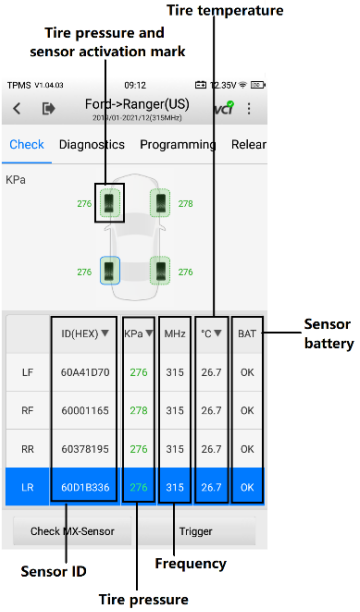


Figure 5-9 *Check Screen*

The sensor position, sensor ID, tire pressure, tire temperature, sensor frequency, and sensor battery information of the triggered sensor will display on the table.

Table 5-3 *Possible Results for Triggering*

Icon	Results	Description
 (Green)	Successful Sensor Read	The TPMS sensor is successfully activated and decoded. The table displays the sensor information.
 (Green)	Successful Sensor Read & Low Battery	The 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 may not function. The table displays “Failed.” If the tire pressure is not in the normal range, the icon will turn red. If a sensor with a duplicate ID has been read, the screen displays a message “Sensor ID duplicated.” Repeat the test procedure.

5.4 TPMS Diagnostics

The **Diagnostics** function is used to check the status of the TPMS system. This function requires a connection with the test vehicle.

5.4.1 Diagnosis Operations

Tap **Diagnostics**, and the tablet will automatically communicate with the vehicle.

Figure 5-10 *Communication Screen*

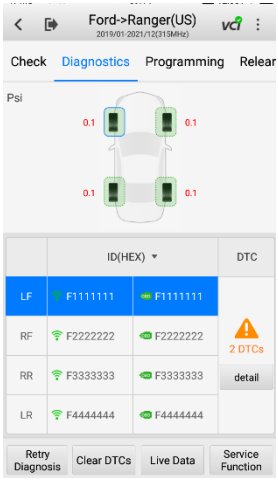


Figure 5-11 *Diagnostics Screen*

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 icon adjacent to it.

If the sensor ID retrieved from sensor activation is the same as the ID saved in the ECU, the trigger mark ( ) and OBD mark ( ) will display green.

If the IDs are different, the marks will display red (and). In this case, the vehicle

ECU cannot recognize the sensor installed on the vehicle.

If the OBD function is not supported by the test vehicle, the sensor ID saved in the TPMS ECU cannot be retrieved, and only the sensor ID retrieved from sensor activation will display on the screen with a signal icon.

Details

If Diagnostic Trouble Codes (DTCs) are presented in the TPMS ECU, a yellow hazard icon will show up in the DTC column with the number of faults displayed below, and the **detail** button is available (refer to *Figure 5-11 Diagnostics Screen*).

Tap **detail** in the DTC column to view the detailed information of the DTCs.

On this screen, the detailed fault definition will display. Select one of the DTCs and tap **Search**, and the tablet will automatically connect to the Internet, and additional information will display.

If no DTCs are present in the TPMS ECU, a green “No DTC” message will display on the DTC screen.

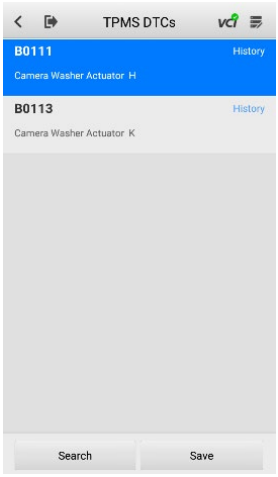


Figure 5-12 *TPMS DTCs Screen*

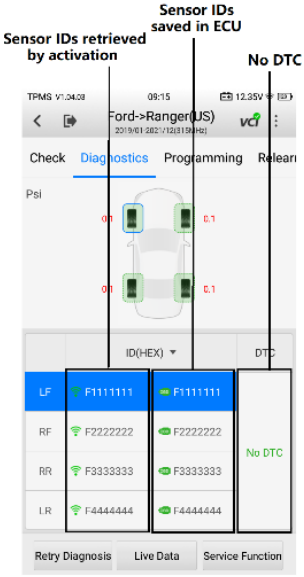


Figure 5-13 *No DTC Screen*

- **Retry Diagnosis**

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

- **Clear DTCs**

  Tap **Clear DTCs** to clear the DTCs from the ECU. It is recommended that DTCs be read and that needed repairs be performed before erasing codes.

- **Live Data**

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

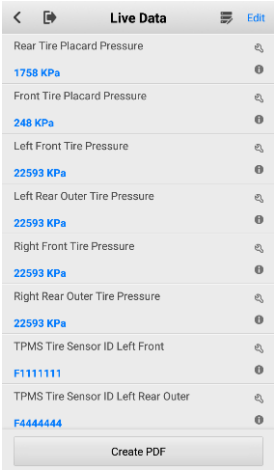


Figure 5-14 *Live Data Screen*

The Live Data screen displays all real-time data.

- Tap on the right side of the screen to view details of the data stream.
- Tap to open the dialogue box on the screen for additional information.

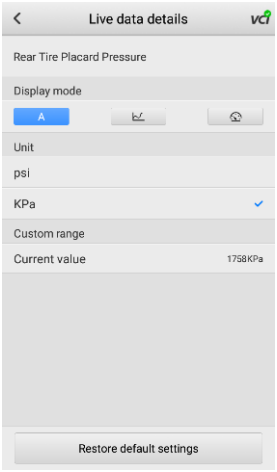


Figure 5-15 *Details of Live Data Screen*

There are three types of display modes available for data viewing, enabling you to view

parameters in the mode that best suits to present data, and a Unit section, for switching the unit according to your preference.

➢ **To set the display mode**

1. Select the live data item whose parameters you want to view. Tap to open the data stream details page.
2. Select one of the three display modes from the Display Mode section.
3. The corresponding display mode will show on the screen.

Table 5-4 *Display Mode Table*

Icon	Mode	Description
	**Digital Mode**	The default mode that displays the parameters in text.
	**Waveform Mode**	Displays the parameters in a waveform.
	**Analog Gauge Mode**	Displays the parameters in an analog gauge mode.

4. On the **Live Data Details** screen, the custom range is adjustable if under the waveform and analog gauge mode. Tap the **Restore Default Settings** button at the bottom of the screen to reset settings, or tap the **Return** icon in the top-left corner of the screen to go back to the previous screen, and the adjusted parameters will automatically display.

- **Service Function**

  Tap the **Service Function** button to display a menu of available service functions.

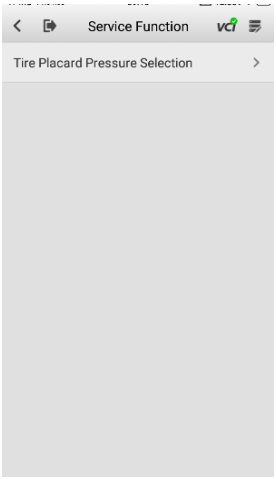


Figure 5-16 ***Service Function Screen***

Tap the function displayed to initiate the desired service.

5.5 Sensor Programming

The **Programming** function allows users to program sensor data to the MX-Sensor to replace existing sensors with low battery life and those that are no longer functioning.

This device offers four programming methods when programming the MX-Sensor: **Copy by Activation**, **Copy by OBD**, **Copy by Input**, and **Auto Create**.

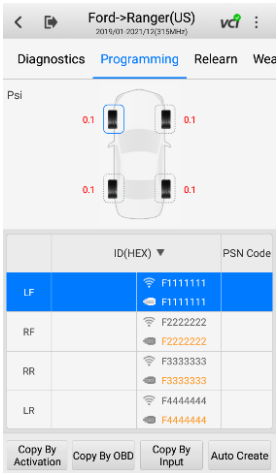


Figure 5-17 ***Programming Screen***

5.5.1 Copy by Activation

Once the sensors mounted on the vehicle have been triggered and the sensor and tire information displayed on the tablet, you can apply **Copy by Activation** to program a new MX-Sensor (universal TPMS sensor provided by Autel).

Select a wheel location on the display screen and place an MX-Sensor in front of the tablet. Tap **Copy by Activation** to program a new MX-Sensor.

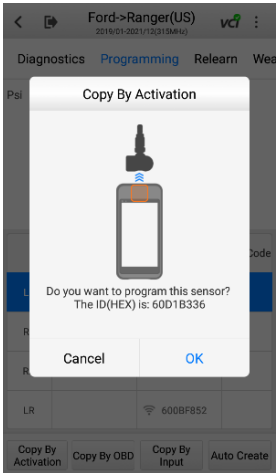


Figure 5-18 ***Copy by Activation Confirmation Screen***

A window will display for your confirmation. Tap **OK** to program, or tap **Cancel** to quit the operation.

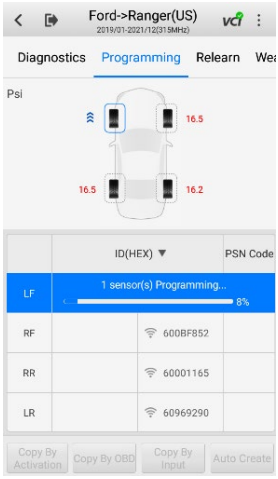


Figure 5-19 ***Copy by Activation Screen***

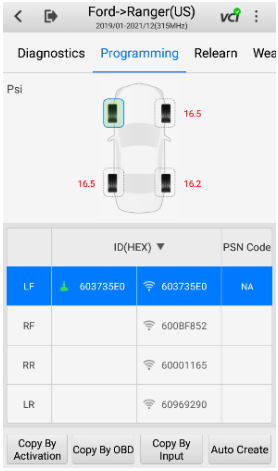


Figure 5-20 ***Copy by Activation Complete Screen***

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

By using **Copy by Activation**, the sensor ID that is retrieved from the activated sensor is programmed to the new MX-Sensor.

Normally, since the IDs of the original sensor and the new MX-Sensor are the same and the ID is already recognized by the vehicle's ECU, there is no need to perform the **Relearn** function when the new programmed sensor has been attached to the same wheel.

5.5.2 Copy by OBD

If the IDs retrieved from sensor activation and those registered to the TPMS ECU are different, use **Copy by OBD** to program the IDs saved in the ECU to the new MX-Sensor.

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

After the sensor ID is retrieved by performing the diagnostics function. Select a wheel location on the display and place an MX-Sensor in front of the tablet. Tap **Copy by OBD** to program the new MX-Sensor.

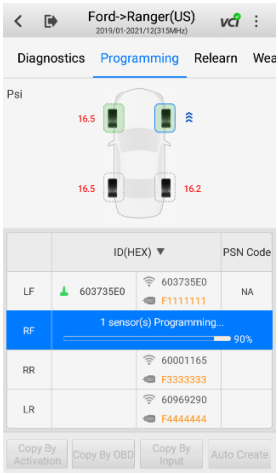


Figure 5-21 ***Copy by OBD Screen***

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

By using **Copy by OBD**, the sensor ID that is retrieved from the TPMS ECU is programmed to the new MX-Sensor.

Normally, 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.

The **Copy by OBD** programming method, if available, is recommended to program new MX-Sensors, as there is no need for Relearn.

5.5.3 Copy by Input

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

Select a wheel location on the display, place an MX-Sensor in front of the tablet, and then tap **Copy by Input** to program the new MX-Sensor.

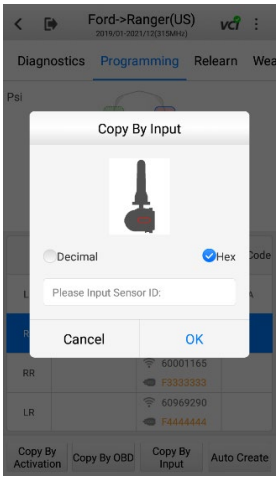


Figure 5-22 ***Copy by Input Screen***

Tap **Copy by Input**. When the input box displays, enter the ID of the original sensor. Tap inside the input box to display a soft keyboard. Once displayed, input the ID.

NOTE

Sensors either have a hexadecimal format or a decimal format. A warning message will display if too many characters are entered.

The **Copy by Input** programming method uses the ID of the original sensor that is already stored within the TPMS ECU and therefore, normally does not require the sensor to be relearned if the new programmed sensor has been put in the same position.

5.5.4 Auto Create

The **Auto Create** function is used to automatically create new sensor IDs to program new MX-Sensors. Make sure the sensors to be auto-created are placed within 0.33 feet (10 cm) of the tablet, and avoid possible programming errors by putting the other sensors at least 3.94 feet (1.2 m) away from the tablet. Up to 20 MX-Sensors can be programmed at the same time.

Select the vehicle model. Select a wheel location on the display and place MX-Sensors in front of the tablet. Tap **Auto Create** to program new MX-Sensors.

New IDs will be created for the MX-Sensors. These new IDs differ from the IDs stored in the TPMS ECU. Therefore, the sensors will have to be relearned to the TPMS ECU.

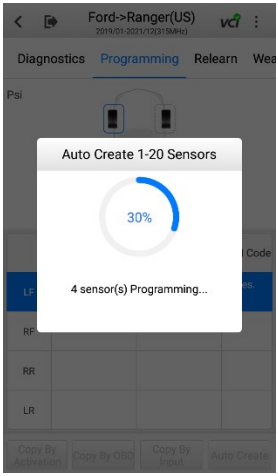


Figure 5-23 ***Auto Create Screen***

NOTE

A maximum of 20 MX-Sensors can be programmed at once, without unboxing. It is suggested to place the tablet in front of the longer side of the packaging box for the best programming result. Refer to *Figure 5-24 Auto Create Diagram* below for more information.

➢ **To program 20 MX-Sensors without unboxing**

1. Tap **Auto Create**.
2. The tablet will create and display the new IDs.
3. Place the new MX-Sensors in front of the MaxiTPMS tablet.
4. Tap **OK** to program the sensors with the new IDs.

NOTE

Since new IDs have been created, a relearn process is essential.

Figure 5-24 ***Auto Create Diagram***

5.6 TPMS Relearn

This function is used to transfer new sensor IDs into the vehicle ECU for sensor recognition. Step-by-step relearn instructions are provided for all supported vehicles. Relearning is needed when the new sensor IDs are different from the original sensor IDs stored within the TPMS ECU.

Three major methods are available for relearn process. According to the actual situation, perform the most suitable TPMS relearn method.

- OBD Relearn
- Automatic Relearn
- Stationary Relearn

5.6.1 OBD Relearn

5.6.1.1 OBD Relearn

The OBD Relearn function allows the MaxiTPMS tablet to directly write the TPMS sensor IDs to the TPMS module.

NOTE

A few vehicles do not support OBD Relearn for the original design. If the function is supported by the selected vehicle, the **OBD Relearn** button will display at the bottom of the screen. Regarding some vehicles, if OBD Relearn is not provided by the tool, then the **OBD Relearn** button will not display.

To perform the Relearn function, activate all four sensors.

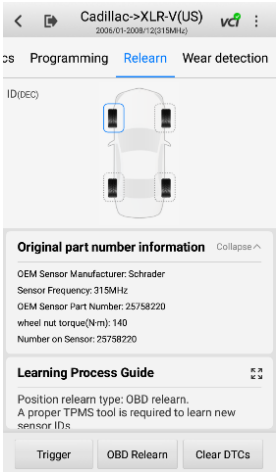


Figure 5-25 *OBD Relearn Screen 1*

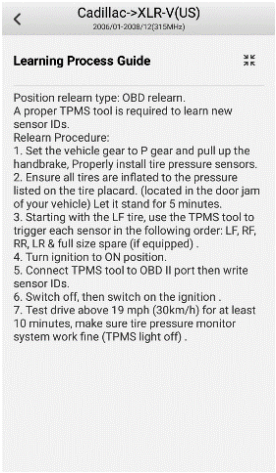


Figure 5-26 *OBD Relearn Screen 2*

5.6.2 Automatic Relearn

For some vehicles, the Relearn function can be completed by driving. Refer to the on-screen Relearn Procedure for the exact details of the process.

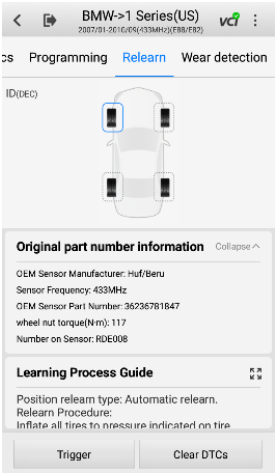


Figure 5-27 *Automatic Relearn Screen 1*

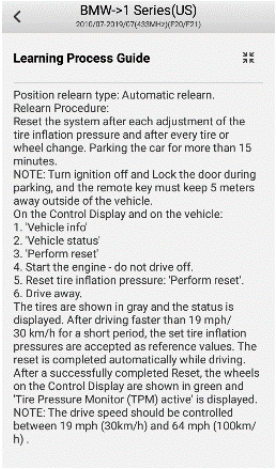


Figure 5-28 ***Automatic Relearn Screen 2***

5.6.3 Stationary Relearn

Stationary Relearn requires the vehicle to be placed in the “Relearn Mode”.

Tap **Relearn** to access the relearn menu.

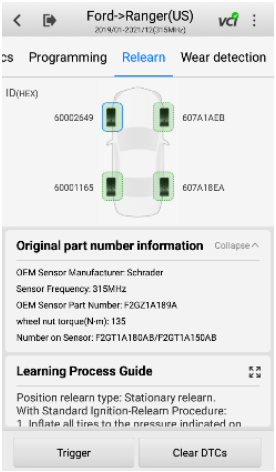


Figure 5-29 ***Stationary Relearn Screen 1***

Then follow the **Relearn Procedure** to perform Stationary Relearn.

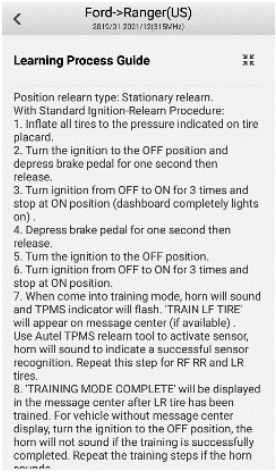


Figure 5-30 ***Stationary Relearn Screen 2***

5.7 Retrofit

Refer to *TPMS Retrofit* for details.

5.8 Wear Detection

Wear Detection is used to detect the wear condition of the tire tread and/or brake disc, and the measurement data can be added to the TPMS test report for comprehensive analysis.

5.8.1 Function Operations

Before performing the Wear Detection, configure Check Mode settings and pair the tablet with the corresponding TBE device. Then follow the instructions in the Note section to perform detection.

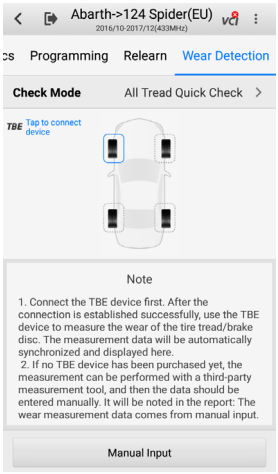


Figure 5-31 *Wear Detection Screen*

5.8.1.1 Check Settings

Check Settings include configurable options such as check mode, tire type, limit values, and data unit.

- Tread Check Mode — five modes are available, including Single Tread Check, All Tread Check, Brake Disc Check, Single Tread Quick check, and All Tread Quick Check.
- Tire Type — displays three tire types, including Summer, Winter, and All-season tires.
- Tire Tread Wear Limit Settings — displays the default settings of tire tread wear parameters.
- Brake Disc Wear Limit Settings — displays the default settings of brake disc wear parameters.
- Data Unit — adjusts the measurement unit.

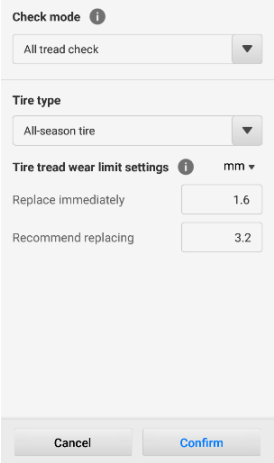


Figure 5-32 *Check Settings Screen*

5.8.1.2 TBE Manager

The wear detection function requires a TBE200 device (hereinafter referred to as the TBE device) to be connected to the tablet. After pairing, you can start inspection sessions on the TBE device, and measurement data will be automatically sent to the paired tablet.

NOTE

Before measurement, configure the settings on the Wear Detection screen via the tablet or through the Check Settings application on the TBE device.

➢ **To pair the tablet with the TBE device via Wi-Fi direct mode**

1. On the TBE device, go to **Settings** > **Network connection** > **Wi-Fi direct**, and swipe the Wi-Fi direct toggle to turn it on.
2. On the tablet, tap the TBE icon on the Wear Detection screen to access the TBE Manager screen for connection; or go to **Settings** > **TBE Manager** to access the same screen.

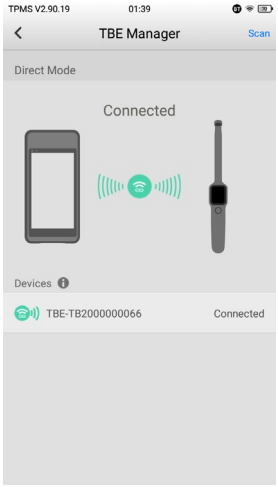


Figure 5-33 ***TBE Manager Screen***

3. Tap **Scan** in the upper-right corner of the tablet's screen. The tablet will automatically search for available TBE devices.
4. The name of the device will appear. Select the device for connection, and tap the device name to establish a communication link.
5. After the connection is established, tap the **Tire Tread**, **Quick Check**, or **Brake Disc** icon to select a check mode on the TBE device and start measurement.

Once paired, tire and brake disc wear condition, DOT, and other tire-related information will be automatically transferred from the TBE device to the connected tablet.

If no TBE device is available for connection, tap the **Manual Input** button at the bottom of the Wear Detection screen to manually input measurement data from a third-party device.

5.8.2 Check Mode

Five check modes are available, with detailed descriptions as follows.

5.8.2.1 Single Tread Check

The Single Tread Check mode measures tread depth at one position on each tire of the test vehicle.

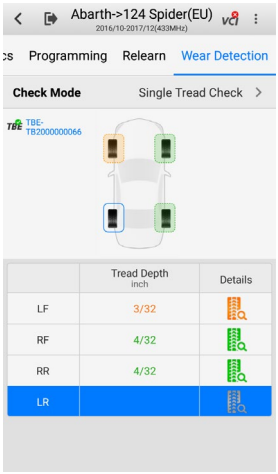


Figure 5-34 *Single Tread Check Screen*

5.8.2.2 All Tread Check

The All Tread Check mode analyzes tire wear across three positions on each tire: outer, center, and inner, to provide a comprehensive inspection.

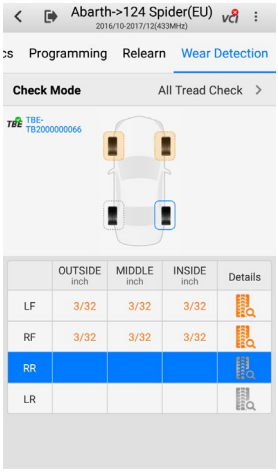


Figure 5-35 *All Tread Check Screen*

5.8.2.3 *Brake Disc Check*

The Brake Disc Check mode inspects brake disc wear and provides a corresponding wear analysis.

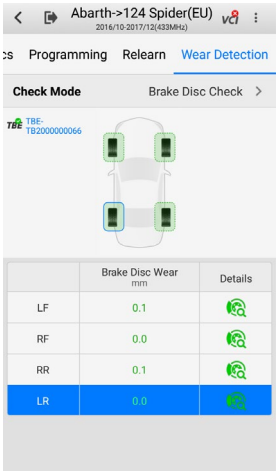


Figure 5-36 *Brake Disc Check Screen*

5.8.2.4 *Single Tread Quick Check*

The Single Tread Quick Check mode performs both the single tread check and brake disc check.

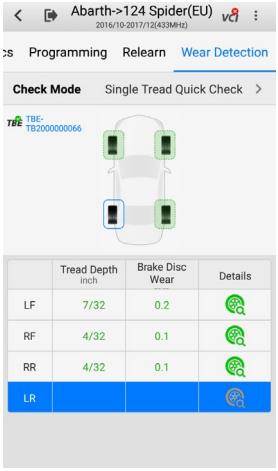


Figure 5-37 ***Single Tread Quick Check Screen***

5.8.2.5 All Tread Quick Check

The Single Tread Quick Check mode performs both the all tread check and brake disc check.

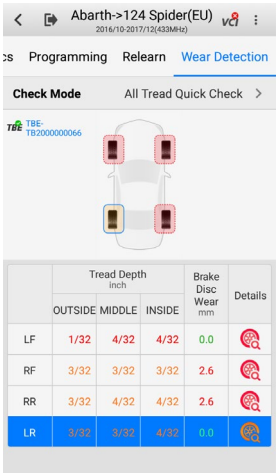


Figure 5-38 ***All Tread Quick Check Screen***

NOTE

The Data Query function on the TBE device stores previous measurement data, which automatically displays on the tablet. When a new measurement starts, the old data will be overwritten by the new data.

5.8.3 Details

The **Details** screen displays tire and brake disc information. After measurements are complete, select a tire and tap the corresponding tire or brake disc icon under the Details column to proceed to the next screen.

Displayed sections vary by check mode, and measurement data changes color based on the manually selected tire condition for a comprehensive analysis.

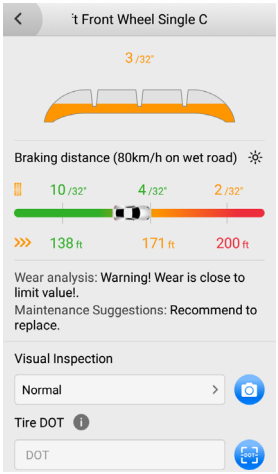


Figure 5-39 *Details Screen*

1) Graphic measurements — displays measurements data graphically, with different colors indicating varying tire and/or brake disc wear conditions.
   - Single Tread Check — displays tire tread wear condition at one position on the tire graphically.
   - All Tread Check — displays tire tread wear condition at three positions: inner, center, and outer graphically.
   - Brake Disc Check — displays brake disc wear condition.
   - Single Tread Quick Check — displays both tire tread and brake disc wear conditions graphically.

- All Tread Quick Check — displays both tire tread and brake disc wear conditions graphically.

2) Braking distance — displays the stopping distance for the test vehicle graphically with the corresponding tire tread depth. Braking distance varies depending on tire type.
3) Wear analysis and maintenance suggestions
4) Visual Inspection — displays with nine tire statuses, including normal, worn, and bulge.
5) Tire DOT — scans the tire DOT serial number located on the sidewall to acquire basic characteristics such as tire age, recall status, and warning. Refer to *Tire DOT* for additional information.
6) Tire Specification — presents a series of options regarding tire characteristics, including Make, Tire Width, and Type Code.

NOTE

Items including braking distance, tire condition, tire DOT, and tire specification are available in all check modes except Brake Disc Check.

On the Wear Detection screen, measurements and the tire tread/brake disc icon will display green, yellow, or red, indicating wear status. Refer to *Table 5-2 Top Toolbar Buttons on Service Menu* for details.

Tap ⋮ > **Report** in the top-right corner of the screen to access the TPMS test report generated.

NOTE

The TPMS test report supports third-party measurements. Refer to *TPMS Test Report* for more details.

Tire and brake disc icons are highlighted with colors that are described in the table below.

Table 5-5 *Possible Results for Measurements*

Tire Tread	Quick Check	Brake Disc Check	Results	Description
 (Gray)			Untested	The tire/brake disc is untested.

Tire Tread	Quick Check	Brake Disc Check	Results	Description
 (Green)			Good	The tire/brake disc is in good condition.
 (Yellow)			A replacement is recommended.	It is suggested to replace the tire/brake disc.
 (Red)			Immediate replacement is recommended.	It is suggested to replace the tire/brake disc immediately.

6 OE Entry

6.1 LCV TPMS & CV TPMS by OEM Part No.

If the sensor's OEM part No. is known, this function is an efficient method to activate all known CV TPMS or LCV TPMS sensors and program specifically the MX-Sensors. The function becomes available for passenger vehicles upon purchasing the TPMS package. For details, refer to *Activate More*.

Selecting the OEM part No. opens the functional page for performing sensor activation and programming. Tap the **Support** tab, then choose the vehicle model of your preference, and then tap the **Enter Vehicle** button at the bottom of the screen to access the corresponding TPMS Service Menu and perform the TPMS service function.

6.1.1 Application Scenarios

The following are two typical scenarios in which this method is ideal.

6.1.1.1 In the workshop

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

6.1.1.2 In the tire shop

If a customer needs to replace one or more tires and sensors, or purchase a large number of sensors for one vehicle model, and the OEM part No. of this model is known, this function can be used to program up to 20 sensors at the same time.

6.1.2 Function Operations

1. Tap **OE Entry** on the MaxiTPMS Job Menu. Then tap **LCV OE Entry** or **CV OE Entry** to perform the function for light commercial vehicles or commercial vehicles, respectively. A list of OEM sensor manufacturers will display.
2. Swipe up or down the screen to find the manufacturer of the sensor on the test vehicle, and tap the manufacturer name to enter the next screen, and then select the specific OEM sensor No.

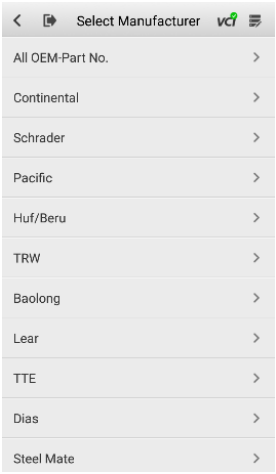


Figure 6-1 ***OEM Sensor Manufacturer Screen***

3. Or, tap All OEM-Part No., to the search box at the top of the screen to enter the OEM part No. A soft keyboard will display as follows. Enter the OEM Part No. in the search box to complete the operation. Tap ?123 to change the keys to numbers; tap ABC to change the keys to letters.

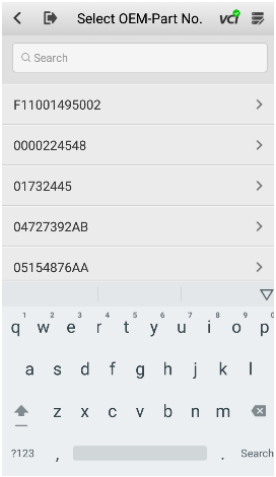


Figure 6-2 ***OEM Part No. Search Screen***

4. When a specific OEM part No. is selected, the screen will display as pictured below.

Figure 6-3 *OEM Part No. Service Menu*

NOTE

Only **the** sensor Check and Programming functions are available. The Diagnostics and Relearn functions can only be accessed by selecting a vehicle on the TPMS service menu.

6.1.2.1 Check

The **Check** tab is the default selection on this menu. Tap **Trigger** on the bottom-left of the screen to activate the original sensors and retrieve the sensor information. The original sensor ID, tire pressure, tire temperature, sensor battery, and sensor frequency will populate the displayed table.

NOTE

You can change the unit on the table header according to your preference.

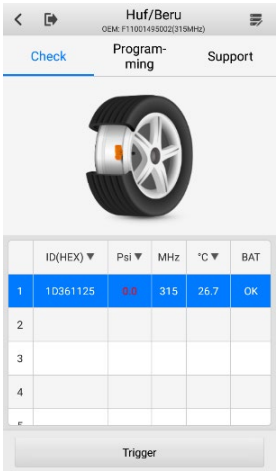


Figure 6-4 *Check Screen via OEM Part No.*

6.1.2.2 Programming

The **Programming** function is used to program the sensor data to the MX-Sensor and replace the faulty sensor.

There are three options available when programming the MX-Sensor using the OEM Part No. function: **Copy by Activation**, **Copy by Input**, and **Auto Create**. Refer to *CV Sensor Programming* or *Sensor Programming* for details.

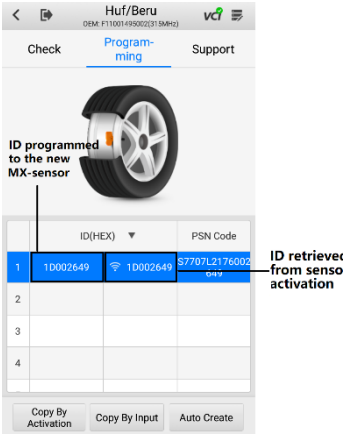


Figure 6-5 *Programming Screen via OEM Part No.*

The **PSN Code** (Part Serial Number), 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.

6.1.2.3 Support

Support will display the correct vehicle types for the selected OEM part No.

To conduct additional procedures such as Diagnostics and Relearn, select the correct test vehicle model and then tap **Enter Vehicle** at the bottom of the screen. Refer to *CV TPMS Diagnostics* and *CV TPMS Relearn* for more details about the comprehensive CV TPMS functions menu; refer to *TPMS Diagnostics* and *TPMS Relearn* for more details about the comprehensive TPMS functions menu.

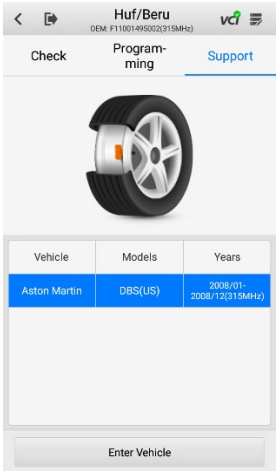


Figure 6-6 *LCV TPMS Support Screen*

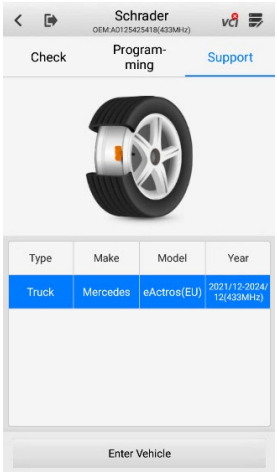


Figure 6-7 ***CV TPMS Support Screen***

7 Diagnostics

By establishing a data connection to the electronic control systems of the commercial vehicle being serviced through the MaxiVCI V200, the Diagnostics application allows you to access the electronic control unit (ECU) for the control system of the commercial vehicle, including engine, electrical, and transmission. With this access, you can retrieve ECU information, read & erase DTCs, and view live data. The function is available upon purchasing the CV Diag package. For details, refer to *Activate More*.

7.1 Getting Started

Ensure a communication link is established between the test commercial vehicle and the tablet via the MaxiVCI V200. Refer to *Establishing Vehicle Communication* for details.

7.1.1 Vehicle Menu Screen

When the tablet is properly connected to the vehicle, it is ready to start vehicle diagnosis. Tap the **Diagnostics** application on the MaxiTPMS Job Menu to access the vehicle menu.

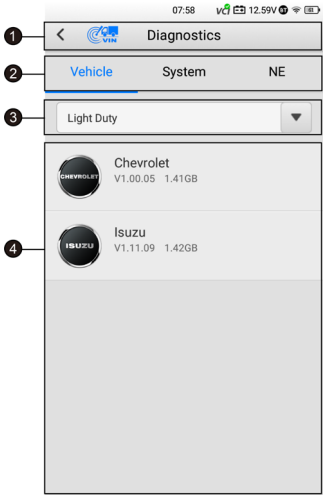


Figure 7-1 *Vehicle Menu Screen*

1. Top Toolbar Buttons
   - Back Button — returns to the previous screen.

- VIN Button — tap to select a vehicle identification method.

2. Mode Selection
   - Vehicle — Displays the vehicle menu based on the selection of the commercial vehicle type.
   - System — Displays the vehicle menu based on the selection of the vehicle system.
   - NE — Displays the vehicle menu based on the selection of the new energy power system.
3. Vehicle Type Selection — tap the dropdown button to locate the vehicle quickly.
4. Vehicle Manufacturer Buttons — select the vehicle manufacturer to start a diagnostics session.

7.2 Vehicle Identification

The MaxiTPMS diagnostic system supports four methods of vehicle identification:

1. Auto VIN Scan
2. Manual VIN Input
3. Automatic Selection
4. Manual Selection

7.2.1 Auto VIN Scan

The MaxiTPMS diagnostic system features the latest VIN-based Auto VIN Scan function to identify vehicles and scan all the diagnosable ECUs and run diagnostics on the selected system.

➢ **To perform Auto VIN Scan**

1. Tap the **Diagnostics** application on the MaxiTPMS Job Menu.
2. Tap the **VIN** button to open the dropdown list, and select **AutoVIN**.

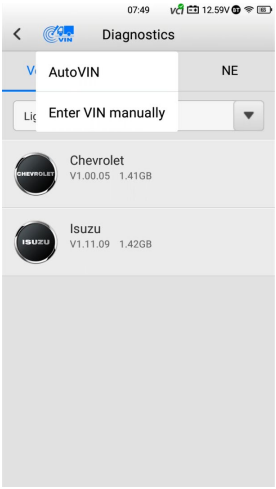


Figure 7-2 *VIN Screen*

3. The tablet will start VIN scanning on the vehicle's ECU. Once the test vehicle is successfully identified, the system will guide you to the Diagnostics Menu screen.

7.2.2 Manual VIN Input

For vehicles that do not support the Auto VIN Scan function, you may manually enter the VIN.

➢ **To perform Manual VIN Input**

1. Tap the **Diagnostics** application on the MaxiTPMS Job Menu.
2. Tap the **VIN** button to open the dropdown list, and select **Enter VIN Manually**.
3. Enter the correct VIN into the input box.
4. Tap **OK**. Once the vehicle is identified, the Diagnostics Menu screen will display.

7.2.3 Automatic Selection

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

➢ **To perform Automatic Selection**

1. Tap the **Diagnostics** application on the MaxiTPMS Job Menu.
2. Select a vehicle manufacturer from the Vehicle Menu screen.

3. Select the **Automatic Selection** option.

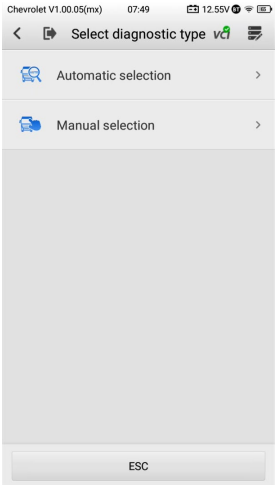


Figure 7-3 ***Selection Screen***

4. The tablet will acquire VIN information automatically and guide you to advance to the Diagnostics Menu screen.

7.2.4 Manual Selection

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

➢ **To perform Manual Selection**

1. Tap the **Diagnostics** application on the MaxiTPMS Job Menu.
2. Select a vehicle manufacturer from the Vehicle Menu screen.
3. Select the **Manual Selection** option.
4. Follow the on-screen instructions to complete step-by-step selection and finally enter the Diagnostics Menu screen.

7.3 Navigation

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

7.3.1 Diagnostics Screen Layout

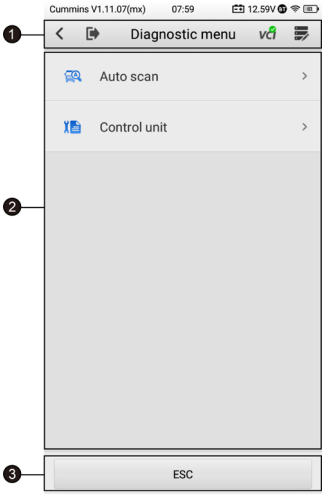


Figure 7-4 *Diagnostics Menu Screen*

The Diagnostics Menu screen typically includes three sections:

1. Top Toolbar Buttons
2. Main Section
3. Function Buttons

7.3.1.1 Top Toolbar Buttons

The top toolbar contains several buttons to navigate and control the screen. The table below describes the commonly used buttons, which are available throughout the whole diagnostics procedure.

Table 7-1 *Top Toolbar Buttons*

Button	Name	Description
	Back	Returns to the previous screen.
	Vehicle Swap	Exits the service session of the currently identified test vehicle and returns to the Vehicle Menu screen.
VCI	**VCI Status**	***VCI***: displays on the top toolbar when the MaxiVCI V200 is not connected to the tablet.

Button	Name	Description
		: displays after the MaxiVCI V200 is successfully connected to the tablet.
	**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 support for solutions. Refer to *Data Logging* for details.

7.3.1.2 Main Section

The main section of the screen varies depending on the stage of operations. It can display a diagnostics menu, test data, messages, instructions, and other diagnostics information.

7.3.1.3 Function Buttons

The displayed function buttons vary depending on the stage of operations. They can be used to navigate menus, save or clear diagnostics data, exit scanning, and perform various other control functions. Their usage will be discussed in detail in the following sections of the corresponding test operations.

7.3.2 Screen Messages

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

7.3.2.1 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 requires confirmation to continue.

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

7.3.2.2 Warning Messages

Warning messages indicate that a selected action may result in irreversible changes or loss of data. An example of this type of message is the "Erase Codes" message.

7.3.2.3 Error Messages

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

7.3.3 Making Selections

The Diagnostics application is a menu-driven program that presents a series of choices. As a selection is made, the next menu in the series displays. Each selection narrows the focus and leads to the desired test. Tap the screen to make menu selections.

7.4 Diagnostics Function Entrance

Two options are available when accessing the diagnostics function:

- Auto Scan — starts auto scanning for all the available systems on the vehicle.
- 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 be displayed.

7.4.1 Auto Scan

The Auto Scan function performs a comprehensive scan of all the ECUs in the vehicle to locate system faults and retrieve DTCs. An example of the Auto Scan interface is shown below.

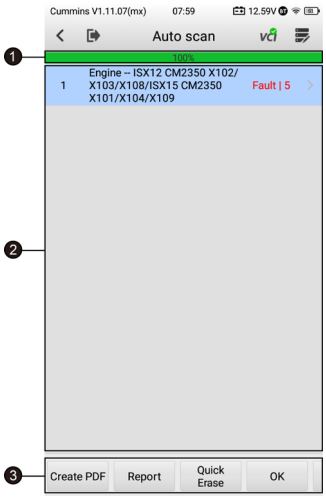


Figure 7-5 *Auto Scan Screen*

1. Progress Bar — indicates the test progress.
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.

3. Function Buttons

The table below provides a brief description of the function buttons.

Table 7-2 *Function Buttons in Auto Scan Screen*

Name	Description
Create PDF	Creates PDFs for data viewing.
Report	Displays the diagnostics data in a report form.
Quick Erase	Deletes fault 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 during the scanning process, and it will change to the **Continue** button after tapping. This button is available in the scanning process, and will turn gray when the scanning is done.
ESC	Returns to the previous screen or exits the Auto Scan screen.

7.4.2 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 tablet will guide you to the proper diagnostics function menu based on your selections.

7.5 Diagnostics Functions

Available functions may vary by vehicle. The function menu may include:

- ECU Information — provides the retrieved ECU information in detail.
- Trouble Codes — retrieves DTCs directly after tapping this button.
- Live Data — retrieves and displays live data and parameters from the vehicle's ECU.

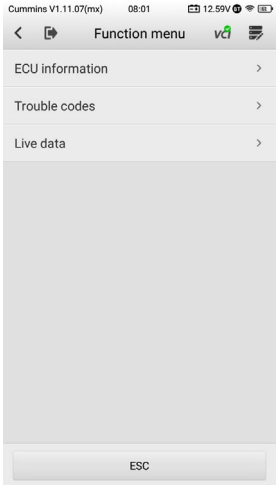


Figure 7-6 *Function Menu Screen*

7.5.1 ECU Information

This function retrieves and displays the specific information for the tested control unit.

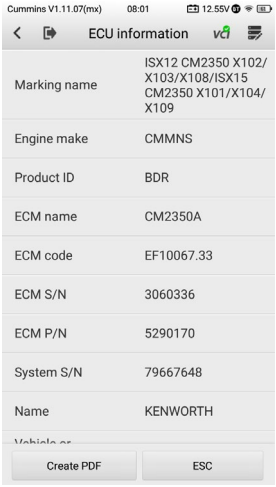


Figure 7-7 *ECU Information Screen*

7.5.2 Trouble Codes

Tap **Trouble Codes** from the Function screen, and the tablet will automatically read the DTC information in the ECU. The screen varies for each vehicle being tested.

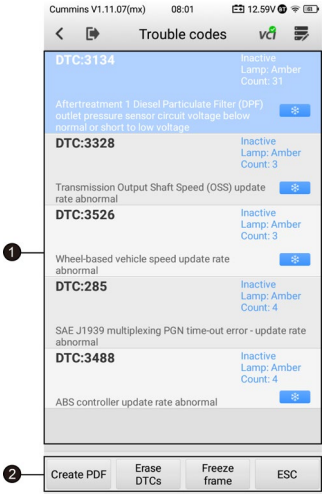


Figure 7-8 *Trouble Codes Screen*

1. Main Section

- DTC Name — displays the retrieved DTCs from the vehicle.
- Description — displays a detailed description of the retrieved DTCs.
- Status — indicates the status of the retrieved codes.
- Snowflake Icon — displays when freeze frame data is available for viewing; tap to view the data screen.

2. Function Buttons — vary depending on the vehicle being tested.

Table 7-3 *Function Buttons in Trouble Codes Screen*

Name	Description
Create PDF	Creates PDFs for data viewing.
Erase DTCs	Deletes DTCs. A warning message screen will display to inform you of possible data loss when this function is selected.
Freeze Frame	Tap to view the freeze frame if available.
ESC	Returns to the previous screen or exits the Trouble Codes screen.

➢ **To erase DTCs**

1. After reading the retrieved DTCs and making appropriate vehicle repairs, tap **Erase DTCs** from the function buttons on the Trouble Codes screen.
2. A warning message displays to inform you of data clearing when this function is applied.
   a) Tap **Yes** to continue. A Confirmation screen displays when the operation is successfully done.
   b) Tap **No** to exit.
3. Tap **ESC** on the Confirmation screen to exit the Erase DTCs function.
4. Tap **Trouble Codes** again to confirm whether the DTCs have been erased successfully.

NOTE

Before performing the Erase DTCs function, ensure that the vehicle's ignition key is in the ON (RUN) position while the engine is off.

7.5.3 Live Data

After entering the Live Data screen, parameter groups are displayed. Tap a group to view the detailed live data for the selected system.

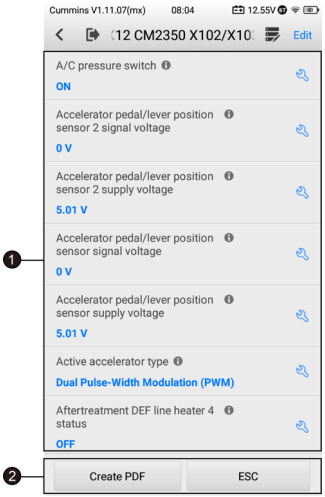


Figure 7-9 *Live Data Screen*

1. Main Section
   - Parameter Name — displays the retrieved parameters from the vehicle.
   - Status and Value — displays the status and current value of the parameters.
   - Information Icon — tap to view more information about the parameters.
   - Settings Icon — tap to select a data display mode and set the value range.
2. Function Buttons — vary depending on the stage of the diagnostics.

Display Mode

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

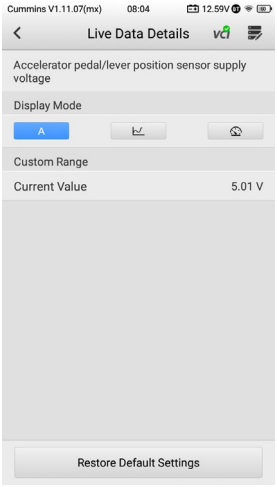


Figure 7-10 ***Live Data Details Screen***

The table below describes the three display modes in detail.

Table 7-4 ***Display Mode for Data Viewing***

Button	Name	Description
A	**Text Mode**	The default mode displays the parameters as a text list.
	Waveform Graph Mode	Displays the parameters in waveform graphs.
	Analog Gauge Mode	Displays the parameters in gauge charts.

➢ **To select the display mode**

1. Tap the **Settings** icon on the right side of a parameter name to access the Live Data Details screen.
2. Select the display mode you need, and the parameters will display based on your selection.
3. Tap the **Restore Default Settings** button to return to the default settings if needed.

Trigger Settings

The Trigger Settings function is only available in Waveform Graph and Analog Gauge modes. You can set a standard range by specifying a minimum value and a maximum value to reach the trigger condition. When exceeding this range, the trigger function will be executed, and the tablet will automatically record and save the generated data.

➢ **To set a trigger**

1. Tap the **Settings** icon on the right side of a parameter name to access the Live Data Details screen.
2. Select **Waveform Graph Mode** or **Analog Gauge Mode**.
3. Make sure the button for trigger is ON.
4. Enter the required lower limit value and upper limit value.
5. Tap the **Back** button to return to the Live Data screen.

7.6 Exiting CV Diagnostics

The Diagnostics application operates while communication with the vehicle is still active. It is important to properly exit from the diagnostics operation screen 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 links, 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 diagnostics screen:

1. Tap the **Back** or **ESC** button to exit a diagnostics session; Or,
2. Tap the **Vehicle Swap** button in the Diagnostics Toolbar to return to the Vehicle Menu screen.

- On an active diagnostics screen:

1. Tap the **Back** button on the Navigation Bar at the bottom of the screen; Or,
2. Tap the **Home** button in the Diagnostics Toolbar to exit the application directly and return to the Vehicle Menu screen.

After exiting the Diagnostics application, the tablet is no longer communicating with the vehicle, and it is safe to open other applications.

8 Battery Test

The BT506 is a battery and electrical system analysis tool that uses Adaptive Conductance, an advanced battery analysis method to produce a more accurate examination of the battery's cold cranking ability and reserve capacity, vital to determining a battery's true health. The BT506 enables technicians to view the health status of the vehicle's battery and electrical system. Together with the BT506, this application can complete battery & starting and charging system tests and display the test results. The function is available upon purchasing the TPMS package. For details, refer to *Activate More*.

NOTE

The MaxiBAS BT506 battery tester should be purchased separately.

8.1 MaxiBAS BT506 Battery Tester

8.1.1 Function Description

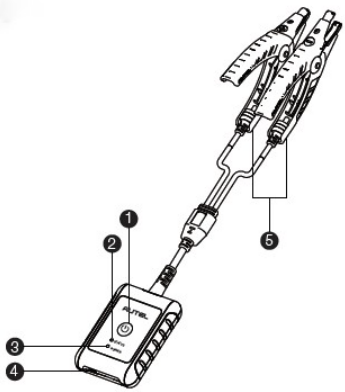


Figure 8-1 ***MaxiBAS BT506 Battery Tester***

1. Power Button
2. Status LED

3. Power LED
4. USB Port
5. Battery Clamp Cable

Table 8-1 *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.
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.

8.1.2 Power Sources

The BT506 battery 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).

8.1.2.1 Internal Battery Pack

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

8.1.2.2 AC/DC Power Supply — Using Power Adapter

The 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.

8.1.3 Technical Specifications

Table 8-2 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	6 to 36 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 lb.)

8.2 Test Preparation

8.2.1 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, loose, 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.)

8.2.2 Connect the Battery Tester

- **To connect BT506 with the MaxiTPMS tablet**
  1. Turn on both BT506 and the MaxiTPMS tablet.
  2. Tap the **Settings** application on the MaxiTPMS Job Menu, and select **VCI Manager**.
  3. Tap **Scan** in the upper-right corner of the tablet's screen.
  4. The device name may display as "Maxi" suffixed with a serial number. Select the appropriate device for pairing.
  5. When paired successfully, the connection status displays the device name with the message "Paired."
- **To connect to a battery**
  1. Press and hold the **Power/Lock** button to turn on the BT506 tester.
  2. Connect the red clamp to the positive (+) terminal and the black clamp to the negative (–) terminal of the battery.

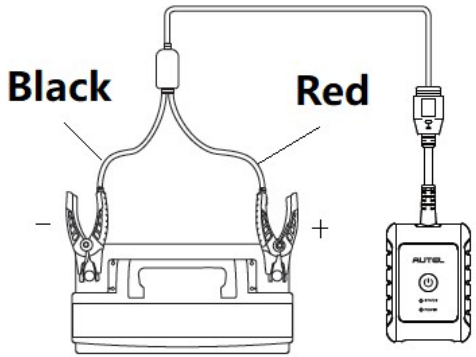


Figure 8-2 ***Connecting to a Battery***

8.3 In-vehicle Test

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

NOTE

The complete in-vehicle test includes battery test, starter test, and generator test, in sequence.

IMPORTANT

1. Before using the diagnostic functions, download the desired vehicle software on the Update application.
2. A Disclaimer page will appear when accessing any function on the Battery Test screen for the first time. 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.

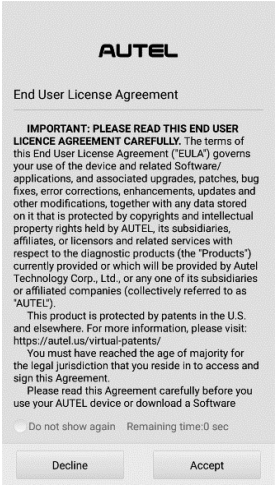


Figure 8-3 *Disclaimer Screen*

8.3.1 Battery Test

➢ **To perform the in-vehicle battery test**

1. Tap the **Battery Test** application on the MaxiTPMS Job Menu. The Battery Test screen displays.
2. Select **In-vehicle Test**.

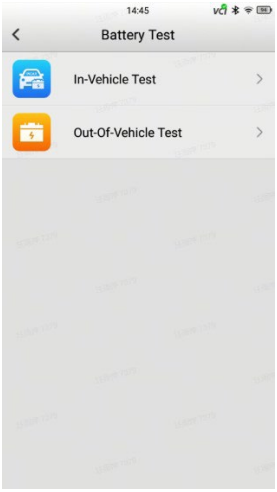


Figure 8-4 *Battery Test Screen*

3. Perform OBD connection by following the on-screen instructions.

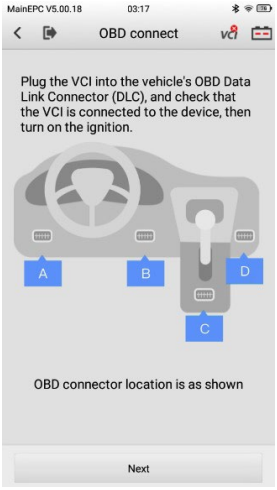


Figure 8-5 *OBD Connect Screen*

4. Confirm the vehicle information. The vehicle information will be automatically populated when vehicle communication is established. A Battery Information tab will pop up from the bottom of the screen.

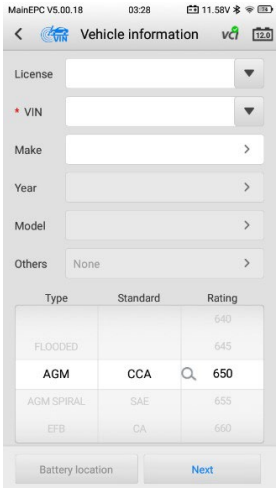


Figure 8-6 ***Vehicle Information Screen***

Table 8-3 ***Upper Toolbar Buttons***

Button	Name	Description
	**Back**	Returns to the previous screen.
	**ESC**	Returns to the Home screen.
	**Battery Connection**	Displays the battery connection status. The number on the icon indicates the real-time voltage of the tested battery.

5. Tap **Next** and access the Battery screen. Follow the on-screen instructions before starting the battery test. Tap the **Start Testing** button.

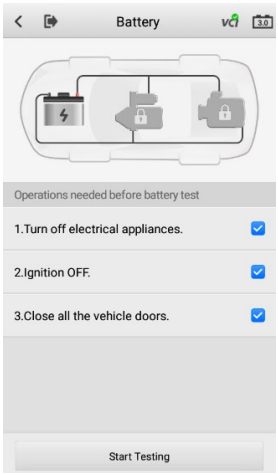


Figure 8-7 *Battery Screen*

6. Wait for the battery test to complete and view the test results and suggestions.

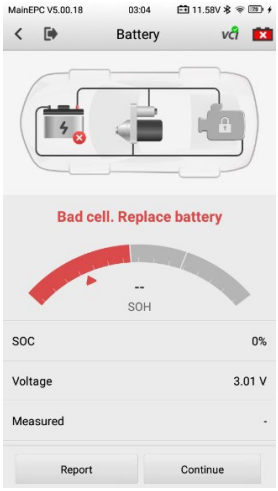


Figure 8-8 *Battery Result Screen*

Table 8-4 *Test Results*

Result	Description
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.

8.3.2 Starter Test

➢ **To perform the starter test**

1. Tap **Continue**. Perform required operations before the battery test based on the on-screen instructions. And tap the **Start testing** button.
2. Start the engine and let it idle.

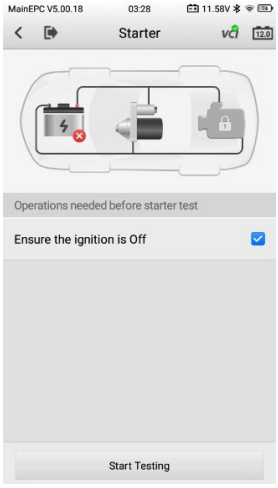


Figure 8-9 *Starter Screen*

3. Wait for the test to complete and view the test results.

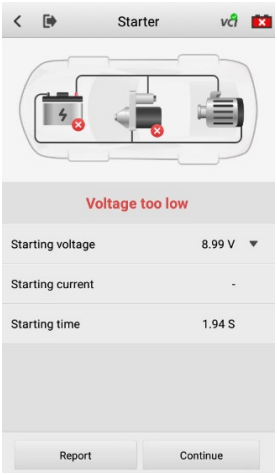


Figure 8-10 ***Starter Test Results Screen***

Table 8-5 ***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.

8.3.3 Generator Test

➢ **To perform the generator test**

1. Tap **Continue**. Perform required operations based on the on-screen instructions.
2. Tap **Continue** and view the test results.

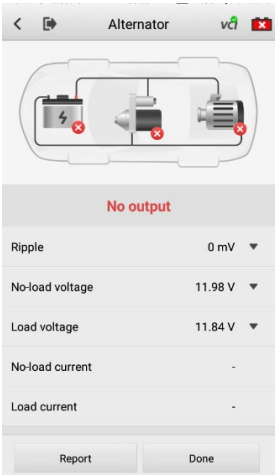


Figure 8-11 ***Generator Test Results Screen***

Table 8-6 ***Generator Test Results***

Result	Description
Charging Normal	The generator is good.
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 and needs repair or replacement.
No Output	● The cable is loose. ● Some vehicles with power management systems do not provide a path for charging due to the sufficient load capacity of the battery. ● The generator or the voltage adjuster is broken and needs replacement.

8.4 Out-vehicle Test

Out-vehicle test is used to test the condition of batteries that are not connected to a vehicle. This function aims to check the health status of the battery only. The battery types and standards able to be tested are as follows.

Types: FLOODED, AGM, AGM SPIRAL, EFB, and GEL

Standards: CCA, SAE, CA, EN, IEC, DIN, JIS and MCA

8.4.1 Battery Test

➢ **To perform the out-vehicle battery test**

1. Tap the **Battery Test** application on the MaxiTPMS Job Menu. The Battery Test screen displays.
2. Select **Out-vehicle Test**.
3. Check the battery information and tap **Start testing**.

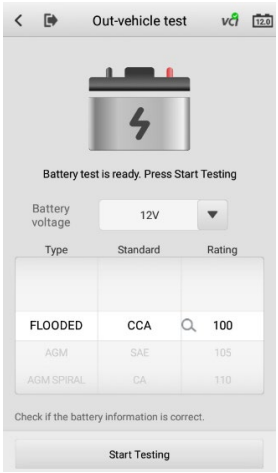


Figure 8-12 ***Out-vehicle Test Screen***

4. Wait for the battery test to complete and view the test results.

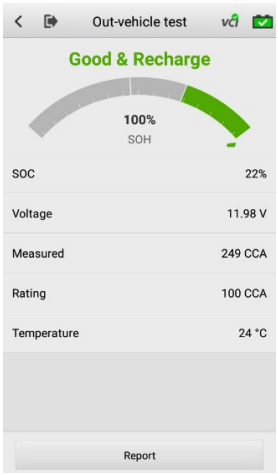


Figure 8-13 *Out-vehicle Test Results Screen*

Table 8-7 *Out-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	Retest after charging.
Replace Battery	Battery fails to meet industry-accepted standards.
Bad Cell	Battery fails to meet industry-accepted standards.

9 Service

The **Service** section is specially designed to provide quick access to the vehicle systems for various scheduled service and maintenance tasks. The function is available upon purchasing the CV Diag package. For details, refer to *Activate More*.

The typical service operation screen is a series of menu-driven commands. Follow the on-screen instructions to select appropriate options, enter values or data, and perform necessary actions. The application will display detailed instructions to complete selected service operations.

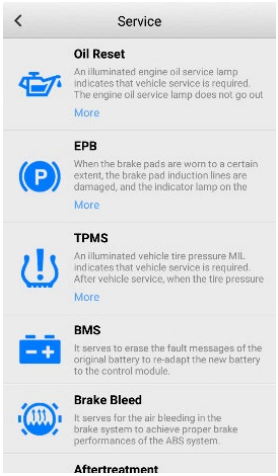


Figure 9-1 ***Service Menu***

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

9.1 Oil Reset Service

This function performs a reset of the Engine Oil Life system, which calculates the optimal oil life change interval depending on the vehicle's 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 scan 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 emission inspection, and vehicle checks.

9.2 Electric Parking Brake (EPB) Service

This function has a multitude of ways 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.

9.2.1 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/diagnostics 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.

9.3 Tire Pressure Monitoring System (TPMS) Service

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

9.4 Battery Management System (BMS) Service

The Battery Management System (BMS) allows the tool to evaluate the battery charge state, monitor the closed-circuit current, register the battery replacement, activate the rest state of the vehicle, and charge the battery via the diagnostics 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 the correct option selection.

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

9.5 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. 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 diagnostics 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 the system.
- The vehicle has the specified engine oil.
- The oil for diesel is not contaminated.

IMPORTANT

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

NOTE

1. The DPF will not regenerate if the engine management light is on or if 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 to perform a DPF service, a second person is needed for the function. One person should drive the vehicle while the other person observes the screen on the Tool. Do not attempt to drive and observe the scan tool at the same time. This is dangerous and puts your life and the lives of other motorists and pedestrians at risk.

9.6 Steering Angle Sensor (SAS) Service

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

Calibration must always be carried out after the following operations:

- Steering wheel replacement
- SAS replacement

- Any maintenance that involves opening the connector hub from the SAS 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 SAS, SAS assembly, or any part of the steering system may have occurred

NOTE

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

10 Check MX-Sensor

This function is used to view the detailed information of the MX-Sensor, such as Sensor ID, Frequency, etc., and provides access to the vehicle to perform TPMS check and other TPMS functions.

➢ **To perform the Check MX-Sensor function**

1. Tap the **Check MX-Sensor** application from the MaxiTPMS Job Menu.
2. Select the sensor type: 315/433 MHz or BLE 2.4 GHz.
3. Hold the top side of the tablet close to the sensor mounted on the wheel, and tap the **Check** button at the bottom of the screen.

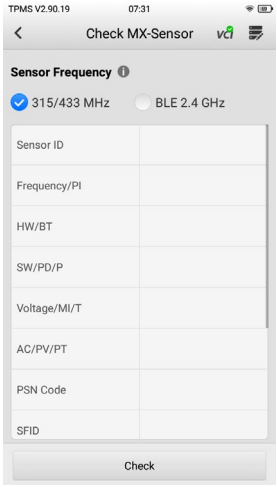


Figure 10-1 ***Check MX-Sensor Screen 1***

4. After the tablet identifies the MX-Sensor, the screen displays the detailed information of the sensor. Tap the **Enter Vehicle** button to perform the TPMS Check function. For details, refer to *CV TPMS Check* for commercial vehicles, and *TPMS Check* for light commercial vehicles or passenger vehicles.

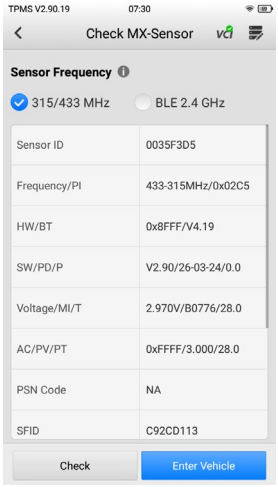


Figure 10-2 *Check MX-Sensor Screen 2*

11 Tire DOT

The application contains the **Tire Age Check** function. It is available upon purchasing the TPMS package. For details, refer to *Activate More*.

The Tire Age Check screen displays the tire status of the test vehicle. When the DOT number on a tire is scanned or automatically entered, the information on tire age and warning will display on the screen.

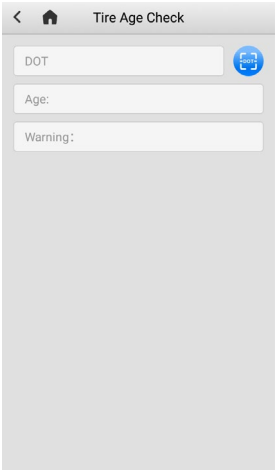


Figure 11-1 ***Tire Age Check Screen***

12 Hand-held Inclinometer

Connect the hand-held inclinometer to MaxiTPMS tablet and open the Hand-held inclinometer application can accurately measure the Mercedes-Benz vehicles' ride height, which is a data basis for adjusting the values of wheel camber, caster, and toe during the wheel alignment procedure. The Hand-held Inclinometer function is available upon purchasing the TPMS package. For details, refer to *Activate More*.

➢ **To measure the ride height of a Mercedes-Benz vehicle**

1. Connect the hand-held inclinometer to the USB port on the MaxiTPMS tablet using the supplied USB cable.

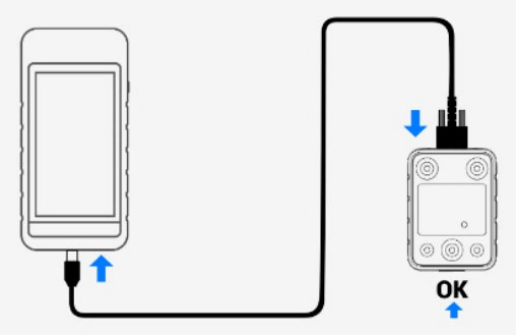


Figure 12-1 ***Connecting MaxiTPMS Tablet and Hand-held Inclinometer***

2. Tap the **Hand-held Inclinometer** application on the MaxiTPMS Job Menu to open the vehicle series selection screen.

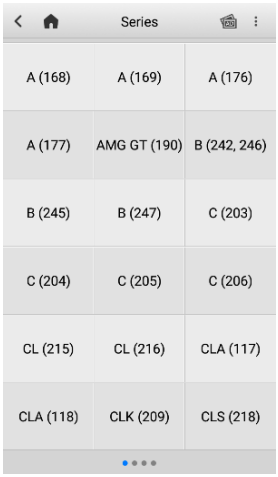


Figure 12-2 *Vehicle Series Selection Screen*

3. Follow the on-screen instructions to measure the ride height. The measured results will be automatically uploaded to the tablet and displayed in the corresponding input box.

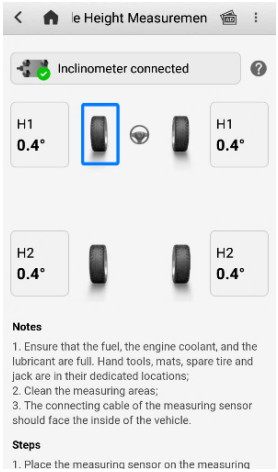


Figure 12-3 *Ride Height Measurement Result Screen*

NOTE

Tap the ⋮ button in the upper-right corner of the screen to open the drop-down menu options: Calibrate, Update, and Help. A quick reference guide on how to use the Autel hand-held inclinometer will display after tapping the **Help** option.

13 TPMS Retrofit

Retrofit is needed to be performed if your vehicle is not installed with a TPMS system by default. The function is available upon purchasing the TPMS package. For details, refer to *Activate More*. Tap the **TPMS Retrofit** application on the MaxiTPMS Job Menu to access the function.

13.1 Retrofit

This function is used to install the TPMS system in vehicles. Tapping the **TPMS Retrofit** application icon opens the Vehicle Identification screen. Refer to *Vehicle Identification* for additional information.

Prior to using the function, ensure the ignition light is in the **ON** position with the MaxiVCI V200 device successfully connected to the vehicle and the tablet.

➢ **To perform the retrofit function**

1. Tap the **TPMS Retrofit** application from the MaxiTPMS Job Menu.
2. Select the manufacturer button of the test vehicle, followed by the vehicle model, and year.
3. Tap **OK** at the bottom of the screen to confirm information about the tested vehicle. The Retrofit screen opens.
4. Simply follow the operation instructions displayed on the screen, which will guide you to choose the corresponding buttons during each procedure, including the Back-up, Retrofit, and Restore buttons.

The Retrofit function screen has the same lay out with that of the TPMS screen. After the retrofit function is finished, tap the other tabs to perform optional functions.

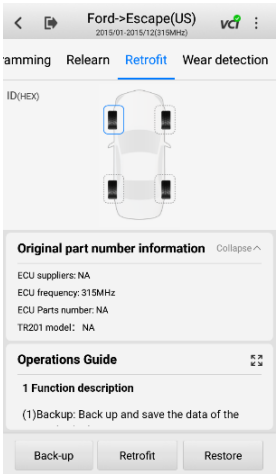


Figure 13-1 ***TPMS Retrofit Screen***

NOTE

Accesses the TPMS retrofit function either by tapping **TPMS** on the MaxiTPMS Job Menu or directly tapping **TPMS Retrofit**. The **TPMS Retrofit** lists vehicles available for retrofit only. The TPMS application covers all vehicles. Vehicles eligible for retrofit will display a Retrofit tab on the screen.

14 Activate More

Activate More Function provides quick access to upgrade the basic version of the MaxiTPMS tablet via an additional purchase. TPMS and CV Diag packages are available for selection based on your needs.

14.1 TPMS

After TPMS activation: the LCV TPMS and OE Entry functions become available for passenger vehicles; new features for passenger vehicles are added, including Battery Test, Tire DOT, Hand-held Inclinometer, and TPMS Retrofit.

14.2 CV Diag

After CV Diag activation: ITS600 CV is upgraded to ITS600 CV Pro, enabling access to all system diagnostics and other service function software for commercial vehicles.

15 Update

The Update application allows you to download the latest software. The updates can improve the MaxiTPMS applications' capabilities, typically by adding vehicle models, TPMS service functions, etc.

The tablet automatically searches for available updates for all of the MaxiTPMS software when it is connected to the Internet. Any updates that are found can be downloaded and installed on the tablet.

NOTE

Make sure the tablet is registered before utilizing the Update application. Refer to *User Center* for a comprehensive registration guide.

➢ **To update the software**

1. Power up the tablet, and ensure that it is connected to a power source and has a steady Internet connection.
2. Tap the **Update** application from the MaxiTPMS Job Menu. The Update application screen displays.
3. On the Update screen, tap the **Get** button to update the specific item(s) or tap the **Update All** button to update all available items.
4. Tap **More** to view the details of all the available updates. You can also tap the **Get** or **Update All** button to update.
5. During the update, tap the icon to suspend the updating process. Tap the icon to resume the update, and the process will continue from the pause point.
6. When the updating process is completed, the software will be installed automatically. The new version will replace the older version.

NOTE

For the account management, proceed to the Member Center tab.

16 Data Manager

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

Selecting the Data Manager application opens the menu page with seven main functions available:

- Test Records
- Workshop Information
- Image
- PDF
- Report
- Remove Vehicle
- Data Logging

The following table briefly describes the toolbar buttons used to perform these functions.

16.1 Test Records

This function stores test vehicle history records, in terms of CV TPMS and LCV TPMS information from the previous CV TPMS and LCV TPMS sessions. All information is displayed in summarized details. Tap a record to access the previously tested vehicle and directly restart a TPMS session without the need for auto scan or manual vehicle selection.

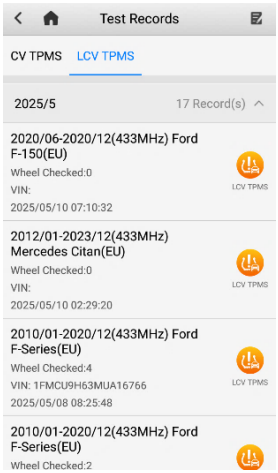


Figure 16-1 ***Test Records Screen***

Table 16-1 ***Function Buttons on the Test Records Screen***

Button	Name	Description
	**CV TPMS**	Displays the previous CV TPMS session.
	**LCV TPMS/ TPMS**	Displays the previous LCV TPMS/TPMS session.

NOTE

Historical test records for Battery Test, TPMS Retrofit, Diagnostics, and Service are also displayed when these functions are activated.

16.1.1 TPMS Test Report

The TPMS test report is a detailed data form that includes general vehicle information such as vehicle year, make, and model. The form also includes information on TPMS-related DTCs, workshop, and all information manually entered by the technician.

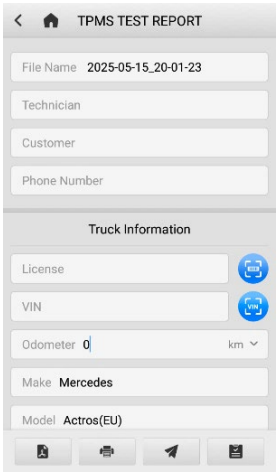


Figure 16-2 *CV TPMS TEST REPORT Screen*

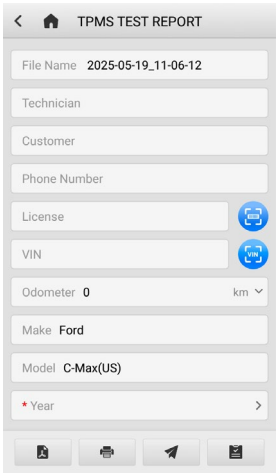


Figure 16-3 *LCV TPMS TEST REPORT Screen*

A report can be printed in two ways: print via PC Link or via Wi-Fi. Refer to *Printer Manager* for details.

16.2 Workshop Information

The Workshop Information screen allows you to enter, edit, and save detailed workshop

information, such as shop name, address, phone number, and other remarks, which, when printing vehicle diagnostics reports and other associated test files, will display as the header of the printed documents.

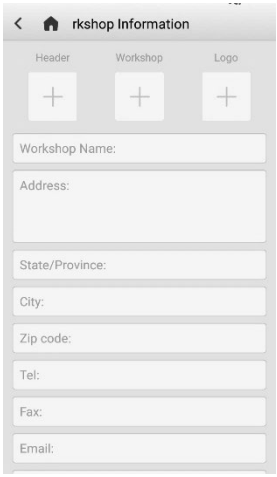


Figure 16-4 *Workshop Information Sheet*

- **To edit the Workshop Information sheet**
  1. Tap the **Data Manager** application on the MaxiTPMS Job Menu.
  2. Select **Workshop Information**.
  3. Tap each field to enter the related information.
  4. Tap the < button to exit the screen.

16.3 Image

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

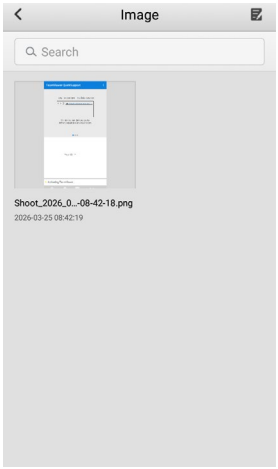


Figure 16-5 *Image Screen*

➢ **To edit/delete selected image(s)**

1. Tap the **Data Manager** application on the MaxiTPMS Job Menu.
2. Select **Image** to access the image database.
3. Tap in the top-right corner of the screen. The editing screen appears. Select the image(s) you want to edit by tapping the check box in the bottom-right corner of the image or tap the **Select All** button to select all images. Then tap the **Delete** button at the bottom to delete the selected image(s). Tap **Cancel** to exit without saving.
4. You can also directly tap the image you want to edit.
   - **Delete** button: Tap to delete the selected image.
   - **Details** button: Tap to view the file path of the image.
   - **Send Email** button: Tap to send the selected image to an email address.
   - **Print** button: Tap to print the selected image.
   - **Rename** button: Tap to make a new name for the image.

16.4 PDF

The PDF files designated for local viewing are displayed in this section. After entering the PDF database, select a PDF file to view the stored information.

➢ **To view, share, and print the PDF files**

1. Tap the **Data Manager** application on the MaxiTPMS Job Menu.
2. Select **PDF** to enter the PDF database.
3. Select the PDF file you need from the list, and the detailed information will be displayed.

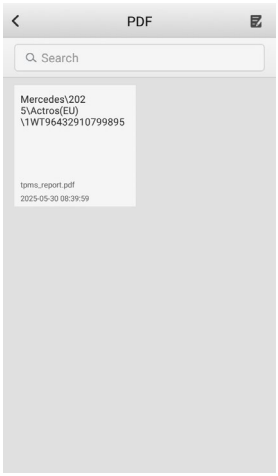


Figure 16-6 *PDF Screen 1*

4. In addition to viewing the PDF file, you can share it with others or print it.
   - To share the PDF file, tap the **Overflow** button ••• in the upper-right corner of the screen, select **Share to,** enter the recipient's email address, and tap **Send**.
   - To print the PDF file, tap the **Overflow** button ••• in the upper-right corner of the screen and select **PC Print**. Two printing methods are available: **Print via PC-Link** and **Print via Wi-Fi**. Select the option that best fits your needs. For details, refer to *Printer Manager*.

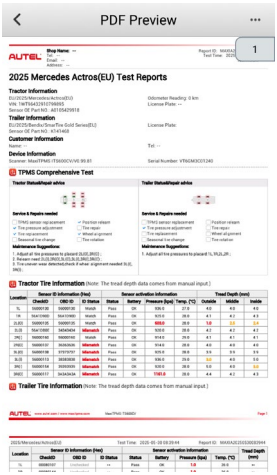


Figure 16-7 ***PDF Screen 2***

16.5 Report

This section stores and displays all reports. The reports stored in this area will be uploaded to the cloud automatically when you set the Report Upload to Cloud in Report Settings to **ON**.

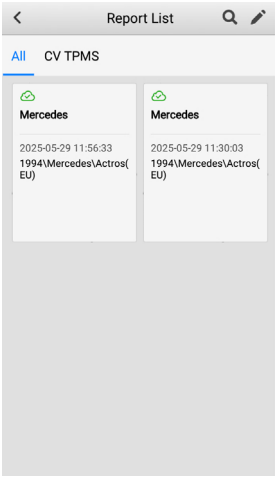


Figure 16-8 ***Report List Screen***

➢ **To view the local reports**

1. Tap the **Data Manager** application on the MaxiTPMS Job Menu.
2. Select **Report** to access the report list.
3. Select the report you need from the list.
4. A pop-up screen will appear. Select the **View Local Reports** option.

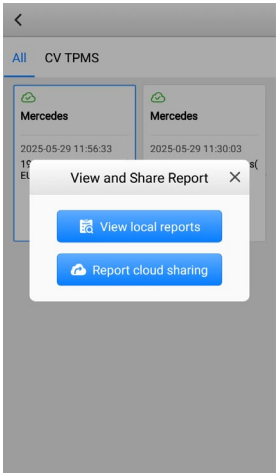


Figure 16-9 ***View and Share Report Screen***

5. The report with detailed information will be displayed.

➢ **To share the cloud report**

1. Tap the **Data Manager** application on the MaxiTPMS Job Menu.
2. Select **Report** to access the report list.
3. Select the report you need from the list.
4. A pop-up screen will appear. Select the **Report Cloud Sharing** option.

NOTE

A report marked with indicates that it has been successfully uploaded to the cloud and can be shared with others; while a report marked with indicates a failed cloud upload and cannot be shared, but will automatically retry uploading when reopened.

5. Three methods for report cloud sharing are available: scan the QR code, send by email, or send by SMS (via phone number).

Figure 16-10 ***Cloud Report Sharing Screen***

16.6 Remove Vehicle

This section allows you to manage the vehicle installed on the MaxiTPMS diagnostics system. Select the section to open a management screen, on which you can check all available vehicle applications.

Tap the vehicle manufacturer icon to be deleted. A blue check mark will appear on the left side of the selected icon. Tap the **Delete** button to delete the application from the system database.

16.7 Data Logging

The Data Logging section keeps records of all **Feedback** (submitted), **No Feedback** (saved), and **History** (up to the latest 20 test records) data on the diagnostic system. Autel support personnel will receive and process the submitted reports through the Support platform, and will send back solutions to the corresponding Data Logging session, on which you are allowed to have a direct conversation with the support personnel.

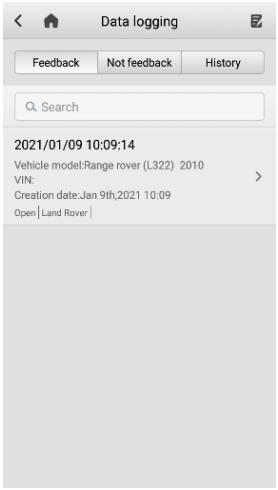


Figure 16-11 ***Data Logging Screen***

➢ **To reply in a Data Logging session**

1. Tap the **Feedback** tag to view a list of submitted data logs.
2. Select a specific item to track the progress of the data log review.
3. Tap the input field at the bottom of the screen and enter your reply. Additionally, you can add the attachment if needed.
4. Tap Send to deliver your message to Autel Support.

17 Academy

The Academy provides access to various onboard instructional videos and manuals, covering information on main functions such as TPMS Relearn and Rewrite functions. Please access the videos or articles saved on the tablet by tapping the images with hyperlinks displayed under this application.

18 ToolKit

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

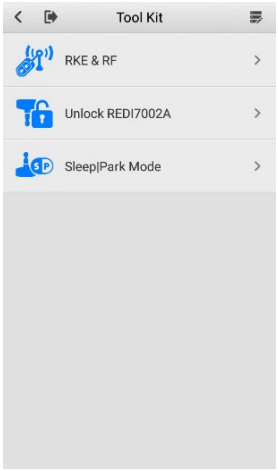


Figure 18-1 *ToolKit Screen*

- **RKE & RF** — this function is used to check the signal strength of 315 and 433 MHz frequencies of remote keyless entry Fobs.
- **Unlock REDI7002A** — this function is used to unlock the specified Redi-sensor: 7002A.
- **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.

19 Settings

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

- TPMS Market
- TPMS Programming Setting
- TBE Manager
- VCI Manager
- Bas Manager
- OBFCM Upload
- Laws and Regulations
- System Settings
- New User Guide Reset
- Printer Manager
- Report Settings
- Unit
- About

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

19.1 TPMS Market

The option allows you to select the area of work: Europe, North America, Korea, Japan, or Australia.

19.2 TPMS Programming Setting

The option allows you to change the tire pressure limit for sensor programming. To reduce programming errors, the device sets the sensor pressure limit to below 69 kPa (10 psi) by default.

19.3 TBE Manager

The option is for connecting the MaxiTPMS tablet with a TBE device via Wi-Fi Direct

mode. Make sure to turn on the Wi-Fi-direct function.

➢ **To connect the TBE device with the tablet via Wi-Fi direct mode**

1. On the TBE device, tap **Settings** > **Network connection**. Connect to Wi-Fi first and swipe the Wi-Fi Direct toggle to enable Wi-Fi Direct mode.
2. On the tablet, tap **Settings** > **TBE Manager** to access the screen.
3. Tap **Scan** in the upper-right corner of the tablet's screen. The tablet automatically searches for available TBE devices.
4. The name of the device will appear. Select the device for connection. Tap the device name to establish a communication link.
5. A message showing "Connect Successfully" displays after the connection is established.
6. To disconnect the device, tap the connected device listing again.
7. Tap < on the top-left to return to the Settings Menu.

NOTE

To ensure a quick connection, perform this operation while the MaxiTPMS tablet is connected to a steady network.

19.4 VCI Manager

This option allows pairing the MaxiTPMS tablet with the MaxiVCI V200 device, checking the communication status, and upgrading the VCI firmware.

Figure 19-1 *VCI Manager Screen*

1. Function Buttons
   - Bluetooth — pairs the tablet with the MaxiVCI V200 via Bluetooth.
   - Firmware Upgrade — pairs the tablet with the MaxiVCI V200 via Bluetooth or a USB-C to USB-C (not included) cable for firmware updates.
2. Available Devices List

   After entering the VCI Manager screen, the tablet will search for available devices. The found devices will be displayed in this area. Select the needed one to initiate pairing.

19.4.1 Bluetooth Connection

The MaxiVCI V200 needs to be connected to the vehicle so that it is powered during the synchronization procedure. Turn the vehicle's ignition to the **ON** position. Ensure the tablet has sufficient battery power or is connected to an external power supply.

➢ **To pair the MaxiVCI V200 with the tablet**

1. Power on the tablet.
2. Insert the 16-pin vehicle data connector of the MaxiVCI V200 to the vehicle data link connector (DLC).
3. Tap **Settings** > **VCI Manager** to access the screen.
4. Tap **Scan** in the upper-right corner of the tablet's screen. The tablet will automatically search for available pairing units.
5. The device name may display as "Maxi" suffixed with a serial number. Select

the target device for pairing.

6. Once successfully paired, the connection status shows the device name with the “Paired” message; the VCI button in the upper-right corner displays a green checkmark; and the Connection LED on the MaxiVCI V200 illuminates solid green, indicating that the tablet is connected and ready for vehicle diagnosis.
7. Tap the paired device again to unpair it.
8. Tap the **Home** icon on the top-left to return to the MaxiTPMS Job Menu.

NOTE

A MaxiVCI V200 can be paired with only one tablet at a time. Once paired, it will not be discoverable by other devices.

19.4.2 VCI Firmware Upgrade

VCI firmware upgrades can be performed via a Bluetooth connection or a USB-C to USB-C cable connected to the tablet.

➢ **To update the MaxiVCI V200 firmware**

1. Power on the tablet.
2. Insert the 16-pin vehicle data connector of the MaxiVCI V200 into the vehicle data link connector (DLC)
3. Connect the V200 to the tablet via Bluetooth or using a USB-C to USB-C cable.
4. Tap **Settings** > **VCI Manager** to access the screen.
5. Select **Firmware upgrade**, and tap **Check for Firmware Updates** to check if an upgrade for V200 is available.

Figure 19-2 *VCI Firmware Upgrade Screen*

6. Complete the upgrade if one is available to ensure that you have the latest version installed.

NOTE

Before upgrading the VCI firmware, make sure the tablet has a stable network.

19.5 Laws and Regulations

To ensure the protection of the rights and interests of both software developers and users, a list of legal terms and statements is provided. Please read them carefully before using Autel software.

19.6 System Settings

This function provides you with direct access to the System Settings screen, where you can adjust various system settings for the tablet, including wireless and network settings, sound, display, and language settings.

19.7 New User Guide Reset

This function allows you to restore the initial user guide prompts on the MaxiTPMS tablet, which by default appear only during the first use.

19.8 Printer Manager

The Printer Manager function enables you to switch the way of report printing. Two printing methods available:

- Printing via PC Link
- Printing via Wi-Fi

19.8.1 Print via PC-Link

If you select the **Print via PC-Link** option, you need to install the PC Link driver program on your PC.

➢ **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 on your Windows-based PC.
2. Double click on the **Setup.exe** item.
3. Select the installation language, and the wizard will load momentarily.
4. Follow the instructions on the screen and click **Next** to continue.
5. Click on **Install** to install the printer driver program on 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 tablet must be connected to the same network.

➢ **To print via the PC Link driver program**

1. Make sure the printing method is switched to **Print via PC-Link**.
2. Run the **PC Link** program on the PC.
3. Select the **MaxiSys Printer** tab on the PC Link program.
4. Open the PDF file or the local report to be printed. Tap the **Overflow** button ••• in the upper-right corner of the screen, and select **PC Print**. A test document will be sent to the PC.
   - ✧ If the **Auto Print** option in the MaxiSys Printer is selected, the MaxiSys Printer will automatically print the received document.
   - ✧ If the **Auto Print** option is not selected, click **Open PDF File** to view all the temporary files. Select the file(s) needed for printing, and tap **Print**.

NOTE

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

19.8.2 Print via Wi-Fi

Before selecting **Print via Wi-Fi**, ensure that you have a wireless printer. Additionally, make sure that both the wireless printer and the tablet are using the same network.

➢ **To print using a wireless printer over Wi-Fi**

1. Make sure the printing method is switched to **Print via Wi-Fi**.
2. Open the PDF file or the local report to be printed.
3. Tap the **Overflow** button ••• in the upper-right corner of the screen, and select **PC Print**.
4. The tablet will search for available printers.
5. Select the printer from the list, and the file will be automatically sent to the printer for printing.

NOTE

The printer and the tablet must be using the same network.

19.9 Report Settings

The options, Report Upload to Cloud and Insurance Information, are available in the Report Settings function.

- Upload Report to Cloud

This option enables automatic synchronization of the vehicle's diagnostic information to the vehicle history and to form a diagnostic report for the user to upload. Refer to *Report* for detailed information.

- Scanner, Serial Number, and Version

When enabling the function, device information, including the name, serial number, and version, will be displayed in the report.

19.10 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 MaxiTPMS Job Menu.
2. Tap the **Unit** option.
3. Select the desired measurement unit. A check mark will display to the right of the selected unit.
4. Tap the **Home** button in the top-left corner to return to the MaxiTPMS Job Menu.

19.11 About

This option provides detailed information regarding the MaxiTPMS tablet, including the serial number, password, system version, hardware version, app version, and other relevant details.

20 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 ad-hoc remote support from Autel's support center, colleagues, or friends, by allowing them to control your MaxiTPMS tablet on their PC via the TeamViewer software.

20.1 Operations

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

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.

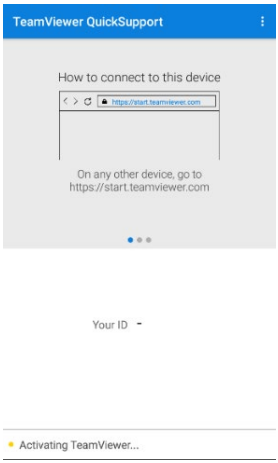


Figure 20-1 ***Remote Desktop Screen***

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

1. Power on the tablet.
2. Tap the **Remote Desktop** application on the MaxiTPMS Job Menu. The TeamViewer interface displays, and the ID is generated and shown.

3. Your partner must install the Remote Control software to his/her computer by downloading the TeamViewer program (full version) online (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 message will appear asking for your confirmation to allow remote control on your device.
6. Tap **Allow** to accept, or tap **Deny** to reject.

Refer to the associated TeamViewer documents for additional information.

21 User Center

The User Center application allows you to register your tablet to download the latest released software, thereby enhancing the functionality of the MaxiTPMS application by adding new vehicle models or enhanced applications to the database.

There are two ways for product registration:

A. Via the MaxiTPMS tablet

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

1. Tap **User Center** on the MaxiTPMS Job Menu. The following screen displays.

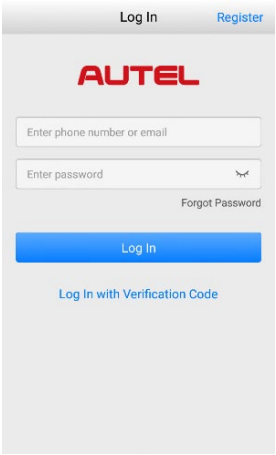


Figure 21-1 ***User Center Screen***

2. If you already have an Autel ID, you can log in with your Autel ID and password, or tap **Log In with Verification Code** to log in with your Phone number and verification code. If you don't have an Autel 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 in the upper-right corner of the Device Management screen. The serial number and password of the tablet will automatically appear on the screen.

6. Tap the **Link** button to complete the product registration.

B. Via the Autel website

➢ **To register the Autel tool**

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 **Register** to create your Autel ID.
4. Enter the required personal information in the input fields.
5. Enter your email address and 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 **Privacy Policy** and 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 tablet's serial number and password on the Product Registration screen. Enter the CAPTCHA code and click **Submit** to complete your registration procedure.

22 Maintenance and Service

22.1 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 tablet's touchscreen.
- Do not use any abrasive cleansers, detergents, or automotive chemicals on the tablet.
- Only use the device in dry conditions within normal operating temperatures.
- Dry your hands before using the tablet. The touchscreen may not work if it is moist, or if you tap the touchscreen with wet hands.
- Do not store the devices in humid, dusty, or dirty areas.
- Before and after use, check the housing, wiring, and connectors for dirt and damage.
- At the end of each workday, wipe the device housing, wiring, and connectors clean with a damp cloth.
- Do not attempt to disassemble your tablet or VCI unit.
- Take care not to drop the device or allow anything heavy to drop on the device.
- Use only authorized battery chargers and accessories. Any malfunction or damage caused by the use of unauthorized battery chargers and accessories will void the limited product warranty.
- Ensure that the battery charger does not come in contact with conductive objects.
- Do not operate the tablet next to anything such as a microwave oven, cordless phone and some medical or scientific instruments that might interfere with or prevent signal interference.

22.2 Troubleshooting Checklist

A. When the tablet does not work properly:
   - Make sure the tablet has been registered online.
   - Make sure the system software and diagnostic application software are properly updated.
   - Make sure the tablet is connected to the Internet.
   - Check all cables, connections, and indicators to 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 signal strength.
   - Turn off your device when not in use.

C. When unable to power on the tablet:
   - Make sure the tablet is connected to a power source or the battery is charged.

D. When 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 environment. Use the tablet in an environment within normal operating temperatures.
   - Your device may not have been properly connected to the charger. Check the connector.

NOTE

If your problems persist, please contact Autel's technical support or your local distributor.

22.3 About Battery Usage

Your tablet is powered by a built-in Lithium-ion Polymer battery. The Lithium-ion Polymer battery can recharge while some charge remains without reducing your tablet's autonomy due to the "battery memory effect" inherent in this type of battery technology.

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, 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 only use the supplied charger and USB cables. Using an unapproved charger or unapproved USB cable might not work correctly or might damage the tablet or VCI.
- Only use the supplied charging device that has been qualified for use with the device. 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.
- Working closer to the Wi-Fi router improves the working battery life of the tablet as

less battery power is consumed to make a connection.

- The battery recharging time varies depending on the remaining battery capacity.
- Battery life inevitably shortens over time.
- Since overcharging may shorten battery life, unplug the tablet and charger from the power outlet when the tablet is sufficiently charged.
- Leaving the tablet in hot or cold places, especially inside a vehicle in summer or winter, may reduce the battery's capacity and longevity. Always keep the battery within normal temperatures.

22.4 Service Procedures

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

22.4.1 Technical Support

If you have any questions or problems about the operation of the product, please contact us (see the following contact info) or your local distributor.

Autel China Headquarters

- **Phone:** +86 (0755) 8614-7779 (Monday-Friday, 9AM-6PM Beijing Time)
- **Email:** supporttpms@autel tech.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; www.maxitpms.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

22.4.2 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 www.maxitpms.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 address below:

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

22.4.3 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

23 Compliance Information

FCC COMPLIANCE **FCC ID: WQ8TPMS609T**

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.

⚠ WARNING

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

NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

– Reorient or relocate the receiving antenna.

– Increase the separation between the equipment and receiver.

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

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

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

SAR

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

The exposure standard for wireless devices employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/Kg. Tests for SAR are conducted using standard operating positions accepted by the FCC with the device transmitting at its highest certified power level in all tested frequency bands.

Although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value. This is because the device is designed to operate at multiple power levels so as to use only the power required to reach the network. To avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to antenna should be minimized.

RF WARNING STATEMENT

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

RoHS COMPLIANCE

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

CE COMPLIANCE

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

Radio Equipment Directive 2014/53/EU

24 Warranty

Limited One-Year Warranty

Autel Intelligent Technology Corp., Ltd. (the Company) warrants to the original retail purchaser of this MaxiTPMS 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 limitations 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 backup copy of any content of your product before delivering the product for warranty service.

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V1.0 | 2026.04