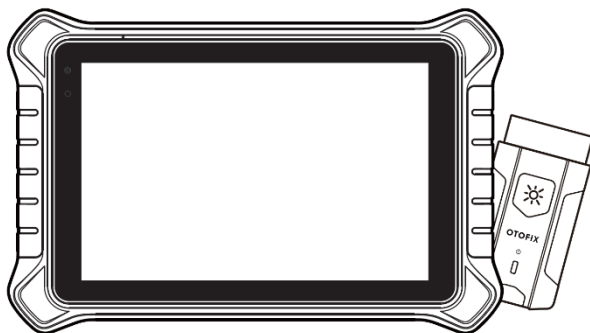


OTOFIX D1 Max2



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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 contact your local selling agent.

Safety Information

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

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

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

Safety Messages

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

DANGER

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

WARNING

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

Safety Instructions

The safety messages herein cover situations the company is aware of. Autel Intelligent Technology Corp., Ltd. 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.

It is not advised to use headphones at a high volume

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

Safety Warnings

- Always perform automotive testing in a safe environment.
- Wear safety eye protection that meets ANSI standards.
- Keep clothing, hair, hands, tools, test equipment, etc., away from all moving or hot engine parts.
- Operate the vehicle in a well-ventilated work area.
- 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, and free from oil, water and grease. Use a mild detergent on a clean cloth to clean the outside of the equipment as necessary.
- Do not drive the vehicle and operate the test equipment at the same time. Any distraction may cause an accident.
- Refer to the service manual for the vehicle being serviced and adhere to all diagnostic procedures and precautions. Failure to do so may result in personal injury or damage to the test equipment.
- To avoid damaging the test equipment or generating false data, make sure the vehicle battery is fully charged and the connection to the vehicle DLC is clean and secure.
- Do not place the test equipment on the distributor of the vehicle. Strong electro-magnetic interference can damage the equipment.

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1. Using This Manual

This manual contains device usage instructions.

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

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 that if not avoided may result in damage to the tablet or vehicle.

1.1.3 Hyperlink

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

1.1.4 Illustrations

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

1.1.5 Procedures

An arrow icon indicates a procedure.

Example:

- **To power down the tablet**
 1. Long press the **Power/Lock** button.
 2. Tap **Power Off**.
 3. Tap **OK**. The tablet will turn off in a few seconds.

2. General Introduction

There are two main components to the OTOFIX diagnostic system:

- OTOFIX D1 Max2 Tablet — the central processor and monitor for the system
- OTOFIX V1 — Vehicle Communication Interface (VCI)

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

2.1 OTOFIX D1 Max2 Tablet

2.1.1 Functional Description

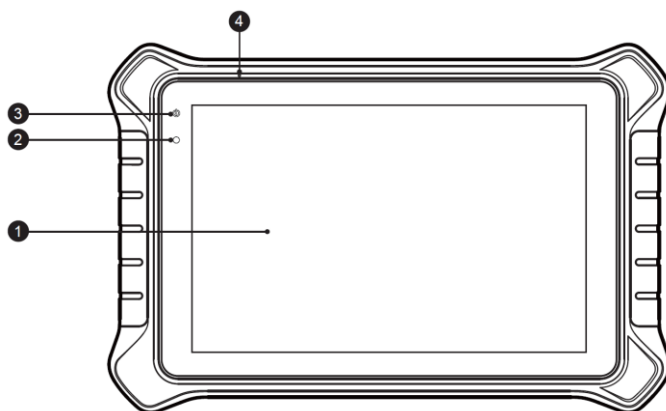


Figure 2-1 D1 Max2 Tablet, Front View

1. 10.1-inch Touchscreen
2. Ambient Light Sensor — detects ambient light brightness
3. Power LED
4. Built-in Microphone

Table 2-1 Power LED Description

LED	Color	Description
Power	Green	- Lights green when the tablet is charging and the battery level is above 90%. - Lights green when the tablet is powered on and the battery level is above 15%.
	Yellow	Lights yellow when the tablet is charging and the battery level is below 90%.
	Red	Lights red when the tablet is powered on and the battery level is below 15%.

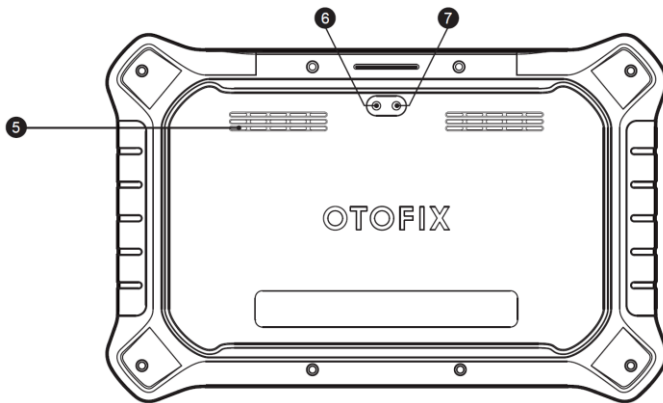


Figure 2-2 D1 Max2 Tablet, Back View

5. Speaker
6. Rear Camera
7. Camera Flash

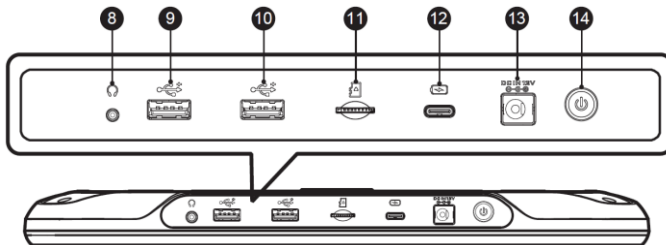


Figure 2-3 D1 Max2 Tablet, Top View

8. Headphone Jack
9. USB Port
10. USB Port
11. SD Card Slot
12. USB Type-C Port — supports charging
13. DC Power Supply Input Port
14. Power/Lock Button — long press to turn on/off the tablet, or short press to lock the screen

2.1.2 Power Sources

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

- Internal Battery Pack
- AC/DC Power Supply
- Type-C Power Supply

2.1.2.1 *Internal Battery Pack*

The tablet can be powered with its internal rechargeable battery, which if fully charged can provide sufficient power for about 8 hours of continuous operation.

! IMPORTANT

Do not charge the battery when the temperature is lower than 0 °C (32 °F) or higher than 45 °C (113 °F).

2.1.2.2 *AC/DC Power Supply*

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

2.1.2.3 *Type-C Power Supply*

This tablet can be powered using the supplied USB Type-C cable.

2.1.3 Technical Specifications

Table 2-2 D1 Max2 Technical Specifications

Item	Description
Operating System	Android 10
Processor	Octa-core processor
Memory	4 GB RAM & 128 GB on-board memory
Display	10.1-inch LCD capacitive touchscreen with 1920 x 1200 resolution
Connectivity	• Wi-Fi (802.11 b/g/n/ac) • USB (two USB Host Type A, one Type-C) • Bluetooth V5.0 • GPS • SD card (support up to 256 GB)
Camera (Rear)	13 MP
Sensors	• Gravity Accelerometer • Ambient Light Sensor (ALS)
Audio Input/Output	• Microphone • Dual speakers • 3-band or 4-band 3.5 mm headset jack
Power and Battery	• Charging via 12 V AC/DC power supply • Charging via 5 V USB Type-C power supply • 11600 mAh 3.85 V lithium-polymer battery
Input Voltage	• DC input: 12 V/3 A • USB-C input: 5 V/1.5 A
Operating Temperature	0 to 50 °C (32 to 122 °F)
Storage Temperature	-10 to 60 °C (14 to 140 °F)

Item	Description
Dimensions (W x H x D)	300 mm (11.8") x 220 mm (8.7") x 50 mm (2.0")
Net Weight	1.71 kg (3.77 lb.)
Supported Automotive Protocols	PLC J2497, ISO-15765, SAE-J1939, ISO-14229 UDS, SAE-J2411 Single Wire Can (GMLAN), ISO-11898-2, ISO-11898-3, SAE-J2819 (TP20), TP16, ISO-9141, ISO-14230, SAE-J2610 (Chrysler SCI), UART Echo Byte, SAE-J2809 (Honda Diag-H), SAE-J2740 (GM ALDL), SAE-J1567 (CCD BUS), Ford UBP, Nissan DDL UART with Clock, BMW DS2, BMW DS1, SAE J2819 (VAG KW81), KW82, SAE J1708, SAE-J1850 PWM (Ford SCP), SAE-J1850 VPW (GM Class2), ISO13400, CAN FD

2.2 V1 — Vehicle Communication Interface

The OTOFIX V1 is a small vehicle communication interface (VCI) used to connect to a vehicle's data link connector (DLC) and connect with the tablet via Bluetooth or USB cable for vehicle data transmission.

2.2.1 Functional Description

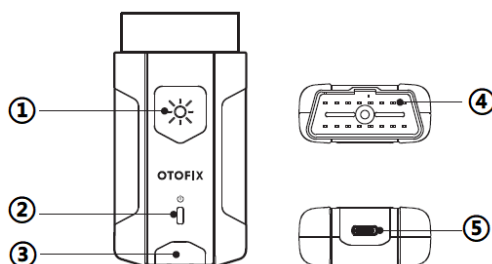


Figure 2-4 OTOFIX V1 Views

1. Flashlight Button
2. Power LED
3. Vehicle/Connection LED

4. Vehicle Data Connector (16-pin)
5. USB Port

Table 2-3 OTOFIX V1 LED Description

LED	Color	Description
Power LED	Yellow	Lights solid yellow when the VCI is powered on and performing self-check.
	Green	Lights solid green when the VCI is ready for use.
	Red	Flashes red when the firmware is upgrading.
Vehicle/Connection LED	Green	● Lights solid green when VCI is connected via USB cable. ● Flashes green when VCI is communicating via USB cable.
	Blue	● Lights solid blue when VCI is connected via Bluetooth. ● Flashes blue when VCI is communicating via Bluetooth.

2.2.2 Power Sources

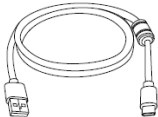
The VCI device operates on 12/24 Volt vehicle power, which receives power via the vehicle data connection port. The device powers on whenever it is connected to an OBDII/EOBD compliant Data Link Connector (DLC).

2.2.3 Technical Specifications

Table 2-4 OTOFIX V1 Technical Specifications

Item	Description
Communications	● Bluetooth V4.2 + BR/EDR ● USB 2.0
Wireless Frequency	2.4 GHz
Input Voltage Range	6 to 36 V DC
Supply Current	150 mA @ 12 V DC
Operating Temp.	0 to 50 °C (32 to 122 °F)
Storage Temp.	-10 to 60 °C (14 to 140 °F)
Dimensions (L x W x H)	89.89 mm (3.53") x 46.78 mm (1.84") x 21 mm (0.82")
Weight	70.7 g (0.156 lb.)

2.3 Other Accessories

	USB Type-C Cable Connects the tablet and V1. Supports charging the tablet.
	AC/DC External Power Adapter Supplies power to the tablet.

3. Getting Started

Make sure the tablet has sufficient power or is connected to the external power supply (see [Power Sources](#)).

NOTE

The images and illustrations depicted in this manual may differ slightly from the actual ones.

3.1 Power Up

Long press the **Power/Lock** button on the top right side of the tablet to power on the unit. The system boots up and displays the OTOFIX Job Menu.

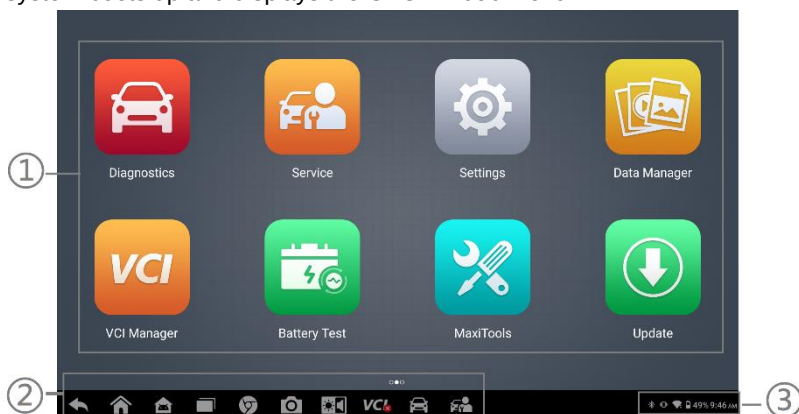


Figure 3-1 OTOFIX Job Menu

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

NOTE

It is recommended to lock the screen when not in use to protect private information in the system and conserve power.

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

3.1.1 Application Buttons

Table 3-1 Application Buttons describes each of the applications in the OTOFIX system.

Table 3-1 Application Buttons

Icon	Name	Description
	Diagnostics	Configures the unit to operate as a diagnostics tool. See Diagnostics for details.
	Service	Accesses special functions menu. See Service for details.
	Battery Test	Assesses the Battery Test menu. See Battery Test for details.
	Settings	Allows you to set the OTOFIX system settings and view general information about the tablet. See Settings for details.
	Update	Checks for the latest update available for the OTOFIX system, and installs new software. See Software Update for details.
	Data Manager	Accesses the organization system for saved data files. See Data Manager for details.
	VCI Manager	Establishes and manages the Bluetooth connection to the VCI device. See VCI Manager for details.
	Remote Desktop	Configures your unit to receive remote support using the TeamViewer application program. See Remote Desktop for details.
	User Feedback	Allows you to submit questions related to this product. See User Feedback for details.
	Quick Link	Provides associate website bookmarks to allow quick access to product updates, service, support, and other information. See Quick Link for details.

Icon	Name	Description
	Support	Launches the Support platform which synchronizes Autel's on-line service base station with the OTOFIX tablet. See Support for details.
	MaxiViewer	Provides a quick search for supported functions and/or vehicles. See MaxiViewer for details.
	MaxiVideo	Configures the unit to operate as a video scope device by connecting to an imager head cable for close vehicle inspections. See MaxiVideo for details.
	Autel User Center	Allows you to register an account, view and edit your personal profile, and link your device. See Autel User Center for details.
	MaxiTools	Includes the Log Collection and Factory Data Reset sections.
	Demonstration	Provides a step-by-step operation demonstration for diagnostics.
	OEM Authorization	Manages the permissions for unlocking the OE gateway.

3.1.2 Locator and Navigation Buttons

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

Table 3-2 Locator and Navigation Buttons

Button	Name	Description
	Locator	Indicates the location of the screen in relation to others when multiple screens are open. Swipe the screen left or right to view the previous or next screen.
	Back	Returns to the previous screen.

Button	Name	Description
	Home	Returns to the OTOFIX Job Menu.
	Android Home	Returns to the Android system Home screen.
	Recent Apps	Displays a list of applications that are currently working. To open an application, tap it. To remove an application, swipe it up. To close all running applications, tap Clear All .
	Chrome	Launches the built-in web browser.
	Camera	Opens the camera with short press; takes and saves a screenshot image with long press. The image files are saved in the Data Manager application for later review. See Data Manager .
	Display & Sound	Allows you to adjust the brightness of the screen and the volume of the audio output.
	VCI	Opens the VCI Manager application. The green badge at the bottom-right corner indicates the tablet is communicating with the VCI device. A red "cross" icon indicates no connection.
	Diagnostics Shortcut	Returns to the Diagnostics operation interface from other applications.
	Service Shortcut	Returns to the Service operation interface from other applications.

➤ **To use the camera**

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

3.1.3 System Status Icons

Your tablet is a fully functional Android tablet with the standard Android operating system status icons. By tapping on the bottom-right corner, a Shortcuts Panel will be displayed, on which you are allowed to set various system settings. Refer to Android documentation for additional information.



NOTE

The Shortcuts buttons will be highlighted when enabled and dimmed when disabled.

3.2 Power Down

All vehicle communications should be terminated before shutting down the tablet. A warning message displays if a shutdown is attempted while the tablet is communicating with the vehicle. Forcing a shutdown while the tablet is communicating with the vehicle may lead to ECU errors on some vehicles. Please exit the Diagnostics application before shutting off the tablet.

➤ To power down the tablet

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

3.2.1 Reboot System

In case of a system crash, long press the **Power/Lock** button to power off the tablet and restart it.

➤ To reboot the tablet

1. Press and hold the **Power/Lock** button.
2. Tap **Restart**.
3. Tap **OK**. The tablet will turn off and restart.

4. Diagnostics

By establishing a data link to the electronic control systems of the vehicle being serviced through the V1, the Diagnostics application allows you to retrieve diagnostics information, view live data parameters, and perform active tests. The Diagnostics application can access the electronic control module (ECM) for various vehicle control systems, such as engine, transmission, antilock brake system (ABS), airbag system (SRS), and more.

4.1 Establish Vehicle Communication

The Diagnostics operations require connecting the OTOFIX Diagnostics Platform to the vehicle through the V1 and test adapters (for non-OBDII vehicles). To establish proper vehicle communication with the tablet, you need to perform the following steps:

1. Connect the V1 to the vehicle's DLC for both communication and power source.
2. Connect the V1 to the tablet via Bluetooth pairing or USB connection.
3. When these are done, check the VCI navigation button at the bottom bar on the screen. If the button displays a green badge, the OTOFIX diagnostics platform is ready to start vehicle diagnosis.

4.1.1 Vehicle Connection

The tablet communicates with the vehicle via the Bluetooth connection provided by the OTOFIX V1.

To connect the V1 to the vehicle, simply insert the Vehicle Data Connector on the V1 into the vehicle's DLC (usually located under the vehicle dashboard) and the V1 automatically powers on.

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.

4.1.2 VCI Connection

After the V1 is properly connected to the vehicle, and the Power LED on the VCI device illuminates solid green, indicating that the V1 is ready to establish communication with the tablet. The V1 supports 2 communication methods with the tablet: Bluetooth and USB.

4.1.2.1 Bluetooth Connection

Bluetooth pairing is recommended as the first choice for communication between the tablet and the VCI device. The working range for Bluetooth communication allows you to perform vehicle diagnosis freely around the workshop with greater convenience.

If you use more than one VCI device to connect to the vehicles, you can perform vehicle diagnosis on various vehicles conveniently by pairing the tablet separately to each of the VCI devices connected to the different vehicles via Bluetooth, without the need to repeat the plugging and unplugging procedure (which is unavoidable when using traditional wired connection), saving you time and increasing efficiency.

➤ To pair the tablet with the V1 via Bluetooth

1. Power on the tablet.
2. Connect the OTOFIX Diagnostics Platform to the vehicle through the V1. See [Establish Vehicle Communication](#).
3. Tap **VCI Manager** on the OTOFIX Job Menu of the tablet.
4. Select **VCI BT** (short for VCI Bluetooth) from the connection mode list.
5. Toggle Bluetooth **ON**. The device will start to search for available pairing units for pairing.

NOTE

If no VCI device is found, this may indicate that the signal strength of the transmitter is too weak to be detected. In this case, try to get closer to the device, or reposition the VCI device, and remove all possible objects that cause signal interference. When these are done, tap the **Scan** button at the top-right corner to start searching again.

6. Depending on the type of VCI you use, the device name may display as "Maxi" suffixed with a serial number. Select the appropriate device for pairing.
7. When paired successfully, the connection status reads "Connected."
8. Wait a few seconds, and the VCI button on the system navigation bar at the bottom of the screen will display a green badge, and the Connection LED on the V1 illuminates solid blue, indicating the tablet is connected to the VCI and is ready to perform vehicle diagnosis.

4.1.2.2 USB Cable Connection

The USB cable connection is a simple and quick way to establish communication between the tablet and the V1. After properly connecting the USB cable from the tablet to the VCI device, the VCI navigation button at the bottom bar of the screen shows a green badge in a few seconds, and the Connection LED on the V1 illuminates solid green, indicating the connection between the devices is successful. The OTOFIX diagnostics platform is now ready to perform vehicle diagnosis.

 NOTE

The USB cable connection provides the most stable communication and is therefore the recommended communication mode between the tablet and V1 when operating ECU coding. The USB communication method will take priority over other connected communication modes.

4.1.3 No Communication Message

- A. If the tablet is unable to connect to the VCI, an “Error” message displays. An “Error” message indicates the tablet is not communicating with the VCI. Troubleshoot the error by performing the following steps:
- Ensure the VCI device is powered on.
 - When using the wireless connection, ensure the network is configured correctly and the proper device has been connected.
 - If the tablet loses communication abruptly during diagnostics, ensure no objects are causing signal interruption.
 - Ensure the VCI device is properly positioned with the VCI front side up.
 - Move the tablet closer to the VCI device. If using the wired connection, ensure the cable is securely attached to the VCI.
 - Ensure the VCI communication mode is lit for the selected communication type, Bluetooth or USB.
- B. If the VCI device is unable to establish a communication link, a message will display troubleshooting instructions. Possible causes for the communication error include:
- The VCI device is unable to establish a communication link with the vehicle.
 - A vehicle system has been selected for diagnosis that is not supported by the vehicle.
 - There is a loose connection.
 - There is a blown vehicle fuse.
 - The vehicle or the data case has a wiring fault.
 - There is a circuit fault in the data cable or adapter.
 - The vehicle identification is incorrectly entered.

4.2 Getting Started

Prior to the first use of the Diagnostics application, ensure the VCI device is properly connected to and is communicating with the tablet. See [Establish Vehicle Communication](#).

4.2.1 Vehicle Menu Layout

When the VCI device OTOFIX V1 is properly connected to the vehicle and paired to the tablet, the platform is ready to start vehicle diagnosis. Tap the **Diagnostics** application button on the OTOFIX Job Menu, and the Vehicle Menu displays on the screen.



Figure 4-1 Vehicle Menu Screen

1. Top Toolbar Buttons
2. Manufacturer Icons

4.2.1.1 Top Toolbar Buttons

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

Table 4-1 Top Toolbar Buttons

Button	Name	Description
	Home	Returns to the OTOFIX Job Menu.
	VID	Opens a dropdown list: ● Tap Auto Detect for auto VIN detection ● Tap Manual Input to enter VIN manually ● Tap Scan VIN/License Plate to scan the VIN code/license number using the built-in camera.

Button	Name	Description
	All	Displays all the vehicle makes in the vehicle menu.
	Favorites	Displays user-selected favorite vehicle makes.
	History	Displays your saved vehicle history records. This option provides you direct access to the previously tested vehicle recorded during previous test sessions. See Vehicle History .
	America	Displays the American vehicle menu.
	Europe	Displays the European vehicle menu.
	Asia	Displays the Asian vehicle menu.
	China	Displays the Chinese vehicle menu.
	Search	Opens the virtual keyboard, allowing you to manually enter a specific vehicle make.
	Cancel	Exits the search screen or cancels an operation.

4.2.1.2 Manufacturer Icons

The Manufacturer Icons display the various vehicle brand names. Select the manufacturer icon to start a diagnostic session after the VCI is properly connected to the test vehicle.

4.3 Vehicle Identification

The OTOFIX diagnostic system supports five methods of Vehicle Identification.

1. Auto VIN Scan
2. Manual VIN Input
3. Scan VIN/License Plate
4. Manual Vehicle Selection
5. OBDII Direct Entry

4.3.1 Auto VIN Scan

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

➤ **To perform an Auto VIN Scan**

1. Tap the **Diagnostics** application button from the OTOFIX Job Menu. The Vehicle Menu displays.
2. Tap the **VID** button on the top toolbar.



Figure 4-2 VID Button Screen

3. Select **Auto Detect**. The tablet starts VIN scanning on the vehicle's ECU. Once the test vehicle is successfully identified, the system will guide you to the Diagnostics Main Menu Screen (Figure 4-5).

The VIN Auto Detect function is still available after selecting a vehicle manufacturer.

Select a vehicle manufacturer icon from the Vehicle Menu Screen (Figure 4-1). Select **Automatic Selection** from the Select Diagnostic Type screen and tap **Read**. This enables the system to retrieve the VIN information automatically. Alternatively, you can input the VIN manually.

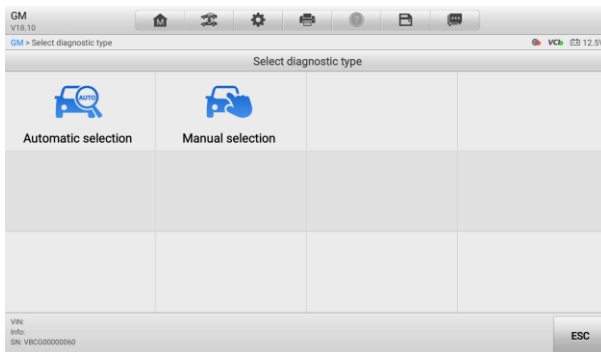


Figure 4-3 Select Diagnostic Type Screen

4.3.2 Manual VIN Input

For some vehicles that do not support the Auto VIN Scan function, the OTOFIX diagnostics system allows you to enter the VIN manually.

➤ To perform Manual Input

1. Tap the **Diagnostics** application button from the OTOFIX Job Menu. The Vehicle Menu displays.
2. Tap the **VID** button (Figure 4-2) on the top toolbar.
3. Select **Manual Input**.
4. Tap the input box and enter the correct VIN.
5. Tap **OK**. The vehicle will be identified in a few seconds, and once the vehicle information is confirmed, the system will guide you to the Vehicle Diagnostics screen directly.
6. Tap the icon on the top-right corner to exit Manual Input.

4.3.3 Scan VIN/License Plate

Tap **Scan VIN/License Plate** in the dropdown list (See Figure 4-2), and the camera will be opened. On the right side of the screen, from top to bottom, four options are available: Select Recognition Record, Scan Bar Code, Scan VIN, and Scan License.

NOTE

The Scan License method is supported in limited regions. Please manually enter the license number if it is not available.

Select one of three options and position the tablet to align the VIN or license number within the scanning window. The result displays in the Recognition Result dialog box after scanning. Tap **OK** to confirm the result, and then the vehicle information confirmation

screen will display on the tablet. If all the vehicle information is correct, tap the icon in the middle of the screen to confirm the VIN of the vehicle being tested, and tap **OK** to continue.

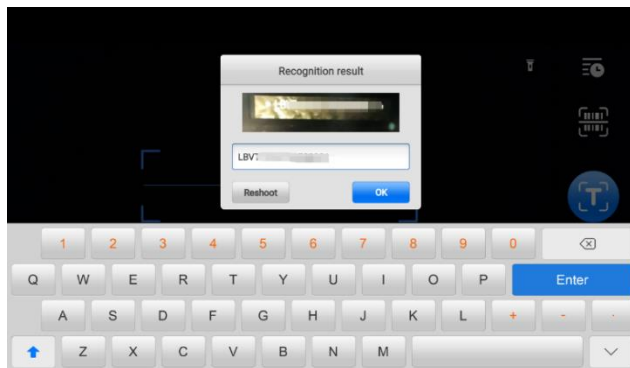


Figure 4-4 Scan VIN Code Screen

If the VIN/License number cannot be scanned, please manually enter the VIN/License number. Tap **OK** to continue. Manually enter the license number and select a vehicle brand in the vehicle information confirmation screen. Tap the icon in the middle of the screen to confirm the VIN of the vehicle being tested. Tap **OK** to continue.

4.3.4 Manual Vehicle Selection

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

4.3.4.1 Step-by-step Vehicle Selection

This mode of vehicle selection is menu-driven; you can simply follow the on-screen prompts and make a series of choices. Each selection you make advances you to the next screen.

Select a manufacturer icon from the Vehicle Menu Screen (Figure 4-1) and then select the **Manual Selection** button (Figure 4-3). Select the vehicle information, such as Brand, Model, Capacity, Engine type, and Model year, on the same screen. Tap **OK** to confirm the vehicle information. Tap the **Reset** button to reselect the vehicle information if needed. Tap the **ESC** button at the lower-right corner of the screen to exit the vehicle selection.

4.3.5 OBDII Direct Entry

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

4.4 Navigations

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

4.4.1 Diagnostics Screen Layout

The diagnostics screens typically include five sections.

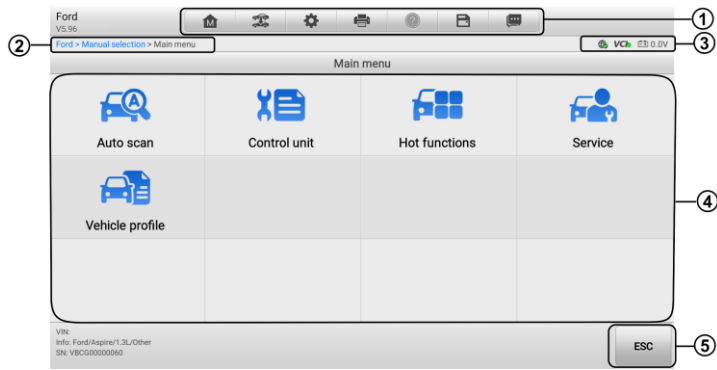


Figure 4-5 Diagnostics Main Menu Screen

- 1. Diagnostics Toolbar
- 2. Current Directory Path
- 3. Status Information Bar
- 4. Main Section
- 5. Function Buttons

4.4.1.1 Diagnostics Toolbar

The Diagnostics Toolbar contains several buttons that allow you to print and save the displayed data, along with other controls. The table below provides a brief description for the operations of these buttons.

Table 4-2 Diagnostics Toolbar Buttons

Button	Name	Description
	Home	Returns to the OTOFIX Job Menu.

Button	Name	Description
	Vehicle Swap	Exits the diagnostics session of the currently identified vehicle and returns to the vehicle menu screen to select another vehicle for testing.
	Print	Saves and prints a copy of the displayed data. See Printing Operations for additional information.
	Help	Provides instructions or tips for the operations of various diagnostics functions.
	Save	Opens a submenu that provides options for data storage.
	Data Logging	Records the communication data and ECU information of the vehicle. The saved data can be reported and sent to the technical support center via the Internet. You can go to the Support application to follow up on the progress. See Data Logging for further information.

➤ **To print data in Diagnostics**

1. Tap the **Diagnostics** application button on the OTOFIX Job Menu. The **Print** button on the diagnostic toolbar is available throughout the Diagnostics operations.
2. Tap **Print** and a drop-down menu displays.
 - a) **Print This Page** — prints a screenshot copy of the current screen.
 - b) **Print All Data** — prints a PDF copy of all displayed data.
3. A temporary file will be created and sent via the computer to the printer.
4. When the file is sent, a confirmation message displays.

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

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

4.4.1.2 *Current Directory Path*

The Current Directory Path shows all directory names to access the current page.

4.4.1.3 *Status Information Bar*

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

- **Network Status Icon** — indicates whether a network is connected.
- **VCI Icon** — indicates the communication status between the tablet and the VCI device.
- **Battery Icon** — indicates the battery status of the vehicle.

4.4.1.4 *Main Section*

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

4.4.1.5 *Function Buttons*

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

4.4.2 **Screen Messages**

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

4.4.2.1 *Confirmation Messages*

Confirmation messages inform you when you are about to perform an action that cannot be reversed or when an action has been initiated and your confirmation is needed to continue.

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

4.4.2.2 *Warning Messages*

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

4.4.2.3 Error Messages

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

4.4.3 Making Selections

The Diagnostics application is a menu-driven program that presents a series of options one at a time. As you select from a menu, the next menu in the series displays. Each selection narrows the focus and leads to the desired test. Use your fingertip to make menu selections.

4.5 Main Menu

The Diagnostics application allows you to establish a data link to the electronic control system of the vehicle via the VCI device for vehicle diagnosis and service. You can operate functional tests, retrieve vehicle diagnostics information such as trouble codes, event codes, and live data for various vehicle control systems, such as engine, transmission, ABS, and more.

After a section is selected and the tablet establishes communication with the vehicle via the VCI device, the corresponding function menu or selection menu displays.

➤ **To perform a diagnostic function**

1. Establish communication with the vehicle via the VCI device.
2. Identify the vehicle by selecting from the menu options.
3. Locate the required system for testing by **Auto Scan** or through menu-driven selections in **Control Unit**.
4. Select the desired test from the Function Menu.

 NOTE

With the diagnostics toolbar on top of the screen throughout the whole diagnostics procedures, you are allowed to make various controls of the diagnostics information at any time, such as printing and saving the displayed data, getting help information, or performing data logging, etc.

4.5.1 Auto Scan

The Auto Scan function performs a comprehensive scanning over all the systems on the vehicle's ECU in order to locate fault systems and retrieve DTCs. The sample operation interface of Auto Scan displays as below.

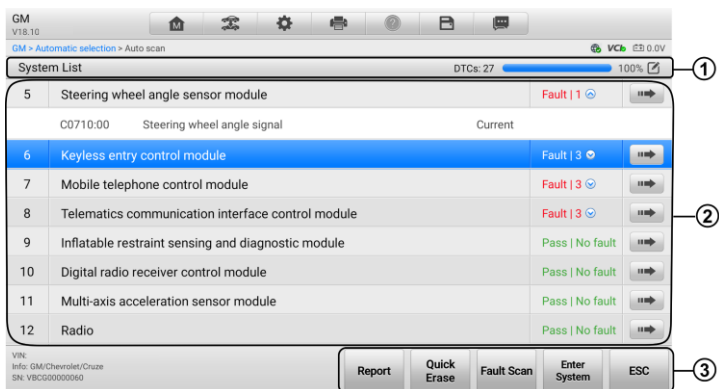


Figure 4-6 Auto Scan Operation Screen

① Navigation Bar

② Main Section

③ Function Buttons

4.5.1.1 Navigation Bar

- List Tab — displays the scanned data in list format.
- Progress Bar — indicates the test progress.

4.5.1.2 Main Section

- Column 1 — displays the system numbers.
- Column 2 — displays the scanned systems.
- Column 3 — displays the diagnostics marks indicating different conditions of the test result:
 - ◆ **Fault | #:** indicates there is/are detected fault code(s) present; "#" indicates the number of the detected faults.
 - ◆ **Pass | No fault:** indicates the system has passed the scanning process and no fault has been detected.
 - ◆ **Not Scanned:** Indicates the system has not been scanned, or the vehicle control system has been detected, but the tablet cannot access it.
 - ◆ **No Response:** Indicates the system has not received a response.
- Column 4 — displays the  button. Tap it to enter a system for performing further diagnostics.

4.5.1.3 Function Buttons

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

Table 4-3 Function Buttons in Auto Scan

Name	Description
Report	Displays the diagnostics data in the report form.
Quick erase	Deletes codes. A warning message screen will display to inform you of possible data loss when this function is selected.
Fault scan	Starts scanning and changes to the Pause button.
Pause/Continue	Suspends or continues scanning.
Enter system	Enters the ECU system.
ESC	Returns to the previous screen or exit Auto Scan.

4.5.2 Control Unit

This option allows you to manually locate a required control system for testing through a series of choices. You simply follow the menu-driven procedure and make proper selections each time; the program will guide you to the diagnostics function menu after a few choices you have made.

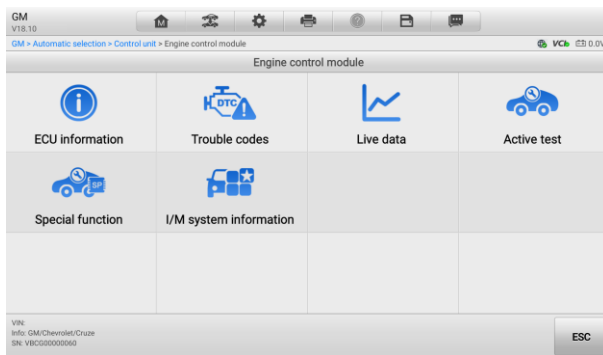


Figure 4-7 Function Menu Screen

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

- **ECU information** — displays detailed ECU information. Select to display information screen.
- **Trouble codes** — contains Read Codes and Erase Codes. The former displays detailed DTC information retrieved from the vehicle control module, the latter facilitates you to erase DTCs and other data from the ECU.
- **Live data** — retrieves and displays live data and parameters from the vehicle's ECU.
- **Active test** — provides specific subsystem and component tests. This selection may appear as **Actuators**, **Actuator Test**, or **Function Tests**, etc., and the tests options vary depending on the manufacturer and model.
- **Special functions** — provides component adaptation or variant coding functions for custom configurations, and also allows you to reprogram adaptive values for certain components after making repairs. Depending on the vehicle, this selection may sometimes appear as **Control unit adaptations**, **Special function**, **Variant coding**, **Configuration**, etc.

4.5.3 ECU Information

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

4.5.4 Trouble Codes

4.5.4.1 Read Codes

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

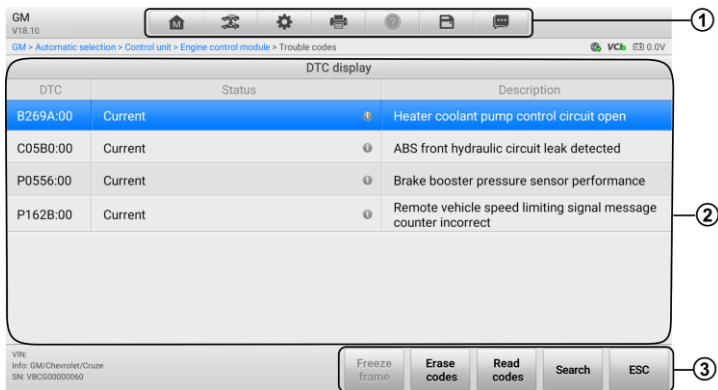


Figure 4-8 Read Codes Screen

1. Diagnostics Toolbar – see [Table 4-2 Diagnostics Toolbar Buttons](#) for details.
2. Main Section
 - DTC Column — displays the retrieved codes from the vehicle.
 - Status Column — indicates the status of the retrieved codes.
 - Description Column — displays detailed descriptions for the retrieved codes.
 - Snowflake Icon — only displays when freeze frame data is available for viewing; Selecting this icon will display a data screen, which looks very similar to the Read Codes interface, therefore same operation method may be applied.
3. Function Buttons

Table 4-4 Function Buttons in Trouble Codes

Name	Description
Freeze Frame	Displays when freeze frame data is available for viewing; Tap the icon to display data screen. The Freeze Frame interface is similar to that of the Read Codes interface and share similar operations.
Erase Codes	Erases codes from the ECU. It is recommended that DTCs are read and needed repairs are performed before erasing codes.
Read Codes	Retrieves and displays the DTCs from the vehicle control system. The Read Codes screen varies for each vehicle being tested.

Name	Description
Search	Searches the selected DTC for additional information on the Internet.
ESC	Returns to the previous screen or exit Trouble Code.

4.5.4.2 Erase Codes

After reading the retrieved codes from the vehicle and certain repairs have been made, you can erase the codes from the vehicle using this function. Before performing this function, make sure the vehicle's ignition key is in the ON (RUN) position with the engine off.

➤ To erase codes

1. Tap **Erase Codes** at the bottom of the screen.
2. A warning message displays to inform you of data loss when this function is applied.
 - a) Tap **Yes** to continue. A confirming screen displays when the operation is successfully done.
 - b) Tap **No** to exit.
3. Tap **ESC** on the confirming screen to exit Erase Codes.
4. Check the Read Codes function again to ensure the operation is successful.

4.5.5 Live Data

When this function is selected, the screen displays the data list for the selected module. The parameters display in the order that they are transmitted by the ECU, so expect variation among vehicles.

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

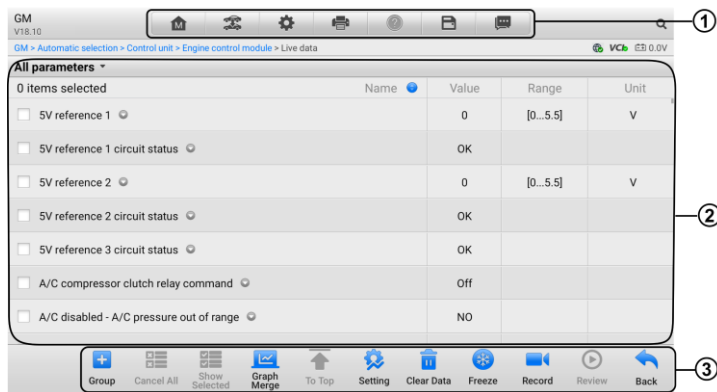


Figure 4-9 Live Data Screen

1. Diagnostics Toolbar Buttons — See [Table 4-2 Diagnostics Toolbar Buttons](#) for detailed descriptions of the operations for each button.
2. Main Section
 - Name Column — displays the parameters.
 - Check Box — tap the check box to the left of a parameter to select the item. Tap the check box again to deselect it.
 - Drop-down Button — tap the drop-down button on the right side of the parameter to open a submenu, which provides optional modes that display the data.
 - Value Column — displays the values of the parameters.
 - Range Column — displays the ranges of the parameters.
 - Unit Column — displays the unit for the parameter values.

Display Mode

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

Tap the drop-down button on the right side of the parameter name to open a submenu. A total of 8 buttons will be displayed: The 4 buttons to the left represent different data display modes, plus one **Information** button (active when additional information is available), one **Add to Group** button (for adding the selected parameters to the custom group), one **Unit Change** button (for switching the unit of displayed data), and one **Trigger** button (for opening the "Trigger Setting" window).

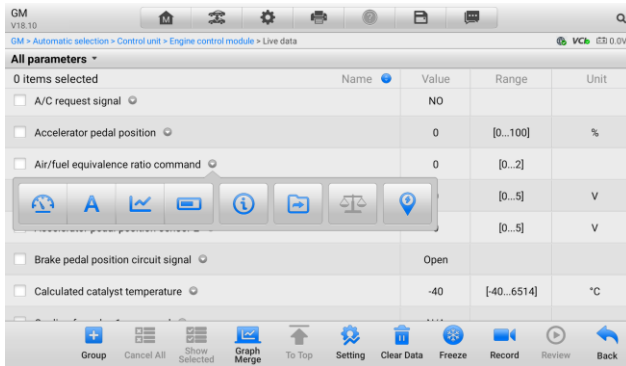


Figure 4-10 Display Mode Screen

Each parameter item displays the selected mode independently.

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

NOTE

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

- **Waveform Graph Mode** — displays the parameters in waveform graphs.

In this mode, five control buttons will display on the right side of the parameter item, allowing you to manipulate the display status.

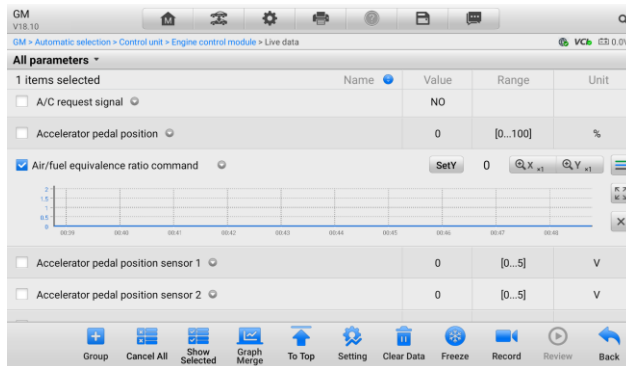


Figure 4-11 Waveform Graph Mode Screen

- ◆ **Settings (SetY)** — sets the minimum and maximum value of the Y axis.
- ◆ **Scale** — changes the scale values.

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

- ◆ Edit — edits the waveform color and the line thickness.
- ◆ Zoom-in — displays the selected data graph in full screen.
- ◆ Exit — exits the waveform graph mode.

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

- ◆ Scale — changes the scale values. There are four scales available for the X-axis: x1, x2, x4 and x8. There are three scales available for the Y-axis: x1, x2, and x4.
- ◆ Edit — opens an edit window, in which you can set the waveform color and the line thickness displayed for the selected parameter item.
- ◆ Zoom-out — exits full screen display.
- ◆ Exit — exits the waveform graph mode.

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

1. Select 1 parameter to display in Waveform Graph mode.
2. Tap the **Edit** button, and an edit window displays.
3. The parameter item is selected automatically in the left column.
4. Select a desired sample color from the second column.
5. Select a desired sample line thickness from the right column.
6. Tap **Done** to save the setting and exit, or tap **Cancel** to exit without saving.

🔗 **NOTE**

In the full-screen display, please edit the waveform color and line thickness by tapping the **Edit** button on the top right side of the screen.

- **Digital Gauge Mode** — displays the parameters in the form of a digital gauge graph.

Trigger Settings

On the trigger setting screen, you can set a standard range by filling in a Minimum value and a Maximum value. When exceeding this range, the trigger function will be executed and the device will automatically record and save the generated data. You can check the saved live data by tapping the **Review** button at the bottom of the screen.

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

Two buttons and two input boxes are available in the Trigger Setting dialog box.

- ◆ **Trigger** — switches the trigger on and off. The trigger is **ON** by default.
- ◆ **Buzzer Alarm** — switches the alarm on and off. The alarm function makes a beep sound as an alert when the data reading reaches the preset minimum or maximum point. The buzzer alarm will only sound at the first trigger.
- ◆ **MIN** — display a virtual keyboard to enter the required lower limit value.
- ◆ **MAX** — display a virtual keyboard to enter the required upper limit value.

➤ **To set a trigger**

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

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

3. Function Buttons

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

- **Group** — tap this button to create a new group or select an existing custom group.
- **Cancel All** — tap this button to cancel all selected parameter items. Up to 50 parameters can be selected at one time.
- **Show Selected/Show All** — tap this button to switch between the two options. One displays the selected parameter items, and the other displays all the available items.
- **Graph Merge** — tap this button to merge selected data graphs (for Waveform Graph Mode only). This function is very useful when comparing different parameters.

 NOTE

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

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

➤ **To merge selected data graphs**

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

● **To Top** — moves a selected data item to the top of the list.

● **Setting** — sets recording duration.

➤ **To set live data record duration**

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

● **Clear Data** — tap to clear all cached live data.

● **Freeze** — displays the retrieved data in freeze mode.

◆ **Resume** — tap to exit the freeze data mode and return to normal data display.

◆ **Previous Frame** — moves to the previous frame of frozen data.

◆ **Play/Pause** — tap to play/pause the frozen data.

◆ **Next Frame** — moves to the next frame of frozen data.

● **Record** — starts recording the live data of the selected data items. Tap the **Record**

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

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

NOTE

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

- ◆ Graph Merge — merges selected data graphs.
 - ◆ Show Selected — displays the selected parameter items.
 - ◆ Previous Frame — switches to the previous frame of recorded data.
 - ◆ Play/Pause — tap to play/pause recorded data.
 - ◆ Next Frame — switches to the next frame of recorded data.
 - ◆ Back — exits the Review Screen, and returns to the Live Data screen.
- **Back** — returns to the previous screen or exits the function.

4.5.6 Active Test

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

During an active test, the tablet sends commands to the ECU in order to drive the actuators. This test determines the integrity of the system or parts by reading the engine ECU data, or by monitoring the operation of the actuators, such as switching a solenoid, relay, or switch, between two operating states.

Selecting **Active Test** displays a menu of test options. Available tests vary by vehicle.

Select a test from the menu options. Follow the instructions displayed on the screen to complete test. Procedures and instructions vary by vehicle.

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

4.5.7 Special Function

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

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

- The first part in the top line shows the description of the operation being performed, and the execution status is displayed on the right, such as Completed, Activated, etc.
- The second part shows the preconditions or requirements for executing the operation being selected.
- The third part displays the current conditions of the vehicle control module being learned for comparison to the preconditions suggested by the second part. If the current condition of the control module is out of the suggested limit value, you must adjust the vehicle condition to meet the requirement.
- The last part displays the instructions of how to use the function button at the lower right corner of the screen to manipulate the teach-in operations.

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

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

4.6 Hot Function

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

The most commonly performed hot functions include:

- Oil Reset Service
- TPMS Programming Service
- EPB Service
- ABS/SRS Services

- SAS Calibration Service
- DPF Regeneration Service

4.6.1 Function Descriptions

This section describes the main functions for vehicle service:

4.6.1.1 *Oil Reset Service*

This function allows you to perform reset for the Engine Oil Life system, which calculates an optimal oil life change interval depending on the vehicle driving conditions and climate. The Oil Life Reminder must be reset every time the oil is changed, so the system can calculate when the next oil change is required.

4.6.1.2 *Tire Pressure Monitor System (TPMS) Service*

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

4.6.1.3 *Electric Parking Brake (EPB) Service*

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

4.6.1.4 *ABS/SRS Services*

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

4.6.1.5 *Steering Angle Sensor (SAS) Service*

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

4.6.1.6 *DPF Regeneration Service*

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

4.7 Coding

The main section of the Coding screen displays a list of vehicle components and the coding information which mainly consists of two parts:

1. All available systems for coding are displayed on the left side, and the coding data or value on the right side.
2. The bottom of the main section displays the functional buttons that enable you to manipulate the operation.

Check the vehicle condition and the coding information carefully. Use the functional button to edit Codes for the corresponding components. Tap **Send** when you finish editing all items. When the operation is completed, an execution status message such as Completed, Finished or Successful, may display.

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

4.8 Generic OBDII Operations

The OBDII/EOBD vehicle diagnosis offers a quick way to check for DTCs, isolate the cause of a dashboard illuminated malfunction indicator lamp (MIL), check monitor status prior to emissions certification testing, and perform other emissions-related services. The OBDII direct access option is also used for testing OBDII/EOBD-compliant vehicles that are not included in the database. Diagnostics toolbar buttons at the top of the screen are available for specific vehicle diagnostics. See [Table 4–2 Diagnostics Toolbar Buttons](#) for details.

4.8.1 General Procedure

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

1. Tap the **Diagnostics** application button in the OTOFIX Job Menu. The Vehicle Menu displays.
2. Tap the **EOBD** button. There are two options to establish communication with the vehicle.
 - Auto Scan — select to establish communication using each protocol in order to determine which one the vehicle is using.
 - Protocol — select to open a submenu of various protocols. A communication protocol is a standardized way of data communication between an ECM and a diagnostic tool. Global OBD may use several different communication protocols.
3. Select a specific protocol if the **Protocol** option is selected. Wait for the OBDII

Diagnostic Menu to appear.

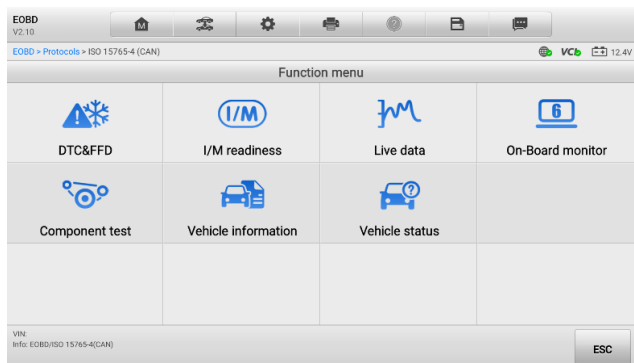


Figure 4-12 OBDII Diagnostic Menu

4. Select a function option to continue.

- DTC & FFD
- I/M Readiness
- Live Data
- On-Board Monitor
- Component Test
- Vehicle Information
- Vehicle Status

NOTE

Supported functions may vary by vehicle.

4.8.2 Function Descriptions

This section describes the various functions of each diagnostic option:

4.8.2.1 DTC & FFD

When this function is selected, the screen displays a list of Stored Codes and Pending Codes. When the Freeze Frame data of certain DTCs are available for viewing, a snowflake button will display on the right side of the DTC item. The Erase Codes function can be applied by tapping the functional button at the bottom of the screen.

- **Current Codes**

Current codes are emission-related DTCs from the ECU of the vehicle. OBDII/EOBD

Codes have a priority according to their emission severity, with higher-priority codes overwriting lower-priority ones. The priority of the code determines the illumination of the Malfunction Indicator Lamp (MIL) and the codes erase procedure. Manufacturers rank codes differently so expect display to vary by vehicle.

- **Pending Codes**

These are codes whose storing conditions have been met during the last drive cycle, but need to be met on two or more consecutive drive cycles before the DTC is stored. The purpose of displaying pending codes is to assist the service technician after a vehicle repair when diagnostic information is cleared, by reporting test results after a single driving cycle.

- a) If a test fails during the driving cycle, the DTC associated is reported. If the pending fault does not occur again within 40 to 80 warm-up cycles, the fault is automatically cleared from memory.
- b) Test results reported do not necessarily indicate a faulty component or system. If test results indicate another failure after additional driving, a DTC is stored to indicate a faulty component or system.

- **Freeze Frame**

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

- **Erase Codes**

This option is used to clear all emissions-related diagnostic data including DTCs, freeze frame data and specific manufacturer-enhanced data from the vehicle ECU. This option resets the I/M Readiness Monitor Status for all vehicle monitors to Not Ready or Not Complete status.

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

4.8.2.2 *I/M Readiness*

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

- **Since DTCs Cleared** — displays the status of monitors since the last time the DTCs were erased.

- This Driving Cycle — displays the status of monitors since the beginning of the current drive cycle.

4.8.2.3 *Live Data*

This function enables the display of real-time PID data from the ECU. Displayed data includes analog and digital input and output, and system status information broadcast in the vehicle data stream.

Live data can be displayed in various modes, see [Live Data](#) for detailed information.

4.8.2.4 *On-Board Monitor*

This function allows you to view the results of On-Board Monitor tests. The tests are useful after the service when a vehicle's control module memory is already erased.

4.8.2.5 *Component Test*

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

4.8.2.6 *Vehicle Information*

This function enables the display of the vehicle identification number (VIN), calibration identification number, Calibration Verification Number (CVN), and other test vehicle information.

4.8.2.7 *Vehicle Status*

This function checks the current condition of the vehicle, such as the communication protocols of OBDII modules, number of fault codes, and status of the Malfunction Indicator Lamp (MIL).

4.9 Exit Diagnostics

The Diagnostics application operates while communication with the vehicle is still active. It is important to properly exit from the diagnostics operation interface to stop all communications with the vehicle before closing the Diagnostics application.

NOTE

Damage to the vehicle electronic control module (ECM) may occur if communication is disrupted. 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**

1. From an active diagnostic screen, tap the **Back** or **ESC** functional button to exit a diagnostic session; Or
2. Tap the **Vehicle Swap** button in the diagnostics toolbar to return to the Vehicle Menu screen.
3. From the Vehicle Menu screen, tap the **Home** button in the top toolbar; or tap the **Back** button on the navigation bar at the bottom of the screen. Or
4. Tap the **Home** button on the diagnostics toolbar to exit the application directly and return to the OTOFIX Job Menu.

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

5. Service

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

In this chapter, we will discuss several of the most commonly used services.

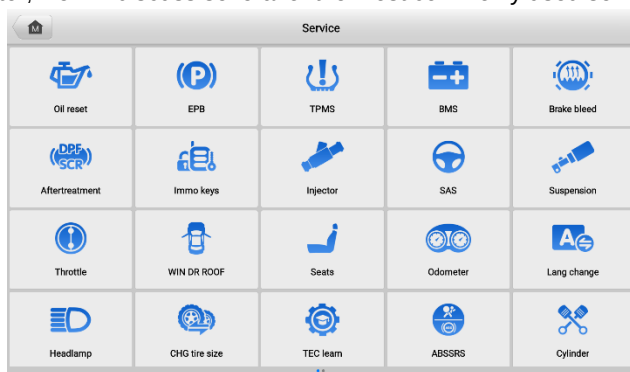


Figure 5-1 Service Menu

5.1 Oil Reset

This function performs a reset of the Engine Oil Life system, which calculates the optimal oil life change interval depending on the vehicle driving conditions and climate. The Oil Life Reminder must be reset each time the oil is changed, so the system can calculate when the next oil change is required.

NOTE

1. Always reset the engine oil life to 100% after every oil change.
2. All required work must be carried out before the service indicators are reset. Failure to do so may result in incorrect service values and cause DTCs to be stored by the relevant control module.
3. For some vehicles, the 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.

5.2 Electric Parking Brake (EPB)

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.

5.2.1 EPB Safety

It can be dangerous to perform EPB system maintenance, so before you begin the service work, please keep these rules in mind.

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

NOTE

Autel accepts no responsibility for any accident or injury arising from the maintenance of the EPB system.

5.3 Tire Pressure Monitoring System (TPMS)

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

5.4 Battery Management System (BMS)

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

NOTE

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

The vehicle may use either a sealed lead-acid battery or an Absorbed Glass Mat (AGM) battery. Lead acid battery contains liquid sulphuric acid and can spill when overturned.

AGM battery (known as VRLA battery, valve regulated lead acid) also contains sulphuric acid, but the acid is contained in glass mats between terminal plates.

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

5.5 Steering Angle Sensor (SAS)

Steering Angle Sensor (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

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

6. Battery Test

The OTOFIX BT1 Lite (hereinafter referred to as BT1 Lite) 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, which is vital to determining a battery's true health. The BT1 Lite enables technicians to view the health status of the vehicle's battery and electrical system.

NOTE

The BT506 battery tester needs to be purchased separately.

6.1 OTOFIX BT1 Lite Tester

6.1.1 Function Descriptions

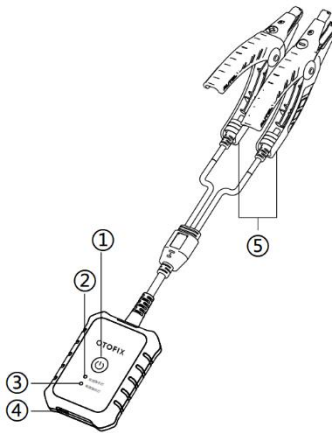


Figure 6-1 BT1 Lite Tester

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

Table 6-1 LED Description

LED	Color	Description
Status LED	Green	● Lights green when the tester is connected to the tablet via USB cable. ● Flashes green when the tester is communicating via USB cable.
	Blue	● Lights blue when the tester is connected to the tablet via bluetooth. ● Flashes blue when the tester is communicating via bluetooth.
	Red	● Lights red when the battery clamps are connected to the wrong battery terminals.
Power LED	Green	● Lights green when the tester is powered on and the battery is sufficiently charged. ● Flashes green when the tester is charging.
	Red	● Flashes red when the battery level is low. Please charge the device.

6.1.2 Power Sources

The BT1 Lite tester can receive power from the following sources:

- Internal battery pack
- AC/DC power supply

! IMPORTANT

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

6.1.2.1 Internal Battery Pack

The BT1 Lite tester can be powered with the internal rechargeable battery.

6.1.2.2 AC/DC Power Supply — Using Power Adapter

The BT1 Lite tester can be powered from an electrical outlet using the AC/DC power adapter. The AC/DC power supply also charges the internal battery.

6.1.3 Technical Specifications

Table 6-2 Technical specifications

Item	Description
Connectivity	● Type-C USB ● Bluetooth 4.2
Input Voltage	5 V DC
Working Current	< 150 mA at 12 V DC
Internal Battery	3.7 V/800 mAh lithium-ion polymer battery
CCA Range	100 to 2000 A
Voltage Range	1.5 to 16 V
Working Temperature	−10 to 50 °C (14 to 122 °F)
Storage Temperature	−20 to 60 °C (−4 to 140 °F)
Dimension (L x W x H)	109.2 mm (4.30") x 77.5 mm (3.05") x 24.8 mm (0.98") (clamp cable not included)
Weight	319.2 g

6.2 Test Preparation

6.2.1 Inspecting 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.)

6.2.2 Establishing Communication

➤ **To connect BT1 Lite with D1 Max2**

1. Turn on both the D1 Max2 and the BT1 Lite battery tester. Ensure that the units are sufficiently charged before you begin.
2. Tap the **VCI Manager** application on the OTOFIX Job Menu of the D1 Max2,

and tap **BAS BT**.

3. Tap **Scan** at the top-right corner.
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 will read "Connected."
6. Once paired, the Connection LED on the BT1 Lite lights up blue. This signifies that the tablet is connected to the BT1 Lite, and is ready to use.

6.2.3 Connecting to a Battery

➤ To connect to a battery

1. Press and hold the **Power** button to turn on the BT1 Lite tester.
2. Connect the red clamp to the positive (+) terminal of the battery. Connect the black clamp to the negative (-) terminal of the battery.

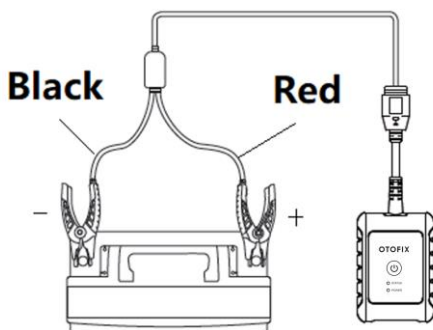


Figure 6-2 Battery Tester Connection

The black clamp is installed with an infrared sensor near the clamp mouth that tests the battery temperature. The battery temperature will appear on the Battery Test Result screen or in the Battery Test Report.

6.3 In-vehicle Test

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

❗ IMPORTANT

Before using the diagnostics functions, download the desired vehicle software on the **Update** screen.

 NOTE

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

6.3.1 Battery Test

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

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

1. Tap **Battery Test** on the OTOFIX Job Menu. The Battery Test screen displays.

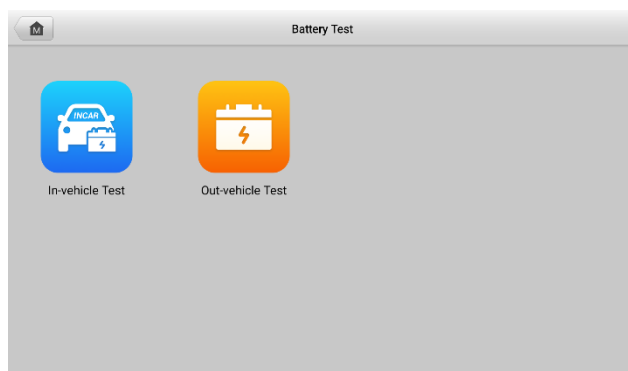


Figure 6-3 Battery Test Screen

2. Select **In-vehicle Test**.
3. (Optional) Establish communications between the VCI and vehicle by following the on-screen instructions on the OBD connect screen.

 **NOTE:** OBD Connect is recommended and used for automatically obtaining the battery type and location.

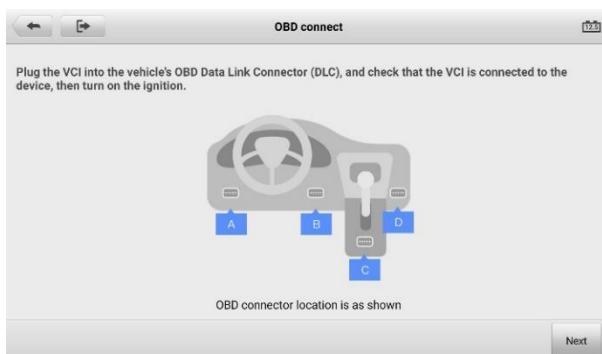


Figure 6-4 OBD Connect Screen

4. Confirm the vehicle information. The Vehicle information screen automatically displays when the vehicle communication is established. A Battery location button will pop up from the bottom of the screen.

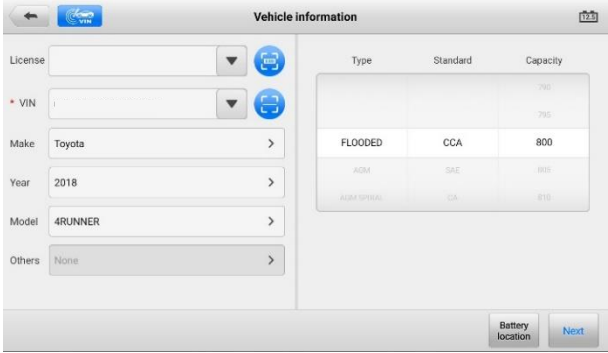


Figure 6-5 Battery Information Screen

NOTE
In the Settings application, the Battery Test option allows you to change the requirement for entering the VIN information. If the setting is enabled, supplying the VIN is no longer mandatory.

Table 6-3 Upper Toolbar Buttons

Button	Name	Description
	Back	Returns to the previous screen.
	VIN Scan	Opens a dropdown list; tap Auto detect for auto VIN detection; tap Manual input to enter VIN manually; tap Scan VIN/License Plate to scan the VIN code/license numbers by camera.
	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 tab. Perform required operations before the battery test based on the on-screen instructions. Tap the **Start Testing** button.

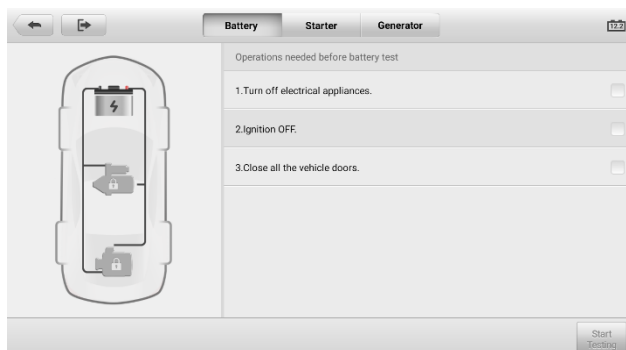


Figure 6-6 Battery Screen

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



Figure 6-7 Battery Test Results Screen

Table 6-4 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.

NOTE

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

6.3.2 Starter Test

➤ To perform the starter test

1. Tap **Continue**. Perform required operations before the battery test based on the on-screen instructions. Tap the **Start Testing** button.

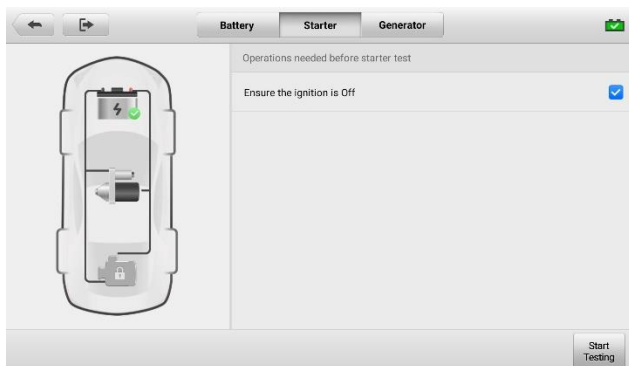


Figure 6-8 Starter Test Screen 1

2. Turn the vehicle ignition to **ON** when the following screen appears.

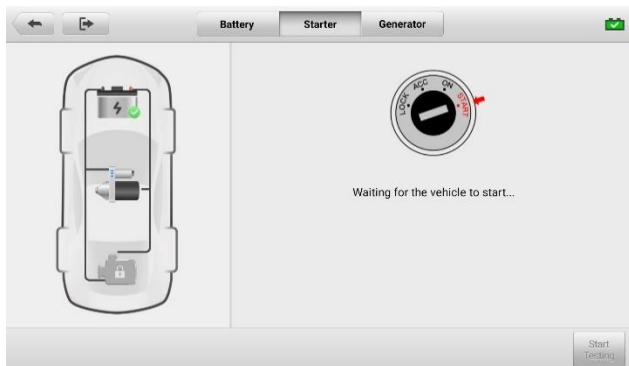


Figure 6-9 Starter Test Screen 2

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

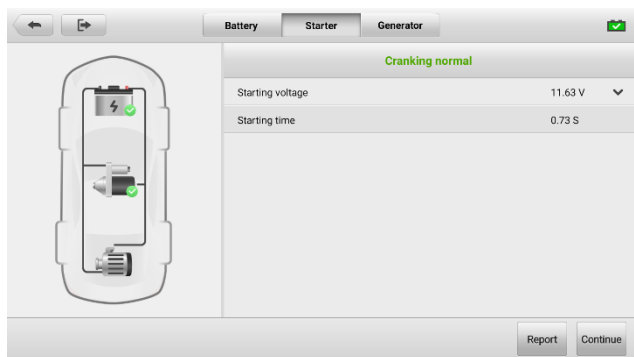


Figure 6-10 Starter Test Results Screen

Table 6-5 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.

6.3.3 Generator Test

➤ **To perform the generator test**

1. Tap **Continue**. Perform required operations based on the on-screen instructions.

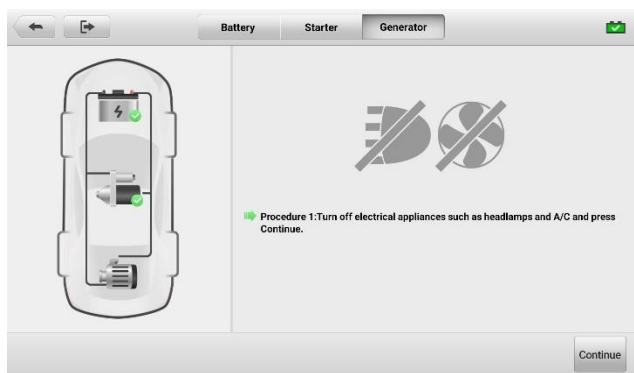


Figure 6-11 Generator Test Screen

2. Tap **Continue** and view the test results.

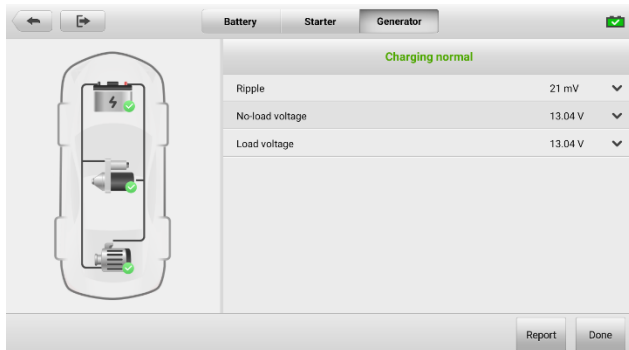


Figure 6-12 Generator Test Results Screen

Table 6-6 Generator Test Results

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

6.4 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

6.1.1 Battery Test

➤ **To start the out-vehicle test**

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

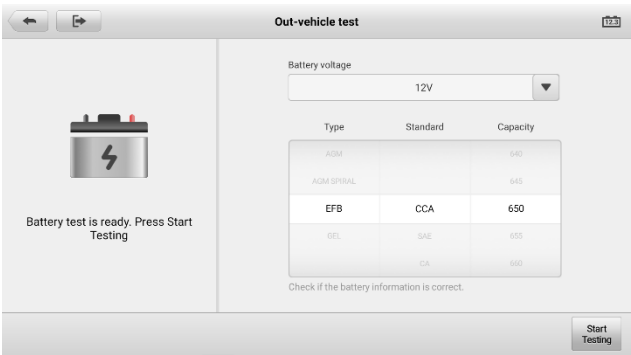


Figure 6-13 Out-vehicle Test Screen

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

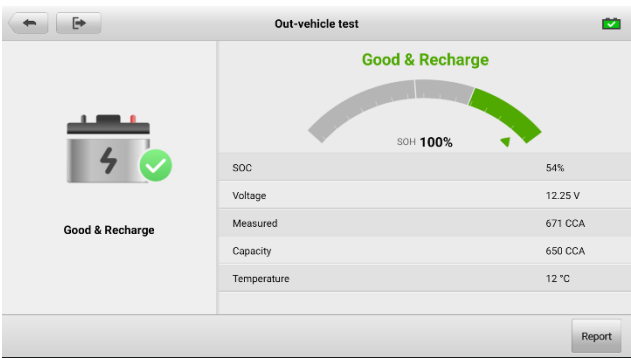


Figure 6-14 Out-vehicle Test Results Screen

Table 6-7 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	Battery requires charge to determine its condition.
Replace Battery	Battery fails to meet industry-accepted standards.
Bad Cell	Battery fails to meet industry-accepted standards.

7. Settings

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

- Unit
- Language
- Printing Settings
- Report Settings
- Push Notifications
- Auto Update
- Vehicle List
- System Settings
- About

This section describes the operation procedures for the settings.

7.1 Unit

This option allows you to change the units of measurement for the diagnostics system.

➤ To adjust the unit setting

1. Tap the **Settings** application on the OTOFIX Job Menu.
2. Tap the **Unit** option on the left column.
3. Select the appropriate units of measurement. A check mark will display to the right of the selected unit.
4. Tap the **Home** button on the top-left corner to return to the OTOFIX Job Menu, or select another settings option for further system setup.

7.2 Language

This option allows you to adjust the display language of the OTOFIX system.

➤ To adjust the language setting

1. Tap the **Settings** application on the OTOFIX Job Menu.
2. Tap the **Language** option on the left column.
3. Select the appropriate language. A check mark will display to the right of the

selected language.

4. Tap the **Home** button on the top left corner to return to the OTOFIX Job Menu, or select another setting option for further system setup.

7.3 Printing Settings

This option allows you to print from the tablet to a network printer via network.

➤ To setup a printer connection

1. Tap **Settings** on the OTOFIX Job Menu.
2. Tap **Printing Settings** on the left column.
3. Tap **Print via network** to activate the printing function, which enables the device to send files to the printer through the PC via Wi-Fi or Ethernet connection.
4. Tap **Home** on the top-left corner to return to the OTOFIX Job Menu, or select another setting option for further system setup.

7.3.1 Printing Operations

➤ To install the MaxiSys Printer driver

1. Download **Maxi PC Suite** from www.otofixtech.com > *Support Center* > *Downloads* > *Diagnostic Tool tab* > *OTOFIX Update Tools*, and install to your Windows-based PC.
2. Double-click on **Setup.exe**.
3. Select an installation language to launch the installation wizard.
4. Follow the instructions on the screen and click on **Next** to continue.
5. Click **Install** and the printer driver will be installed on to the computer.
6. Click **Finish** to complete the installation.

NOTE

The MaxiSys Printer runs automatically after the installation.

This section describes how to receive file from the OTOFIX tablet and print the file using the PC.

NOTE

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

➤ To print a file using the PC

1. Run the **PC Link** program on the computer. Select the **MaxiSys Printer** tab.
2. Click **Test Print** to check whether the printer works properly.
3. Tap the **Print** button on the toolbar of the tablet. A test document will be sent to the computer.
 - 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 in the MaxiSys Printer is not selected, click the **Open PDF File** button to view files. Select the file(s) to be printed and click **Print**.

7.4 Report Settings

The options, such as Scan Report, Report Upload to Cloud, and OBD Ready Status, are available in the Report Settings function. Toggle the **ON/OFF** button to enable/disable the required function. If the button displays blue, it indicates the selected function is enabled. If the button displays gray, it indicates the selected function is disabled.

➤ To enable the Report Upload to Cloud function

1. Tap the **Settings** application on the OTOFIX Job Menu.
2. Tap the **Report Settings** option on the left column.
3. Locate the Report upload to Cloud function, and then toggle the button to **ON**. Select **Manual** or **Automatic** based on the actual situation.
4. Tap the **Home** button on the top-left corner to return to the OTOFIX Job Menu, or select another settings option for system setup.

The OBD Ready Status is disabled by default. The OBD ready status will be automatically read in the Auto Scan function once the OBD Ready Status button is enabled.

NOTE

This function is only available in some areas such as North America.

7.5 Push Notification

This option allows you to manage notifications. The Notification Preference is turned on by default and cannot be turned off by users so that certain system notifications such as

system security warnings won't be blocked. Internet access is required for receiving on-line messages.

➤ **To manage other notifications**

1. Tap **Settings** on the OTOFIX Job Menu.
2. Tap **Push Notifications** on the left column.
3. Tap the ▼ button on the right to open a drop-down list.
4. There are four options: Enable all notifications, Limit to 3 notifications or less per week, Limit to 1 notification per week, and Disable all notifications. Select whichever you want.
5. Tap **Home** on the top-left corner to return to the OTOFIX Job Menu. Or select another settings option for the system setup.

 NOTE

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

7.6 Auto Update

This option allows you to set the specific time for updating software automatically.

Tap **ON/OFF** to enable Auto Update. The button displays blue if Auto Update is enabled and displays gray if the Auto Update is disabled. Set the time of the day for updating. If a specific time is set, the software will be automatically updated at that specific time.

7.7 Vehicle List

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

➤ **To adjust the vehicle list setting**

1. Tap the **Settings** application on the OTOFIX Job Menu.
2. Tap **Vehicle List** on the left column.
3. Select the required sort order. A check mark will display to the right of the selected item.
4. Tap the **Home** button in the top-left corner to return to the OTOFIX Job Menu, or select another settings option for further system setup.

7.8 System Settings

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

7.9 About

The About function provides information about the OTOFIX diagnostics device including the product name, version, hardware, and serial number.

➤ **To check the product information in About**

1. Tap the **Settings** application on the OTOFIX Job Menu.
2. Tap the **About** option on the left column. The product information screen displays on the right.
3. Tap the **Home** button in the top-left corner to return to the OTOFIX Job Menu, or select another settings option for further system setup.

8. Software Update

The Update application allows you to download the latest released software. The updates can improve the OTOFIX applications' capabilities, typically by adding new tests, new models, or enhanced applications to the database.

NOTE

Ensure the tablet is registered before utilizing the Update application. See [Autel User Center](#) for a comprehensive registration guide.

➤ To update the diagnostic software

1. Make sure the tablet is connected to a power source with stable access to the Internet.
2. Tap the **Update** application from the OTOFIX Job Menu.
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 for 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.

9. Data Manager

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

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

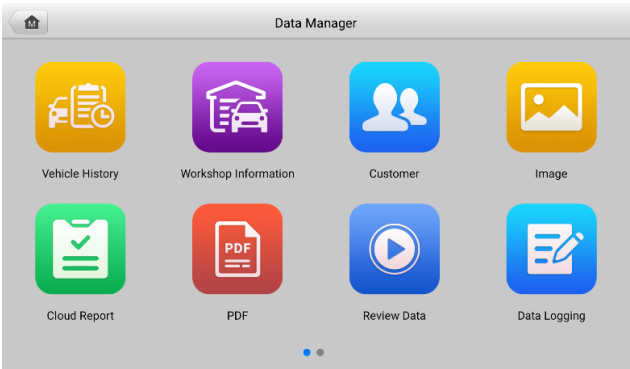


Figure 9-1 Data Manager Main Screen

The table below briefly describes each of the function buttons in the Data Manager.

Table 9-1 Buttons in Data Manager

Button	Name	Description
	Vehicle History	Review the diagnostics history record.
	Workshop Information	Edit the information of workshops.
	Customer	Create new customer information.
	Image	Review the screenshots.
	Cloud Report	Review the saved reports and share the cloud reports.
	PDF	Review the reports stored as PDF files.
	Review Data	Review the recorded data.

Button	Name	Description
	Data Logging	Review the communication data and ECU information of the vehicle. The saved data can be reported and sent to the technical center via the Internet.
	Uninstall Apps	Uninstall applications.

9.1 Vehicle History

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

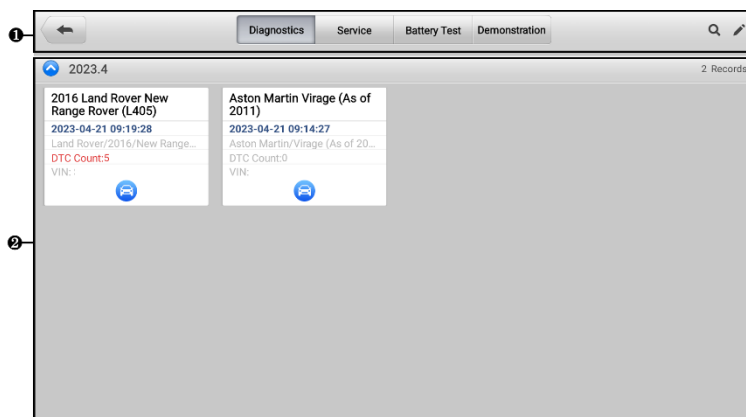


Figure 9-2 Vehicle History Screen

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

➤ **To activate a test session for a recorded vehicle**

1. Tap **Data Manager** on the OTOFIX Job Menu.
2. Select **Vehicle History** to open the screen. Tap **Diagnostics** or **Service** to select diagnostic test records or service test records.
3. Tap **Diagnostics** icon at the bottom of the thumbnail of a vehicle record item.
4. The Diagnostics screen of the vehicle displays and a new diagnostic session is activated. See [Diagnostics](#) for detailed instructions on vehicle diagnostic

operations.

Or,

5. Select a vehicle thumbnail to select a record. A Historical Test record sheet displays. Review the recorded information of the test vehicle, and tap the **Diagnostics** button on the upper right corner to continue diagnostics.

9.1.1.1 Historical Test Records

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

NOTE

The tablet must establish a connection to the VCI device to restart test sessions on the previously tested vehicles.

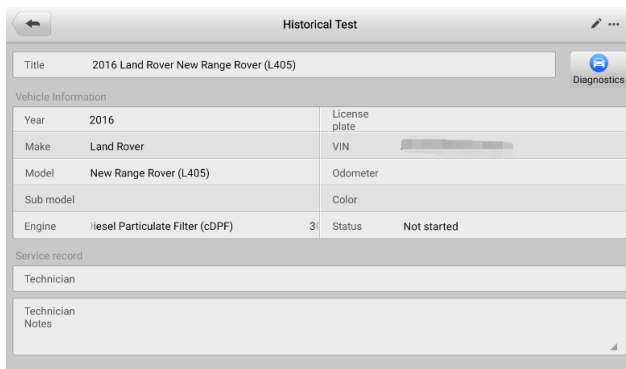


Figure 9-3 Historical Test Record Sheet

➤ To edit the Historical Test Record

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

NOTE

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

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

9.2 Workshop Information

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

Figure 9-4 Workshop Information Sheet

➤ To edit the Workshop Information sheet

1. Tap the **Data Manager** application on the OTOFIX Job Menu.
2. Select **Workshop Information**.
3. Enter required information.
4. Tap **Back** to save the updated workshop information record.

9.3 Customer

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

➤ To create a customer account

1. Tap the **Data Manager** application on the OTOFIX Job Menu.
2. Select **Customer**.
3. Tap the **Add a customer** button. An empty information form displays, tap each

field to input the appropriate information.

 NOTE

Fields marked with an asterisk (*) are mandatory.

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

➤ **To edit a customer account**

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

➤ **To delete a customer account**

1. Tap **Data Manager** on the OTOFIX Job Menu.
2. Select **Customer**.
3. Tap the **Delete** icon on the right of a customer account. A message displays.
4. Tap **OK** to confirm the command, and the account is deleted. Tap **Cancel** to cancel the request.

9.4 Image

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

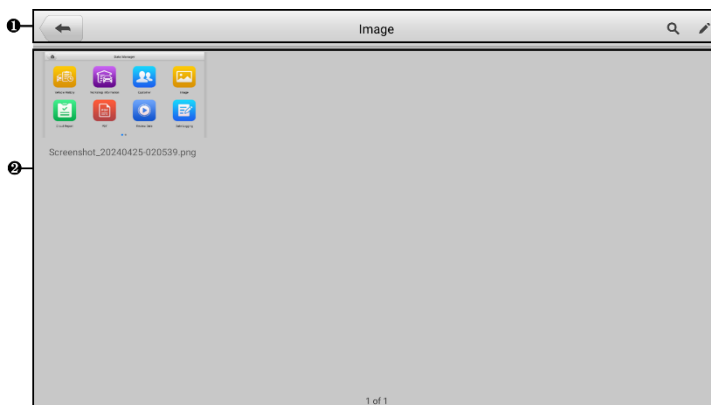


Figure 9-5 Image Database Screen

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

Table 9-2 Toolbar Buttons in PNG Database

Button	Name	Description
	Back	Returns to the previous screen.
	Search	Displays the Search column, allows you to quickly searches the image by entering the time of the screenshot
	Edit	Displays the editing toolbar to select, delete, print, or email the image(s).
	Cancel	Closes the editing toolbar or cancels file search.
	Print	Prints the selected image.
	Delete	Deletes the selected image.
	Email	Sends the selected image to an email.

➤ **To edit/delete image(s)**

1. Select **Data Manager** from the OTOFIX Job Menu.
2. Select **Image** to access the PNG database.
3. Tap **Edit** on the top right corner of the window. The editing screen displays.
4. Select the image(s) you want to edit by tapping the check box at the bottom right corner of the image.
5. Tap the **Delete** icon to delete the selected images or delete all images. Tap the

Print icon to print the selected image(s). Tap the **Email** icon to send the selected image(s) to an email.

9.5 Cloud Report

This section displays the saved reports, which can be transferred to the Autel cloud platform once a stable network connection is established. These reports can then be viewed or shared with others.

9.6 PDF Files

The PDF section stores and displays the PDF files for local viewing. After entering the PDF database, select a file to view.

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

9.7 Review Data

The Review Data section allows you to play back the recorded data frames of live data streams. On the Review Data main screen, you can select a record file to play back. Use the Navigation Toolbar buttons to play back the record data from frame to frame.

9.8 Data Logging

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

9.9 Uninstall Apps

This section allows you to manage the software applications installed on the OTOFIX Diagnostics System. Selecting this section opens a management screen, on which you can check all the available vehicle diagnostics applications.

Select the vehicle software you want to delete by tapping on the vehicle brand icon, after which the selected item will display a blue check mark at the upper-right corner. Tap the **Delete** button on the top bar to delete the software from the system database.

10. VCI Manager

This application allows you to pair up the tablet with the VCI device, check the communication status, and update the VCI and BAS firmware.

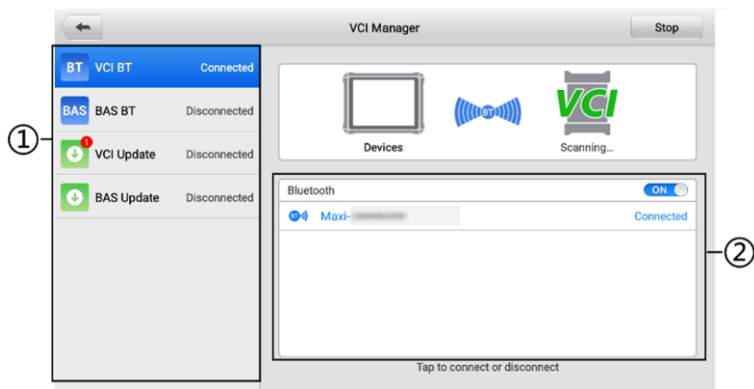


Figure 10-1 VCI Manager Screen

1. **Connection Mode** — four connection modes are available. The connection status appears adjacent to each mode.
 - **VCI BT** — when paired to a VCI via Bluetooth, the connection state displays as Connected; otherwise it displays as Disconnected.
- **To pair the VCI device with the tablet via Bluetooth**
 1. Power on the tablet.
 2. Connect the OTOFIX Diagnostics Platform to the vehicle through the V1. See [Establish Vehicle Communication](#).
 3. Tap **VCI Manager** on the OTOFIX Job Menu of the tablet.
 4. Select **VCI BT** from the connection mode list.
 5. Toggle Bluetooth **ON**. The device will start to search for available pairing units for pairing.
 6. Depending on the type of VCI you use, the device name may display as "Maxi" suffixed with a serial number. Select the appropriate device for pairing.
 7. When paired successfully, the connection status reads "Connected."
 8. Wait a few seconds, and the VCI button on the system Navigation bar at the bottom of the screen will display a green badge, indicating the tablet is connected to the VCI.

9. To disconnect the device, tap the connected device listing again.

 NOTE

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

- **BAS BT** — when paired to a battery tester via Bluetooth, the connection state displays as Connected; otherwise it displays as Disconnected. Detailed information, see [Establishing Communication](#).

- **VCI Update** — updates the VCI device.

➤ **To update the VCI device**

1. Power on the tablet.
2. Connect the V1 to the tablet via Bluetooth or USB cable.
3. Tap **VCI Manager** on the OTOFIX Job Menu of the tablet.
4. Select **VCI Update** from the connection mode list.
5. The current version and the latest version of the device will appear. Tap **Update Now** to update the VCI.

- **BAS Update** — updates BAS firmware via the Internet through the OTOFIX tablet networking using the USB connection.

➤ **To update the BT1 Lite**

1. Power on the BT1 Lite and the tablet.
2. Connect the BT1 Lite to the tablet via Bluetooth or USB cable.
3. Tap **VCI Manager** on the OTOFIX Job Menu of the tablet.
4. Select **BAS Update** from the connection mode list.
5. The current version and the latest version of the BT1 Lite will appear. Tap **Update Now** to update the BT1 Lite.

2. **Bluetooth Settings** — displays the type and a partial serial number for all of the devices available for pairing. Tap the desired device to start pairing. The Bluetooth status icon displayed to the left of the device name indicates the received signal strength.

11. 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 technicians by allowing them to control your OTOFIX tablet on their PC via the TeamViewer software.

11.1 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. PCs 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 later on.

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

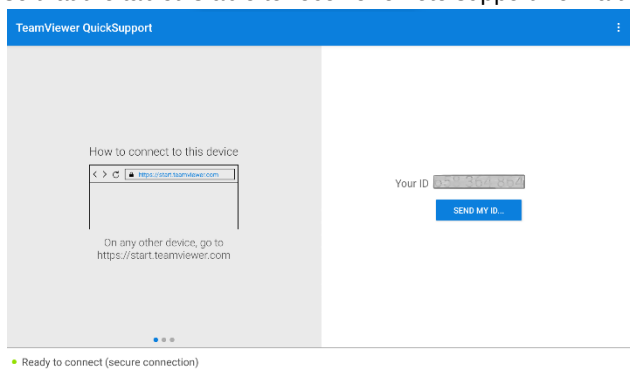


Figure 11-1 Remote Desktop Screen

➤ **To receive remote support from a technician**

1. Power on the tablet.
2. Tap the **Remote Desktop** application on the OTOFIX Job Menu. The TeamViewer interface appears and the device ID is generated and displayed.
3. Your partner must install the Remote Control software to their computer by downloading the TeamViewer program (full version) online (<http://www.teamviewer.com>). Start the software on their computer at the same time in order to provide support and take control of the tablet remotely.
4. Provide your ID to the partner, and wait for them to send you a remote control

request.

5. A message displays to ask for your confirmation to allow remote control on your device.
6. Tap **Allow** to accept, or tap **Deny** to reject.

Refer to the associated TeamViewer documents for additional information.

12. User Feedback

The User Feedback application allows you to submit questions related to this product.

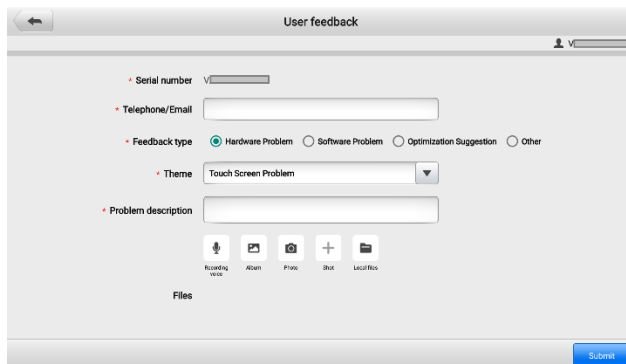
The screenshot shows a mobile application window titled "User feedback". At the top right, there is a user icon and a "V" status indicator. The form contains several fields: "Serial number" with a text input and a "V" icon; "Telephone/Email" with a text input; "Feedback type" with four radio buttons: "Hardware Problem" (selected), "Software Problem", "Optimization Suggestion", and "Other"; "Theme" with a dropdown menu showing "Touch Screen Problem"; and "Problem description" with a text input. Below these fields is a "Files" section with five icons: "Recording voice", "Album", "Photo", "Shot", and "Local files". A blue "Submit" button is located at the bottom right of the form.

Figure 12-1 User Feedback Screen

➤ **To send new user feedback**

1. Tap **User Feedback** on the OTOFIX Job Menu. The device information is automatically synchronized.
2. Set **Telephone/Email**, **Feedback type**, **Theme**, and **Problem description**. You can also attach voice recordings, photos, screenshots, images or PDF files. To resolve your issue more efficiently, we recommend you to complete the information as many details as possible.
3. Tap **Submit** to send the completed information to Autel's online service center. The submitted feedback will be carefully read and handled by our service personnel.

13. Quick Links

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

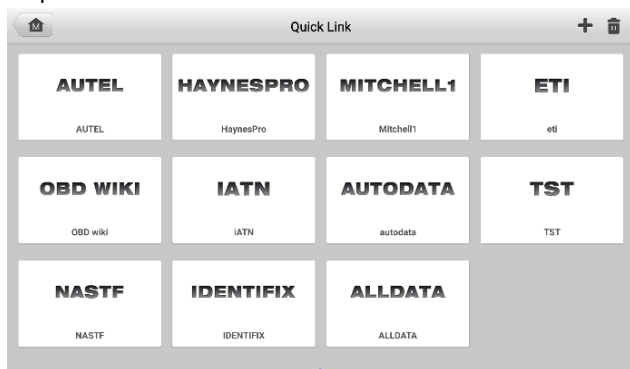


Figure 13-1 Quick Link Screen

➤ **To open a quick link**

1. Tap **Quick Link** on the OTOFIX Job Menu. The Quick Link screen appears.
2. Select a website thumbnail from the main section. The browser is launched and the selected website is opened. Now you can start exploring the website.

➤ **To manage the quick links**

1. Tap **Quick Link** on the OTOFIX Job Menu. The Quick Link application screen displays.
2. Tap the  icon on the upper-right corner to add websites. Tap the  icon to delete websites.

14. Support

This application launches the Support platform which synchronizes Autel's online support service with the OTOFIX tablet. Connected to Autel's service channel and online communities, the Support application provides the quickest way for problem solutions, allowing you to send help requests to obtain direct service and support.

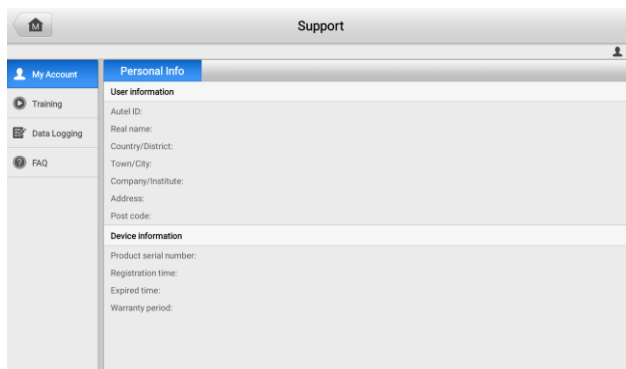


Figure 14-1 Support Screen

14.1 My Account

The My Account screen displays the comprehensive information of the user and the device, which is synchronized with the online registered account.

14.1.1 Personal Info

The User Information and Device Information columns are both included on the Personal Info tab.

- User Information — displays detailed information of your registered on-line Autel account, such as your Autel ID, Real name, Country/District, Town/City, Company/Institute, Address, and Post code.
- Device Information — displays the registered product information, including the Product serial number, Registration time, Expired time, and Warranty period.

14.2 Training

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

14.3 Data Logging

The Data Logging section keeps records of all **Feedback** (submitted), **No feedback** (not submitted but saved) or **History** (up to the latest 20 test records) data loggings on the diagnostic system. The support personnel will receive and process the submitted reports through the Support platform. The solution will be sent back as soon as possible. You may continue to correspond with the Support platform until the issue is resolved.

➤ **To make a reply in a Data Logging session**

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

14.4 FAQ

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

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

15. MaxiViewer

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

➤ To search by the vehicle

1. Tap the **MaxiViewer** application on the OTOFIX Job Menu. The Function Viewer screen appears.
2. Select a product from the dropdown list in the upper-left corner.
3. Select the vehicle brand, model, and year.

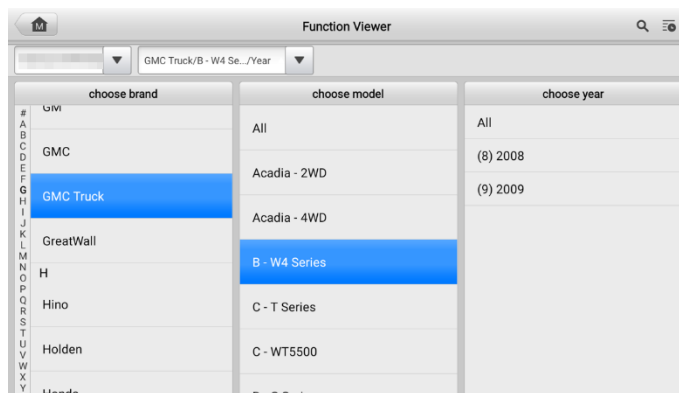


Figure 15-1 Function Viewer Screen 1

4. All the functions supported by the selected tool for the selected vehicle are displayed within vehicle's system, type, function, sub function, and version.

Function Viewer				
GMC Truck/B - W4 Se.../(8) 2008		System	Type	
System	Type	Function	Sub function	Version
Electronic brake control module	Medium duty truck	Active test	/	Above GM_V3.00
Electronic brake control module	Medium duty truck	Live data	/	Above GM_V3.00
Electronic brake control module	Medium duty truck	Trouble codes	/	Above GM_V3.00
Electronic brake control module	Medium duty truck	Special function	ABS relay	Above GM_V3.00
Electronic brake control module	Medium duty truck	Special function	Exhaust brake cut	Above GM_V3.00
Engine control module	Medium duty truck	Active test	/	Above GM_V3.00
Engine control module	Medium duty truck	Live data	/	Above GM_V3.00

Figure 15-2 Function Viewer Screen 2

➤ **To search by the functions**

1. Tap the **MaxiViewer** application on the OTOFIX Job Menu. The Function Viewer application screen displays.
2. Select a product from the Product type dropdown list.
3. Enter the function you want to search in the top-right search box. The screen will display all vehicles that support this function, along with information such as the vehicles' year, system, capacity, type, function, sub-function, and version.

Cancel

functions

ECU Information

Brand/Model/Year

Brand	Model	Year	System	Sub system	Function	Sub function	Version
TATA	ACE(DOME STIC-CO...	/	EMS(BSIV CNG - A33)	/	ECU information	/	Above TAT A_V2.00
TATA	ACE(DOME STIC-CO...	/	EMS(BSIV CNG - A38)	/	ECU information	/	Above TAT A_V2.00
TATA	ACE(DOME STIC-DIES...	/	EMS(Engine management system)	/	ECU information	/	Above TAT A_V2.00
TATA	ACE(DOME STIC-DIES...	/	EMS(Engine management system)	/	ECU information	/	Above TAT A_V2.00
TATA	ACE(DOME STIC-DIES...	/	EMS(Engine management system)	/	ECU information	/	Above TAT A_V2.00
TATA	ACE(DOME STIC-DIES...	/	EMS(Engine management system)	/	ECU information	/	Above TAT A_V2.00
TATA	ACE(DOME STIC-DIES...	/	EMS(Engine management system)	/	ECU information	/	Above TAT A_V2.00
TATA	ACE(DOME STIC-DIES...	/	EMS(Engine management system)	/	ECU information	/	Above TAT A_V2.00

Figure 15-3 Function Viewer Screen 3

16. MaxiVideo

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

NOTE

1. The MaxiVideo Digital Inspection Camera and its fittings are additional accessories, and need to be purchased separately. Both sizes (8.5 mm and 5.5 mm) of the imager head are optional and available for purchase.
 2. This function is compatible with the MaxiVideo Digital Inspection Camera in models MV105S, MV108S, MV105, and MV108.
 3. Connect the tablet with MaxiVideo Digital Inspection Camera using the USB cable. For detailed operation instructions, please refer to the Quick Reference Guide for the MaxiVideo Digital Inspection Camera.
-

17. Autel User Center

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

There are two ways for product registration:

A. Create your account and link the D1 Max2 using the tablet

➤ **To log in with your account and register the OTOFIX tablet**

1. Tap **Autel User Center** from the OTOFIX Job Menu. The Log In screen displays.



Figure 17-1 Autel User Center Screen

2. If you have an Autel ID, you can log in with your account ID and password.
3. If you are a new member to Autel, click on **Register** to create an Autel ID.
4. Enter your personal information. Fields marked with an asterisk (*) are mandatory.
5. Read the **Autel User Service Agreement** and **Autel Privacy Policy**, then check the box to accept the terms.
6. After all the mandatory information is entered, click on **Create Autel ID**.
7. Once your account is successfully registered, your account will be logged in automatically.
8. Select **Device Management** to link your device. Tap **Link Device** on the upper-right corner of the screen.

9. The serial number and password of the device will be shown on the screen. Tap **Link** to complete the product registration.

B. Register the D1 Max2 on the official website

➤ **To register the diagnostics device**

1. Visit OTOFIX website: <http://pro.otofixtech.com>.
2. If you have an Autel account, log in and skip to Step 7.
3. If you are a new member to Autel, click on the **Create Autel ID** button on the left side to create an ID.
4. Fields marked with an asterisk (*) are mandatory. Enter the required information in the input fields, and click **Get Verification Code** button to get the verification code for email validation.
5. The online system will automatically send a verification code to the registered email address. Input the code in the Verification Code field and fill in other fields, read through Autel's Terms and Conditions and click on **Agree**, and then tap **Create Autel ID** at the bottom.
6. Once your account is successfully registered, you will be redirected to the Product Registration screen. If not, click the button on the screen.
7. The product serial number and password are required. To find your serial number and password on the tablet: go to **Settings > About**.
8. Enter the tablet's serial number and password. Enter the CAPTCHA code and click on **Submit** to complete your product registration.

18. Maintenance and Service

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

18.1 Maintenance Instructions

The following includes instructions on how to maintain your devices, together with precautions to take.

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

18.2 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 if it is not in use.
- C. When you cannot turn on the tablet:
- Make sure the tablet is connected to a power source or the battery is charged.
- D. When you are unable to charge the tablet:
- Your charger maybe out of order. Contact your nearest dealer.
 - You may be attempting to use the device in an overly hot/cold temperature. Charge the device in a cooler or warmer area.
 - Your device may have not been connected to the charger properly. Check the connector.

NOTE

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

18.3 About Battery Usage

Your tablet is powered by a built-in lithium-ion polymer battery, which enables you to recharge your battery when there is electricity left.

DANGER

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

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

- Do not modify, remanufacture or attempt to insert foreign objects into the battery, or expose the battery to fire, explosion, or other hazards.
- Only use the specified charger and USB cables. Use of non-Autel-authorized charger or USB cables may lead to device malfunction or failure.
- 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 you suspect damage, take the tablet to a service center for inspection.
- Try to keep closer to your wireless router to reduce battery usage.
- The time needed to recharge the battery varies depending on the remaining battery capacity.
- Battery life inevitably shortens over time.
- Unplug the charger once the tablet is fully charged since overcharging may shorten battery life.
- Keep the battery in temperate environments. Do not place it inside a car when it is too hot or too cold, which may reduce the capacity and life of the battery.

18.4 Service Procedures

This section provides information on repair service and application for replacement or optional parts.

18.4.1 Repair Service

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

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

 NOTE

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

Send the device to your local agent, or to the address below:

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

18.4.2 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

19. Compliance Information

19.1 FCC Compliance

FCC ID: WQ8-DV2531

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

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

WARNING

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

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.

19.2 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.

19.3 CE Compliance

RED Directive 2014/53/EU

19.4 RoHS Compliance

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

19.5 IC Warning Statement

IC: 10826A-DV2531

-English:

This device complies with Industry Canada's licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference, and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

-French:

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

19.6 SAR Statement

This equipment complies with FCC/ISED radiation exposure limits set forth for an uncontrolled environment. End user must follow the specific operating instructions for satisfying RF exposure compliance. The device is designed to meet the requirements for exposure to radio waves established by the Federal Communications Commission (USA) / Innovation, Science and Economic Development Canada (ISED). These requirements set a SAR limit of 1.6 W/kg averaged over one gram of tissue. The highest SAR value reported under this standard during product certification for use when properly worn on the body is 0.829 W/kg.

Cet équipement a été évalué et s'est avéré conforme aux exigences d'exposition aux RF (radiofréquences) du Code de sécurité 6 de Santé Canada pour les conditions d'exposition non contrôlée, qui est de 1.60 W/kg en moyenne sur 1g de tissu corporel. Le DAS (débit d'absorption spécifique) le plus élevé rapporté pour cet appareil est de 0.829 W/kg.

20. Warranty

20.1 12-Month Limited Warranty

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

NOTE

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

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

This warranty does not apply to:

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

IMPORTANT

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

OTOFIX