⚠ WARNING ⚠

1. Always perform automotive testing in a safe environment.
2. Do not connect or disconnect any test equipment while the ignition is on or the engine is running.
3. DO NOT attempt to operate the tool while driving the vehicle. Have second personal operate the tool. Any distraction may cause an accident.
4. Before starting the engine, put the gear lever in the Neutral position (for manual transmission) or in the Park (for automatic transmission) position to avoid injury.
5. NEVER smoke or allow a spark or flame in vicinity of battery or engine. Do not operate the tool in explosive atmospheres, such as in the presence of flammable liquids, gases, or heavy dust.
6. Keep a fire extinguisher suitable for gasoline/chemical/electrical fires nearby.
7. Wear an ANSI-approved eye shield when testing or repairing vehicles.
8. Put blocks in front of the drive wheels and never leave the vehicle unattended while testing.
9. Use extreme caution when working around the ignition coil, distributor cap, ignition wires and spark plugs. These components create hazardous voltage when the engine is running.
10. To avoid damaging the tool or generating false data, please make sure the vehicle battery is fully charged and the connection to the vehicle DLC (Data Link Connector) is clear and secure.
11. Automotive batteries contain sulfuric acid that is harmful to skin. In operation, direct contact with the automotive batteries should be avoided. Keep the ignition sources away from the battery at all times.
12. Keep the tool dry, clean, free from oil, water or grease. Use a mild detergent on a clean cloth to clear the outside of the equipment when necessary.
13. Keep clothing, hair, hands, tools, test equipment, etc. away from all moving or hot engine parts.
14. Store the tool and accessories in a locked area out of the reach of children.
15. Do not use the tool while standing in water.
16. Do not expose the tool or power adapter to rain or wet conditions. Water entering the tool or power adapter increases the risk of electric shock.
17. 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 various poisonous compounds (hydrocarbon, carbon monoxide, nitrogen oxides, etc.) that cause slower reaction time and result in death or serious personal injury.

INTENDED USE OF THE TOOL

Compatible with Passenger cars, the MDMAXLITE2 / MDMAXLITE2M diagnostic tool is exclusively intended for professional technicians.

Do not use this tool outside of the designed intent. Never modify the tool for any other purpose or use.

PRODUCT INFORMATION

Made in China
to Matco specifications

FCC Warning

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

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.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End user must follow the specific operating instructions for satisfying RF exposure compliance.

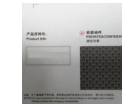
The device is designed to meet the requirements for exposure to radio waves established by the Federal Communications Commission (USA). These requirements set a SAR limit of 1.6 W/kg averaged over one gram of tissue. The highest SAR value reported under this standard during product certification for use when properly worn on the body is 0.472 W/kg.

Content

1 Introduction

1.1 Accessory Checklist

The following accessory items are only for reference. For detailed items, please consult the seller or check the package list supplied with this tool together.

No.	Name	Qt.	Picture
1	MaxLite 2.0 tablet	1	
2	Diagnostic cable	1	 (To connect to vehicle's DLC.)
3	Power adapter & charging cable	1	 (To supply power to the tablet through connection to AC outlet)
4	Password envelope	1	 (A piece of paper bearing Product S/N and Activation Code, which is required for your registration.)

1.2 Technical Specifications

Item	Description
Operating system	Android
CPU	4-core processor, 2GHz
Display	5 inch capacitive touch screen with 1280 x 720 resolution
RAM	4GB
ROM	64GB
Connectivity	WLAN (802.11 b/g/n)
Charging via	• Power adapter • Vehicle's DLC
Touch input & physical buttons	Supported
Working temperature	14°F ~ 122°F
Storage Temperature	-4°F ~ 158°F

2 Components & Controls

The following tablet formulates ports and indicators of MaxLite 2.0 tablet:

No.	Name & Descriptions
1	DB-15 diagnostic connector – To connect to vehicle's DLC (Data Link Connector) via diagnostic cable.
2	Power/Screen Lock Button – To turn the tablet on/off with long press, or lock the screen with short press.
3	OK – Confirms a selection (or action) from a menu list.
4	▲/▼ – Move cursor up and down for selection.
	◀/▶ – Move cursor left or right for selection; Or turn page up and down when more than one page is displayed.
5	BACK – Exit the current program or return to the previous screen.
6	HOME – Press to the home(Job menu) screen.
7	Audio Speaker
8	5" Capacitive Touch Screen
9	Charging LED -- Red means charging and Green means fully charged.

10	Charging/Data Port -- Connects the power adapter to the AC outlet to charge the tablet / Connects to a PC to exchange data.

3 Initial Use

3.1 Charging MaxLite 2.0

Notes:

- Only use the included power adapter to recharge the tablet. Use of any other adapter will damage the tool. We assume no responsibility for damage or loss resulting from using other similar adapters other than the specified one.
- Always charge on a non-flammable surface in a well-ventilated area.

To check the battery power level, press and hold the Power button about 3 seconds to turn on the tablet. Power level is indicated as a percentage in the upper right corner of the screen.

Charging with the Included 5V Power Adapter

1. Insert one end of the included charging cable into the power adapter.
2. Connect the other end to the charging port of the tablet. Plug the power adapter into the AC outlet.
3. After the battery is fully charged and the charging complete symbol replaces the charging symbol. Disconnect the power adapter from the AC outlet.

Charging via vehicle DLC port

1. Plug one end of the diagnostic cable into the DB-15 diagnostic connector of the tablet.
2. Connect the other end to the vehicle's DLC (Data Link Connector) port.
3. After the battery is fully charged and the charging complete symbol replaces the charging symbol.

3.2 Power ON/OFF

Note: If it is the first time you use the tablet or the tablet keeps idle for a long time, it could fail to be turned on. It results from low battery. In this case, please recharge it for a while and try to turn it on.

1. Press and hold the POWER button for about 3 seconds to turn on the tablet. The system starts initializing and then enters the home screen.
2. To turn the tablet off, press and hold the POWER button until an option menu appears. Tap on "Power off".

3.3 Locator & Navigation Buttons

On-screen keys and status bar are as follows:

1	Tap on ▢ to display a list of applications that are currently running or recently used. To open an application, tap on it. To remove an application, swipe it upwards.
2	Tap on ◯ to navigate to the Android System's home screen. Alternatively user can perform the same function by pressing the ⌂ button on the tool.
3	Tap on ▣ to capture the current screen and all captured screenshots are stored in the Screenshots folder.
4	Tap on ◁ to return to the previous screen or exit the application. Alternatively user can perform the same function by pressing the ⮌ button on the tool.

3.4 Desktop

Adjusting Screen Brightness

The tablet is equipped with a built-in light intensity sensor. It can adjust the screen brightness according to the ambient light intensity automatically. Alternatively, you can also adjust it manually.

1. On the home screen, tap on "Settings" ->"Display -> "Brightness level".
2. Drag the slider to adjust it.

   Tips: Reducing the brightness of the screen is helpful to save the power of the tablet.

Setting Standby Time

If no activities are made within the defined standby period, the screen will be locked automatically and the system enters sleep mode to save power. To set the standby time interval:

1. On the home screen, tap on "Settings" -> "Display" -> "Screen timeout".
2. Choose the desired sleep time.

3.5 Changing Language

MaxLite 2.0 supports multiple languages. Follow the steps below to proceed the language settings.

1. On the home screen, tap on "Settings" -> "System" -> "Language & Input" -> "Languages."
2. Tap on "Add a language" and choose the desired language from the list.
3. Tap and hold the desired language, drag it to the top of the screen and release. The system will change to the chosen language.

3.6 Wi-Fi Setup

After connecting online, you can register your tool, update the diagnostic software and APK, and browse the Internet, among other functions. Follow the steps below to proceed:

Note: Once WLAN is set as ON, the tablet will consume more power. While it keeps unused, please set it off to save power. While WLAN is not in use, please turn it off to conserve battery power.

Connect to a Wi-Fi Network

1. On the home screen, tap on "Settings" -> "Network & internet" -> "Wi-Fi."
2. Move the Wi-Fi switch to ON, the tablet starts searching for available wireless LANs.
3. Select the desired Wi-Fi network from the list. If the chosen network is open, you can connect directly. A password may be required for secured networks.

Disconnect from a Wi-Fi Network

1. On the home screen, tap on "Settings" -> "Network & internet" -> "Wi-Fi."
2. Tap on the network with a "Connected" status, then tap on "Forget".

4 Getting Started

4.1 User Registration

Users need to go through an sign-up process before using this tool.

Notes:

- Before registering, please make sure that your tablet has a strong and stable Wi-Fi signal.
- While activating device, the Serial number and Verification code can be found in the included password envelope. To obtain Activation code, please contact with your dealer.

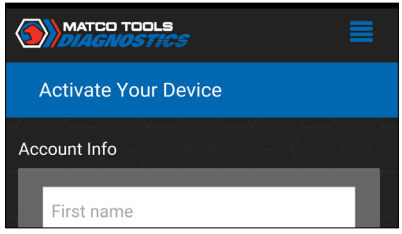
Follow the steps below to proceed:

1. Tap on "MaxLite 2.0" on the home screen. The following screen will appear.

A. For new user, tap on "REGISTER UNIT" to go to step 2.

B. "REGISTER FULL SOFTWARE" enables you to choose the coverage that works for you.

2. Fill in your account information and device information and then tap on "ACTIVATE".



Notes:

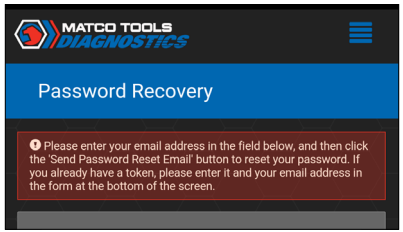
Serial number is a 12-digit number starting with 98 -- you can find it on the back of your tool.

Verification code is a 8-digit number stored in the Private & Confidential sheet.

Activation code is printed on the receipt, or consult your dealer for it.

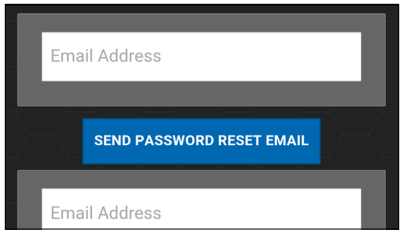
On-screen Buttons:

Recover Current Device Activation: If you have already activated your MaxLite 2.0, tap on it to enter the following screen.



Input Serial number, Email address and Password, and then tap on "SUBMIT" to sign in.

Click Here to Reset Password: If you forgot the password, tap on it to go to the following screen.



Follow the on-screen instructions to reset a new password.

3. Tap on "RUN DIAGNOSTICS" to launch diagnostics.

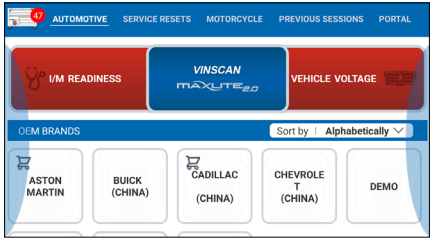
Tap on "MANAGE SUBSCRIPTIONS" to renew software subscription.

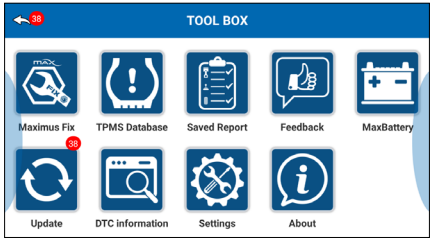
Tap on ☰. The following options will appear:

Sign Out: Tap on it to log out the system.

Update Profile: Tap on it to modify personal information.

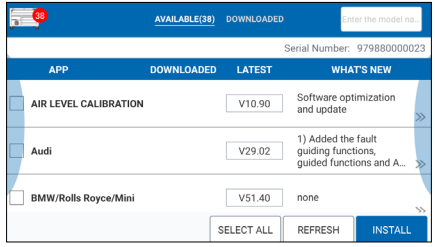
4. Tap on "  " on the top left-hand corner of the screen to switch to the Toolbox module.





Note: If a red dot appears on upper right corner of the Update logo, it indicates newer software is available.

5. Tap on "Update" to enter the update center.



Make sure all brands are selected, tap on "Update" to start updating.

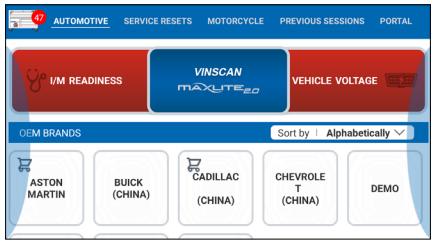
Tap on the "OK" button on the pop-up message box when update is complete.

Note: Download and installation will take approximately 10 minutes depending on the internet connection.

4.2 Basic Operations on Diagnostic App

4.2.1 Switch between different function modules

There are 2 function modules available on the MaxLite 2.0: Diagnostics and Toolbox.



Swipe in from the left/right edge of the screen to switch between function modules.

Alternatively, you can also tap on  on the upper left corner of the screen to toggle between Diagnostics and Toolbox.

4.2.2 How to arrange diagnostic vehicle software icons?

All software icons, by default are organized by the system. Many display rules are available to meet your preference.

To re-organize it, press and hold certain software icon, an option menu pops up on the screen. Choose the display rule and the system will arrange the icon as desired.

If you choose "Pin to the top", the icon will be displayed on the top of the screen and marked with an orange solid dot.

4.2.3 How to distinguish if the software is locked or not?

If the software is locked, tap on it to display the latest software summary. In this case, you need to purchase the software to unlock its content. Once it is unlocked, the software icon will turn into orange.

4.3 Function Modules

There are 2 function modules available on the MaxLite 2.0: Diagnostics and Toolbox.

4.3.1 Diagnostics

It mainly includes the following items:

Automotive	VINScan	Configures MaxLite 2.0 as a diagnostic tool exclusively for passenger cars. VINScan and Manual Diagnosis are supported.
	I/M eadiness	This function checks whether or not the various emissions-related systems on the vehicle are operating properly, and are ready for Inspection and Maintenance testing. It can also be used to check the Monitor Run Status, and to confirm if the repair of a car fault has been performed correctly.
	Vehicle Voltage	Performs a check of the vehicle's battery to ensure the system is operating within acceptable limits.
	OEM brands	Retrieves or selects the desired vehicle diagnostic software.
Service Resets		It offers coding, reset, relearn and more service functions of passenger vehicles to help vehicles get back to functional status after repair or replacement.
Motorcycle		Configures MaxLite 2.0 as a diagnostic tool exclusively for Motorcycles.
Previous Sessions		This function provides a quick access to the previously tested vehicles. Testing can be resumed from the previous operation without starting from scratch.
Portal		Quickly access our portal website.

4.3.2 Toolbox

It mainly includes the following items:

Maximus Fix	This modules allows you to access full instructions, flow charts, wiring diagrams and more to walk through how to fix and finish the job (Note: Contact your Matco distributor for information on how to get the Maximus Fix.)
TPMS Database	A brief tutorial on how to perform TPMS functions.
Saved Report	Includes Health report, Recorded Data and Data Samples.
Feedback	This item allows you to feedback your diagnostic problems to us for analysis and troubleshooting.
MaxBattery	Configures MaxLite 2.0 as a professional battery tester. This function requires the scan tool to work together with the compatible MDMAXBATTEST.
Update	To update vehicle diagnostic software and APK.
DTC Information	Quickly retrieve more detailed definitions of the DTCs.
Settings	To make some system settings, including VCI Management, MD Printer Connection, Shop Information, Icon Size and Hide/ Remove Software etc.
About	Includes FAQ, Vehicle Coverage, Quick Start Guide and User Manual etc.

4.4 Diagnostics toolbar

The diagnostics toolbar contains a number of buttons that enables various procedures. It is hidden under at the top of the vehicle diagnostic screens throughout the diagnostic session. Refer to the table below for a brief description of the functions of the diagnostics toolbar buttons.

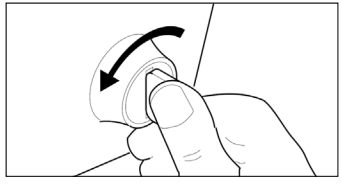
Print	Tap on it to print the current screen. To perform printing, you need to purchase an extra Wi-Fi printer separately.
Exit Session	Tap on it to exit the current diagnostic session.

5 Start Diagnostics

5.1 Connections

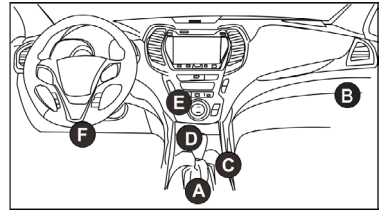
Follow the steps mentioned below to connect the vehicle:

1. Turn OFF the ignition key.



2. Locate vehicle's DLC socket: The DLC (Data Link Connector) is the standardized 16-cavity connector where diagnostic code readers interface with the vehicle's on-board computer. It is usually located 12 inches from the center of the instrument panel (dash), under or around the driver's side for most vehicles. If Data Link Connector is not located under dashboard, a label should be there telling location. For some Asian and European vehicles, the DLC is located behind the ashtray and the ashtray must be removed to access the connector.

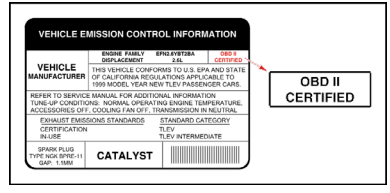
   If the DLC cannot be found, refer to the vehicle's service manual for the location.



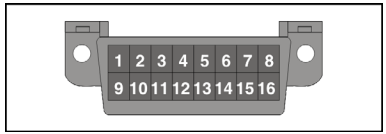
3. Plug one end of the diagnostic cable to DB-15 connector of the tablet, and tighten the captive screws. Connect the other end to the vehicle's OBD II DLC (Note: Make sure that Vehicle battery voltage range should be 11.4-14V).

   This tool is specially designed to work with all OBD II compliant vehicles, including Controller Area Network (CAN). To verify if a 1994 or 1995 vehicle is OBD II compliant, check the following:

   1). Vehicle Emissions Control Information (VECI) Label. It is located under the hood or by the radiator of most vehicles. If the vehicle is OBD II compliant, the label will designate "OBD II Certified".



2). Government regulations mandate that all OBD II compliant vehicles must have a "common" 16-pin Data Link Connector (DLC).



Note: Some 1994 and 1995 vehicles have 16-pin connectors but are not OBD II compliant. Only those vehicles with a Vehicle Emissions Control Label stating "OBD II Certified" are OBD II compliant.

4. Turn ON the ignition switch.

5.2 System Diagnostics

On the Diagnostics page, tap on "Automotive" to enter the vehicle selection page.

All pre-installed vehicle diagnostic software features full vehicle system diagnostics with the following basic diagnostic functions:

1. Read Version Information
2. Read Trouble Code
3. Clear Trouble Code

Reading Data Stream only applies to the following vehicle systems: ABS (Antilock Braking System) / SRS (Supplemental Restraint System) / PCM (Powertrain Control Module) / TCM (Transmission Control Module).

User can also extend the pre-installed diagnostic software with basic functions to full functions by MANAGE SUBSCRIPTIONS.

2 approaches are provided for you to access the vehicle diagnostic software.

5.2.1 VINSCAN

When the MaxLite 2.0 tablet is properly connected to the vehicle's DLC, you can easily get the VIN (Vehicle Identification Number) information of the currently identified vehicle. Once the VIN is successfully identified, the system will retrieve it from the remote server and then guide you to vehicle information page without the necessity of step-by-step manual menu selection (early model may need manual selection).

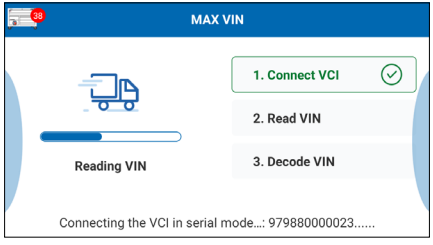
The vehicle information page lists all historical diagnostic records of the vehicle, which lets the technician have a total command of the vehicle faults. In addition, a quick dial to manual diagnosis and diagnostic function are also available on this page for reducing the roundabout time and increasing productivity.

Notes:

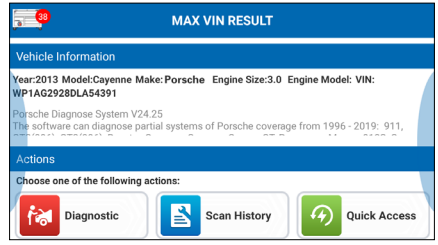
- Before using this function, please make sure the tablet is properly connected to the vehicle's DLC. For detailed connection, see Chapter 5.1 "Connections".
- A stable network connection is required for this function.
- If VINSCAN fails to identify the vehicle, attempt to connect to the network. Please note that not all cars support the VINSCAN function due to settings imposed by auto manufacturers.

Follow the steps below to proceed.

1. Tap on "VINSCAN". The system starts decoding the VIN.

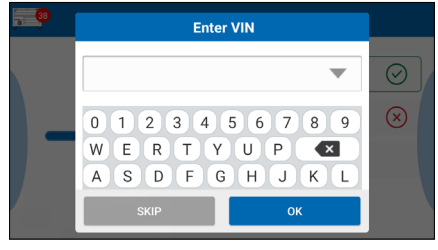


A. If the tablet successfully decodes the vehicle VIN, the following screen will appear:



- Tap on "Diagnostic" to start a new diagnostic session.
- Tap on "Scan History" to view its historical repair record. If there are records available, it will be listed on the screen in sequence of date. If no records exist, the screen will show "No Record".
- Tap on "View record" to view the details of the current diagnostic report.

B. If the tablet failed to obtain the vehicle VIN, the following screen will appear:



In this mode, you need to input the VIN manually.

The most recognizable location for this number is in the top left corner on the vehicle's dashboard. Other locations include the driver's door or post, and the firewall under the hood.

Note: In general, vehicle identification numbers are standardized - all contain 17 characters. VIN characters may be capital letters A through Z and numbers 1 through 0; however, the letters I, O and Q are never used in order to avoid mistakes of misreading. No signs or spaces are allowed in the VIN.

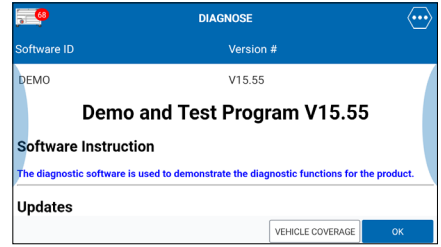
Input the VIN, and tap on "OK" to start decoding the vehicle VIN or select the vehicle model manually to perform vehicle diagnosis.

5.2.2 Manual Diagnosis

In this mode, you need to execute the menu-driven command and follow the on-screen instructions to proceed.

Use Demo (Version 15.55) as a reference to illustrate the process of diagnosing a vehicle.

1). Select diagnostic software version: Tap on the "DEMO" to go to Step 2.

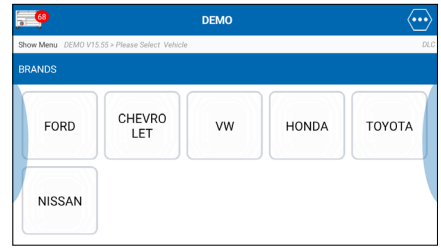


On-screen Buttons:

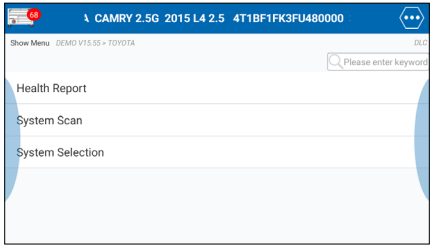
Vehicle Coverage: Tap to view the vehicle models that the current diagnostic software covers.

OK: Tap on it to go to next step.

2). Select test vehicel: Select the desired vehicle model to proceed.



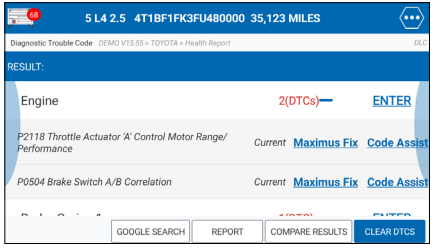
3). Select test item: Select the desired test item to proceed.



5.2.2.1 Health Report (Quick Test)

This function varies from vehicle to vehicle. It enables you to quickly access all the electronic control units of the vehicle and generate a detailed report about vehicle health.

Tap on "Health Report" on the test item selection screen to start scanning the vehicle control modules. When scanning is complete, the following screen will appear.



Systems with fault code are displayed in red and systems functioning normally are displayed in white.

On-screen Buttons:

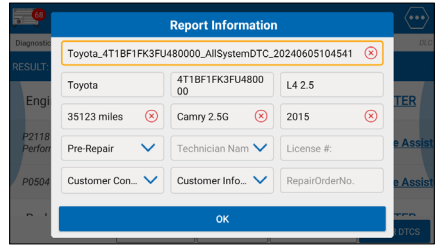
Maximus Fix: Tap to retrieve it and find possible cause & verified solution from the Maximus Fix (sold separately).

Code Assist: Tap to check more details on the current DTC from the Maximus Code Assist.

Enter: Tap to select other test functions.

Google Search: Highlight the desired DTC, and tap on it to search in the Google engine for more detailed information about the selected DTC.

Report: Tap to save it as a report of the current data in text format.



While filling the report information,

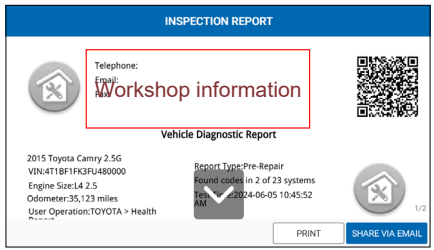
- Tap on ⌄ to choose the right report type from the pull-down list.

Note: Diagnostic report is classified into two categories: Pre-Repair report and Post-Repair report.

To facilitate the comparison of the pre-repair and post-repair reports and get accurate test result, please make sure you saved the right type of the diagnostic report.

- In Technician Name field, input the technician name (*If you have entered the technician name before, tap on directly to select it from the pull-down list).
- Tap on "Customer Concerns", select the fault symptom information from the list and tap on "OK" to confirm.
- In Notes text box, write down more description about the diagnostic trouble codes.
- To make the fault symptom more intuitive, you may also tap on "Load Image" to take a photo or upload a local photo.

After filling it, tap on "OK" to save it as a diagnostic report and navigate to the report details page.

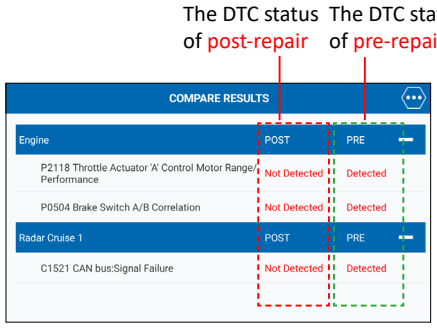


Note: By default, the workshop information is blank. You can configure and revise it from the "Shop Information" in "Toolbox" -> "Settings".

Once you configured the information, it will be automatically generated every time the diagnostic report is saved. All vehicle and workshop information will be appended as a tag on the diagnostic report.

On the report details page, tap on "Share" to share it to others. All diagnostic reports can be accessed from "Toolbox" -> "Saved Reports" -> "Health Report".

Compare Results: After you have made some repairs based on the pre-repair diagnostic report and re-diagnose the vehicle, tap on "Compare Result" to select the pre-repair report to compare. By comparison of the pre- and post- repair reports, you can easily identify which DTCs are cleared and which remain unfixed.



Note: Before performing this function, please make sure that:

- You have saved a pre-repair report of the currently tested vehicle, and
- You have already made some repairs and service and cleared the DTCs after the pre-repair reported is generated. Otherwise, no differences exist between the pre- and post- repair reports.

Clear DTCs: Tap to clear the existing diagnostic trouble codes.

Note: Clearing DTCs does not fix the problem(s) that caused the code(s) to be set. If proper repairs to correct the problem that caused the code(s) to be set are not made, the code(s) will appear again and the check engine light will illuminate as soon as the problem that cause the DTC to set manifests itself.

5.2.2.2 System Scan

Use this option to quickly scan and identify which systems are installed on the vehicle.

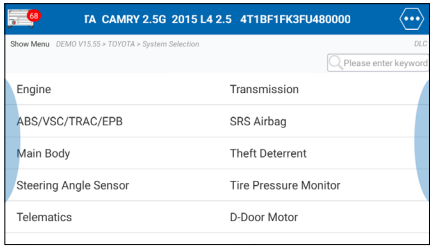
On the test item selection screen, tap on "System Scan" to scan the vehicle control modules. When scanning is complete, the following screen will appear.

Tap on the desired system to enter the test function selection screen. For detailed operations on test function, please refer to Chapter 5.3.2.3.

5.2.2.3 System Selection

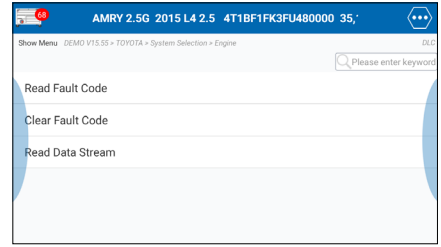
This option allows you manually select the test system and function step by step.

On the test item selection screen, tap on "System Selection", the screen displays as follows:



Swipe the screen from the bottom to view the vehicle system on the next page.

Tap on the desired system (take "Engine" for example) to enter the test function selection page.



Note: Different vehicle has different diagnostic menus.

A. Version Information

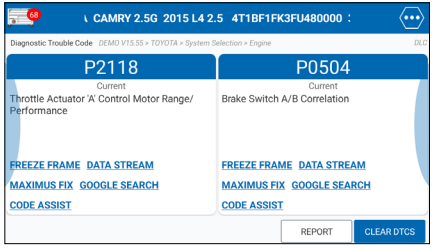
This function is used to read the version information of system mode, vehicle VIN, software and ECU.

On the test function selection page, tap on "Version Information", the screen displays the detailed information about the ECU.

B. Read Fault Code

This function displays the detailed information of DTC records retrieved from the vehicle's control system.

On the test function selection page, tap on "Read Fault Code", the screen will display the diagnostic result.



On-screen Buttons:

Freeze Frame: When an emission-related fault occurs, certain vehicle conditions are recorded by the on-board computer. This information is referred to as freeze frame data. Freeze frame data includes a snapshot of critical parameter values at the time the DTC is set. If it is illuminated, tap on it to view the freeze frame data.

Maximus Fix: Tap to retrieve it and find possible cause & verified solution from the Maximus Fix (sold separately).

Google Search: Highlight the desired DTC, and tap on it to search in the Google engine for more detailed information about the selected DTC.

Report: To save the current data in text format. All diagnostic reports can be accessed from "Toolbox" -> "Saved Reports" -> "Health Report".

WARNING: Retrieving and using DTCs for troubleshooting vehicle operation is only one part of an overall diagnostic strategy. Never replace a part based only on the DTC definition. Each DTC has a set of testing procedures, instructions and flow charts that must be followed to confirm the location of the problem. This information can be found in the vehicle's service manual.

C. Clear Fault Code

After reading the retrieved codes from the vehicle and certain repairs have been carried out, you can use this function to erase the codes from the vehicle. Before performing this function, please be sure the vehicle's ignition key is in the ON position with the engine off.

Clearing DTCs does not fix the problem(s) that caused the code(s) to be set. If proper repairs to correct the problem that caused the code(s) to be set are not made, the code(s) will appear again and the check engine light will illuminate as soon as the problem that cause the DTC to set manifests itself.

On the test function selection page, tap on "Clear Fault Code", a confirmation dialog box pops up on the screen. Tap on "Yes" and the system will automatically delete the currently existing trouble code.

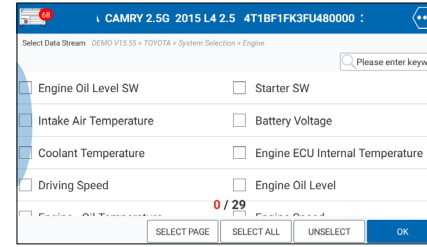
Note: After clearing, you should retrieve trouble codes once more or turn ignition on and retrieve codes again. If there are still some trouble codes in the system, please troubleshoot the code using a factory diagnosis guide, then clear the code and recheck.

D. Read Data Stream

This option lets you view and capture (record) real-time Live Data. This data including current operating status for parameters and/or sensor information can provide insight on overall vehicle performance. It can also be used to guide vehicle repair.

DANGER: If you must drive the vehicle in order to perform a troubleshooting procedure, ALWAYS have a second person help you. Trying to drive and operate the diagnostic tool at the same time is dangerous, and could cause a serious traffic accident.

On the test function selection page, tap on "Read Data Stream", the system will display data stream items.



On-screen Buttons:

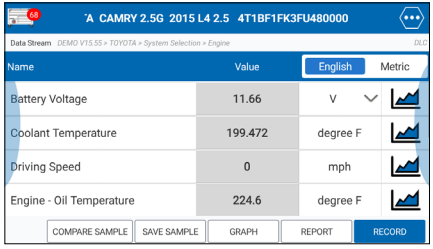
Select Page: Tap on it to select all items of the current page. To select certain data stream item, just check the box before the item name.

Select All: Tap on it to select all items. To select certain data stream item, just check the box before the item name.

Unselect: Tap on it to deselect all data stream items.

OK: Tap on it to confirm and jump to the next step.

After selecting the desired items, tap on "OK" to enter the data stream reading page.



Notes:

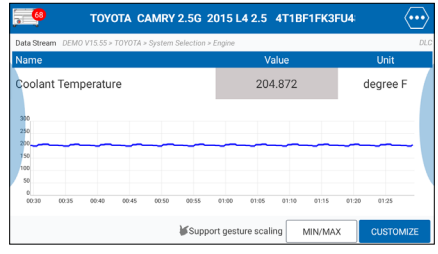
1. If the value of the data stream item is out of the range of the standard (reference) value, the whole line will display in red. If it complies with the reference value, it displays in blue (normal mode).
2. The indicator 1/X shown on the bottom of the screen stands for the current page/total page number. Swipe the screen from the right/left to advance/return to the next/previous page.
3. In the Unit column, tap on the desired measurement unit tab to set it.

There are 3 types of display modes available for data viewing, allowing you to view various types of parameters in the most suitable way.

- Value – this is the default mode which displays the parameters in texts and shows in list format.
- Graph – displays the parameters in waveform graphs.
- Combine – this option is mostly used in graph merge status for data comparison. In this case, different items are marked in different colors.

On-screen Buttons:

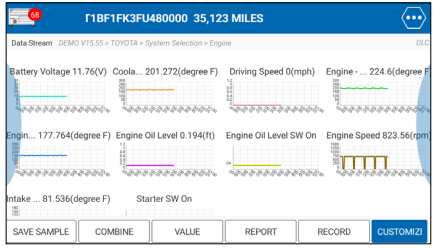
: Tap on it to view the waveform graph of the current data stream item.



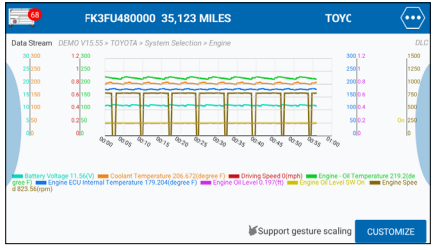
- Min/Max: Tap on "Min/Max" to define the maximum/minimum value. Once the value goes beyond the specified value, the system will alarm.
- Customize: If desired, you can customize to show only those PIDs you are interested in viewing. Tap on "Customize" to add/change other data stream items.

Note: The real time (Live Data) vehicle operating information (values/status) that the on-board computer supplies to the tool for each sensor, actuator, switch, etc. is called Parameter Identification Data (IPD).

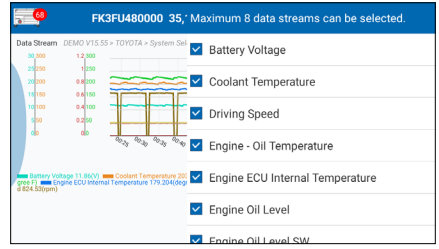
Graph: Tap on it to view the waveform.



- Combine: This option is mostly used in graph merge status for data comparison.

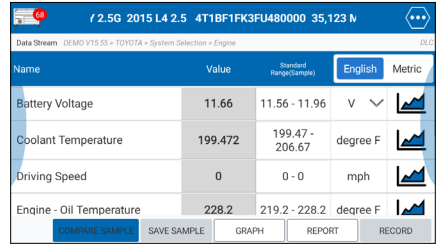


- Value: Tap to display the parameters in texts.
- Customize: This option allows you to select only the PIDs that you wish to display. Tap on it, a pull-down list of the data stream items appears on the screen. Select (Up to 8 data stream items can be selected)/deselect the desired items and then screen will display/remove the corresponding waveforms immediately.



Compare Sample: Tap on it to select the sample DS file, the values you customized and saved in process of DS sampling will be imported into the "Standard Range"(See below) column for your comparison.

Note: Before executing this function, you have to sample the values of data stream items and save it as an sample DS file.



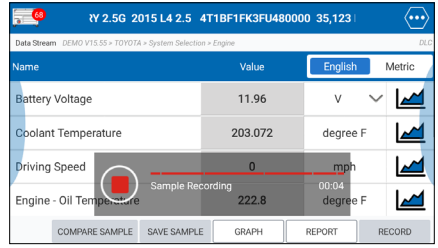
Report: To save the current data as a diagnostic report. All diagnostic reports can be accessed from "Toolbox" -> "Saved Reports" -> "Health Report".

Record: Tap to start recording diagnostic data. Recorded live data can serve as valuable information to help you in troubleshooting of vehicle problems. All diagnostic records can be replayed from "Toolbox" -> "Saved reports" -> "Recorded Data".

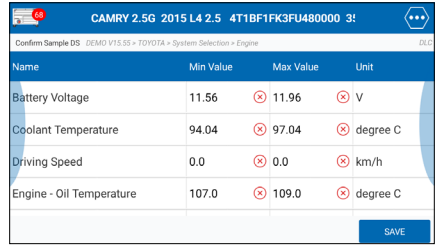
Note: The saved file follows the naming rule: It begins with the series number, and then the record starting time (To differentiate between files, please configure the accurate system time).

Save Sample: This item enables you to customize the standard range of live data stream items and save it as sample data stream file. Each time you run the data stream items, you can call out the corresponding sample data to overwrite the current standard range.

Tap on it to start recording the sample data (*Only data stream items with units will be recorded), and the screen displays as below:



Once recording is complete, tap on ⏺ to stop it and navigate to the data revision screen.



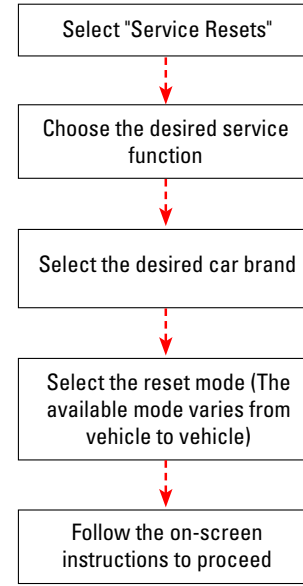
Tap on the Min./Max. value to change it. After modifying all desired items, tap on "Save" to save it as an sample data stream file. All sample files are stored under the "Data Samples" file of "Save Report" in "Toolbox".

5.3 Maintenance Reset

It offers coding, reset, relearn and more service functions to help vehicles get back to functional status after repair or replacement. Available tests vary by vehicle manufacturer, year, and model.

Due to continuing improvements, the available service functions are subject to change at any time. To enjoy more service functions, you are suggested to check for updates on a regular basis.

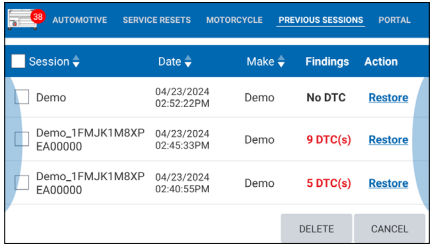
Follow the flowchart to perform resetting.



5.4 Diagnostic History (Previous Sessions)

Generally once a vehicle diagnosis is performed, MaxLite 2.0 will record the every details of diagnostic process. The History function provides a quick access to the tested vehicles and users can resume from the last operation, without the necessity of starting from scratch.

Tap on "Previous Sessions", all diagnostic records will be listed on the screen in date sequence.



- Tap on certain vehicle model to view the details of the last diagnostic report.
- To delete certain diagnostic history, select it and then tap on "Delete". To delete all historical records, tap on the check box before Session and then tap on "Delete".
- Tap on "Restore" to directly enter the function selection page of last diagnostic operation. Choose the desired option to proceed.

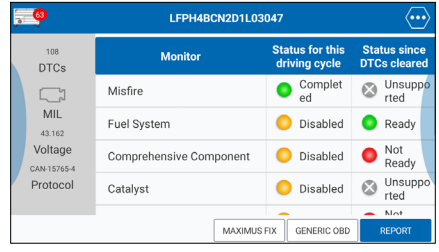
5.5 I/M Readiness

I/M refers to Inspection and Maintenance that is legislated by the Government to meet federal clean-air standards. I/M Readiness indicates whether or not the various emissions-related systems on the vehicle are operating properly and are ready for Inspection and Maintenance testing.

The purpose of the I/M Readiness Monitor Status is to indicate which of the vehicle's Monitors have run and completed their diagnosis and testing, and which ones have not yet run and completed testing and diagnosis of their designated sections of the vehicle's emissions system.

The I/M Readiness Monitor Status function also can be used (after repair of a fault has been performed) to confirm that the repair has been performed correctly, and/or to check for Monitor Run Status.

Tap on [I/M Readiness] from the Automotive main menu screen, the screen will start reading the I/M readiness and display the result.

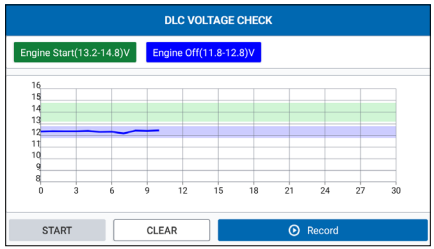


5.6 Vehicle Voltage

This option allows you to perform a check of the vehicle's battery to ensure the system is operating within acceptable limits.

Tap on [Vehicle Voltage] from the Automotive main menu

screen, the following screen will appear.



On-screen Buttons:

Start: Tap on it to start checking the real-time vehicle voltage.

Record: Tap on it to start recording the running waveform graph. All recorded files are saved under "Saved Report" -> "Recorded Data".

Clear: Tap on it to clear the running waveform graph.

6 Toolbox

6.1 Saved Reports

Tap on "Saved Reports", it mainly includes the following options:

1). Health report

2). Recorded data

3). Data samples

4). Shared data samples

6.1.1 Health Report

This module stores all diagnostic reports generated in process of vehicle diagnosis.

All the diagnostic reports are sorted by Date and Make.

6.1.2 Recorded Data

If user records the running parameters or waveform graphs while reading data stream, it will be saved as diagnostic records and appear under this tab. You can use this option to view recorded live data. Frame playback and auto playback are supported.

Note: While viewing recorded live data, carefully look for any irregularities in any of the PID values/signal information (TEMP, RPM, etc). If any PIDs go beyond the standard range value, or irregularities are detected, follow the procedures in the vehicle's service manual to perform additional troubleshooting and repair.

6.1.3 Data Samples

This module allows you to manage the recorded data stream sample files.

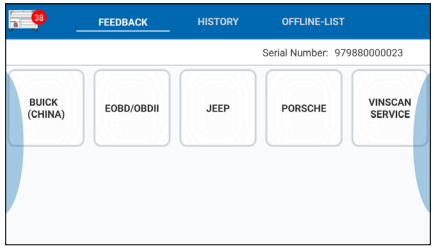
6.1.4 Shared Data Samples

This module allows you to view the data stream sample files shared with others.

6.2 Feedback

This item allows you to feedback your diagnostic problems to us for analysis and troubleshooting.

Tap on "Feedback", the following 3 options will be displayed on the left column of the screen.



A. Feedback

Tap on a tested vehicle model to enter the feedback screen.

1) Tap on "Choose File" to open the target folder and choose the desired diagnostic logs.
2) Choose the failure type and fill in the detailed failure description in the blank text box and telephone or email address. After inputting, tap on "Submit Result" to send it to us.

B. History

Tap on it to view all diagnostic feedback records. Different process states are marked with different colors.

C. Offline list

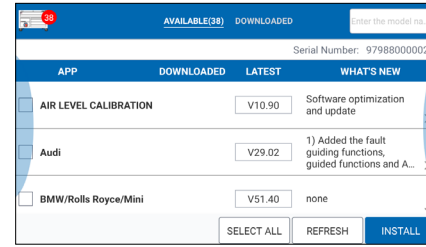
This feature presents all diagnostic feedback logs that have not been successfully submitted due to network failure. The failed logs are queued for automatic re-upload once the tablet establishes a stable network connection.

6.3 Update

This module allows you to update the diagnostic software & App and set frequently used software.

If you did not download the software in process of product activation or a number (indicating the available software quantity) displaying on the upper right corner of the icon, you may use this option to download it or keep it synchronized with the latest version.

Tap "Update" to enter the update center.



6.3.1 Update Diagnostic Software & APP

The Available tab displays a list of software that can be updated. Under it, all software is categorized into three kinds:

- Common software: mainly includes some common apps that are associated with the diagnostic app. The software of this kind always stays at the top of the list, which can be deselected manually (excluding the system app, such as firmware and ECU aid).

- Frequently used vehicle software: refers to the diagnostic software that is frequently used, including the vehicle diagnostic software and Reset software. It is generally displayed following the Common software list.
- Other vehicle software: refers to the diagnostic software that is rarely used or never used. It is generally displayed following the Frequently used software list.

1). If the user does not download any diagnostic software during the sign-up process, all diagnostic software is selected by default. Tap "Install" to start downloading.

2). If the user downloaded all/some vehicle software during the sign-up process and had it serviced for a long period of time, only the frequently used software is selected. Tap "Install" to start downloading. Other vehicle software that is rarely used will also be listed under the Available tab, but it is not selected at default.

To download certain software that is not frequently used, check the box before the vehicle model. Tap "Install" to start downloading.

Once download is finished, the software packages will be installed automatically.

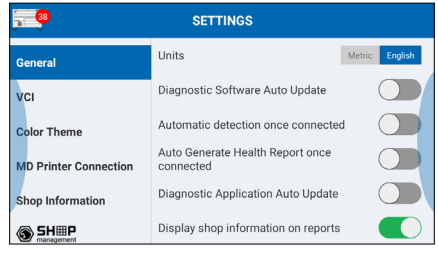
6.3.2 Set Frequently Used software

If the user only intends to update the frequently used software, tap the Downloaded tab.

Tap "Install" to start downloading. Once download is finished, the software packages will be installed automatically.

6.4 Settings

This module allows you to manage diagnostic reports, VCI devices, configure wireless printer and print information and add favorite website etc.



6.4.1 General

6.4.1.1 Units

This option can set the measurement unit. Metric System and English System are available.

6.4.1.2 Diagnostic Software Auto Update

This option allows you to turn on/off the automatic diagnostic software update function. If set as ON, the system will automatically update the available diagnostic software when the tablet has a network connection and a newer version is detected.

6.4.1.3 Automatic detection once connected

This option enables you to determine whether to start an automatic VIN detection once the handset is properly connected to the vehicle's DLC.

6.4.1.4 Auto Generate Health Report once connected

Once it is set as ON, the system will automatically output a health report once the VINSCAN diagnostic session is finished.

6.4.1.5 Diagnostic Application Auto Update

This option allows you to set whether to update the available diagnostic application automatically when the tablet has stable Wi-Fi signal.

6.4.1.6 Display shop information on reports

This option allows you to set whether to display shop information on the diagnostic reports.

6.4.2 VCI

If the current VCI comes across communication failure, tap on "Firmware Fix" to update and fix the diagnostic firmware. During fixing, please do not cut power or switch to other interfaces.

Note: please be sure to keep the VCI device powered on while performing the operation.

6.4.3 Color Theme

This option allows you to set the color theme according to your preference.

6.4.4 MD Printer Connection

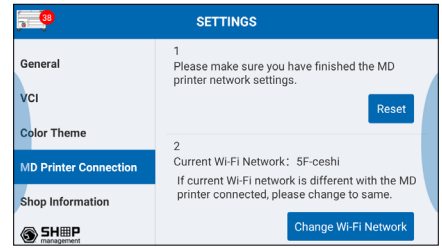
This option is used to establish a wireless connection between the tablet and the printer (sold separately) while performing printing operations.

The App is compatible with the "Matco Tools Wi-Fi Printer" (sold separately).

Follow the steps below to connect the Wi-Fi printer.

1. Tap on "MD Printer Connection".

Below describes how to configure the Wi-Fi Printer.



A. If it is the first time you have operated this printer, please proceed the following:

2. For initial use, you are suggested to reset the printer:

Press and hold [MODE] & [FEED] for 8 seconds, the following resetting command will be printed out:

at + default = 1

ok

at + reboot = 1

rebooting...

3. Tap on "Reset" to configure Wi-Fi printer.

   Step 1: Connect the printer:

   Tap on "Scan" to select the desired printer hotspot named with X-431PRINTER-XXXX (XXXX stands for 4 characters), and then tap on "Connect" to enter Step 2.

   Step 2: Join the printer into LAN:

   Tap on "Scan" to select the desired local Wi-Fi network from the list, and type in the security password (If it is an open network, password is not required), and then tap on "Confirm".

4. Once the Wi-Fi network of the printer is connected and the printer is found, tap on "Test Print" to test the printing.

   Now the Wi-Fi printer is ready.

   If the printer is not found, please reset the printer to default factory settings (refer to Step 2 for details) and check whether the current device and the printer are on the same LAN.

B. If you have configured the Wi-Fi printer to the LAN:

2. Tap on "Connect to Printer":

   a). If the local network remains as it is, tap on "Test Print" directly to test the printing.

   b). If the local network changes, you have to reboot and reconfigure the Wi-Fi printer.

6.4.5 Shop Information

This option lets you define the detailed information of your workshop. It mainly includes Workshop Name, Address, Zip Code, Telephone, Email etc.

Once you saved the shop information, it will be loaded automatically in the "More Information" box every time you save the diagnostic report.

6.4.6 Shop Management

This option allows you to synchronize the diagnostic reports generated by your MaxLite 2.0 to your SHOPBOSS Shop ID for easier management.

6.4.7 Favorites

This option provides you quick accesses to some renowned and popular repair and maintenance website links. These may include general information about a component or system, diagnostic and troubleshooting procedures and/or repair instructions. Moreover you can also add more repair websites into Favorites so that you can quickly open them in future.

6.4.8 Hide or Remove Software

This option allows you to hide/clear the diagnostic software that is not frequently used.

Note: Removing the software may entirely delete it from the tablet. If you encounter space constraints on the tablet and certain software is unused, you can use this feature to remove it.

6.4.9 Screenshots

This option allows you to share and manage all screenshots.

6.5 About

FAQ, Vehicle Coverage, Quick Start Guide and User Manual are included.

Appendix - FAQ

1. Communication error with vehicle ECU?

Please confirm:

1. Whether diagnostic cable is correctly connected.
2. Whether ignition switch is ON.
3. If all checks are normal, send vehicle year, make, model and VIN number to us using the "Feedback" feature.

2. Failed to enter into vehicle ECU system?

Please confirm:

1. Whether the vehicle is equipped with this system.
2. Whether the diagnostic cable is correctly connected.
3. Whether ignition switch is ON.
4. If all checks are normal, send vehicle year, make, model and VIN number to us using the "Feedback" feature.

3. Can I use any power adapter other than the included 5V to charge the tablet?

No. Please use the included 5V power adapter to recharge the tablet. We assume no responsibility for damage or loss resulting from the use of any other adapters.

4. How to save power?

- Please turn off the screen while MaxLite 2.0 keeps idle.
- Set a shorter standby time.
- Decrease the brightness of the screen.
- If Wi-Fi connection is not required, please turn it off.
- Disable GPS function if GPS service is not in use.

5. How to reset the tablet?

1. Ensure the tablet is in ON mode.
2. Select "Settings" on the home screen.
3. Select "Backup & reset".
4. Tap on "Factory data reset".
5. Tap on "RESET TABLET" to confirm.
6. After resetting is complete, follow the on-screen instructions to finish the system settings.

WARNING: Resetting may cause data loss. Before doing so, please make sure important data has been backed up.

6. How to update Android system?

Preparation

A newer Android version will be released to bring better user experience. Please see below details. Please make sure your tool battery has at least 70%.

Do NOT run any other programs during the update.

1. Press the home key to navigate to the home screen.
2. Tap on "Settings" -> "About tablet" -> "Software updates".
3. Tap on "Check version". Once a newer version is found, follow the on-screen instructions to download and install the update file.
4. Be patient to wait until the update is done.

7. My software subscription has expired, how do I renew it?

Open and sign in the MaxLite 2.0 App, tap on "MANAGE SUBSCRIPTIONS", select the desired recurring plan and follow the on-screen instructions to finish the subscription renewal.

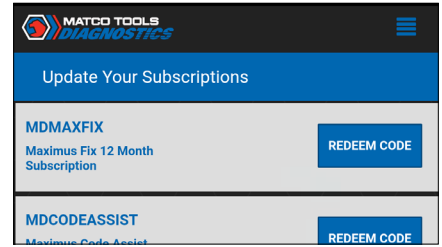
8. Can I extend my pre-installed vehicle software with basic diagnostic functions to full functions?

All pre-installed vehicle diagnostic software features the following basic diagnostic functions:

1. Read Version Information
2. Read Trouble Code
3. Clear Trouble Code
4. Reading Data Stream (only applies to the following four vehicle systems: ABS (Antilock Braking System) / SRS (Supplemental Restraint System) / PCM (Powertrain Control Module) /TCM (Transmission Control Module)).

To extend the pre-installed diagnostic software to full functions, follow the steps below to proceed:

1. Open and sign in the MaxLite 2.0 App.
2. Tap on "MANAGE SUBSCRIPTIONS", and then select the desired software.



3. Follow the on-screen instructions to finish the subscription.
4. Now the pre-installed vehicle software covering full functions is ready for use.
5. After the subscription is expiry, the pre-installed vehicle software will restore to the default basic functions.

9. How to register the MaxLite 2.0?

1. Turn the MaxLite 2.0 tablet on.
2. Turn on Wi-Fi: Select "Settings" -> "Network & internet"-> "Wi-Fi". Choose preferred network and tap on "Connect".
3. Open the MaxLite 2.0 Software. Select "REGISTER UNIT".
4. Fill in the account information and device information (Serial number is a 12-digit number starting with 98 -- you can find it on the back of your tool. Verification code is a 8-digit number stored in the included Private

& Confidential sheet. Activation code is printed on the receipt, or consult your dealer for it), and then tap on "ACTIVATE".

5. Tap on "RUN DIAGNOSTICS" to launch diagnostics.
6. Tap on the "Toolbox" icon on the top left-hand corner of the screen to switch to the Toolbox module.
7. Tap on "Update" to enter the update center.
8. Make sure all brands are selected, tap on "Update" on the update page to start updating. Download and installation will take approximately 10 minutes depending on the internet connection.

10. The diagnostics application is failing.

1. Tap on the home key to navigate to the home screen.
2. Select "Settings".
3. Select "Apps & notifications".
4. Select the MaxLite 2.0 Application from the Apps list.
5. Select "Force Stop".
6. Tap on "OK" to confirm.

If you have any questions on the operation of the unit, please contact Matco customer service number: 877-853-3738.

Statement:

We reserve the rights to make any change to product designs and specifications without notice. The actual object may differ a little from the descriptions in the manual in physical appearance, color and configuration. We have tried our best to make the descriptions and illustrations in the manual as accurate as possible, and defects are inevitable, if you have any question, please contact local dealer or after-sale service center, we shall not bear any responsibility arising from misunderstandings.