

Version: V1.00.000

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WARNING SYMBOLS AND DEFINITIONS

| | |
|--|---|
| | This safety alert symbol is used to alert you to potential injury hazards. Obey all safety messages that follow this symbol to avoid possible injury. |
| | Indicates an imminently hazardous situation which, if not avoided, could result in death or serious injury to the operator or to bystanders. |
| | Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury to the operator or to bystanders. |
| | Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury to the operator or to bystanders. |
| | Addresses practices not related to personal injury. |

IMPORTANT SAFETY INFORMATION
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 various poisonous compounds (hydrocarbon, carbon monoxide, nitrogen oxides, etc.) that cause slower reaction time and result in death or serious personal injury.

WARNING

Read all safety warnings and instructions.

*Note: Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

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.

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1 Introduction

1.1 Product Profile

MAXIMUS PLUS (MDMAXPLUS) is an evolutionary smart solution for specialized vehicle (including automotive and motorcycles) diagnosis and maintenance. It inherits from advanced diagnosing technology and is characterized by covering a wide range of vehicles, featuring powerful functions, and providing precise test result.

Through the wireless communication between VCI dongle and MAXIMUS PLUS tablet, it achieves full car model and full system vehicle trouble diagnosis, which include Reading DTCs, Clearing DTCs, Reading Data Stream, Actuation Test and Special Functions.

Moreover, taking advantage of the mobile Internet, it also integrates One-click Update, Tech 2 Tech (Remote Diagnosis) and Repair Data, which helps to diagnose vehicle issues more efficiently, and greatly increase customer's retention and boost shop revenue.

1.2 Features

- Smart Diagnosis (MAXVIN): This module allows you to use the VIN information of the currently identified vehicle to access its data (including vehicle information, historical diagnostic records) from the cloud server to perform quick test.
- Local Diagnosis: To perform diagnosis by executing on-screen commands step by step. Diagnosis functions include: Read DTCs, Clear DTCs, Read Data Stream, Special Functions etc.
- Tech 2 Tech (Remote Diagnosis): This option aims to help repair shops or technicians launch instant messaging and remote diagnosis, making the repair job getting fixed faster.

- Maintenance & Reset: All kinds of common maintenance and reset items, such as Oil lamp reset, DPF regeneration, ABS bleeding etc can be done.
- 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. Moreover, this module also has a direct access to generic OBD, saving time to enter into the system.
- One-click Update: Lets you update your diagnostic software online.
- Diagnostic History (Previous Session): Provides a quick access to the tested vehicles and users can choose to view the test report or resume from previous diagnostic session, without the necessity of starting from scratch.
- Pre- and Post- Repair Result Comparison: By comparing the pre-repair and post-repair report, you can clearly determine which vehicle issues have been fixed and which remained unsolved.
- Diagnostic Feedback: Enables you to submit the vehicle issue to us for analysis and troubleshooting.
- Vehicle Coverage: Quick dial to view the vehicle models that MAXIMUS PLUS covers.
- Backup/Restore: This feature lets you back up the recorded files to external storage device/restore the recorded data from the external storage device.

1.3 Technical Specifications

1.3.1 MAXIMUS PLUS Tablet

| Item | Description |
|-----------------------|--|
| Operating system | Android |
| Display | 8 inch capacitive touch screen with 1280 x 800 resolution |
| Memory | 4GB |
| Hard disk | 64GB |
| Connectivity | <ul style="list-style-type: none"> • Wi-Fi (802.11 a/b/g/n/ac) • Bluetooth |
| Cameras | 8MP rear-facing camera |
| Operating Temperature | 0°C ~ 50°C (32 ~ 122°F) |
| Storage Temperature | -20°C ~ 70°C (-4 ~ 158°F) |

| | |
|---------------------|---------------------------|
| Storage temperature | -20°C ~ 70°C (-4 ~ 158°F) |
| Relative humidity | 20% ~ 90% |

1.3.2 VCI Dongle

| Item | Description |
|---------------------|--|
| Working voltage | DC 9~18V |
| Supported protocols | FCAN/ SCAN / CAN / CANFD; KWP/LIne; J1850 PWM; VPW; Chrysler CCD |
| Working temperature | -10°C ~ 50°C (14 ~ 122°F) |

2 Components & Controls

There are two main components to the MAXIMUS PLUS system:

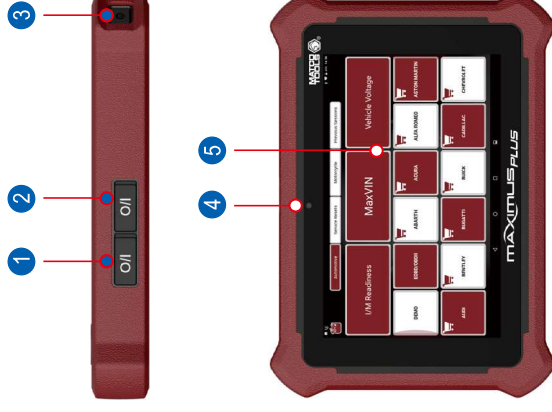
- MAXIMUS PLUS Tablet – the central processor and monitor for the system (For details, please refer to Chapter 2.1.)

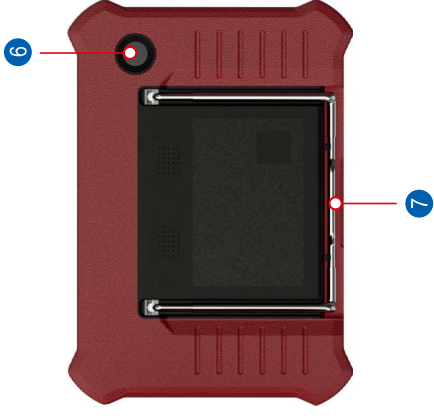


- VCI Device -- the device for accessing vehicle data (For details, please refer to Chapter 2.2.)



2.1 MAXIMUS PLUS Tablet





2.2 VCI Dongle

The VCI dongle works as a vehicle communication interface device, which is used to connect to the vehicle's DLC (Data Link Connector) via the diagnostic cable to read the vehicle data and then send it to the tablet via wireless communication.



| No. | Name & Descriptions |
|-----|--|
| 1 | Data Transmission Port – Reserved for add-on modules (such as Videoscope etc), and other devices with similar port. |
| 2 | Type-C Charging Port– Reserved for charging the tablet. |
| 3 | Power/Screen Lock Button – To turn the tablet on/off with long press, or lock the screen with short press. |
| 4 | Front Camera |
| 5 | Touch Screen |
| 6 | Rear Camera |
| 7 | Adjustable Kickstand - Flip out it to any angle and work comfortable at your desk, or hang it on the steering wheel. |


| No. | Name & Descriptions |
|-----|---|
| 1 | DB-15 Diagnostic Connector – To connect the diagnostic cable. |

| | |
|---|---|
| 2 | Data Transmission Port—To connect to the tablet to perform vehicle diagnosis via data cable. |
| 3 | Power LED— It lights up while the dongle is plugged into the vehicle's DLC. |
| | Vehicle Communication Indicator— It illuminates green and flashes when the dongle is communicating with the vehicle. |
| | Tablet Communication Indicator <ul style="list-style-type: none"> • BLUE indicates that the dongle is working in wireless communication (BT) mode (default mode). • It illuminates red when the dongle is connected to the tablet via data cable. |

2.4 Accessory Checklist

Common accessories are same, but for different destinations, the accessories may vary. The following accessory items are only for reference. Please consult from the Matco Distributor or check the package list supplied with this tool together.

| No. | Name | Qt. | Picture |
|-----|---------------------|-----|---|
| 1 | MAXIMUS PLUS Tablet | 1 |  |
| 2 | VCI Dongle | 1 |  |
| 3 | Power Adapter | 1 |  (To supply power to the tablet through connection to AC outlet.) |
| 4 | Diagnostic Cable | 1 |  (Connects the VCI device to the vehicle's OBD II DLC port.) |

| | | |
|---|-------------------|---|
| 5 | Password Envelope |  <p>(A piece of paper bearing Product S/N and Activation Code, which is required for your registration.)</p> |
|---|-------------------|---|

3 Preparations

3.1 Charging MAXIMUS PLUS

*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.
1. To check the battery power level, press and hold the Power button about 3 seconds on the tablet.
 2. Power level is indicated as a percentage in the upper right corner of the screen. If the power level drops below 10% while the tablet is on, a "Connect Charger" notification will appear on the screen.

Charging with the Included 5V Power Adapter

1. Connect one end of the power adapter to Type C charging port of the tablet, and the other end to the AC outlet.
2. The charging LED illuminates solid red and the charging symbol will appear on the screen.
3. Once it illuminates solid green, it indicates that the battery is fully charged and the charging complete symbol replaces the charging symbol. Disconnect the power adapter from the AC outlet.

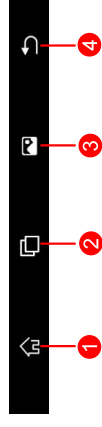
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3.2 Power ON/OFF

*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 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 "Power Off".

3.3 Locator & Navigation Buttons



On-screen keys and status bar are as follows:

- 1 Tap to navigate to the Android System's home screen.
- 2 Tap to call out all running function modules which are integrated in the diagnostic App.
- 3 Tap to capture the current screen and all captured screenshots are stored in the Screenshots folder.
- 4 Tap to return to the previous screen or exit the application.

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 Settings -> Display -> Brightness level.
 **Tips:** Reducing the brightness of the screen is helpful to save the power of the tablet.
2. Drag the slider to adjust it.

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 Settings-> Display-> Screen time-out.
2. Choose the desired sleep time.

3.5 Changing Language

MAXIMUS PLUS supports multiple languages. To change the language of the tablet, please do the following:

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

MAXIMUS PLUS has built-in Wi-Fi that can be used to get online. Once you're online, you can register your tool, update diagnostic software & APK, browse the Internet, get apps and send email on your network.

* 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

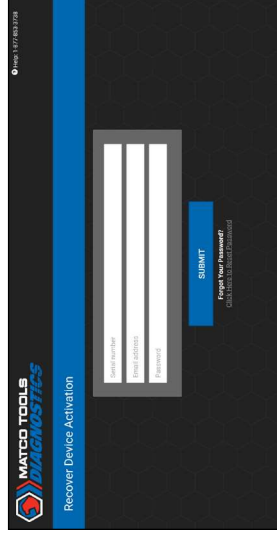
1. On the Home screen, tap Settings -> Network & internet-> Wi-Fi.
2. Move the Wi-Fi switch to ON, the tablet starts searching for available wireless LANs.
3. Select the desired Wi-Fi network from the list. If the chosen network is open, you can connect directly. A password may be required for secured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

Disconnect from a Wi-Fi Network

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

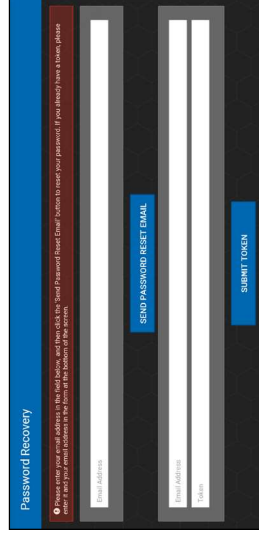
On-screen Buttons:

Recover Current Device Activation: If you have already activated your MAXIMUS PLUS, tap it to navigate to the following screen.



Input Serial number, Email address and Password, and then tap “SUBMIT” to sign in and go to sign in.

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



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

3. Tap “RUN DIAGNOSTICS” to launch diagnostics.

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On-screen Buttons:

Sign Out: Tap it to log out the system.

Update Profile: Tap it to modify personal information.

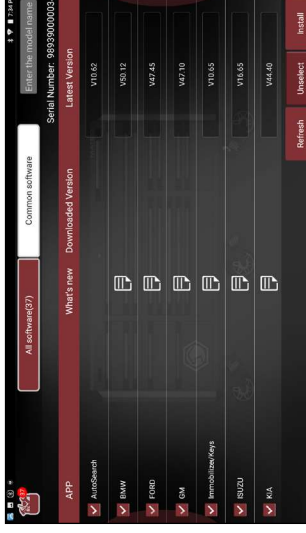
Update App: If a newer App version is detected, this option will appear on the screen. Tap it to keep synchronized with the latest version. Once updated, this option will disappear (*Note: To perform this function, a stable network signal is required).

4. Tap “” 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 "Update" to enter the update center.



Make sure all brands are selected, tap "Update" to start updating. Tap 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 MAXIMUS PLUS: Diagnostics and Toolbox.



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

Alternatively, you can also tap  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 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 MAXIMUS PLUS: Diagnostics and Toolbox.

4.3.1 Diagnostics

It mainly includes the following items:

| | | |
|----------------|-----------------|---|
| Automotive | MaxVIN | Configures the MAXIMUS PLUS tablet as a diagnostic tool exclusively for passenger cars. MaxVIN and Manual Diagnosis are supported. |
| | 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. |
| Service Resets | Vehicle Voltage | Performs a check of the vehicle's battery to ensure the system is operating within acceptable limits. |
| | | To perform all kinds of common repair & maintenance items, including electronic throttle position reset, ABS bleeding, oil lamp reset and DPF regeneration etc. |

| | |
|-------------------|---|
| Motorcycle | Configures the MAXIMUS PLUS tablet as a diagnostic tool exclusively for motorcycles. |
| Previous Sessions | When a vehicle diagnosis is performed, MAXIMUS PLUS records the detailed diagnostic information. This function provides a quick access to the previously tested vehicles. Testing can be resumed from the previous operation without starting from scratch. |

4.3.2 Toolbox



It mainly includes the following items:

| | |
|--------------|--|
| Maximus Fix | This module 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. |
| Tech 2 Tech | This option aims to help repair shops or technicians launch instant messaging and remote diagnosis, making the repair job getting fixed faster. |
| Saved Report | Includes Health report, Recorded Data, Remote Report, Data Samples and ROXIE Reports. |
| Feedback | This item allows you to feedback your diagnostic problems to us for analysis and troubleshooting. |

| | |
|--------------|---|
| Update | To update vehicle diagnostic software and APK. |
| Applications | ADAS Allows you to perform the ADAS calibration operations. |
| | TPMS Database A tutorial on how to perform TPMS operations. |
| | Videoscope To check unseen or unreachable parts or components. |
| | MaxDrive Allows you to synchronize and review the data stored on the MaxDrive dongle. |
| | MaxBattery To test whether vehicle's battery is good or not. |
| Settings | To make some system settings, including VCI Management, MD Printer Connection, Shop Information, Icon Size, Vehicle Voltage, Hide/Remove Software and Backup/Restore 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 to print the current screen. To perform printing, you need to purchase an extra Wi-Fi printer separately. |
|  Exit Session | Tap to exit the current diagnostic session. |

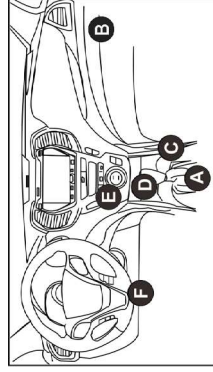
5 Start Diagnostics

5.1 Connections

5.1.1 Preparation

- Turn on the vehicle power supply.
- Vehicle battery voltage range should be 11-14V and working voltage of MAXIMUS PLUS is 5V.
- Find the vehicle's DLC port.
 1. For Passenger Cars,

The DLC (Data Link Connector or Diagnostic Link Connector) is the standardized 16-cavity connector where diagnostic code readers interface with the vehicle's on-board computer. The DLC 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.



2. For Motorcycles,

Refer to the motorcycle's service manual for the exact location.

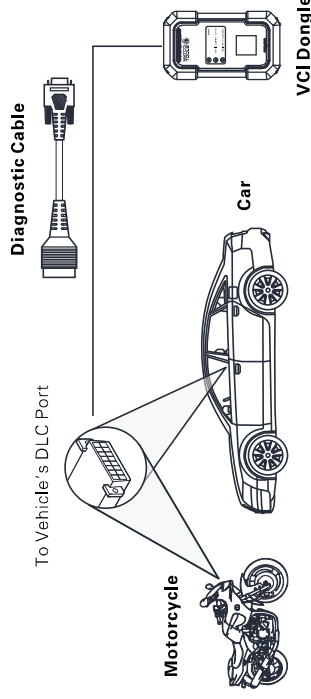
5.1.2 Vehicle Connection

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

- A vehicle equipped with an OBD II management system supplies both communication and 12V power through a standardized DLC.
- A vehicle not equipped with an OBD II management system supplies communication through a DLC connection, and in some cases supplies 12V power through the cigarette lighter receptacle or a connection to the vehicle battery.

Follow the steps mentioned below to connect OBD II vehicle:

1. Locate vehicle's DLC socket.
2. Connect one end of the diagnostic cable to the vehicle's DLC port, and the other end to the DB-15 diagnostic connector of the VCI dongle, and then tighten the captive screws.



3. Choose one of the two ways to obtain power from:

A. Power adapter: Connect one end of the included power adapter to charging interface of the tablet, and the other end to AC

outlet.

- B. Internal battery pack: For details on how to recharge the tablet, see "Chapter 3.1 Charging MAXIMUS PLUS."

5.2 Communication Setting

There are 2 ways available for MAXIMUS PLUS to communicate with the VCI device: BT(wireless) communication and USB cable connection. User can choose either of the following ways to establish communication.

5.2.1 Pairing up via Wireless (BT) communication

After the registration is successfully completed, the wireless communication between the tablet and the VCI device is automatically established and user has no need to configure it again.

5.2.2 USB cable connection

1. Connect one end of the USB cable (optional) to the Data Transmission port of the VCI device.
2. Connect the other end to the USB port of the tablet. The power indicator of the VCI device lights up.

**Note: The USB connection provides the most stable and fastest communication. When all the communication methods are applied at the same time, the MAXIMUS PLUS system will use the USB communication as the default priority.*

5.3 Start Diagnostics

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

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



5.3.1 MaxVIN (VIN SCAN)

Through simple wireless (BT) communication between the MAXIMUS PLUS tablet and VCI, 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.

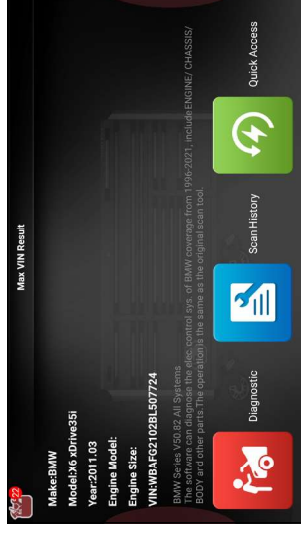
The vehicle information page lists all historical diagnostic records of the vehicle, which lets the technician have a total command of the vehicle faults. In addition, a quick dial to manual diagnosis and diagnostic function are also available on this page for reducing the roundabout time and increasing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

*Notes:

- Before using this function, please make sure the VCI is properly connected to the vehicle's DLC. For detailed connection, see Chapter 5.1.2 "Vehicle Connection".
- A stable network connection is required for this function.

Follow the steps below to proceed.

1. Tap "MaxVIN": If the VCI dongle does not pair with the tablet before, the following screen will appear.



- Tap "Diagnostic" to start a new diagnostic session.
- Tap "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".

*Note: If the VCI was once used with other devices, you need to cancel the pairing of the VCI first via either one of the following ways:

- On the Android's home screen, tap "Settings" -> "Bluetooth" -> Choose the desired VCI from the Paired list. Tap "⚙️", and then tap "FORGET" to unpair it.
- Go to "Toolbox", tap "Settings" -> "VCI Management" -> "Deactivate matching".

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



- Tap "View record" to view the details of the current diagnostic report.
- To perform other functions, tap "Quick access" to directly go to the function selection screen. Choose the desired one to start a new diagnostic session.

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



There are two options available to enter VIN: Camera Scan and Manual Input.

a) Camera Scan:

- Tap “”, the following screen will appear:



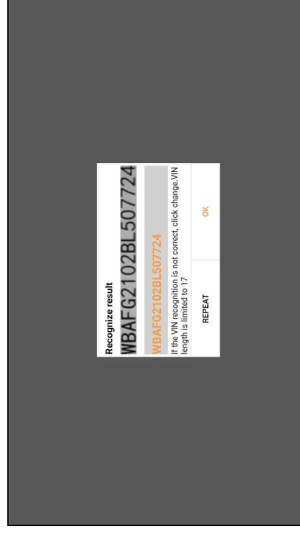
Place the VIN inside the viewfinder rectangle to scan it. The most recognizable location for this number is in the top left corner on the vehicle's dashboard. Other locations include the driver's door or

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post, and the firewall under the hood.

- If the ambient light is too weak, please turn the camera flash on.
- If you have scanned the VIN of the vehicle, tap VIN record icon to select it from the record list.
- In case the tablet failed to identify it, tap to enter it manually.

After scanning, the screen automatically displays the result.



- If the VIN scanned is incorrect, tap the result field to modify it and then tap “OK”. If the VIN exists on the remote server, the system will enter the vehicle information screen.

- To scan it again, tap “REPEAT”:

b) Manual Input:

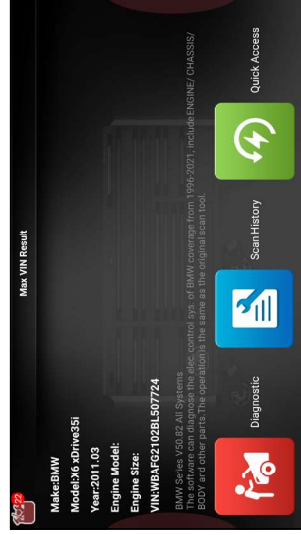
In this mode, you need to input the VIN manually.

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.

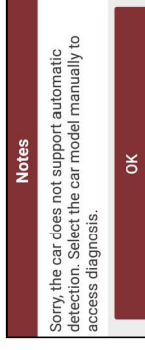
*Note: In general, vehicle identification numbers are standardized - all contain 17 characters. VIN characters may be capital letters A through Z and numbers 1 through 0; however, the letters I, O and Q are never used in order to avoid mistakes of misreading. No signs or spaces are allowed in the VIN.

Input the VIN, and tap "OK" to start decoding the vehicle VIN.

- 1). If the scanned or entered VIN can be found from the server database, the following screen will appear:



- Tap "Diagnostic" to start a new diagnostic session.
 - Tap "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".
 - To perform other functions, tap "Quick access" to directly go to the function selection screen. Choose the desired one to start a new diagnostic session.
- 2). If the scanned or entered VIN can not be retrieved from the server database, the following pop-up message displays:

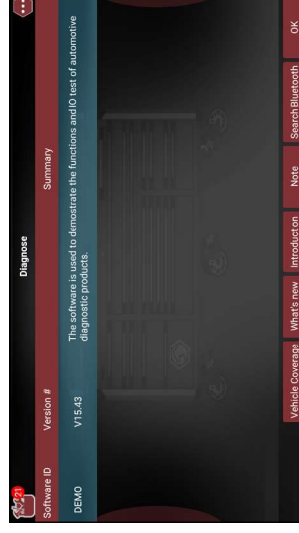


In this case, select the vehicle model manually to perform vehicle diagnosis.

5.3.2 Manual Diagnosis

Take Demo as an example to demonstrate how to diagnose a vehicle.

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



On-screen Buttons:

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

What's new: Tap to view the optimized items and enhancements.

Introduction: Tap to check the software function list.

Note: Tap to read some precautions on using the current diagnostic software.