



USER MANUAL

VD800 Smart Diagnostic System



Safety Information

To ensure your safety and prevent damage to the device or vehicle, please carefully read and follow all instructions in this manual before use.

When operating the device, always verify proper testing procedures and strictly adhere to the instructions provided. As automotive electrical systems may vary, you must assess potential risks and ensure a safe testing environment.

Always observe all safety warnings, use appropriate tools, and disconnect power sources when necessary. Improper operation may result in personal injury, equipment damage, or voided warranty.

Safety Messages

Safety messages use standardized signal words to indicate hazard levels and prevent injuries or equipment damage:



DANGER

Will result in death or serious injury if ignored

Indicates an immediately life-threatening hazard.



WARNING

Could result in death or serious injury if ignored

Indicates a potentially dangerous situation.

Safety Instructions

This manual covers known safety hazards, but cannot anticipate all possible risks. You are responsible for ensuring safe operating conditions and procedures.



DANGER

- Always ventilate the service area when engine is running or use building exhaust removal system if available
- Carbon monoxide is odorless and deadly - can cause loss of consciousness or death



WARNINGS

- Always conduct testing in a safe, controlled environment.
- Wear ANSI-approved safety goggles during all operations.
- Keep all objects away from moving or hot engine components.
- Ensure proper ventilation to avoid toxic exhaust fumes.
- Secure the vehicle in PARK (automatic) or NEUTRAL (manual) with parking brake engaged.
- Place wheel chocks and never leave the vehicle unattended during tests.
- Exercise extreme caution around ignition systems - hazardous voltages are present.
- Maintain an ABC-rated fire extinguisher within immediate reach.
- Never connect/disconnect test equipment with ignition on or engine running.
- Keep all test equipment clean, dry and free from contaminants.
- Never operate test equipment while driving - focus solely on testing.
- Strictly follow the vehicle service manual's diagnostic procedures.
- Verify full battery charge and secure DLC connections before testing.
- Never place test equipment near the distributor due to EMI risks.

Legal Information

Trademarks

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Disclaimer & Liability Statement

Product Documentation Notice

All illustrations, specifications, and technical data in this manual are for reference only and subject to change without notice.

For the latest documentation, visit: www.vdiagtool.com/support/downloads

Limitation of Liability

VDIAGTOOL expressly disclaims all liability for:

- Any direct, indirect, incidental, or consequential damages
- Loss of profits or business interruption
- Product modifications or unauthorized use

This manual does not:

- Modify existing purchase/lease agreements
- Create additional liabilities for VDIAGTOOL
- Constitute additional product warranties

IMPORTANT:

Always consult this manual before operation, with special attention to all safety warnings. VDIAGTOOL reserves the right to modify product specifications at any time.

Product Support & Training Resources

Technical Support

- Official Website: www.vdiagtool.com
- Support Email: support@vdiagtool.com
- US Hotline: +1-213-355-7171
- Online Form: <https://www.vdiagtool.com/support/tech-support>

Training Videos

Free product operation videos:

1. Visit Training Center: <https://www.vdiagtool.com/support/training-center>
2. Select **Diagnostic Tools** category
3. Watch model-specific tutorials

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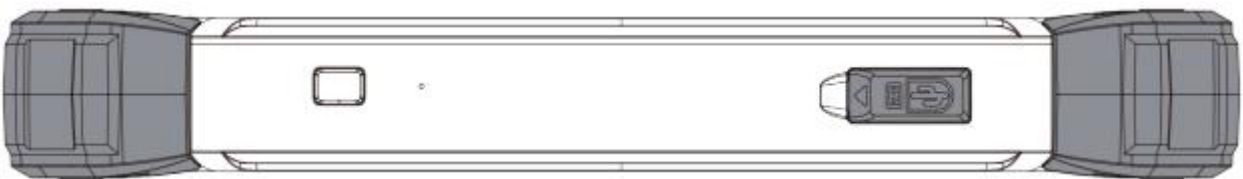
1. Introduction

The VDIAGTOOL VD800 BT diagnostic tool is designed to interface with a vehicle's Electronic Control Unit (ECU), enabling users to retrieve diagnostic trouble codes (DTCs), access real-time data streams, and perform active tests (bi-directional controls). It supports comprehensive diagnostics across multiple vehicle systems—including engine, transmission, anti-lock braking system (ABS), SRS (airbag), chassis, body, and more.

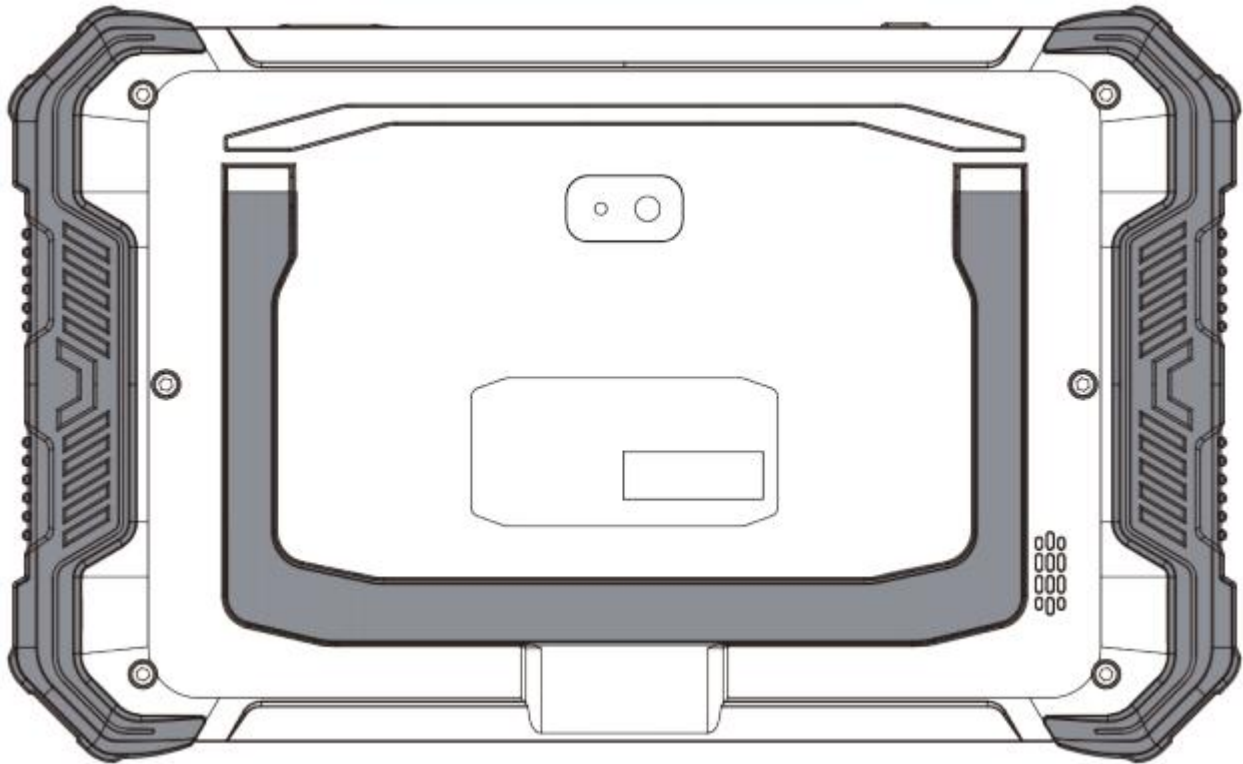
The tool allows simultaneous graphing of up to eight live data parameters on a single screen for efficient analysis and also provides detailed ECU information.

This chapter offers an overview of the diagnostic tool's core features, covering control buttons, data ports, battery pack, and power options. Technical specifications are provided at the end of the chapter.

1.1 Data and Power Connections



1.2 Battery Pack and Stand



1.3 Power Sources

The VDIAGTOOL VD800 BT diagnostic tool can be powered by either of the following sources:

- Internal Battery Pack
- AC Power Supply

1.4 Internal Battery Pack

The tool is equipped with an internal rechargeable battery that supports approximately 3.5 hours of continuous operation on a full charge.

The battery charges automatically when the device is connected to the AC power supply and a functioning AC power outlet.

1.5 AC Power Supply

The diagnostic tool can also be operated via a standard AC outlet using the provided AC power adapter. Connect the output cable of the adapter to the DC input jack located on the top of the device.

To ensure safety and compatibility, use only the original AC power supply included with the tool.

1.6 Technical Specifications

Item	Description / Specification
Display	8-inch touch screen, 1280 × 800 resolution
Operating System	Android 10.0
Processor	Quad-core, 1.5 GHz
Memory	4GB RAM + 64GB ROM
Connectivity	Bluetooth 4.1, Wi-Fi (2.4GHz & 5GHz), Type-C
Sensor	Gravity accelerometer, Ambient light sensor
Audio	Built-in microphone
Speaker	Built-in speaker
Camera	8-megapixel
Battery Capacity	DC 7.3V, Rechargeable Li-ion, 5000mAh
Tested Battery Life	3.5 hours (continuous operation)
Power Adapter	Input: 100–240V AC Output: 5.0V= 3.0A
Operating Voltage	9V – 36V
Dimensions	264 × 154 × 35.5 mm (10.39 × 6.06 × 1.39 in)
Net Weight	1.06 kg (2.34 lbs)
Gross Weight	2.25 kg (4.96 lbs)
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-10°C to 50°C (14°F to 122°F)
Operating Humidity	<90% RH (non-condensing)

1.7 What's In The Box

Item	Quantity
VD800 BT Diagnostic Tool	1
VD800 BT VCI Box	1
Type-C to Type-A Adapter (for PC Connection)	1
Type-C to Type-C Charger Cable	1
Power Adapter (US Standard)	1

Power Adapter (EU Standard)	1
Power Adapter (UK Standard)	1
Color Retail Box	1
Quick Start Guide	1
Packing List	1
Protective Hard Case	1

2. Getting Started

Ensure the diagnostic tool is adequately charged or connected to an external power source (refer to [1.3 Power Sources](#) on page 2 for details).

Note:

The images and illustrations shown in this manual are for reference only and may differ slightly from the physical product.

Powering On, Off, and Force Restart

This section explains how to turn the VDIAGTOOL VD800 BT diagnostic tool on and off, as well as how to perform an emergency shutdown when necessary.

2.1 Powering On

To turn on the device, press and hold the power button (located on the top-right side) for 3 seconds. The tool will power on if the battery is sufficiently charged or if it is connected to the AC power adapter.

If the battery is completely drained, allow the device to charge for a few minutes before attempting to turn it on.

2.2 Powering Off

To turn off the device, press and hold the power button for more than 3 seconds. The diagnostic tool will shut down automatically.

Important:

Always terminate all vehicle communication **before** powering off the diagnostic tool. A warning message will appear if you attempt to turn off the device while it is actively communicating with the vehicle.

Forcing a shutdown during communication may cause errors in the vehicle's ECM on certain models.

Never disconnect the DB15 main cable while the tool is communicating with the vehicle ECU.

2.3 Emergency Shutdown

Under normal circumstances, always power off the device using the standard procedure described in [section 2.2](#). The emergency shutdown procedure should **only** be used if the diagnostic tool becomes unresponsive to button input or exhibits abnormal behavior.

To perform an emergency shutdown, press and hold the power button for **5 seconds** until the device powers off.

Important:

Using emergency shutdown during active communication with a vehicle ECU may cause ECU malfunctions on certain models.

3. Overview of the Diagnostic Tool

This chapter introduces the main diagnostic screen layout, key interface icons, and the Android system home screen along with its primary icons.

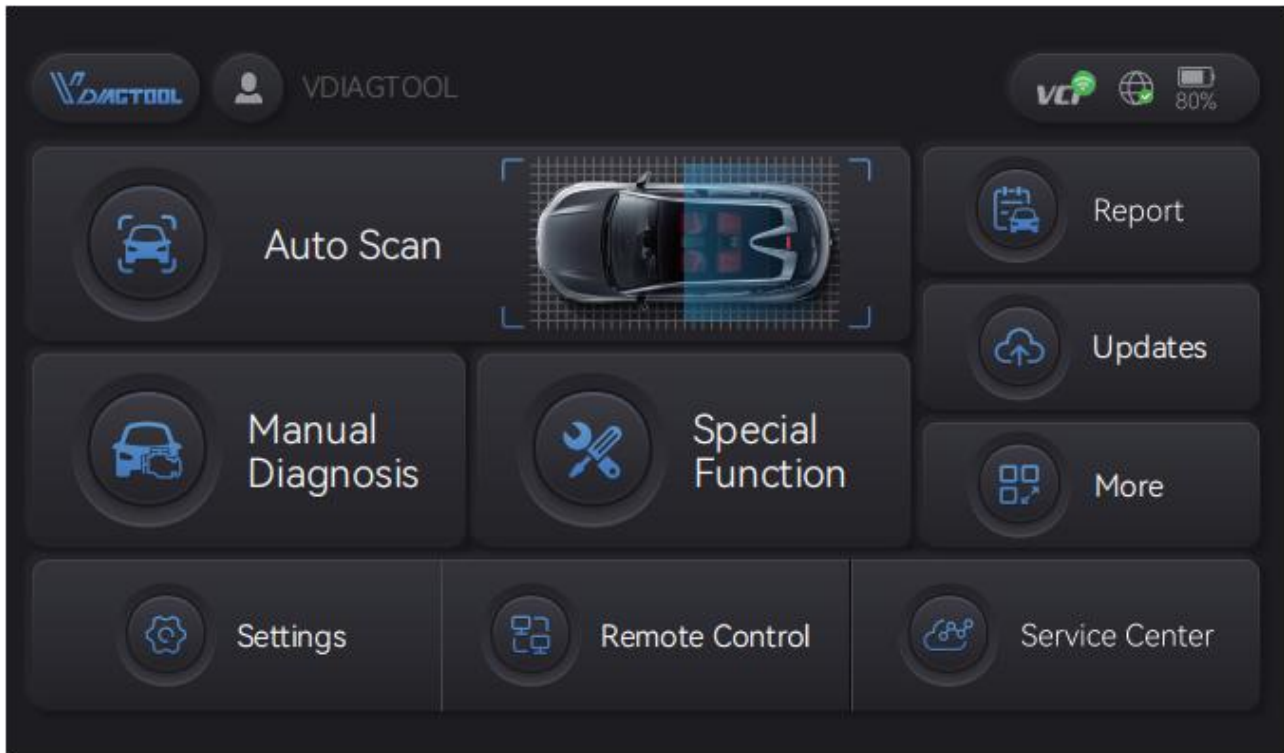
3.1 Diagnostic Screen Layout & Icons

Upon powering on, the diagnostic tool automatically launches the diagnostic application. The main diagnostic screen will appear once the program is loaded.

A hidden toolbar is located at the bottom of the screen. Swipe upward from the bottom edge to temporarily display the toolbar, which remains visible for 3 seconds.

This section illustrates the layout of the diagnostic screen and the icons available in the toolbar.

3.2 Diagnostic Screen Layout



3.3 Diagnostic Screen Icons

3.3.1 Auto Scan

Automatically identifies and decodes the vehicle's VIN, then performs a comprehensive diagnostic scan of all accessible electronic control modules.

3.3.2 Manual Diagnosis

Select this icon to access the diagnostic menu. From here, you can choose to identify the vehicle automatically by VIN, or manually specify the make, model, year, and other configurations. This section also provides access to the DEMO program and standard OBDII tests.

3.3.3 Special Function

This section provides access to commonly used vehicle maintenance and service functions, offering practical support for both DIY enthusiasts and professional technicians.

Note:

This section does not cover advanced features such as resets, relearns, matchings, adaptations, or initializations found in the diagnostic job menu. Please note that functions with the same name may have different vehicle coverage depending on whether they are accessed from the main menu or the diagnostic job menu.

3.3.4 Report

This section provides access to diagnostic reports, data playback, and data review functions.

3.3.5 Updates

This section enables you to download diagnostic software updates individually or in batch.

3.3.6 More

This section allows you to manage user accounts and workshop profiles (where applicable), check subscription status, view firmware information, access the endoscope tool, and open the user manual in PDF format.

3.3.7 Settings

This section enables configuration of the diagnostic software language, measurement units, and USB mode. It also provides access to OS settings, including volume and display brightness adjustment. Additionally, you can view application version, OS version, diagnostic tool serial number, and VCI number here.

3.3.8 Remote Control

Select this icon to launch TeamViewer for remote assistance. Ensure TeamViewer is in "ready to connect" mode before your scheduled remote session. The TeamViewer ID is displayed on the right, and the connection status is shown at the bottom left of the screen.

3.3.9 Service Center

This section provides contact information and official social media accounts for customer support and other inquiries.

3.4 Hidden Toolbar, Home Screen Layout & Icons

Swipe up from the bottom of the touchscreen to reveal the toolbar, which remains visible for 3 seconds. Tap the Home button on this toolbar to access the Android home screen of the diagnostic tablet.

The following sections describe the layout of the home screen and the functions of its primary icons.

3.4.1 Hidden Toolbar



Screenshot icon: Takes a screenshot on what's on the screen.



Volume Down icon: Decreases the speaker volume.



Back icon: Returns to the previous menu or screen.



Home icon: Returns to the Android home screen.



Task List icon: Displays all ongoing tasks. Swipe up the respective task screen to kill the task.



Volume Up icon: Press to increase the speaker volume.

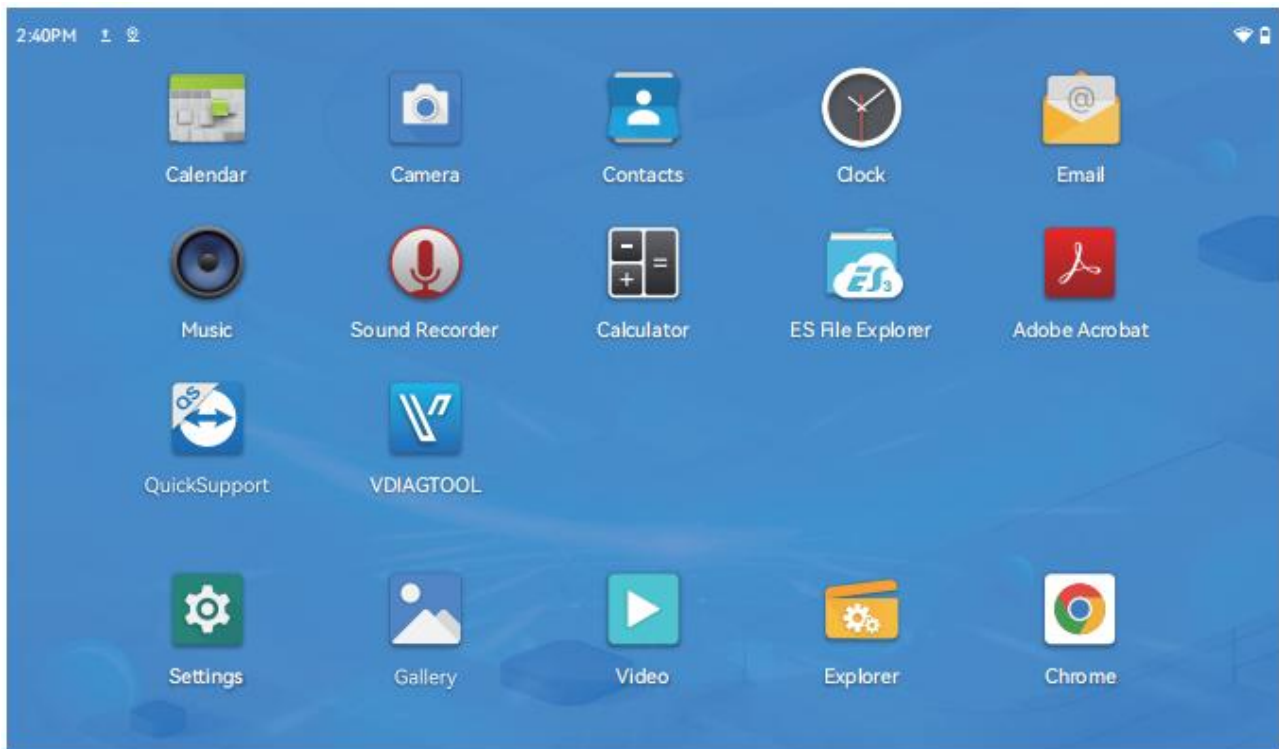


Diagnostic icon: Press to quickly launch the diagnostic application.



Screen Recorder icon: Press to start recording the screen and audio. Press again to stop recording.

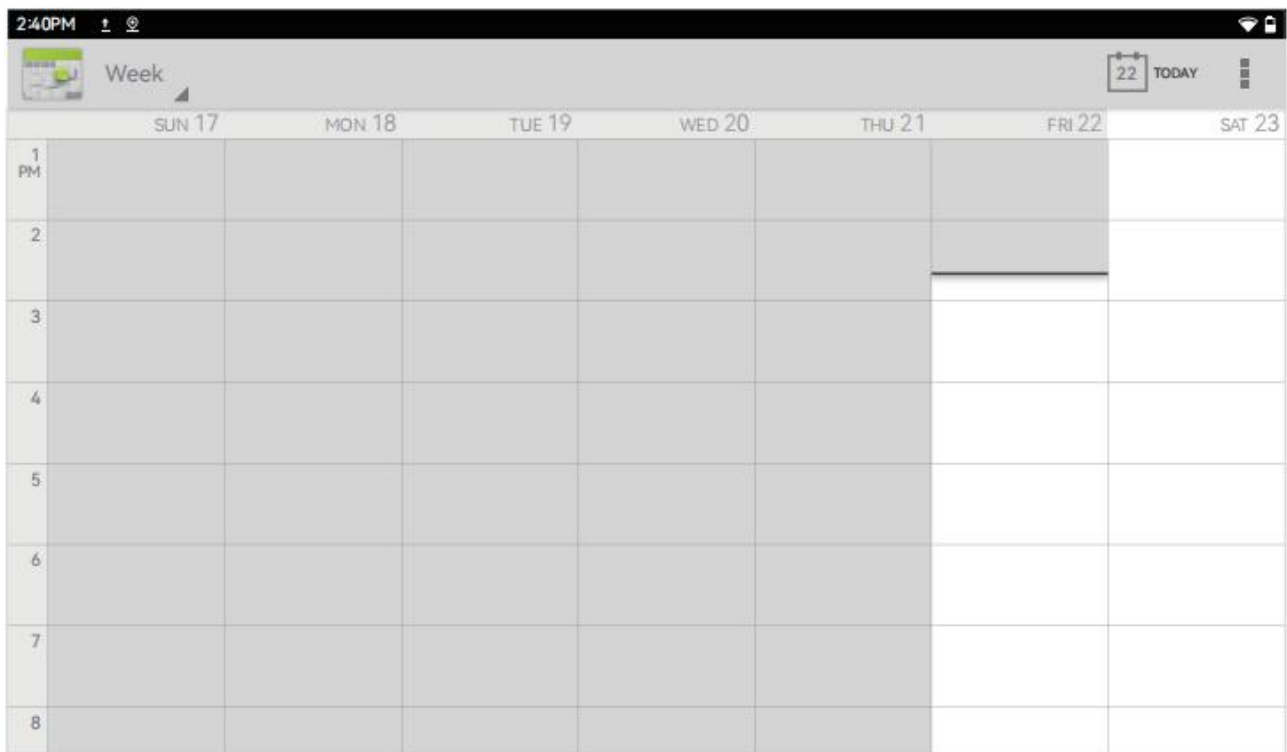
3.5 Home Screen Layout



3.6 Home Screen Icons

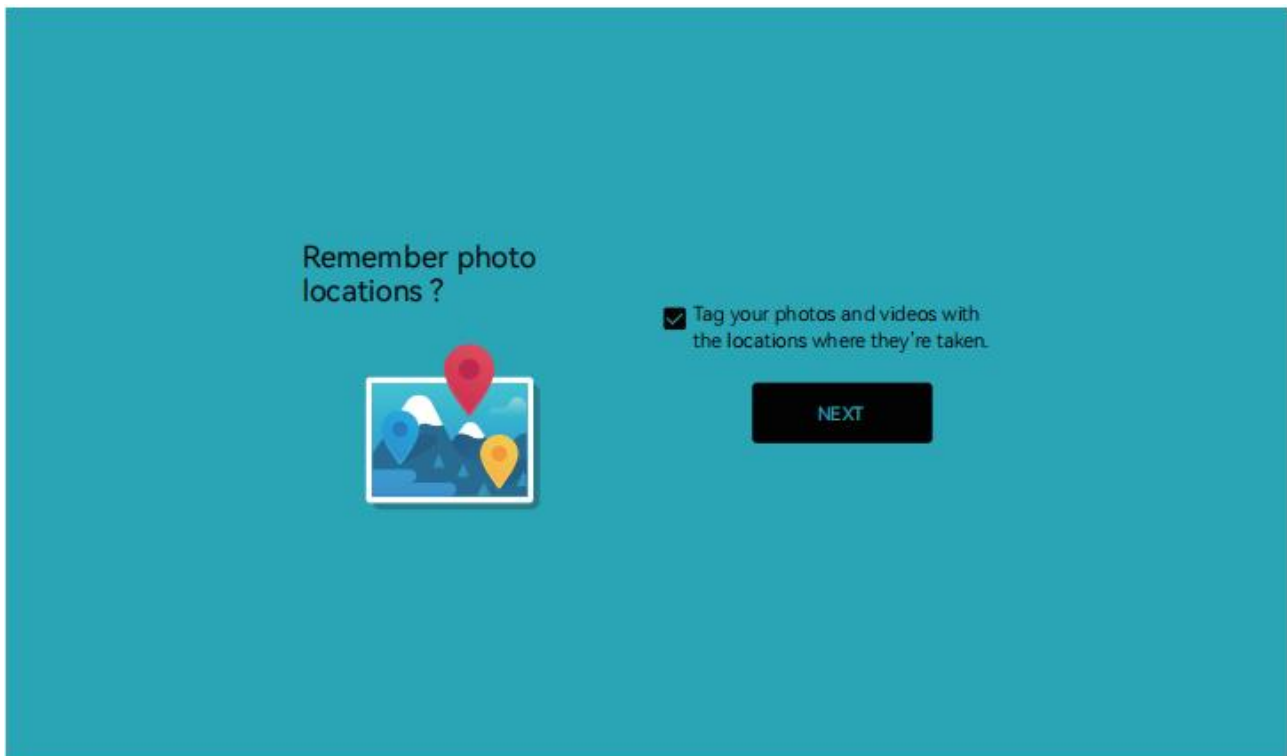
3.6.1 Calendar

Displays the calendar in day, week, or month view.



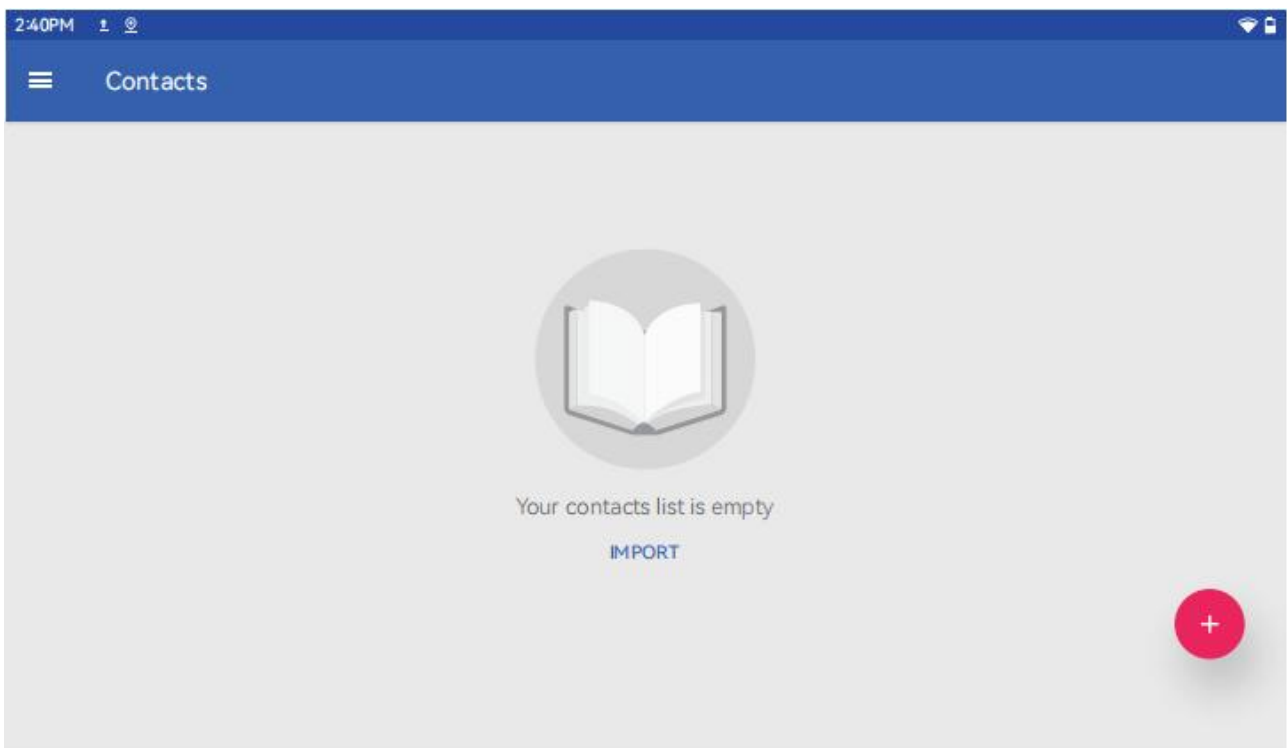
3.6.2 Camera

Activates the rear camera to capture images of vehicle components or issues.



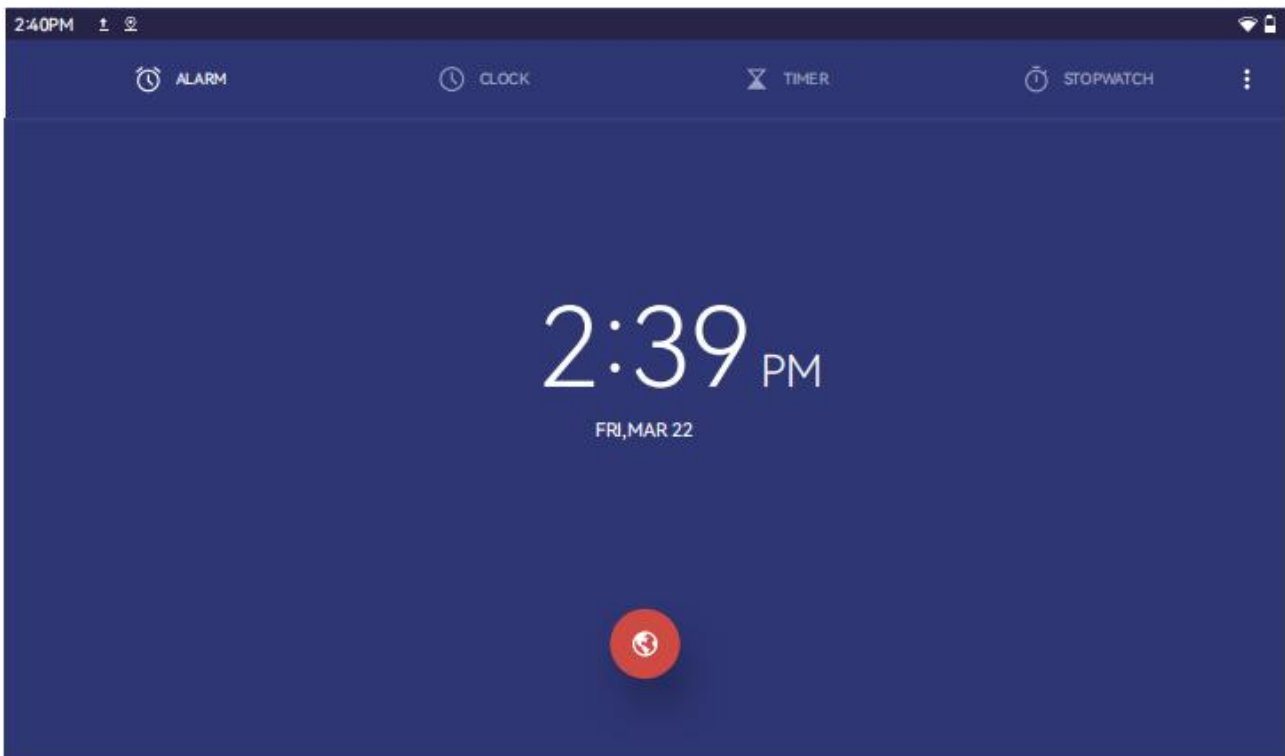
3.6.3 Contacts

Manage your contact list, add new contacts using the "+" icon, or import multiple contacts from a vcf file.



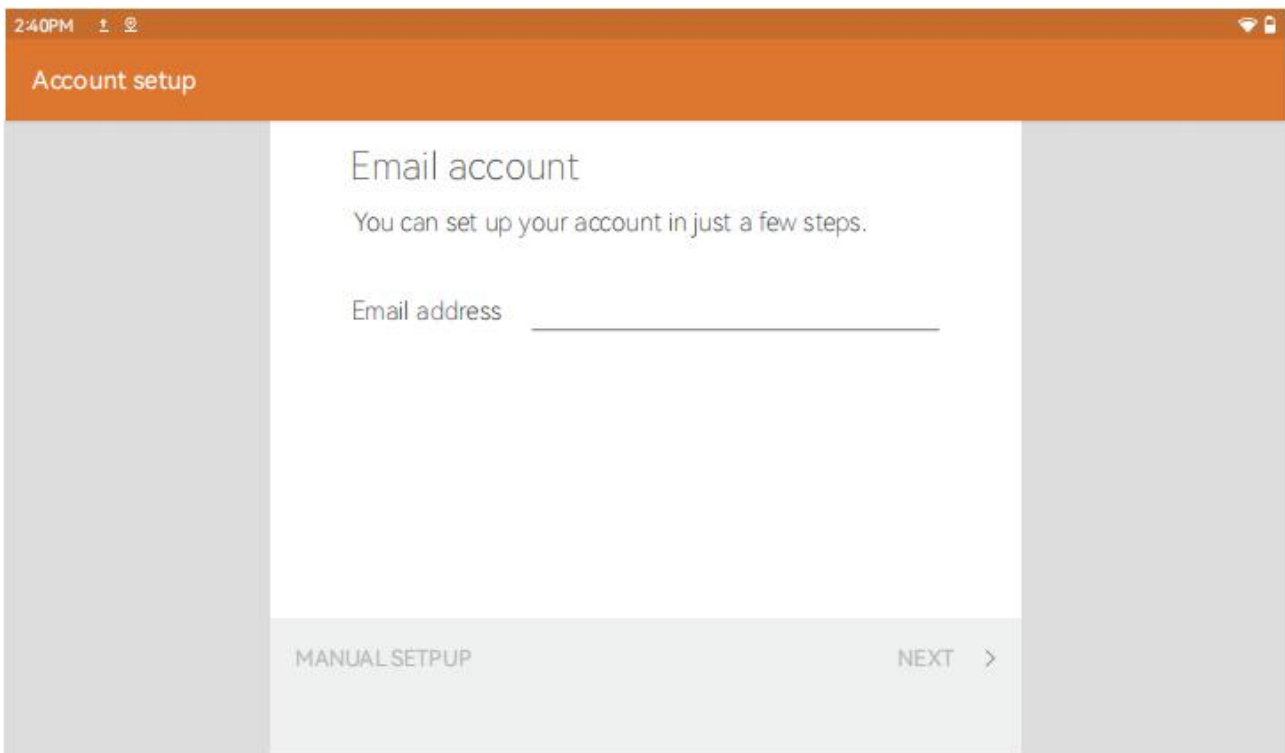
3.6.4 Clock

Set alarms, timers, use the stopwatch, or view the current time.



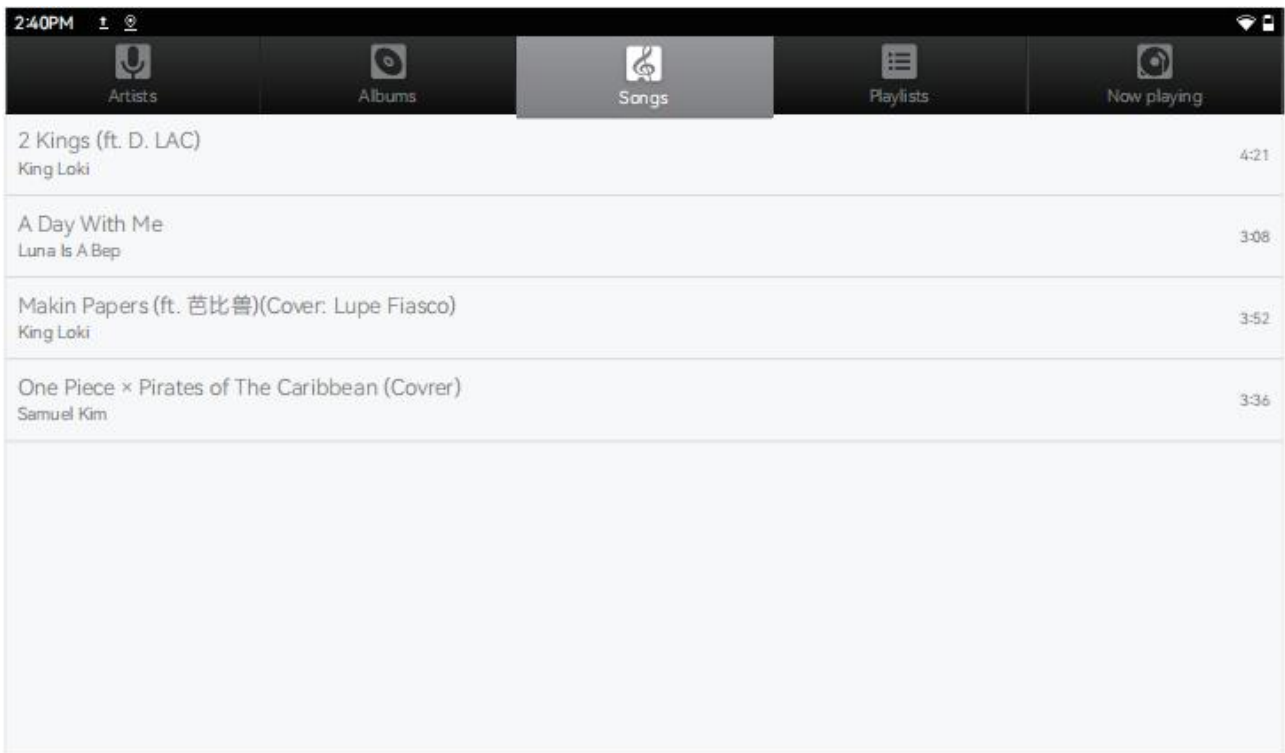
3.6.5 Email

Set up email accounts to send messages or share diagnostic reports.



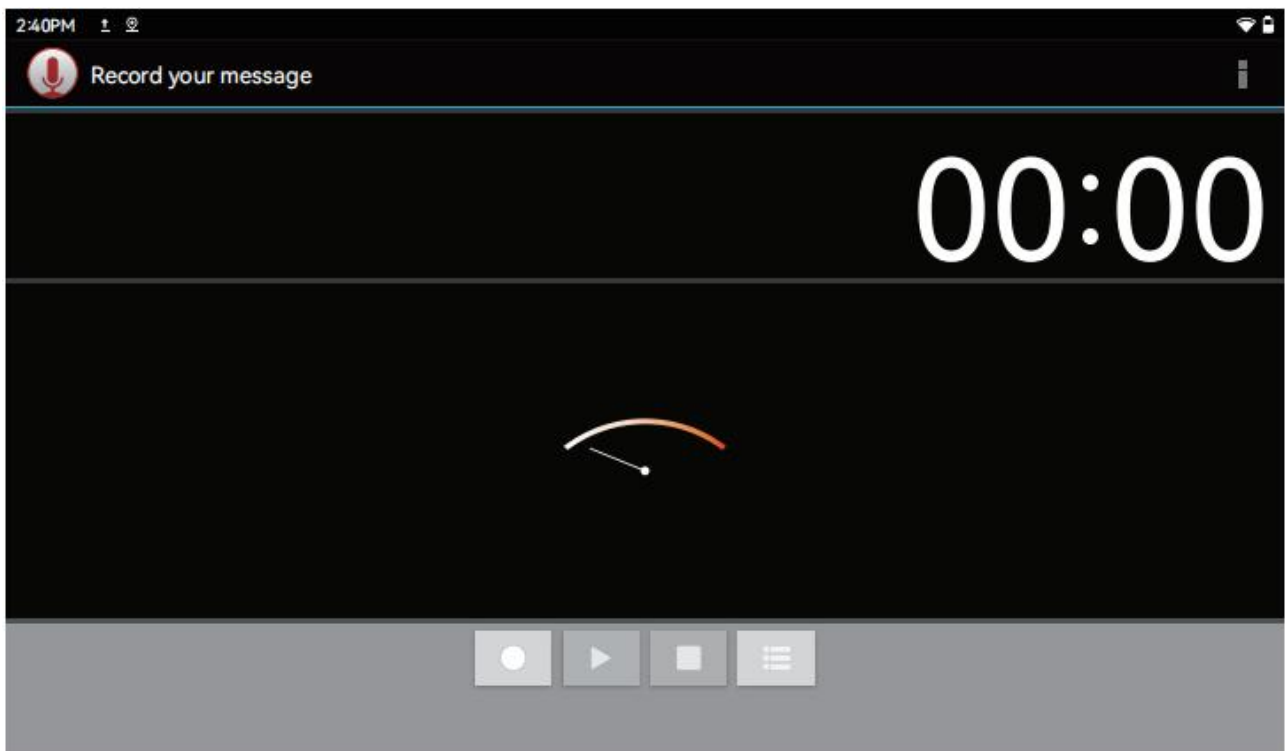
3.6.6 Music

Play songs, create playlists, and manage music by albums or artists.



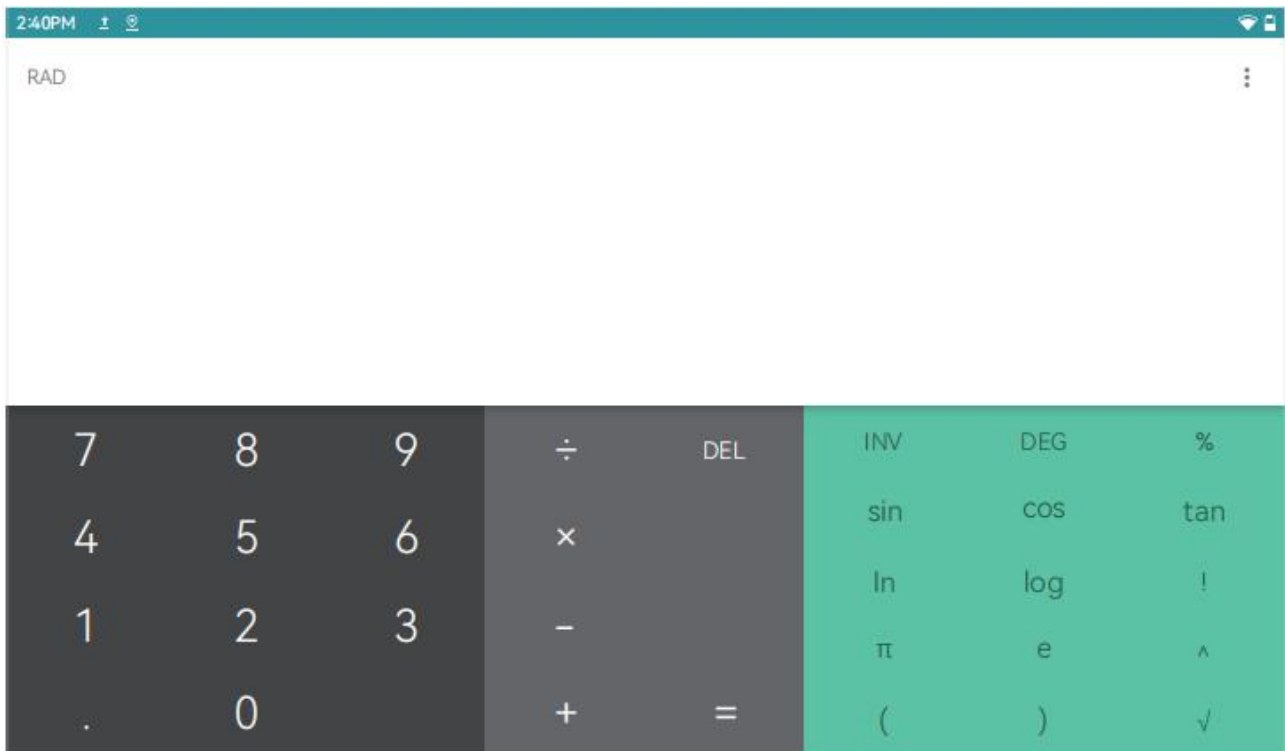
3.6.7 Sound Recorder

Record and play back audio messages.



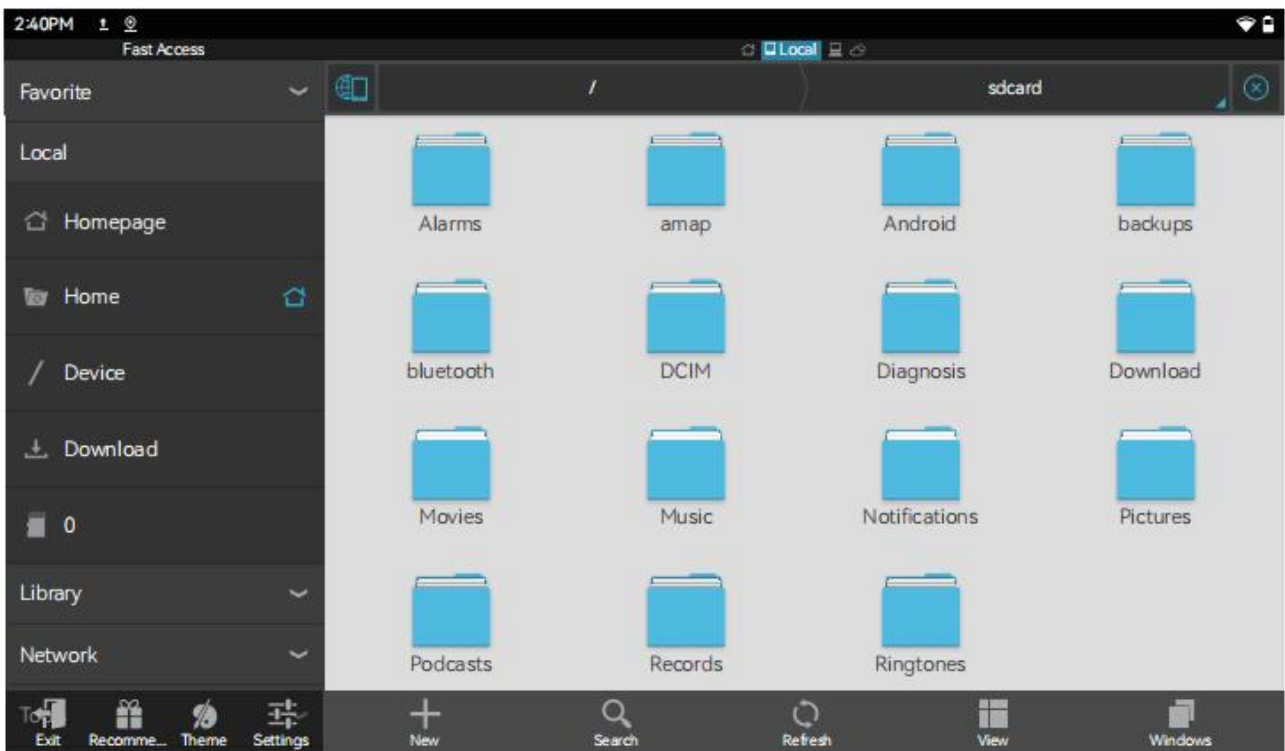
3.6.8 Calculator

Perform basic mathematical calculations.



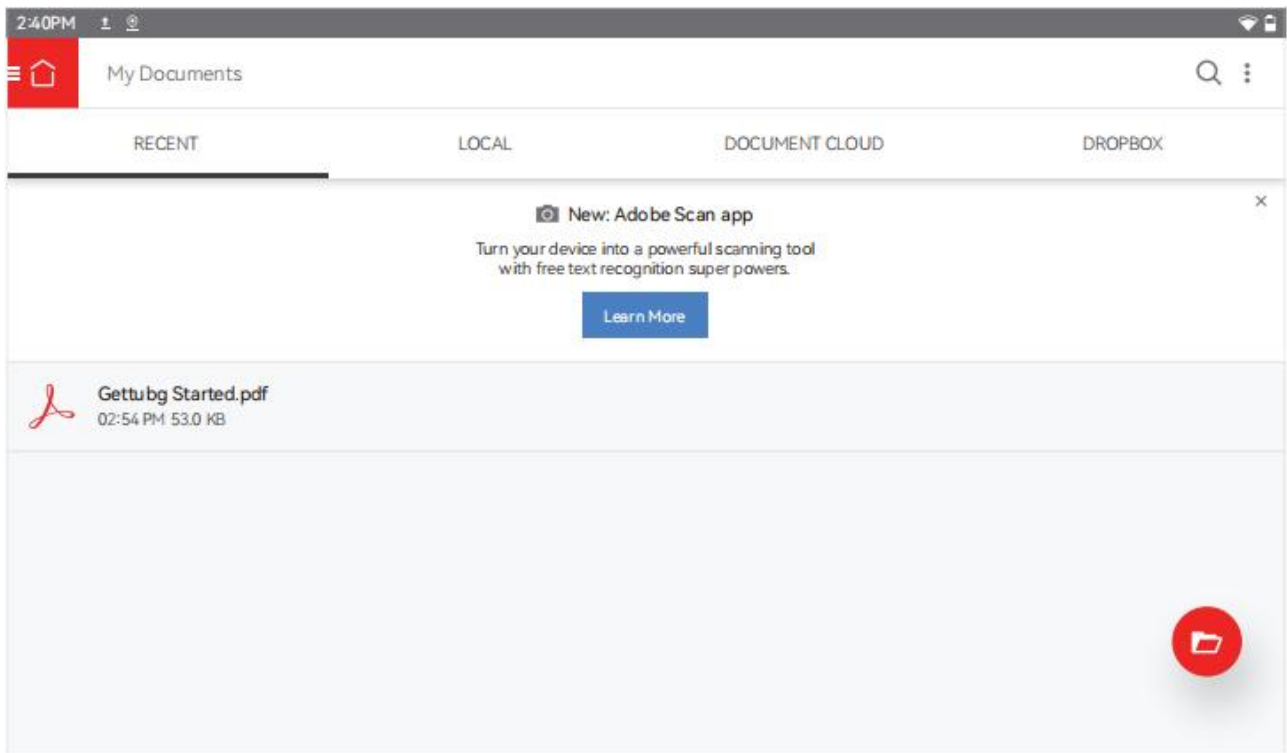
3.6.9 ES File Explorer

Manage documents, reports, and other files stored in the device memory.



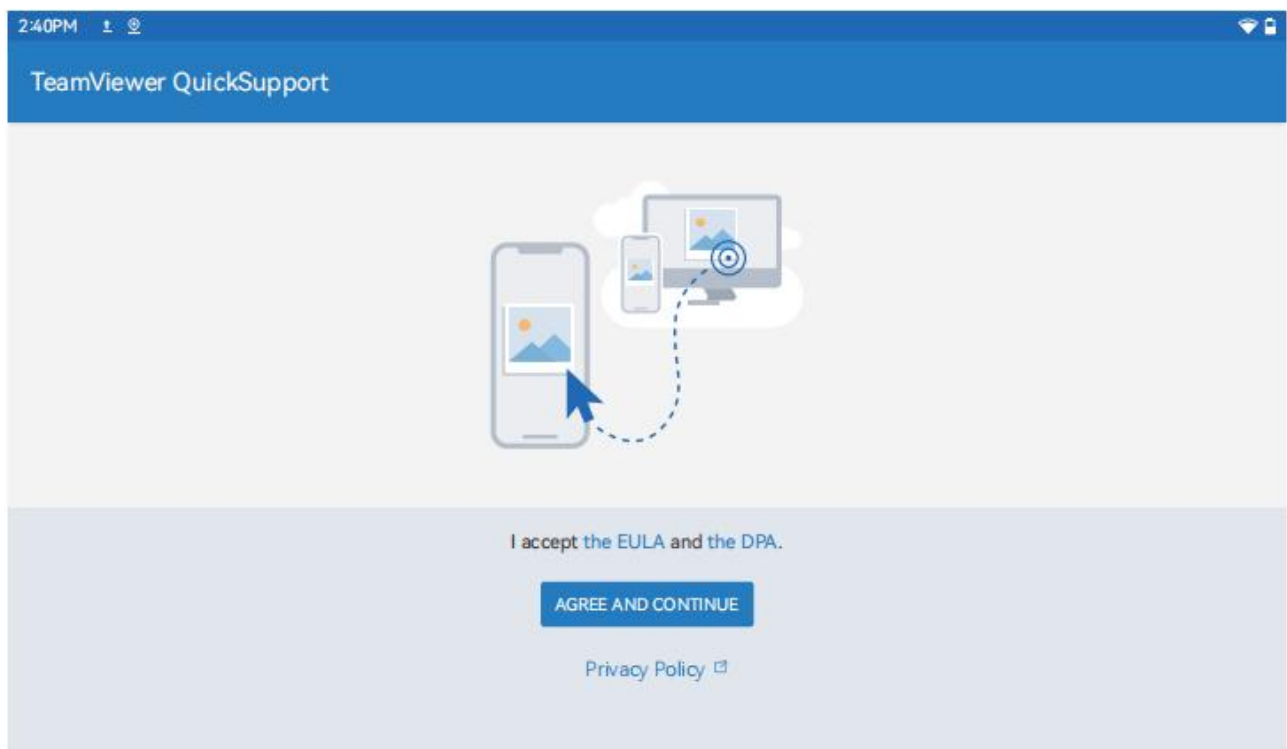
3.6.10 Adobe Acrobat

View and manage PDF files. Connect to Dropbox with your accounts.



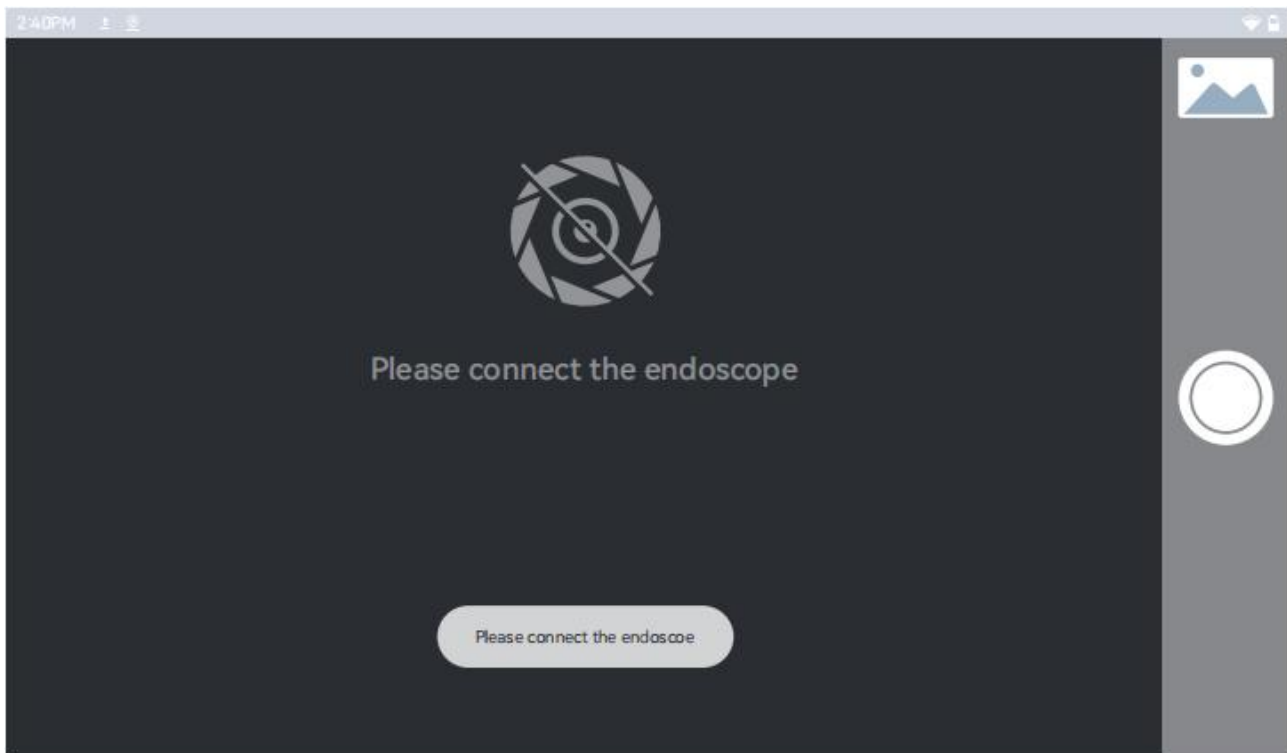
3.6.11 Quick Support

Allows our technical team to remotely control the tool to diagnose issues or provide guidance.



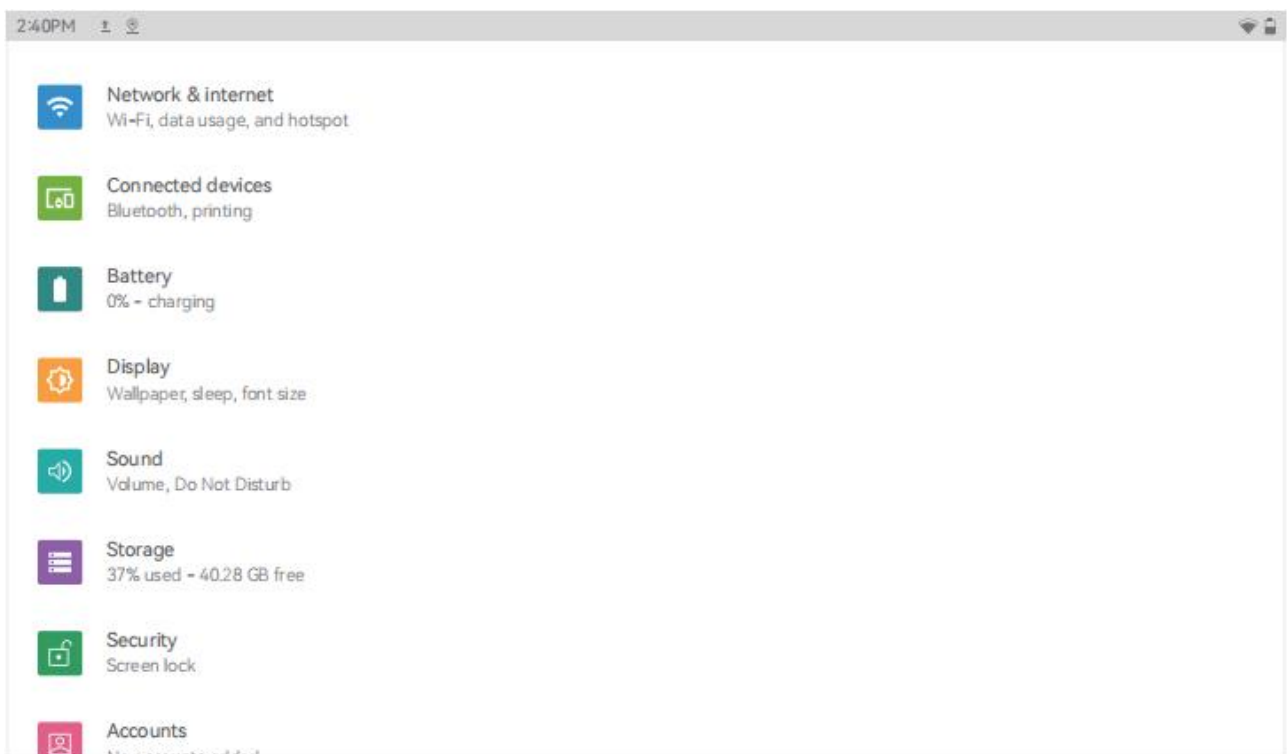
3.6.12 Endoscope

Use a connected endoscope for visual inspection. If no endoscope is connected, the built-in camera will activate automatically.



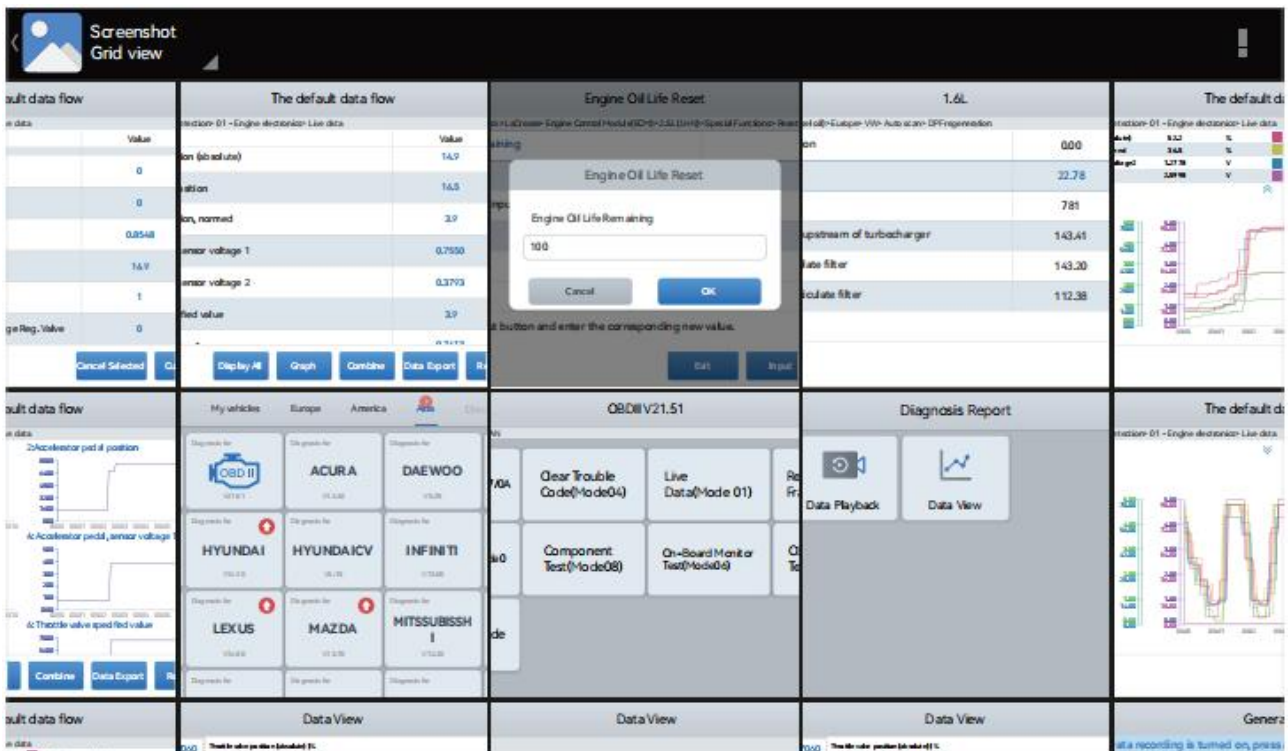
3.6.13 Settings

Configure system settings including Wi-Fi, battery, display, sound, and storage...



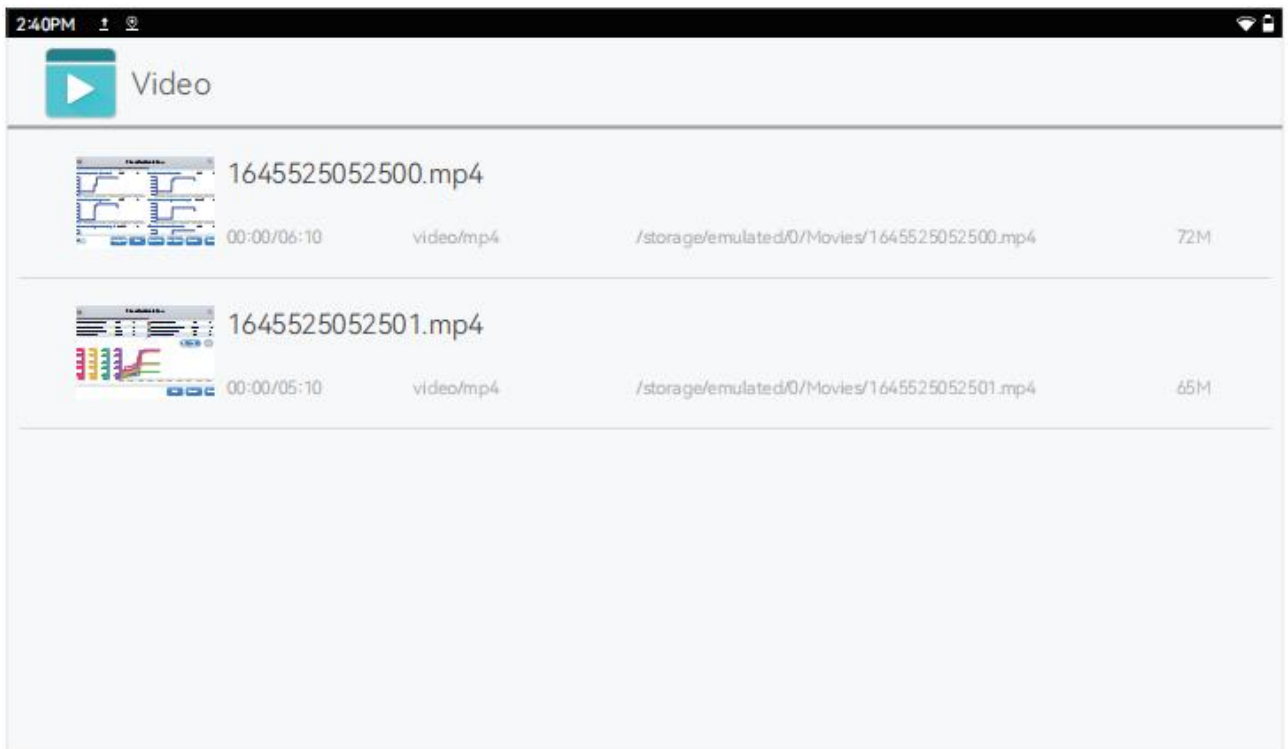
3.6.14 Gallery

View screenshots, camera photos, and screen recordings.



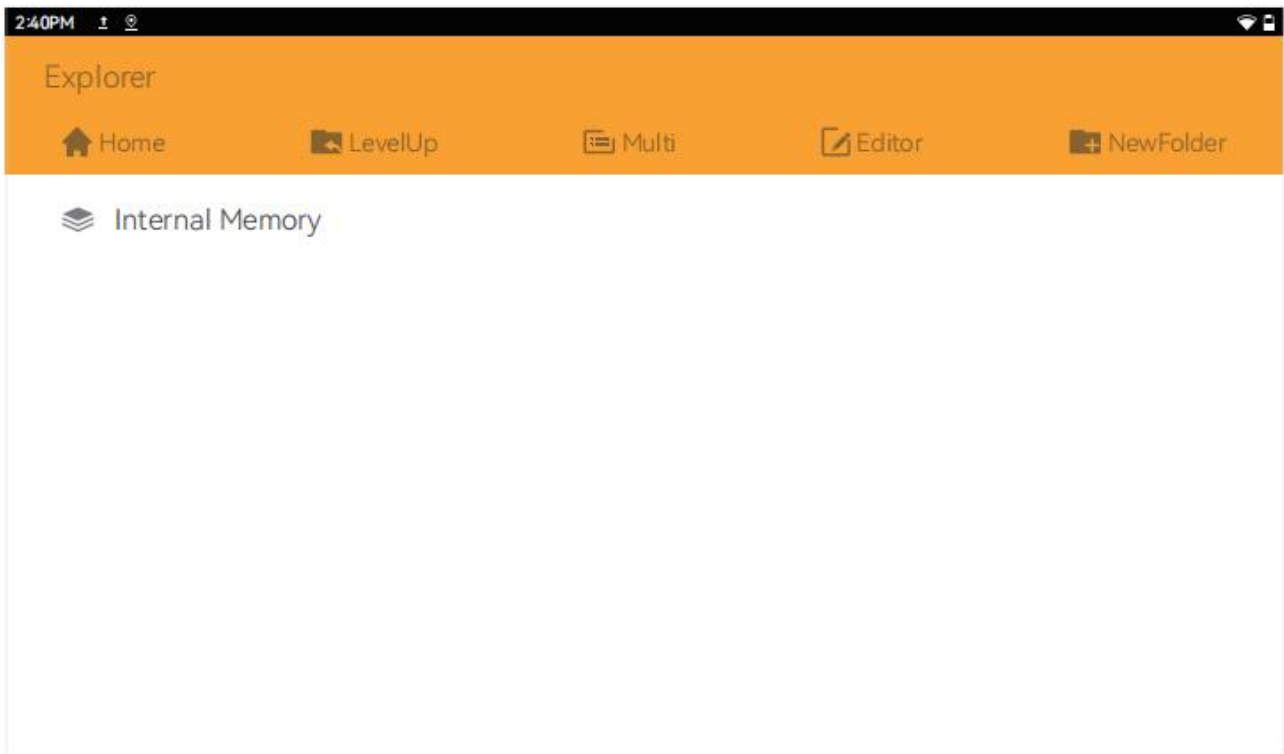
3.6.15 Video

Play recorded videos and screen recordings.



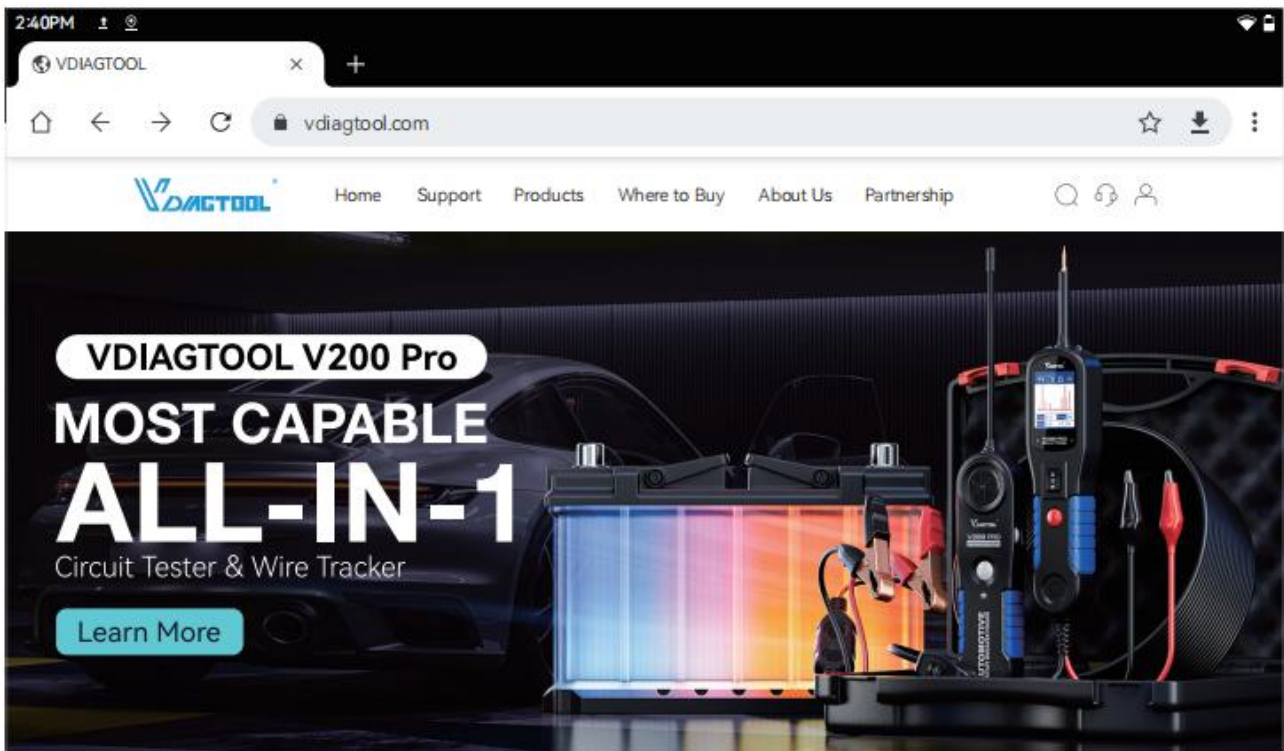
3.6.16 Explorer

Browse and manage files in internal memory.



3.6.17 Chrome

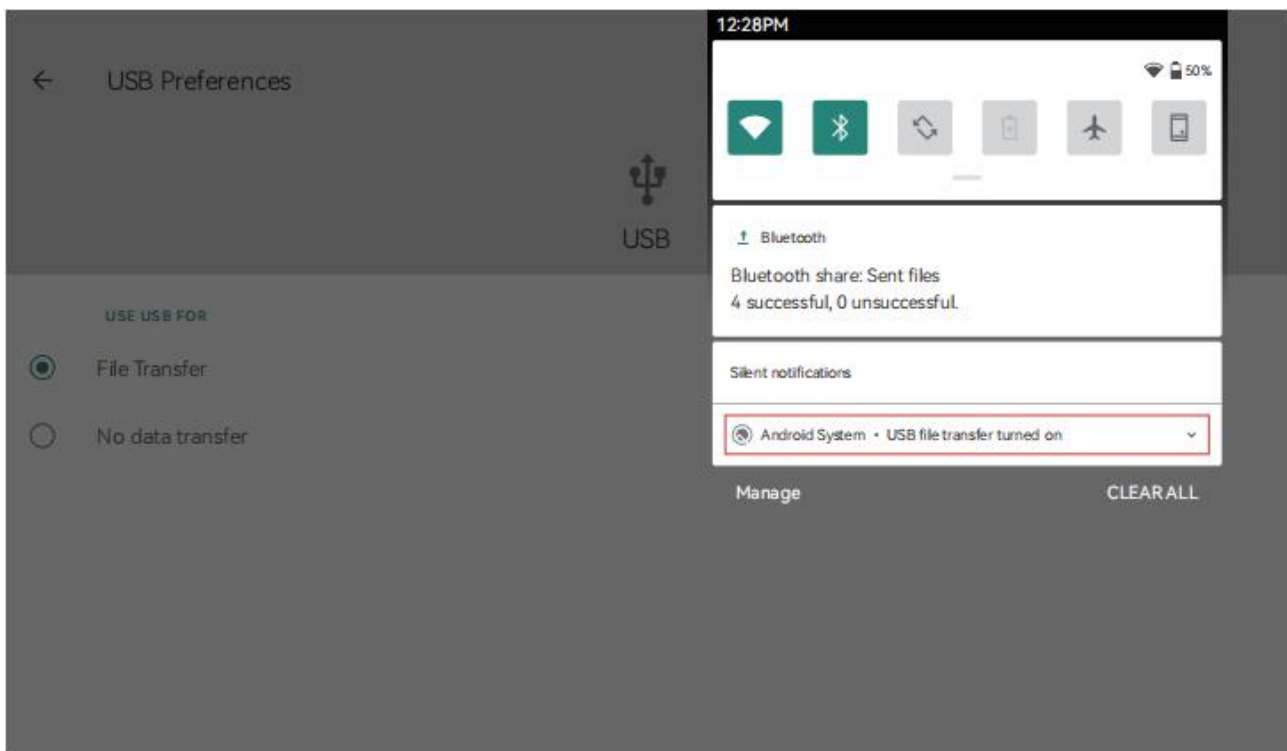
Browse the web to search for fault codes and other information.

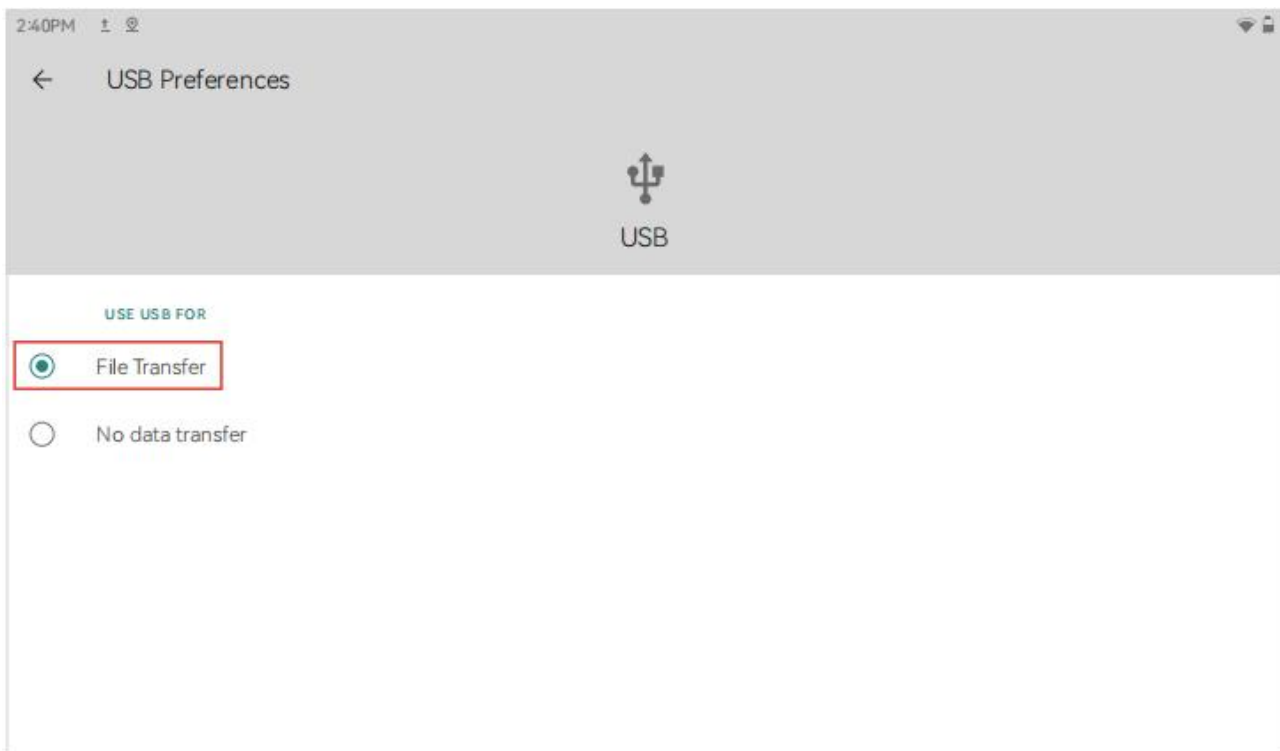


3.7 Data Transfer via USB Type-C

To transfer data between the diagnostic tool and a PC:

1. Connect the tool to a PC using the Type-C cable (to the device's Type-C port and the PC's USB port).
2. Swipe down from the top of the screen to open the notification panel and tap *Android System* → *Charging this device via USB*.
3. Select *File Transfer*.
4. On the PC, open VD800 BT to access files.

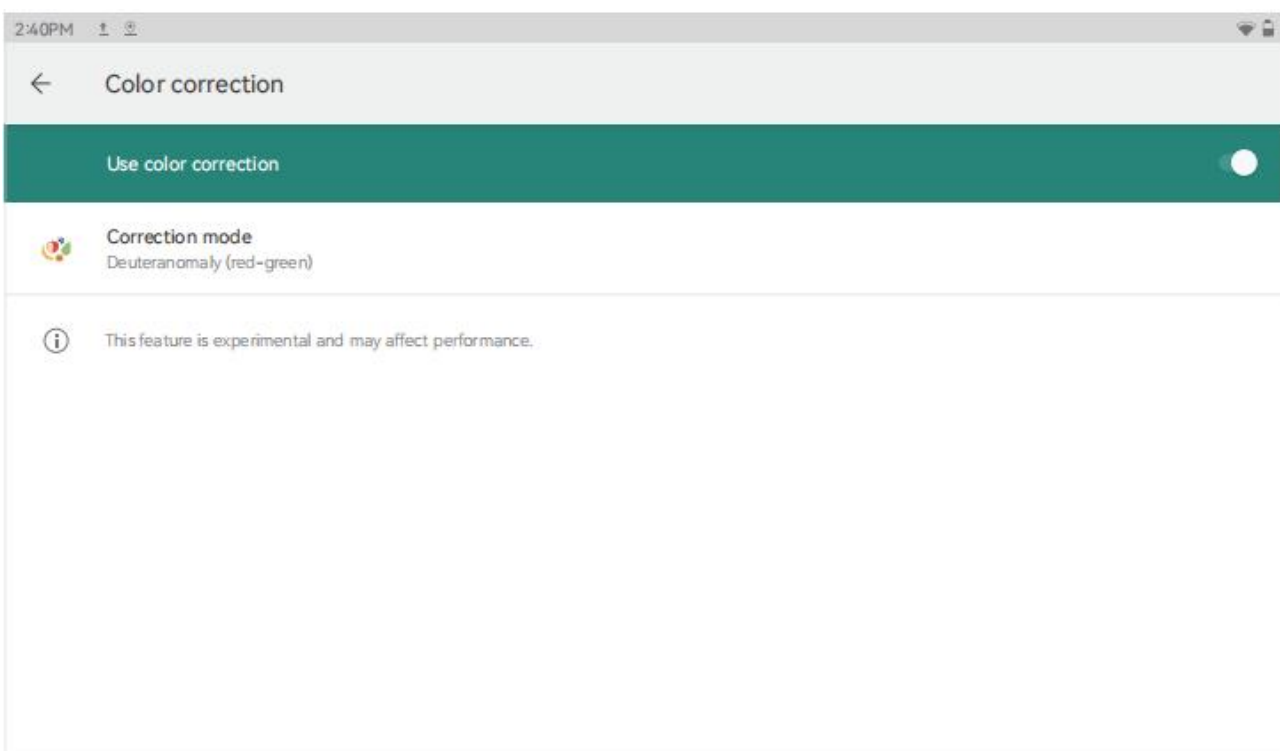




3.8 Red-Green Color Blindness Color Correction Mode

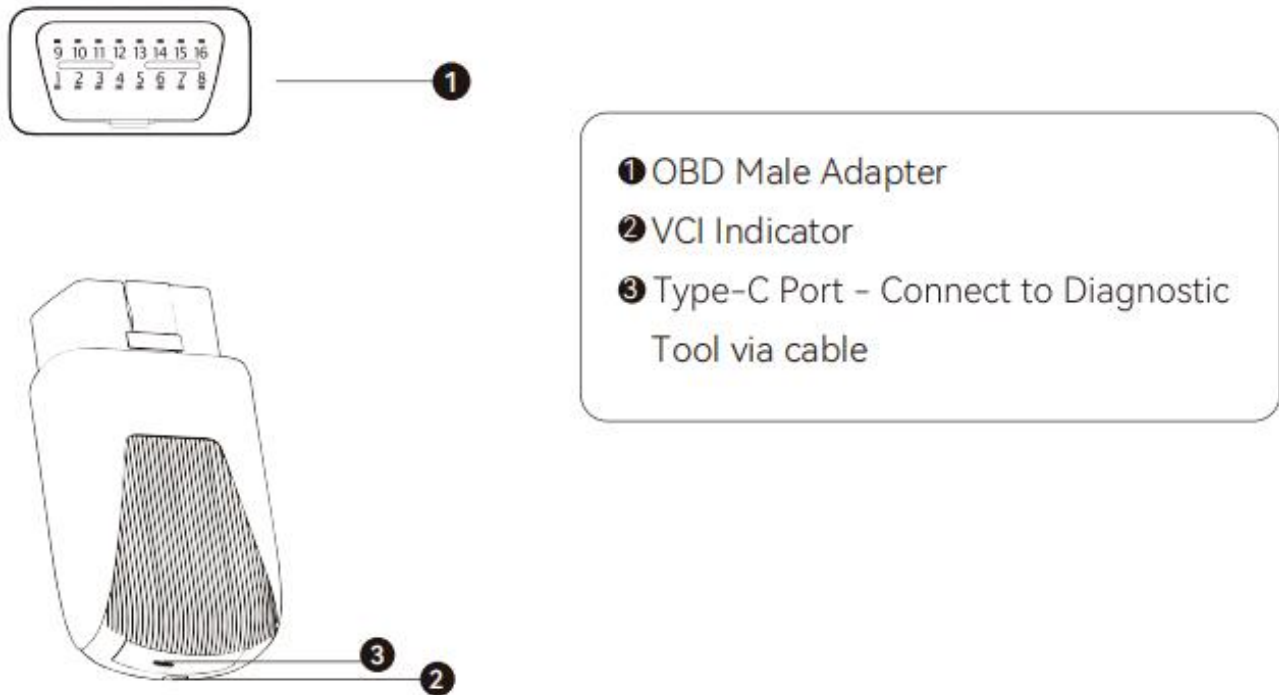
To enable color correction mode:

1. Swipe up from the bottom to show the toolbar.
2. Tap the Home button to go to the Android home screen.
3. Go to *Settings* → *Accessibility* → *Color correction* and turn on *Use color correction*.



3.9 VCI Box

The VCI Box establishes a WiFi connection to communicate with the Diagnostic Tool. Compared to Bluetooth, WiFi offers higher transmission speeds, more stable communication, longer range, and greater data capacity—enabling faster and more efficient diagnostics.



3.10 FCA AutoAuth - SGW

Security Gateway Module(SGW) - In 2018, the SGW was implemented by FCA USA to prevent unauthorized access. FCA said that SGW was developed to limit "the ability of non-registered and non-authenticated users to perform intrusive diagnostics such as "bi-directional controls", so users cannot directly clear the DTC, as well as any bi-directional control test(including actuation, relearn and calibration) on vehicles equipped with SGW.

VDIAGTOOL receives Certification by FCA to access SGW Module, and perform previously restricted actions, by registering with AutoAuth, an authentication service. VDIAGTOOL tablet scanner users can register through AutoAuth's Internet-based registration portal for \$50 a year. (Note: This fee is NOT charged by VDIAGTOOL company.)

You can now access the SGW module and perform operations that were previously restricted by registering with the AutoAuth authentication service. This process eliminates the need for additional accessories. Users begin by registering through AutoAuth's web-based portal, selecting their desired package, and adding their VDIAGTOOL diagnostic tool.

The information above indicates that if you cannot find "Transmission" or a similar name in the diagnostic menu, you should locate "Transmission Oil Temperature" under the PID data(live data) menu of the Powertrain Control Module(or PCM). Similarly, if you are looking for the ABS Bleeding feature, you should go to the Special Function under the Brake Control Module (BCM). This approach helps navigate and locate specific diagnostic features within the diagnostic tool's interface

3.11 Pre/Post Scan

Pre-Scan: Pre-scan is performed before vehicle maintenance. It scans all fault codes stored in the vehicle system module, including fault codes without illuminated fault lights, and generates a diagnostic report to confirm the fault point.

Post-Scan: Post-scan is performed after vehicle maintenance. It identifies and clears the fault codes detected during the pre-scan, generates a post-maintenance report, and confirms the maintenance costs and other matters to avoid disputes.

3.12 Topology Mapping

Topology Mapping is a powerful feature that visually represents the communication network between various electronic control units (ECUs) in a vehicle. This graphical tool helps technicians and engineers understand how different ECUs interact through various data buses. It's especially helpful in modern vehicles with complex systems, as it allows users to see the interconnected structure of ECUs and their communication channels in real-time.

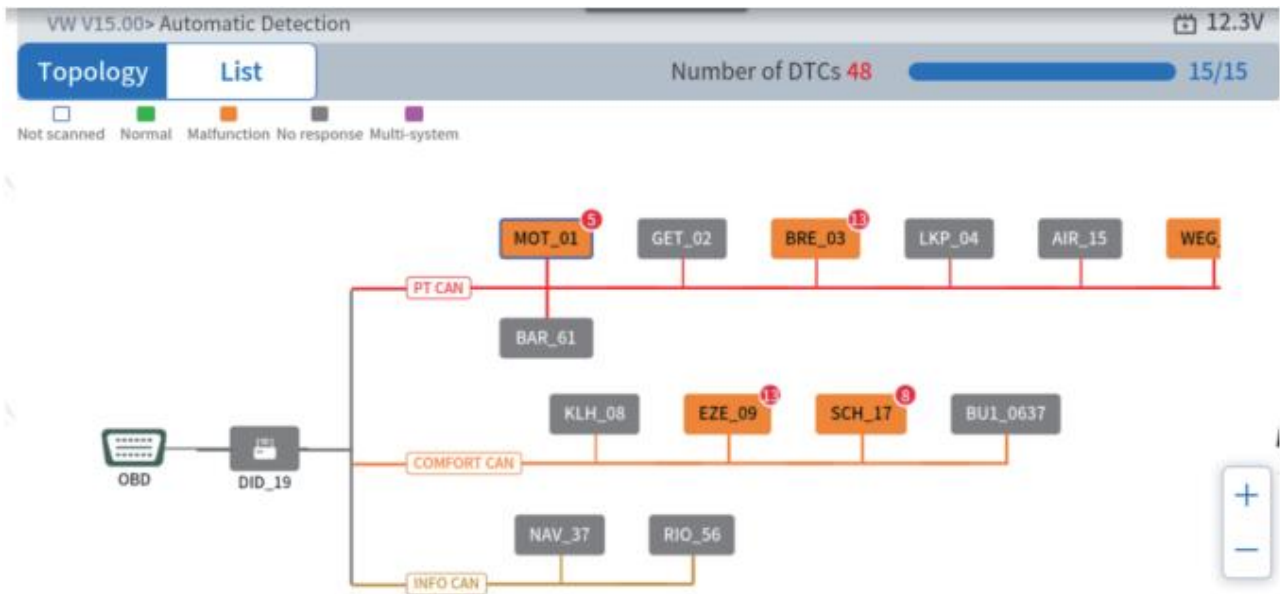
Key Benefits of Topology Mapping:

Network Visualization: It provides an overview of how ECUs are linked, showing the interrelationships between components and the network's structure.

Efficient Diagnostics: Technicians can easily identify which components are communicating and whether there are any errors or faults in communication, helping to pinpoint issues quickly.

Communication Analysis: By visually representing communication paths, it highlights which modules may not be responding or are malfunctioning, allowing for quicker troubleshooting and resolution.

Improved Problem-Solving: With topology mapping, technicians can understand the root causes of issues more clearly and tackle them with greater efficiency, whether it's due to faulty connections or a module failure.



4. Vehicle Diagnostics

This chapter outlines the basic operation of the diagnostic function.

The Diagnosis icon is located on the home screen. This function enables communication with the vehicle's electronic control systems, allowing you to:

- Retrieve diagnostic trouble codes (DTCs)
- View live PID data
- Perform active tests
- Access additional diagnostic functions

4.1 My Vehicles

The "My Vehicles" function allows you to save frequently used diagnostic programs for quick access.

To locate this feature, tap the **Manual Diagnosis** icon on the diagnostic screen. "My Vehicles" will be displayed in the top taskbar.

Adding Programs: Tap the "+" (add) icon, select the region of the vehicle brand, choose the desired brand(s), and tap "Complete" to confirm.

Removing Programs: Tap the pen (edit) icon, select the program(s) to remove, and tap "Remove" to confirm.

4.1.1 Compatibility Check

This diagnostic tool supports all OBDII/EOBD compliant vehicles for generic code reading and basic functions. It also covers a wide range of specific makes and models across the United States, Europe, Asia, Australia, and other regions for full-system diagnostics. Note that available functions may vary significantly, even between vehicles of the same make, model, and year.

Important:

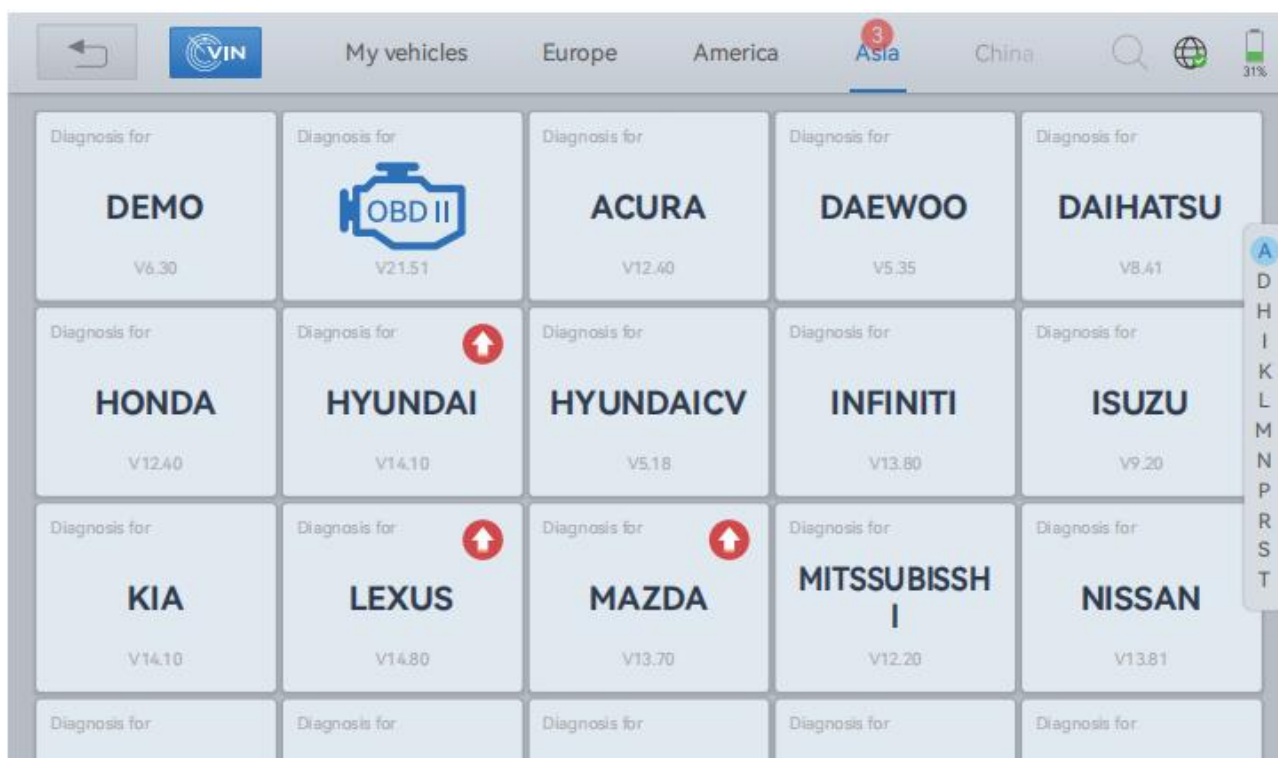
Special Functions on the main diagnostic screen are not universally available for all vehicles. Feature availability is strictly determined by vehicle compatibility based on the VIN, make, model, and year.

To verify compatibility, contact support at support@vdiagtool.com or view the online reference list at: <https://www.vdiagtool.com/support/vehicle-coverage>

(Note: The online list is for reference only and must be confirmed with technical support.)

4.2 Software Version

The current software version for each vehicle manufacturer is displayed at the bottom of its selection tile. For example, the installed HONDA software version is shown as V12.40 in the illustration below.



The red upward arrow  indicates that a newer software version is available for download. After you click the arrow to update and install the software, the diagnostic tool will display the newly installed version.

4.3 Demo Program

The **DEMO** program simulates the vehicle navigation process, available functions, and menu interfaces. You can use it to practice operating the diagnostic tool before performing actual vehicle diagnostics.

Important:

The DEMO program may not reflect the latest diagnostic procedures or actual vehicle screens. It is **not** intended for verifying vehicle coverage or compatibility.

4.4 Trial Mode

The diagnostic tool includes a limited number of trial uses. These allow you to evaluate its functions and check vehicle compatibility before activating a full subscription. The number of available trials may vary based on factory inspection procedures (including routine and random sampling).

4.5 Wi-Fi Connection

The diagnostic tool supports connections to both 2.4 GHz and 5.0 GHz Wi-Fi networks.

To connect to Wi-Fi:

1. Swipe up to show the toolbar and tap Home.
2. Go to Network & internet and turn on Wi-Fi.
3. Tap the Wi-Fi icon, select a network, and enter the password.

To use a mobile hotspot:

If Wi-Fi is unavailable, you can use your phone's hotspot.

- **iOS:** Enable *Allow Others to Join and Maximize Compatibility* in **Settings** > *Personal Hotspot*.
- **Android:** Enable the portable hotspot in **Settings** > **Wireless & networks** > **Tethering & portable hotspot**. Set encryption to **WPA2 PSK** and ensure a connection slot is available.

Note:

Wi-Fi is not required for diagnosing most vehicles. It is only necessary for certain brands (e.g., Peugeot) that require online server access during diagnostics.

4.6 Product Activation

When the trial period ends, you must register and activate the diagnostic tool to continue using all diagnostic functions.

To activate the product:

1. Tap **Register**.
2. Enter your email address.
3. Set and confirm your password.
4. Agree to the User Terms and submit.

Once the registration complete message appears, the tool is activated. Your login credentials will be saved, and no repeated logins are required for future use.

Trial



Welcome

Lets get started

Sign Up

Already have an account?

Log in

Trial



Sign Up

Email address

Password



- Password must be 8-20 characters and can only be a combination of letters and numbers

Sign Up

Already have an account?

Log in

By clicking Login, you agree to [《Terms of use》](#)

Trial



Sign Up





- Password must be 8-20 characters and can only be a combination of letters and numbers

Sign Up

Already have an account?

Log in

By clicking Login, you agree to [Terms of use](#)

Trial



Sign Up





- Password must be 8-20 characters and can only be a combination of letters and numbers

Sign Up

Already have an account?

Log in

By clicking Login, you agree to [Terms of use](#)

Prompt



Login successful

OK

27



Congratulations!

S/N VD80 BT-1234567 has been successfully activated

Subscription expiration date: Remaining subscription: 1096 Days
(2025-2-24-2027-2-24)

For more information and services, please visit official website: www.vdiagtool.com

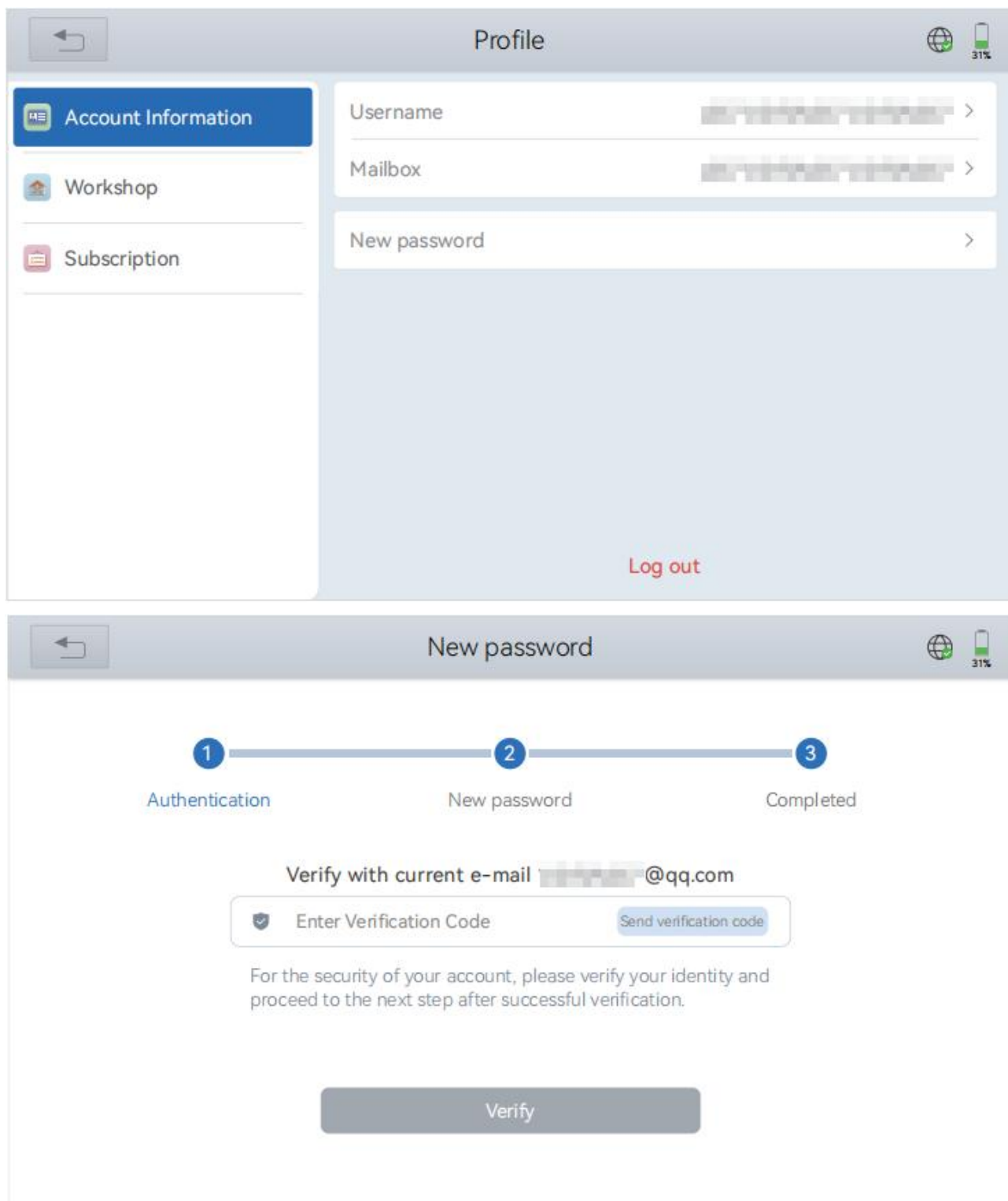
Start now

Note:

If you are unable to register or do not see the activation screen, please contact our support team at support@vdiagtool.com or complete the technical support form on our website www.vdiagtool.com for immediate assistance.

Password Reset:

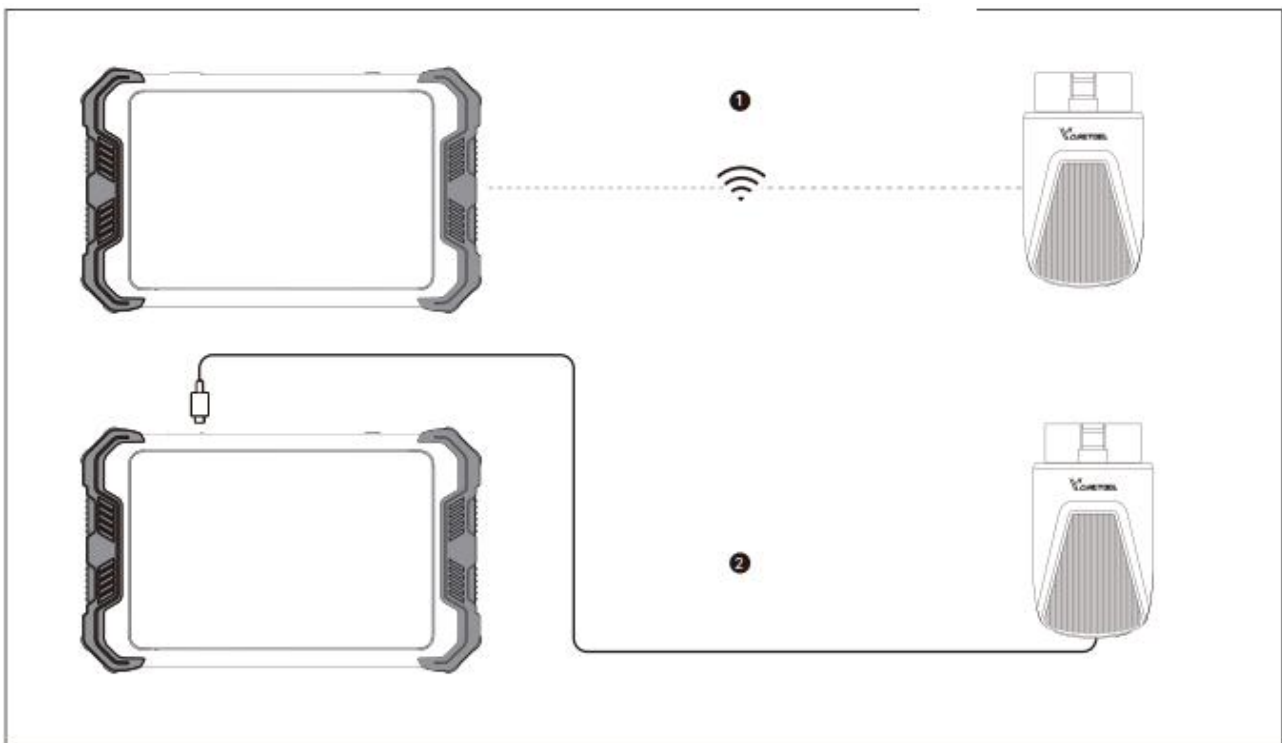
If you forget your password, tap "**New password**", enter your email address, and select "**Get verification code**". You will receive a verification code from noreply@service-vdiagtool.com. Enter the code to reset your password. If the code is not in your inbox, please check your spam folder.



If you have forgotten the email address used for activation, please email the diagnostic tool's **S/N (Serial Number)** to support@vdiagtool.com to retrieve your registration details.

4.7 Connecting the VCI Box

The diagnostic tool communicates with the vehicle through a VCI box equipped with a standard OBD-II 16-pin male connector.



Note: The VCI box typically connects to the diagnostic tool via WiFi. If the WiFi function is unavailable, you may also connect the two directly using a Type-C cable.

To establish communication between the diagnostic tool and the vehicle, follow these steps:

- 1: Turn on the diagnostic tool.
- 2: Insert the VCI box into the vehicle's OBD-II port. Ensure that the Power and Wi-Fi indicators are lit.
- 3: Turn on the ignition and launch the diagnostic program on the tool.

4.8 Vehicle Diagnostics

Accurate vehicle identification is required for the diagnostic tool to establish communication and perform diagnostics. The identification process is menu-guided—follow the on-screen prompts to enter the necessary information. Specific steps may vary depending on the vehicle's make, model, and year.

You can identify a vehicle using one of the following four methods:

4.8.1 Auto Scan

Tap the **Auto Scan** icon on the diagnostic screen. The tool will automatically scan and decode the vehicle's VIN to identify it.

Important:

A common misconception is that the tool cannot diagnose a vehicle if it fails to read or decode the VIN. If Auto Scan fails, try alternative identification methods. **Manual Selection** remains the most reliable fallback option.

Note:

Auto Scan is not supported on all vehicles. If unsuccessful, please use another identification method.

4.8.2 Manual Diagnosis

Tap the **Manual Diagnosis** icon on the diagnostic screen to open the vehicle selection menu. Then, tap the  icon in the top left corner to access the **Auto Scan** and **Manual Input** options. Select **Manual Input** to enter the 17-digit VIN manually. The tool will decode the VIN and identify the vehicle.

Note:

Some VINs cannot be decoded. If both Auto Scan and Manual Input fail, try Automatic Detection or Manual Selection instead.

4.8.3 Automatic Detection

Tap **Manual Diagnosis**, select the region of the vehicle brand (e.g., *Americas*), choose the brand (e.g., *CADILLAC*), and then select **Automatic Detection** to allow the tool to automatically identify the connected vehicle.

Note:

Automatic Detection is not supported on all vehicle models. If this method fails, please use Manual Selection.

4.8.4 Manual Selection

If **Auto Scan**, **Manual Input**, and **Automatic Detection** fail to identify the vehicle, use **Manual Selection**—the most reliable method—to proceed with diagnostics.

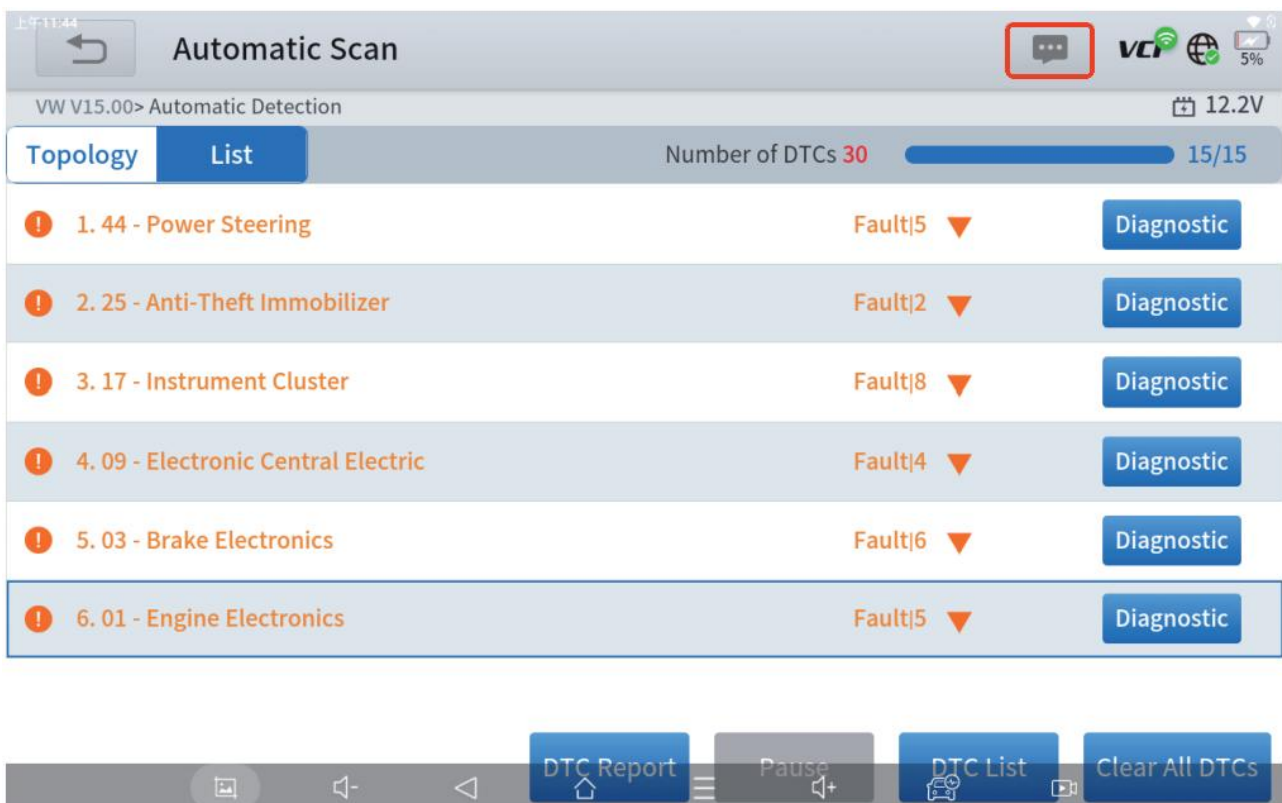
To identify a vehicle manually:

1. Tap **Manual Diagnosis**.

2. Select the vehicle brand's region (e.g., *Americas*).
3. Choose the brand (e.g., *CADILLAC*).
4. Select **Manual Selection**.
5. Specify the model year, model name, and any subsequent options until **Automatic Scan** and **System Selection** appear.

4.9 Submit Feedback

Tap the **message icon**  in the top right corner to submit feedback to our support team regarding any issues with the app or software.



4.10 CAN Fast Scan

Rapidly scans all accessible vehicle systems for post-2005 vehicles using CAN protocol communication.

4.11 System Selection

Select a specific vehicle control module for diagnostics when you already have an idea which system may be causing issues.

4.12 Diagnostics

After successful vehicle identification, the diagnostic tool can scan and access the vehicle's electronic control systems to retrieve diagnostic trouble codes (DTCs), read PID data (Parameter IDs), view freeze frame information, access ECU details, and perform tests such as active tests (bi-directional controls), and more.

4.12.1 Read Codes

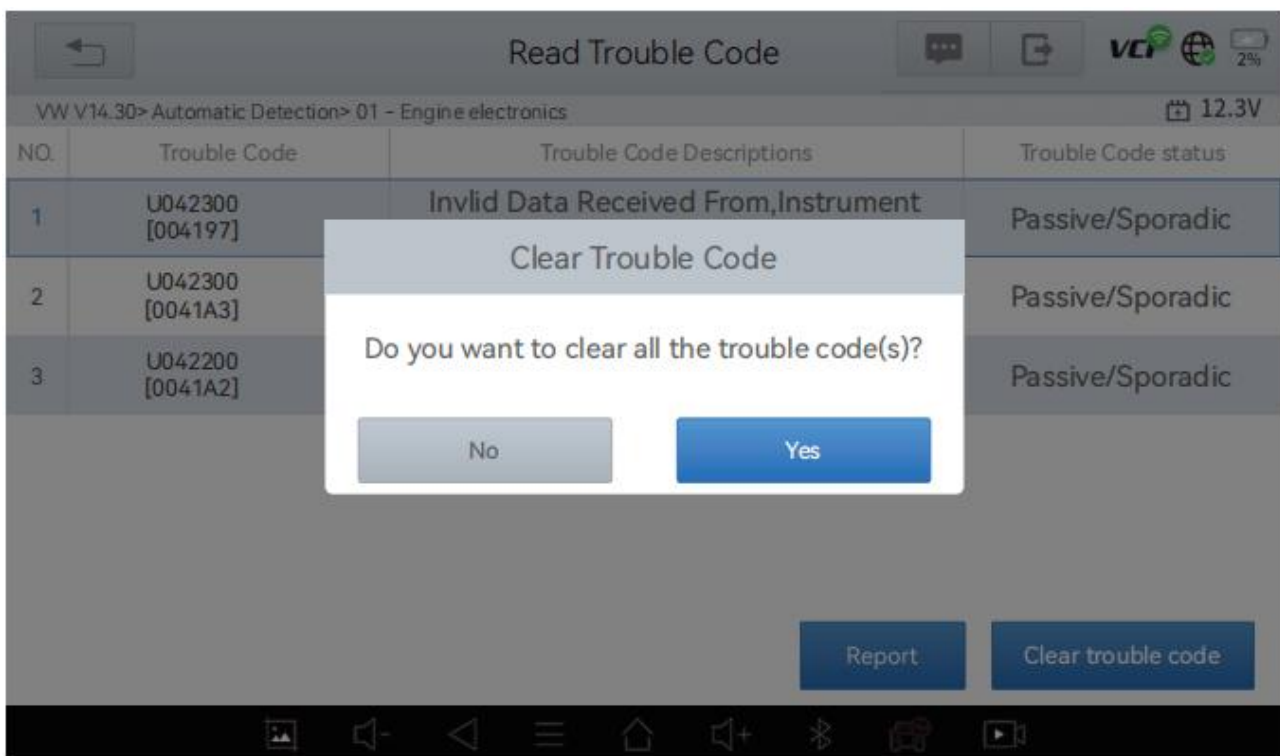
Displays diagnostic trouble code (DTC) records stored in the vehicle's electronic control modules. Selecting this option may open a submenu with additional viewing choices.

If the tool displays "System is OK" or "No Trouble Code", this may indicate:

- No relevant fault codes are stored in the ECU;
- The fault is not within that specific ECU's domain (e.g., mechanical or circuit issues);
- A sensor signal is abnormal but still within its operational range — such cases can be further analyzed using Live Data (PID).

4.12.2 Clear Codes

Erases both current and historical DTC records, along with related data, from the vehicle's electronic control modules.



After initiating the erase command, the ECU will verify whether the issue has been resolved over several drive cycles. Note that:

- Some faults can be detected immediately with the ignition on, even if the engine is off.
- Other faults require specific conditions to be met (e.g., engine coolant temperature, vehicle speed, or throttle position within certain ranges for a defined duration) before they can be detected again.

4.12.3 DTC Erased While Fault Remains

If DTCs are cleared while the underlying fault persists, the codes will reappear after one or more drive cycles.

4.12.4 DTC Erased and Fault Fixed - History Code

If a fault has been repaired but a code remains stored, the ECU may either automatically clear it or reclassify it as a history code.

4.12.5 DTC Erased and Fault Fixed - History Cleared

Clearing codes after a repair removes the fault history. Note that clearing codes is generally not recommended before another technician reviews the vehicle, as valuable diagnostic information may be lost.

Note:

Clearing codes will also erase freeze frame data.

4.12.6 PID Data

Displays real-time PID data from vehicle sensors and control modules. View data in list or graph formats, set custom value thresholds, and monitor up to 8 sensors simultaneously in list, individual graph, or merged graph views.

4.12.7 PID Data List

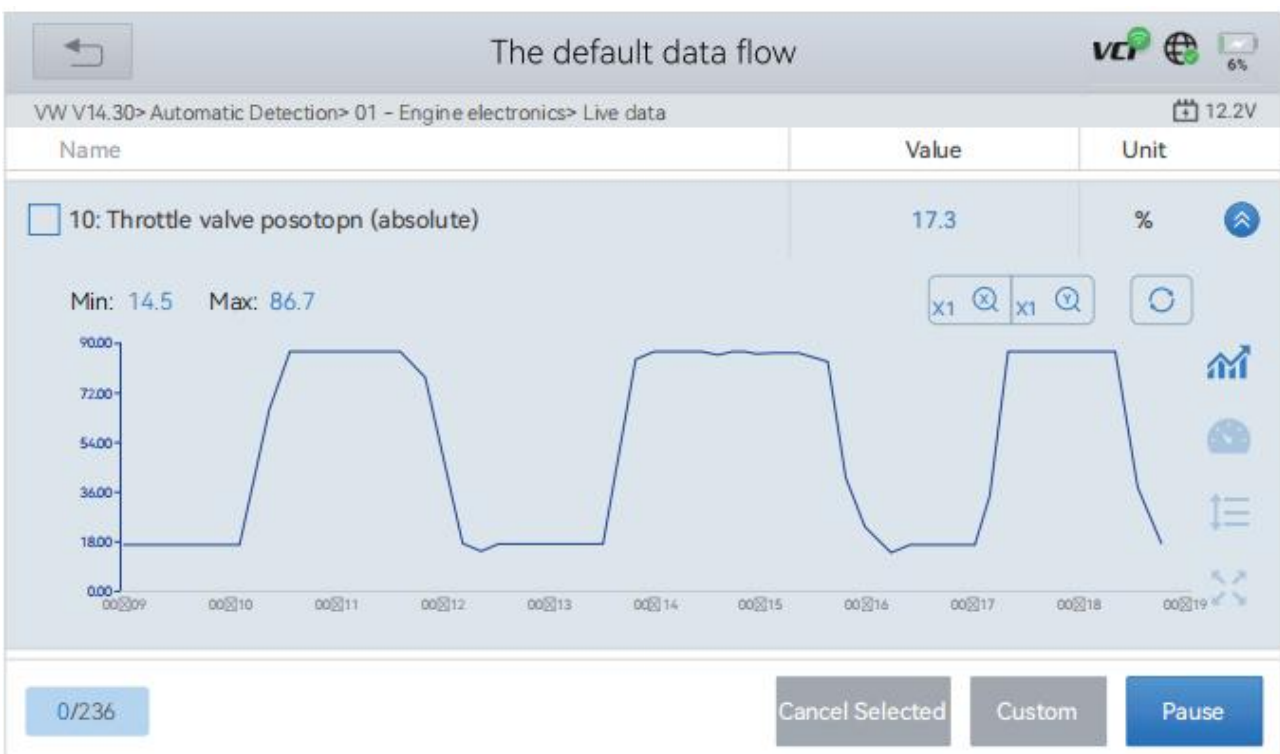
Tap the live data function to display a list of PID names and their real-time values, as shown in the illustration below.

The default data flow		
VW V14.30> Automatic Detection> 01 - Engine electronics> Live data		
Name	Value	Unit
☐ 7: Voltage terminal 30	12.400	V
☐ 8: Status of initial fuel filling	DEFAULT	
☐ 9: Time since engine start	0	S
☐ 10: Throttle valve position (absolute)	16.9	%
☐ 11: Absolute load value	0.0	%
☐ 12: Normed load value	0.0	%
☐ 13: Accelerator pedal position	14.9	%
0/236 Cancel Selected Custom Pause		

4.12.8 Individual PID Data Graphing

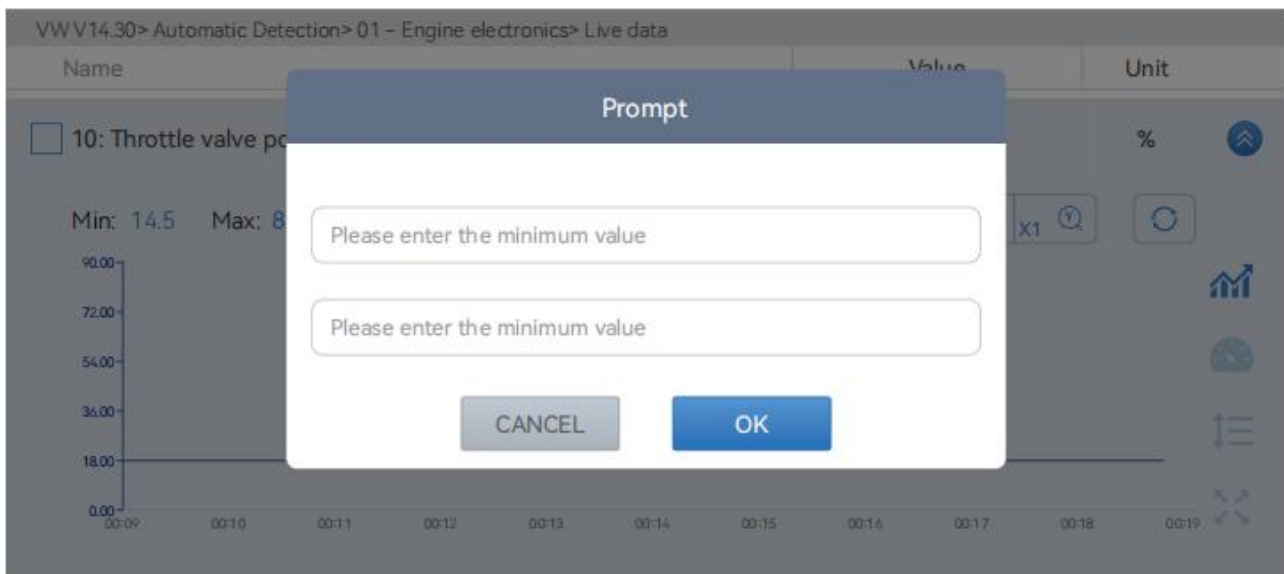
Tap the blue arrow icon  on the right to view individual PID data in graph form, as shown below.

If the arrow is gray, graphing is not available for that PID.



4.12.9 Set Maximum & Minimum Value Alarms

Tap the icon  on the right to set value alarms for individual PID data, as shown below.



After setting the values, two red dotted lines will appear on the graph, making it easy to identify when data exceeds the maximum or drops below the minimum, as illustrated.

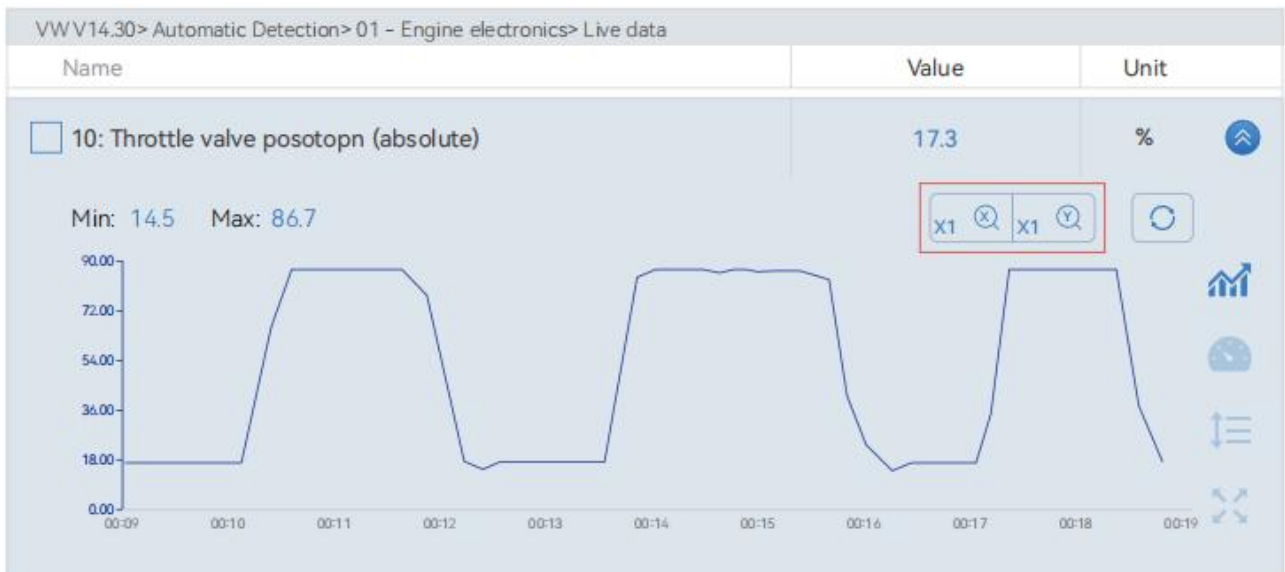


Note:

The maximum and minimum values can be set to any value for observation, and are not required to be within the normal operating range of the PID data.

4.12.10 Zoom and Full Screen

Tap the magnifier icon  or  to zoom the x-axis or y-axis (up to 3x). Tap again at maximum zoom to return to the original scale (1x).



Tap the full screen icon  on the right to view the graph in full screen mode, as shown below.



4.12.11 Custom PID Data (Up to 8)

Select up to eight PID data checkboxes and tap **Custom** to display a custom real-time data list.

The default data flow			VCI	6%
VW V14.30> Automatic Detection> 01 - Engine electronics> Live data			12.2V	
Name	Value	Unit		
☐ 69: Test steps still to be performed	0			
☐ 70: Cause for cancellation	0			
☒ 71: Throttle valve position 1	0.8548	V		
☒ 72: Throttle valve position 2	16.9	%		
☐ 73: Starter control, readiness bits	1			
☐ 74: Result test Evap. Emission (EVAP) Canister Purge Reg. Valve	0			
8/236			Cancel Selected	Custom
			Pause	

Cancel Selected - Deselects current PIDs for re-selection.

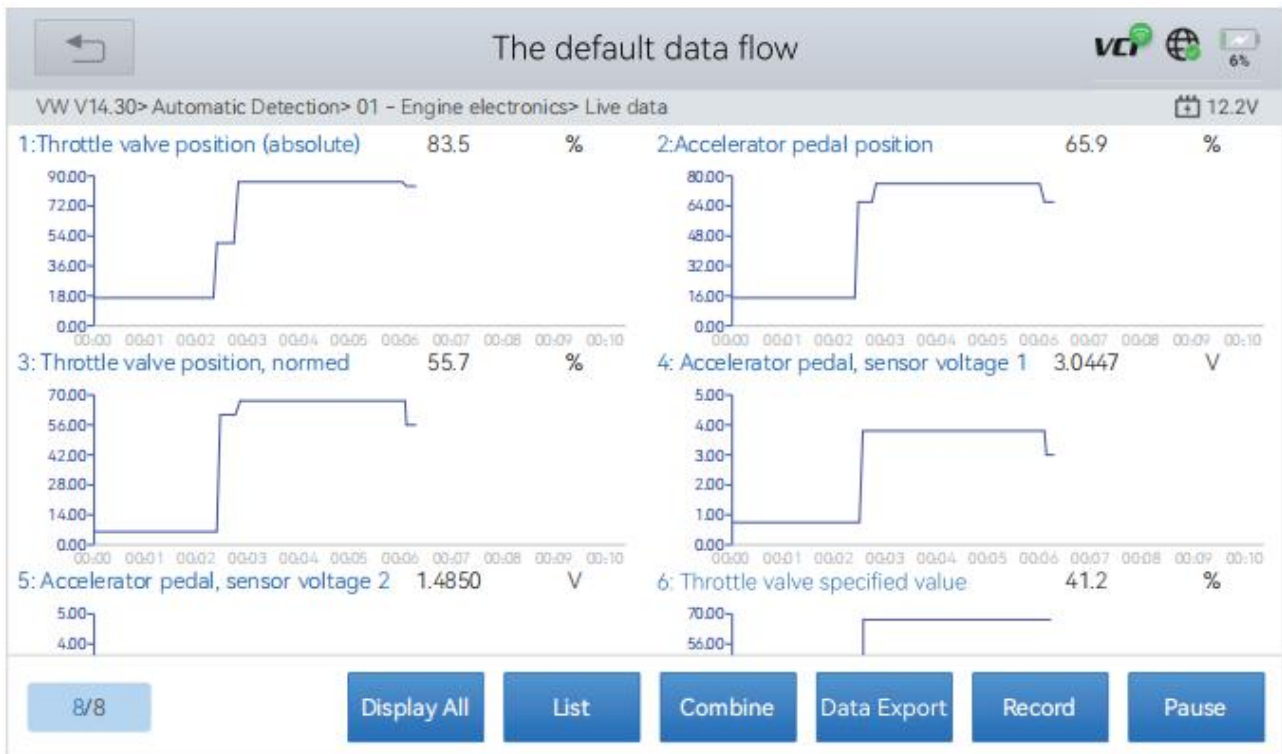
Custom - Displays the custom screen with selected PIDs.

Pause - Halts the continuous retrieval of real-time data.

The default data flow			VCI	6%
VW V14.30> Automatic Detection> 01 - Engine electronics> Live data			12.2V	
Name	Value	Unit		
1: Throttle valve position (absolute)	14.9	%		
2: Accelerator pedal position	16.5	%		
3: Throttle valve position, normed	3.9	%		
4: Accelerator pedal, sensor voltage 1	0.7550	V		
5: Accelerator pedal, sensor voltage 2	0.3793	V		
6: Throttle valve specified value	3.9	%		
7: Throttle valve position 1	0.7548	V		
8/8			Display All	Graph
			Combine	Data Export
			Record	Pause

4.12.12 Individual Graphing for Up to 8 PIDs

Tap the **Graph** icon on the custom data list to display individual graphs for up to 8 PIDs on a single screen, as shown below.



Display All - Exit and return to the full data list with selections retained.

Graph - View selected PIDs in graph form.

List - View selected PIDs in a data list.

Combine - Merge individual graphs into a single view.

Data Export - Export data as a CSV file for review in Data View.

Record - Record data for later playback in Data Playback.

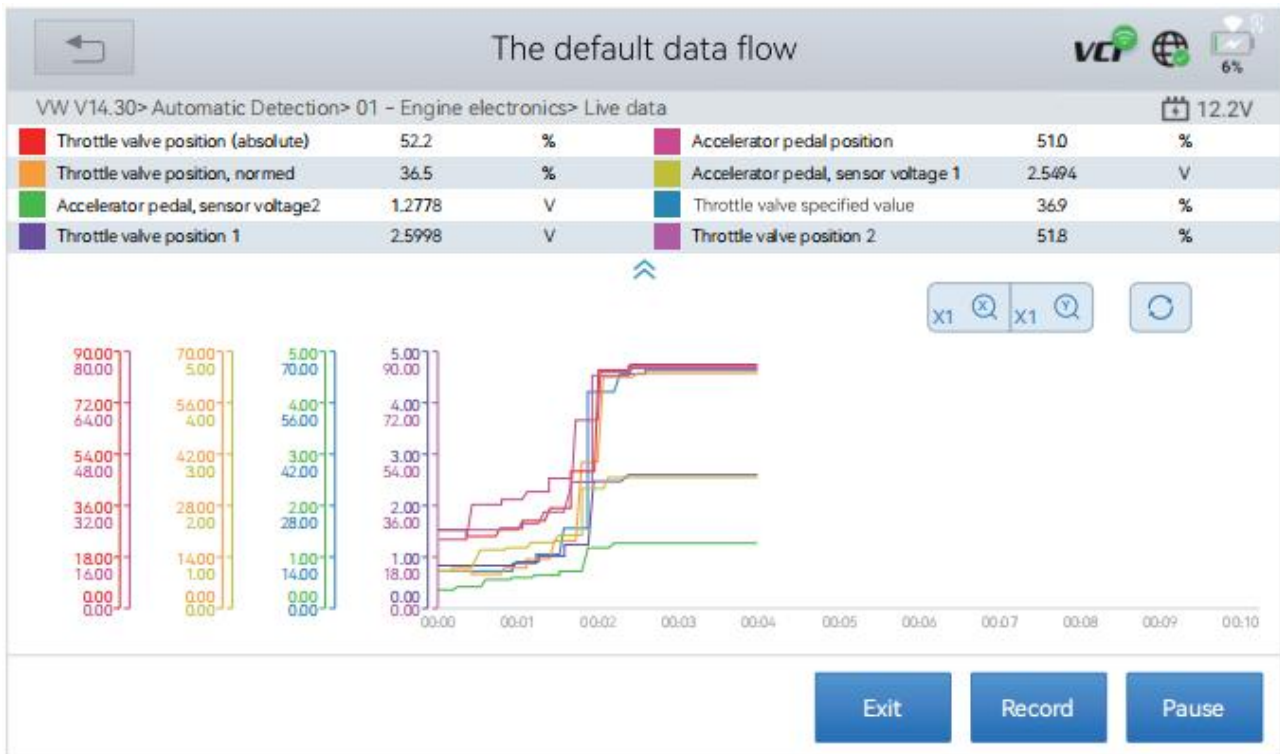
Pause - Halt real-time data retrieval.

4.12.13 8-In-1 Graphing

Tap the **Combine** icon to merge up to eight individual graphs into a single view for comparison.

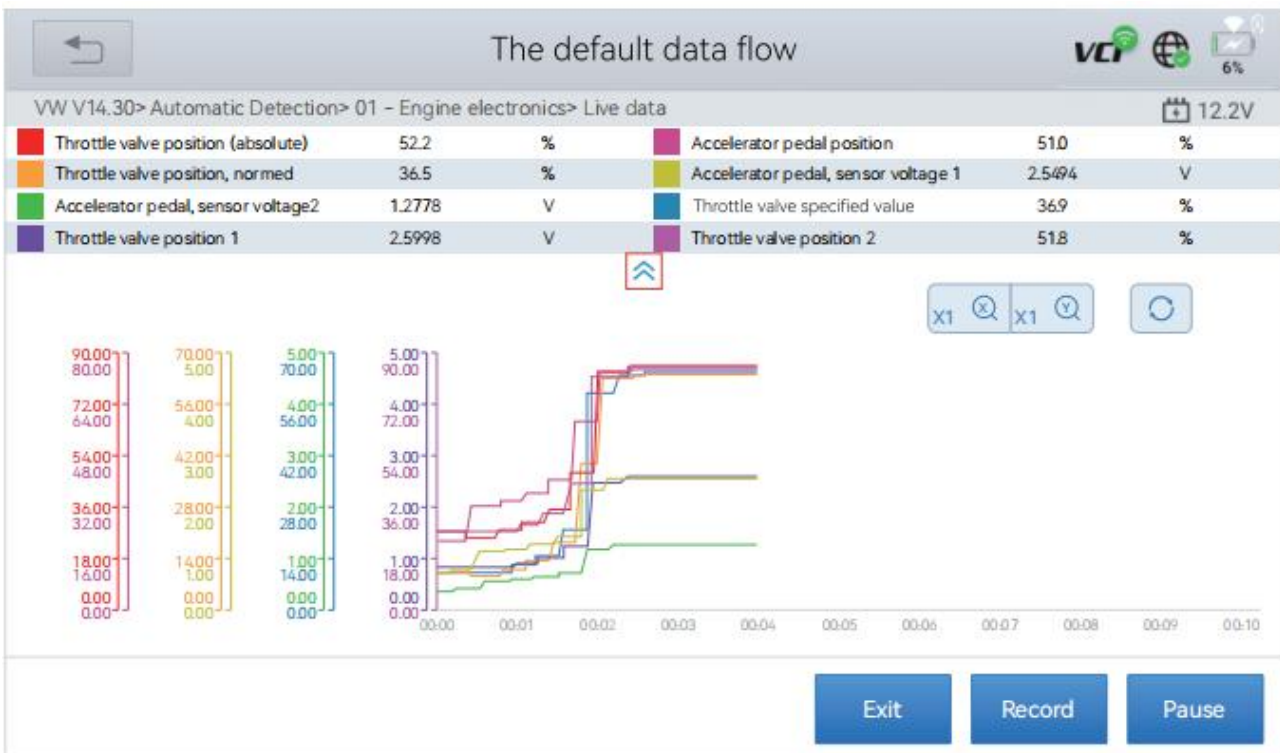
To use this feature:

1. Select up to eight sensor data checkboxes.
2. Tap **Combine** to display the merged graphs on one screen.

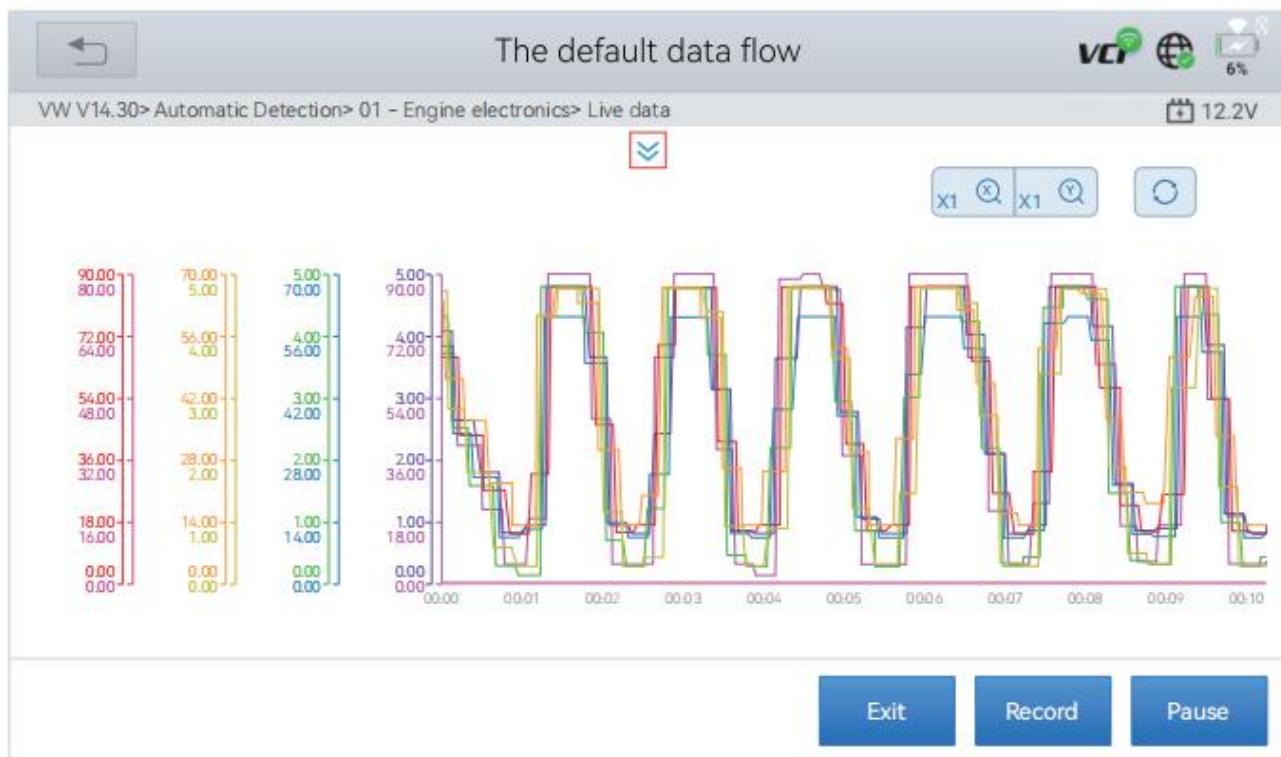


4.12.14 Fold/Unfold PID List

Tap the up arrow icon  to fold the PID name list, providing a larger view area for the graphs. Tap again to unfold the list.

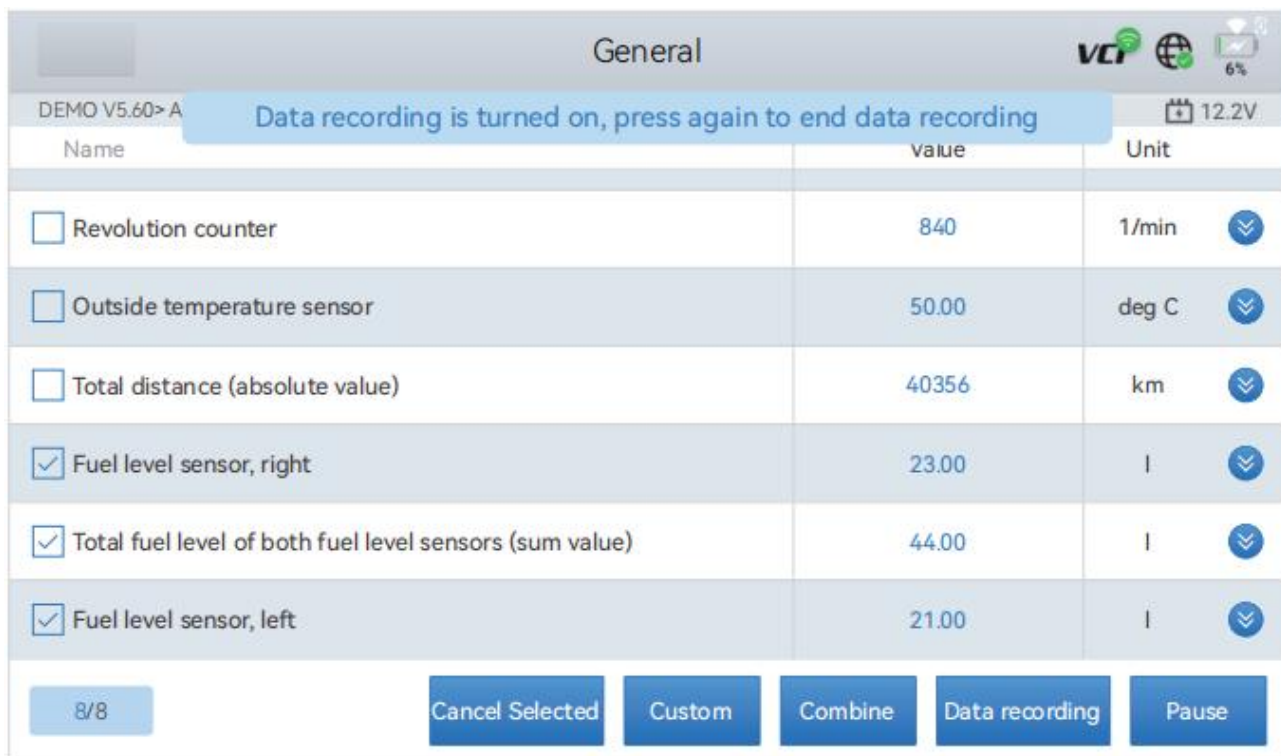


To unfold, tap the down arrow icon  to view the PID data names.



4.12.15 Data Recording & Playback

Tap the **Record** icon to begin recording PID data for later review in **Data Playback**.



The screenshot shows the "General" screen with a table of PID data items. A blue banner at the top states "Data recording is turned on, press again to end data recording". The table has three columns: "Name", "Value", and "Unit". The items listed are:

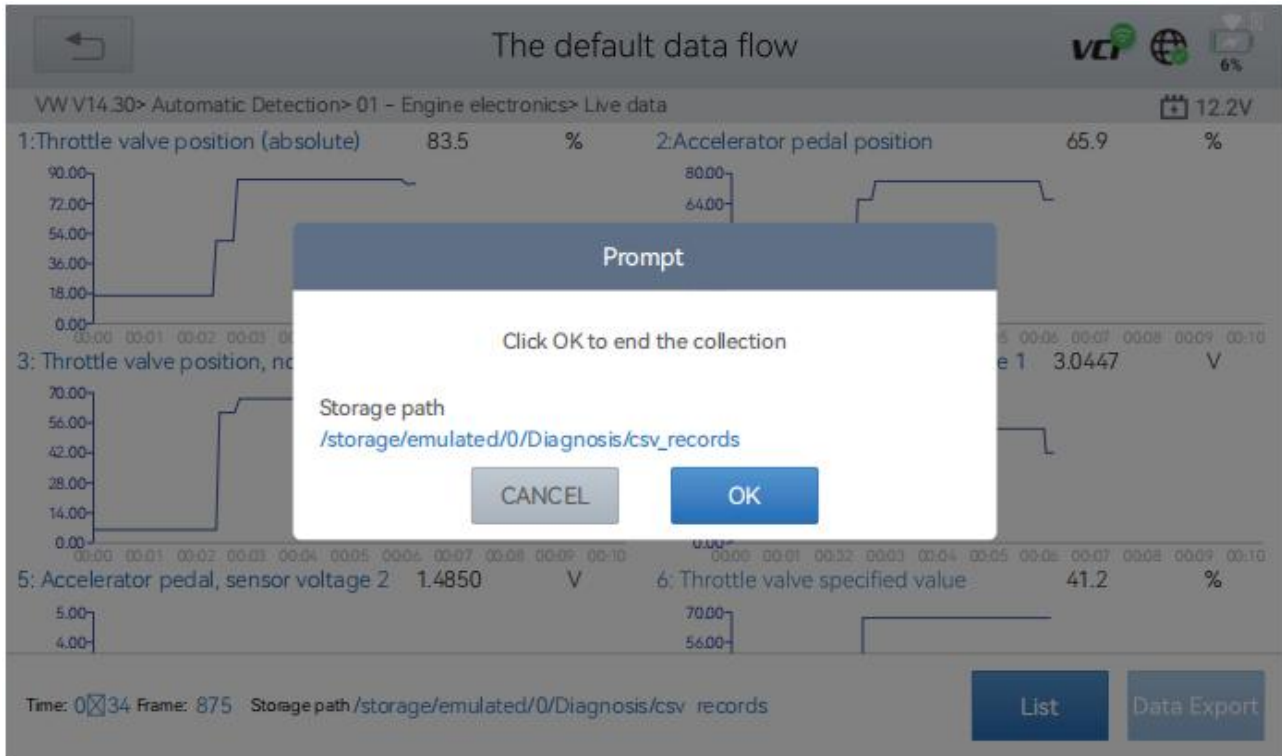
Name	Value	Unit
☐ Revolution counter	840	1/min
☐ Outside temperature sensor	50.00	deg C
☐ Total distance (absolute value)	40356	km
☒ Fuel level sensor, right	23.00	l
☒ Total fuel level of both fuel level sensors (sum value)	44.00	l
☒ Fuel level sensor, left	21.00	l

At the bottom of the screen are five buttons: "8/8", "Cancel Selected", "Custom", "Combine", "Data recording", and "Pause".

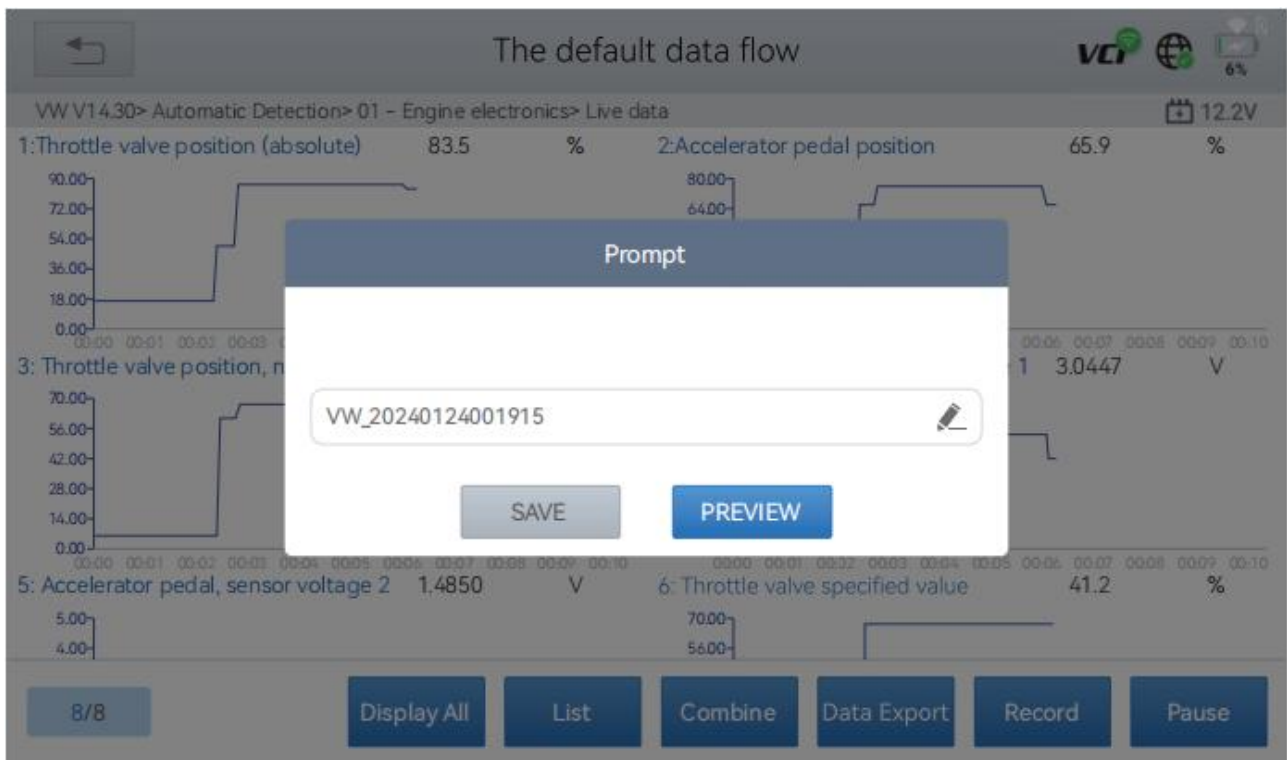
To playback, navigate to **Report > Data Playback** and select the recorded file.

4.12.16 Export Data as CSV & Data View

While viewing PID data, tap **Export Data** to begin collection, then tap **OK** to complete. Navigate to **Report > Data View** to review the data—graphs appear on the right, values (x-axis and y-axis) on the left.



After collection, tap the back icon  in the top left, rename the CSV file in the prompt, and tap **PREVIEW** to review the content before finalizing.

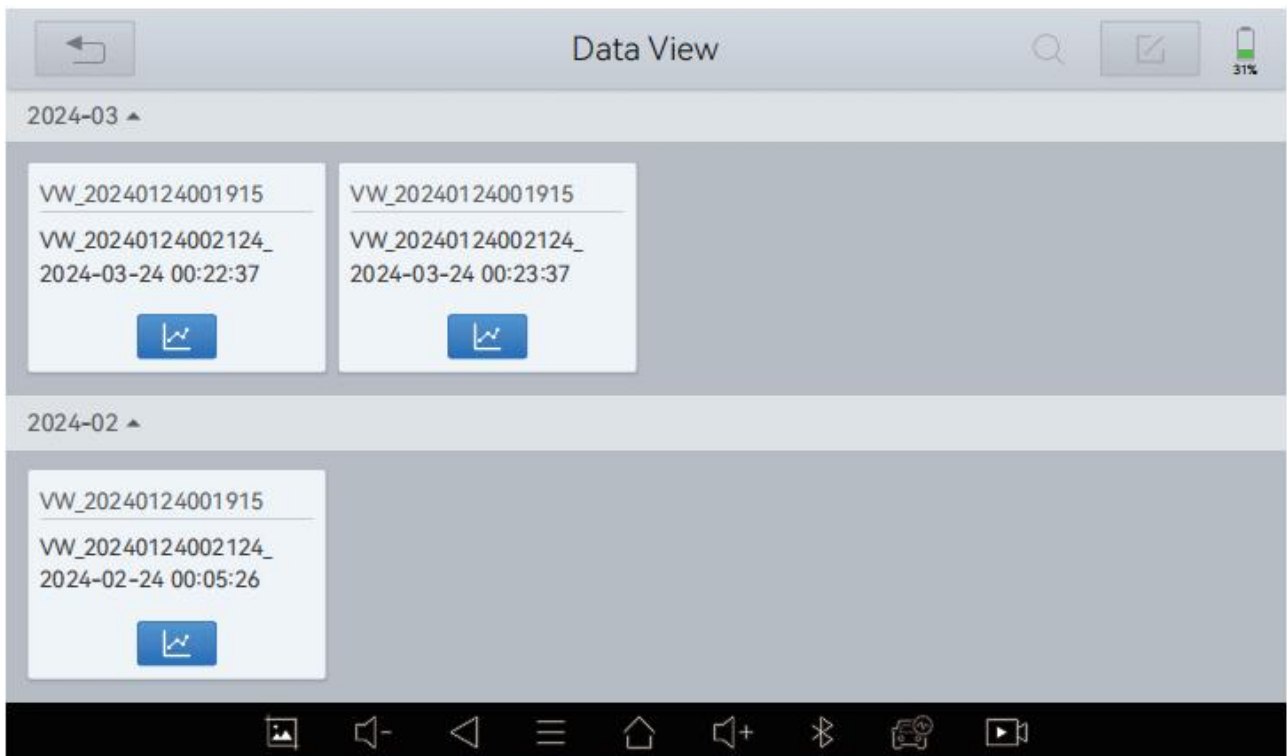


4.12.17 Data View

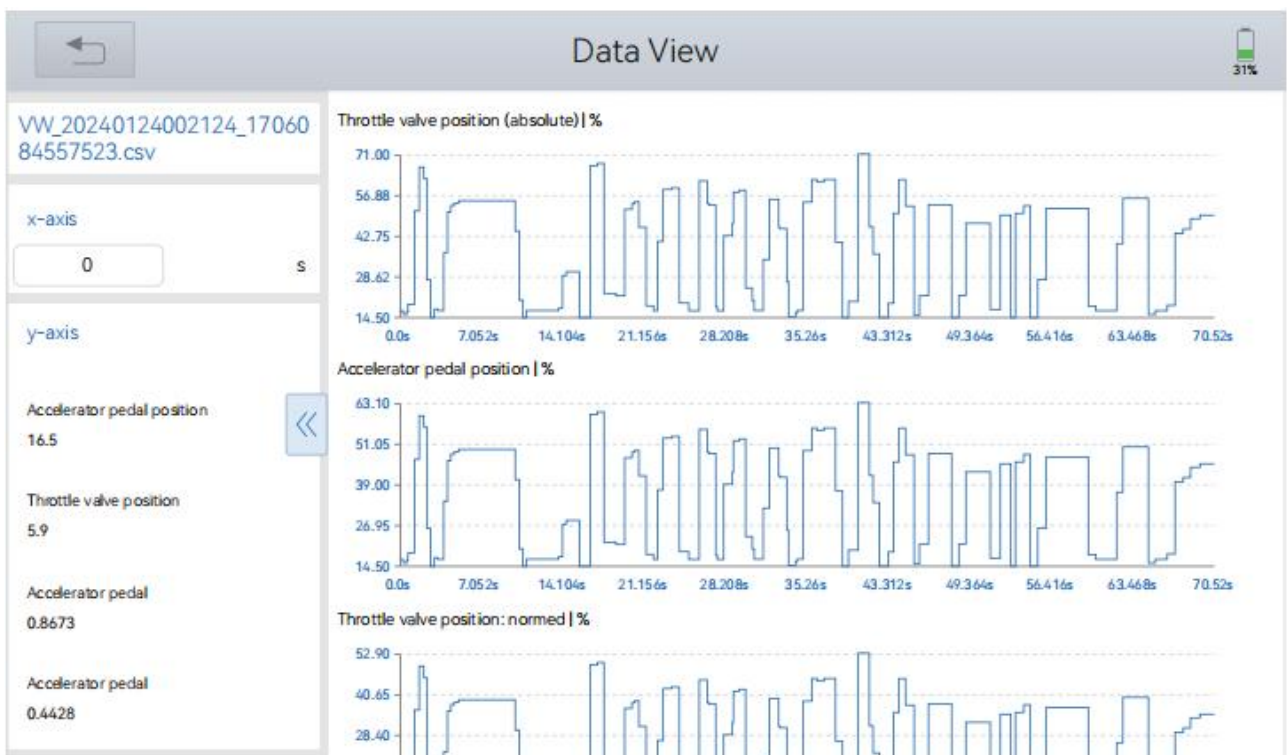
After exporting PID data as a CSV file, you can view it by going to the main diagnostic screen and selecting **Report** > **Data View**.



Tap the **Data View** icon to display all exported CSV files.



Tap the file to review, and the diagnostic tool will display its contents as shown:



Slide your finger or stylus along the graph to view real-time PID values in the left column, as shown:



4.12.18 Export CSV File to a PC

To export recorded CSV files to a computer for storage or further analysis:

1. Connect the diagnostic tool to a PC using the USB Type-C cable.
2. Swipe down from the top of the screen, then select **File Transfer** mode.
3. On the PC, navigate to:

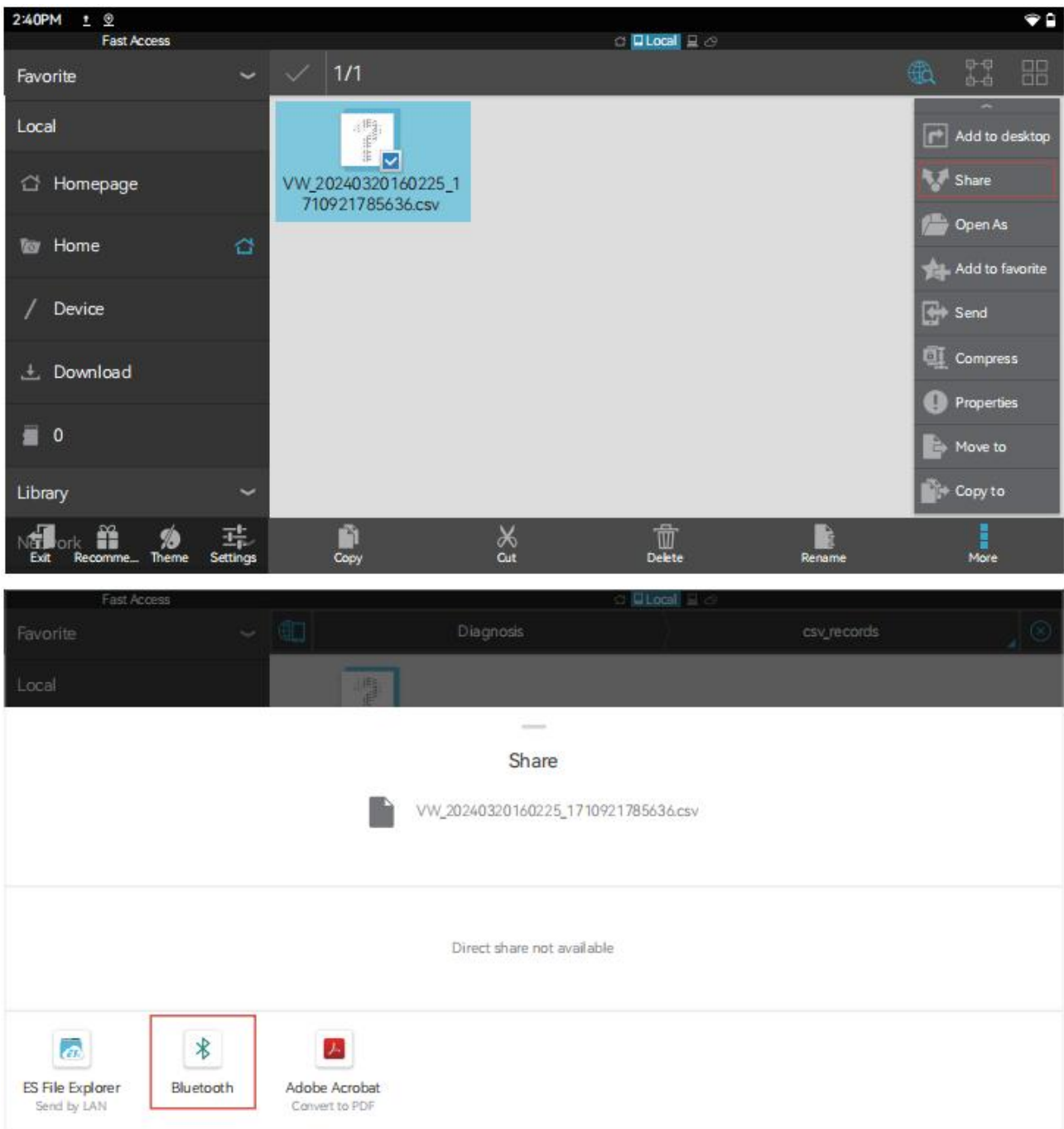
My Computer → **VD800 BT** → **Internal Shared Storage** → **Diagnosis** → **csv_records**

Copy the desired CSV files to your computer.

4.12.19 Share CSV File via Bluetooth

To share a CSV file with an Android tablet or phone:

1. Swipe up to show the toolbar and tap the **Home** icon.
2. Open **ES File Explorer** → **Local** → **Home** → **Diagnosis** → **csv_records**.
3. Press and hold the desired CSV file to select it, then tap **More** → **Share** → **Bluetooth**.
4. Choose the target device to complete the sharing process.



Note:

CSV files cannot be shared directly from the Android-based diagnostic tool to iOS devices via Bluetooth.

4.12.20 Freeze Frame

When a fault code is triggered, the vehicle ECU will save related data at that moment to generate a freeze frame. It is usually used to analyze the root cause that triggers the fault code, together with fault codes and PID data.

Freeze frame displayed varies across vehicles. Some vehicles may not have the option of freeze frame which means that the vehicle does not support this function.

Read trouble code		
RENAULT V9.93> Automatic Detection> Duster ii ph> System Selection> Injection		
DF1068	Refrigerant pressure sensor voltage	Current
DF887	Accelerator pedal position fault on gangs 1 and 2 of the pedal potentiometer	Current
DF974	Pedal potentiometer circuit track 1 Signal outside lower limit	Current
	Pedal potentiometer	
Read freeze frame		

4.12.21 Active Tests (Bi-Directional Controls)

Active tests, also referred to as bi-directional controls, verify the operation of specific actuators—including solenoids, valves, and relays.



4.12.22 Special Function

The Diagnostic Tool supports a range of advanced features, including resets, relearns, matching, adaptations, initializations, and more. The menu options vary depending on the vehicle.

While some functions listed in the diagnostic menu overlap with those in the main "Special Function" screen, the diagnostic section offers significantly more options.

4.12.23 Exiting Diagnostics

The diagnostic session remains active while communication with the vehicle is maintained. To exit diagnostics and power off the tool, the communication link must be properly terminated. A warning message will appear if an attempt is made to shut down during active communication.

Note:

Disrupting communication during testing may cause damage to the vehicle's electronic control module (ECU). Always ensure the main cable remains securely connected throughout the process. Exit all tests before disconnecting the cable or turning off the diagnostic tool.

4.12.24 How to Exit

To safely end the session, either use the on-screen back button to return to the main menu, or close the diagnostic application to terminate communication and exit.

4.13 Full System Diagnostic Report

After completing diagnostics and returning to the main diagnostic screen, enter the VIN, mileage, and model year in the report generation form, then tap **OK** to create a diagnostic report for review or sharing.

To distinguish it from reports generated via vehicle scan or Auto Scan, this type is specifically referred to as a **Full System Diagnostic Report**.

Report

Save as: VW

Vehicle Name: BR/NG-Santana NF 2013 after

Year: 2014

VIN: LSVAB4BR5EN1 523798

Mileage: 3833658.693 mile

OK

To access generated reports, go to **Report** on the main diagnostic screen and select **Diagnosis Report**. All reports are organized by date and time. Tap any report to view details, or use **Share by E-mail** to send it via email, or **Print PDF Report** to print.

The report summarizes: the total number of vehicle systems detected, how many are affected by fault codes, the total fault codes found, and which systems are fault-impacted. A sample Full System Diagnostic Report is shown below.

Report

2024-03-08 18:01

Vehicle information

Vehicle Name

: BR/NG-Santana NF 2013 after

Year: 2014

VIN: LSVAB4BR5EN152378

Mileage: 617440km

SN: VD70-V12345

Diagnosis Route

: SHVW->BR/NG-Santana NF 2013 after>2014 (E)

01-Engine electronics

Trouble Code

NO.	Trouble Code	Trouble Code Descriptions	Trouble Code status
1	U042300 [004197]	Invalid Data Received From Instrument Panel Cluster Control Module	Passive/Sporadic
2	U042300 [0041A3]	Invalid Data Received From Instrument Panel Cluster Control Module	Passive/Sporadic
3	U042300 [0041A2]	Invalid Data Received From Body Control Module	Passive/Sporadic

Live Data

NO.	Trouble Code	Value	Maximum Value	Maximum Value	Unit
1	Voltage terminal 30	12.516	13.771	11.267	V
2	Engine rpm	0	0	0	1/min
3	Coolant temperature	23	25	21	deg C
4	Status of actuator test	not active			
5	Number of parameterization attempts	Function not available			
6	Number of successful parameterization attempts	Function not available			
7	Vehicle speed	0	0	0	km/h
8	Status of initial fuel filling	DEFAULT			
9	Time since engine start	0	0	0	s
10	Throttle valve position (absolute)	16.9			%
11	Absolute load value	0.0			%
12	Normed load value	0.0			%
13	Accelerator pedal position	14.9			%

4.14 Fault Code Report

Another way to generate a diagnostic report is through the Vehicle Scan / Auto Scan results. After scanning all available electronic control modules, a "Generate Report" option appears at the bottom. This produces a simplified diagnostic report showing only the retrieved fault codes and the affected vehicle systems.

We call this the "Fault Code Report" to distinguish it from the full "Full System Diagnostic Report". A typical example is shown below:

Report

2024-03-08 18:01

Vehicle information

Vehicle Name : BR/NG-Santana NF 2013 after Year: 2014 VIN: LSVAB4BR5EN152378

Mileage: 617440km SN: VD70-V12345

Diagnosis Route : SHVW->BR/NG-Santana NF 2013 after>2014 (E)

01-Engine electronics

Trouble Code

NQ.	Trouble Code	Trouble Code Descriptions	Trouble Code status
1	U042300 [004197]	Invalid Data Received From,Instrument Panel Cluster Control Module	Passive/Sporadic
2	U042300 [0041A3]	Invalid Data Received From,Instrument Panel Cluster Control Module	Passive/Sporadic
3	U042300 [0041A2]	Invalid Data Received From Body Control Module	Passive/Sporadic

03-Brake Electronics

Trouble Code

NQ.	Trouble Code	Trouble Code Descriptions	Trouble Code status
1	U101300 [00019D]	Control module not coded	Active/static

09-Electronic central electric

Trouble Code

NQ.	Trouble Code	Trouble Code Descriptions	Trouble Code status
1	B141A15 [00100A]	Bulb for brake lights,Open circuit/short circuit to B+	Active/static
2	B131329 [002308]	Signal for brake lamp,Range/Performance	Active/static
3	B140C12 [01110A]	Activation for unlocking rear lid,Short circuit to B+	Active/static

17-instrument cluster

Trouble Code

NQ.	Trouble Code	Trouble Code Descriptions	Trouble Code status
1	B103E1B [903E12]	Fuel level sensor 1,Resistance too high	Active/static
2	B103F1B [903F12]	Outside temperature sensor,Resistance too high	Active/static

Note:

The diagnostic report generated from the Vehicle Scan / Auto Scan screen—referred to as the "Fault Code Report"—is designed to display fault codes for quick repair reference. In contrast, the report generated when exiting the diagnostic menu is a "Full System Diagnostic Report", which provides a comprehensive overview of the health status of all vehicle systems.

Both reports are stored in the "Diagnosis Report" section. Note, however, that the reports themselves are not explicitly labeled as "Full System Diagnostic Report" or "Fault Code Report" to distinguish between them.

4.15 Diagnostic Speed

The diagnostic tool supports fast scanning and diagnostics of all vehicle modules. However, the time required to complete a full scan and diagnosis varies depending on the vehicle. Key factors affecting diagnostic speed include the vehicle's communication protocol and the number of installed control modules.

In general, the tool performs faster scans on vehicles using newer communication protocols compared to older ones. For example, a vehicle using the CAN bus protocol will be scanned more quickly than one using the older ISO 9141 protocol. Additionally, scanning a modern vehicle with numerous control modules takes longer than scanning a simpler vehicle with only a few modules.

4.16 Integrated Modules

In some cases—particularly in older vehicle models—manufacturers may integrate two or more electronic control systems into a single module. This integration can sometimes cause confusion during diagnostics.

Below are two common examples:

Powertrain Control Module (PCM): Combines the Engine and Transmission control systems.

Brake Control Module (BCM): Integrates the ABS and EPB systems.

For instance, that if no dedicated "Transmission" menu is available, transmission-related data—such as transmission oil temperature—can typically be found under the PID data section of the Powertrain Control Module. Similarly, functions like ABS bleeding should be accessed via the Special Function menu within the Brake Control Module.

5. OBDII/EOBD

This chapter introduces the concept, protocols, test functions, and basic operations of the OBDII/EOBD feature. To access this function, navigate to:

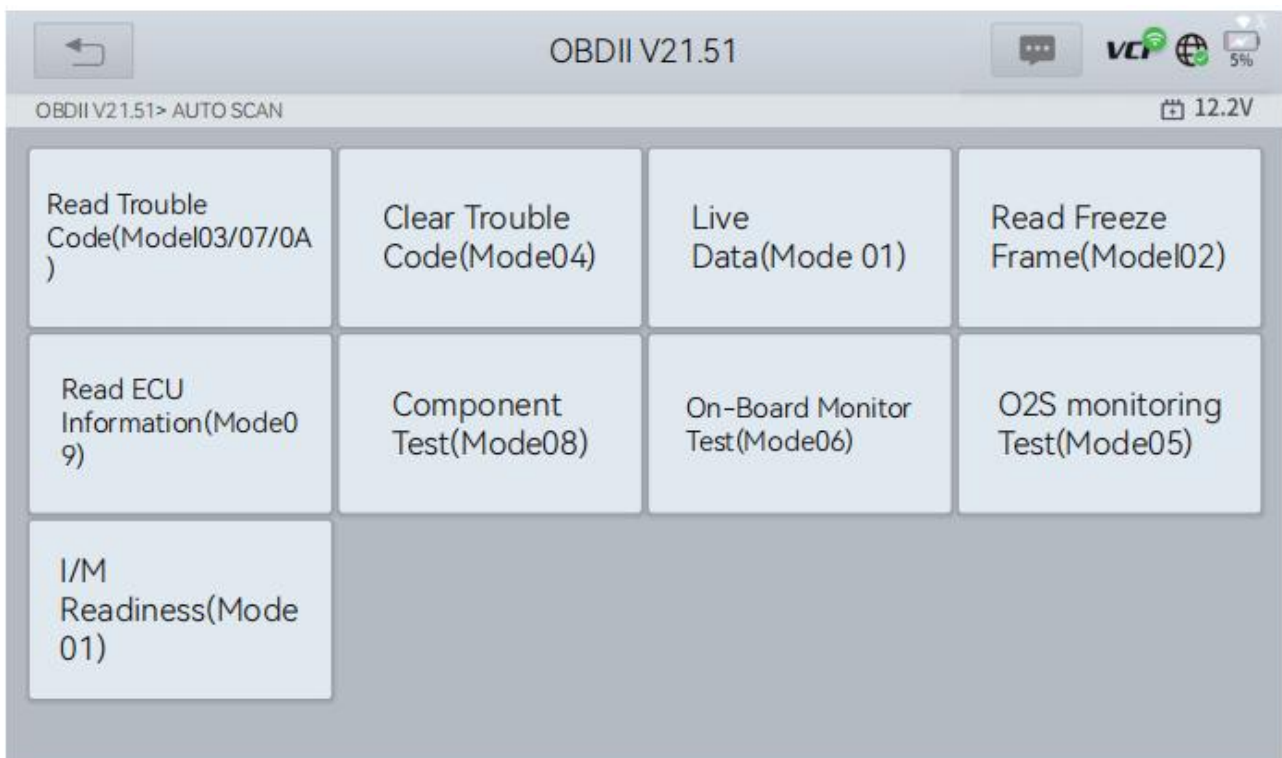
MANUAL DIAGNOSIS → Region Selection → OBDII

OBDII/EOBD provides a fast way to:

- Retrieve DTCs and determine the cause of an illuminated Malfunction Indicator Lamp (MIL)
- Check monitor status before emissions tests
- Verify repairs and perform other emissions-related services

The OBDII function enables access to “generic” OBDII/EOBD data, which is limited to emissions-related diagnostics, including:

- Reading emissions-related Diagnostic Trouble Codes (DTCs)
- Identifying the cause of an illuminated MIL
- Checking monitor status prior to emissions certification testing



To access additional electronic control module (ECU) data—including vehicle-specific systems, parameters, or enhanced diagnostics—use **AUTO SCAN** or **MANUAL DIAGNOSIS** to enter all-systems or individual-system diagnostics.

The OBDII/EOBD function is designed to retrieve “generic” OBDII/EOBD data from

compliant vehicles. This data is separate from the content available in all-systems or individual-system diagnostics.

IMPORTANT:

Generic OBDII/EOBD data is not included in engine system diagnostic data.

5.1 OBDII Protocols

Global OBD uses the following five communication protocols:

- SAE J1850 PWM
- SAE J1850 VPW
- ISO 14230-4 (KWP2000)
- ISO 9141-2
- ISO 15765-4 / SAE J2480

5.2 Basic Operations

To access generic OBDII/EOBD data, follow these steps:

1. Select **MANUAL DIAGNOSIS** on the main diagnostic screen.
2. Choose the region of the vehicle manufacturer.
3. Click the **OBDII** icon next to **DEMO**.



5.3 Auto Scan & Protocol Selection

There are two methods to access OBDII/EOBD data from the connected vehicle:

5.3.1 Auto Scan

When this option is selected, the diagnostic tool automatically attempts to communicate using each available protocol to identify the one utilized by the vehicle.

5.3.2 Protocol Selection

A communication protocol is a standardized method for data exchange between an ECM and the diagnostic tool. If the vehicle's protocol is known, you can manually select it to establish a direct connection.

5.3.3 Help

This section provides support information, including DLC location, a DTC library, common abbreviations, and background details such as OBDII modes.



5.4 10 Modes of OBDII

Mode \$01 – Live Data

Mode \$02 – Freeze Frame Data

Mode \$03 – Stored Trouble Codes

Mode \$04 – Clear/Reset Emission-Related Data

Mode \$05 – Oxygen Sensors Test Results

Mode \$06 – On-Board System Tests Results

Mode \$07 – Pending Trouble Codes

Mode \$08 – Control On-Board Systems

Mode \$09 – Vehicle Information

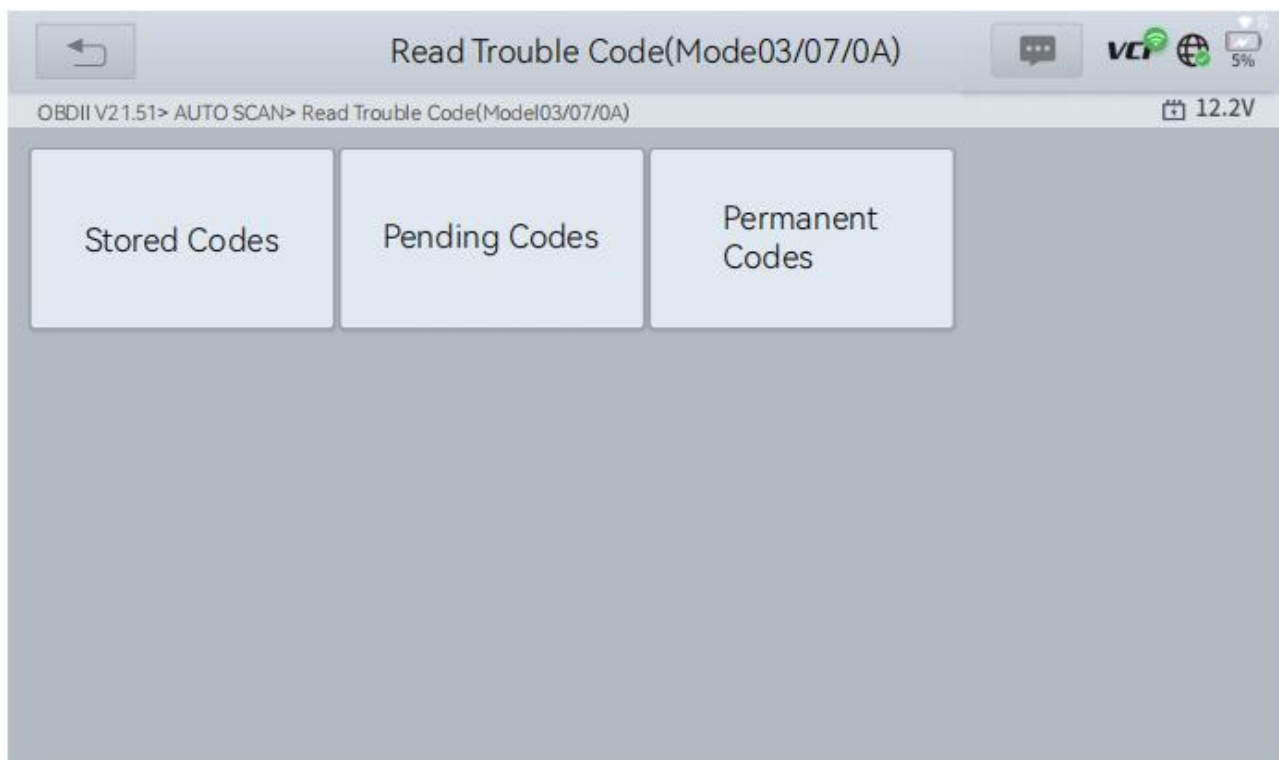
Mode \$0A – Permanent Trouble Codes

5.5 OBDII/EOBD Menu

5.5.1 Read Trouble Code

This option displays a list of current emission-related DTCs, including:

- Stored Codes (Generic and Manufacturer-Specific)
- Pending Codes
- Permanent Codes



5.5.1.1 Stored Codes

Stored DTCs are active fault codes that are stored in the vehicle's ECU when the onboard diagnostic system confirms a problem. These codes will typically illuminate the check engine light (MIL) immediately upon detection. Current DTCs can be cleared using the

diagnostic tool's erase function, though some may clear automatically after several problem-free drive cycles if the issue doesn't recur.

5.5.1.2 Pending Codes

Pending DTCs are temporary fault codes stored when a potential issue is first detected by your vehicle's monitoring systems. Unlike regular trouble codes, these won't turn on the check engine light immediately. The system keeps them as a warning - if the problem happens again on your next drive, they'll turn into confirmed trouble codes and activate the warning light. You can clear these pending codes with your diagnostic tool, or they'll disappear automatically if the issue doesn't recur after several driving cycles.

These codes are useful for spotting intermittent problems early or checking if a repair fixed an issue.

5.5.1.3 Permanent Codes

Permanent DTCs are fault codes that were severe enough to originally trigger the check engine light (MIL), and remain stored in the vehicle's computer even after the light turns off. These codes preserve a record of the fault whether the MIL was cleared manually or stopped illuminating because the problem didn't reoccur. They automatically erase only after: (1) the underlying issue is fully repaired, and (2) the system successfully completes 3 consecutive drive cycles without detecting the fault.

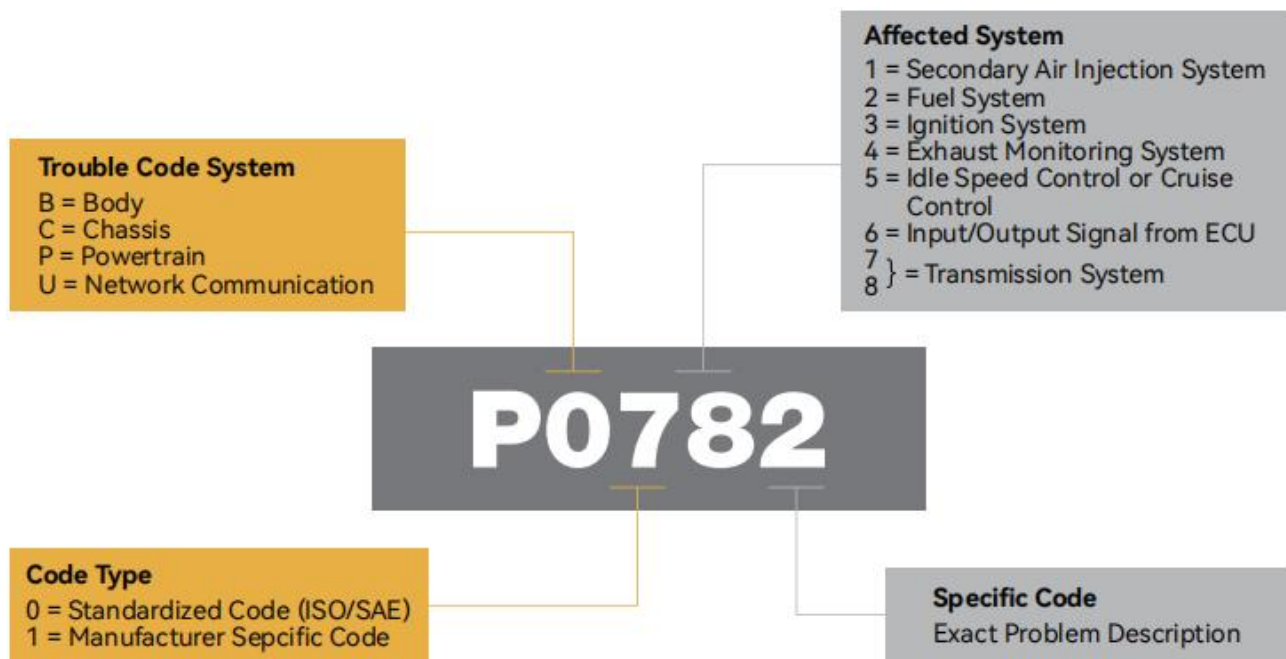
5.5.2 Generic & Manufacturer-Specific Codes

Code Definitions

Diagnostic Trouble Codes (DTCs) are used by OBDII systems to identify and communicate issues within the vehicle. The first character of a DTC indicates whether it is a generic code (applicable to all OBDII systems) or a manufacturer-specific code. The remaining three characters specify the affected system and circuit.

Generic Codes: DTCs with the second character as "0" are generic codes.

Manufacturer-Specific Codes: DTCs with the second character as "1" are specific to the vehicle manufacturer.



5.5.2.1 First DTC Character

The first character of a DTC is always a letter, indicating the general system where the fault is located. There are four types of codes:

- **P Codes:** Powertrain – issues related to the engine, transmission, drivetrain, or fuel system.
- **C Codes:** Chassis – problems in mechanical systems outside the passenger compartment, such as steering, suspension, or braking.
- **B Codes:** Body – faults in components within the passenger compartment area.
- **U Codes:** Network – problems with the vehicle's onboard computer systems or communication integration functions managed by OBD.

5.5.2.2 Second DTC Character

The second character in a DTC is a numeric digit—either “0” or “1”—that indicates the code's definition source:

0: Indicates a standard SAE international code (also called a generic code), applicable to all OBDII-compliant vehicles.

1: Represents a manufacturer-specific code (also referred to as an enhanced code), unique to the vehicle's make or model. For further details on such codes, consult the vehicle manufacturer directly.

5.5.2.3 Third DTC Character

If the second character is "0" (indicating a generic code), the third character specifies the malfunctioning subsystem. The values are defined as follows:

0: Fuel and air metering and auxiliary emission controls

1: Fuel and air metering injection system

2: Fuel and air metering (injection system)

3: Ignition systems or misfires

4: Auxiliary emission controls

5: Vehicle speed control, idle control systems, and auxiliary inputs

6: Computer output circuit

7-8: Transmission

5.5.2.4 Fourth and Fifth DTC Characters

The fourth and fifth characters of a DTC form a two-digit number ranging from 00 to 99, known as the "Specific Fault Index." This value identifies the exact nature of the malfunction.

5.5.3 Clear Trouble Code (Mode \$04)

This function clears all emission-related diagnostic data—including DTCs, freeze frame data, and test results—from the selected ECM's memory. Although OBDII/EOBD only displays generic data, clearing codes will erase all stored information, including enhanced codes and freeze frames.

A confirmation screen will appear to prevent accidental data loss. Select **Yes** to proceed.

5.5.4 Live Data (Mode \$01)

This function displays real-time emission-related data from the selected electronic control module (ECM). The data is displayed in two columns: the left column shows parameter descriptions, and the right column displays the corresponding values, units, or states.

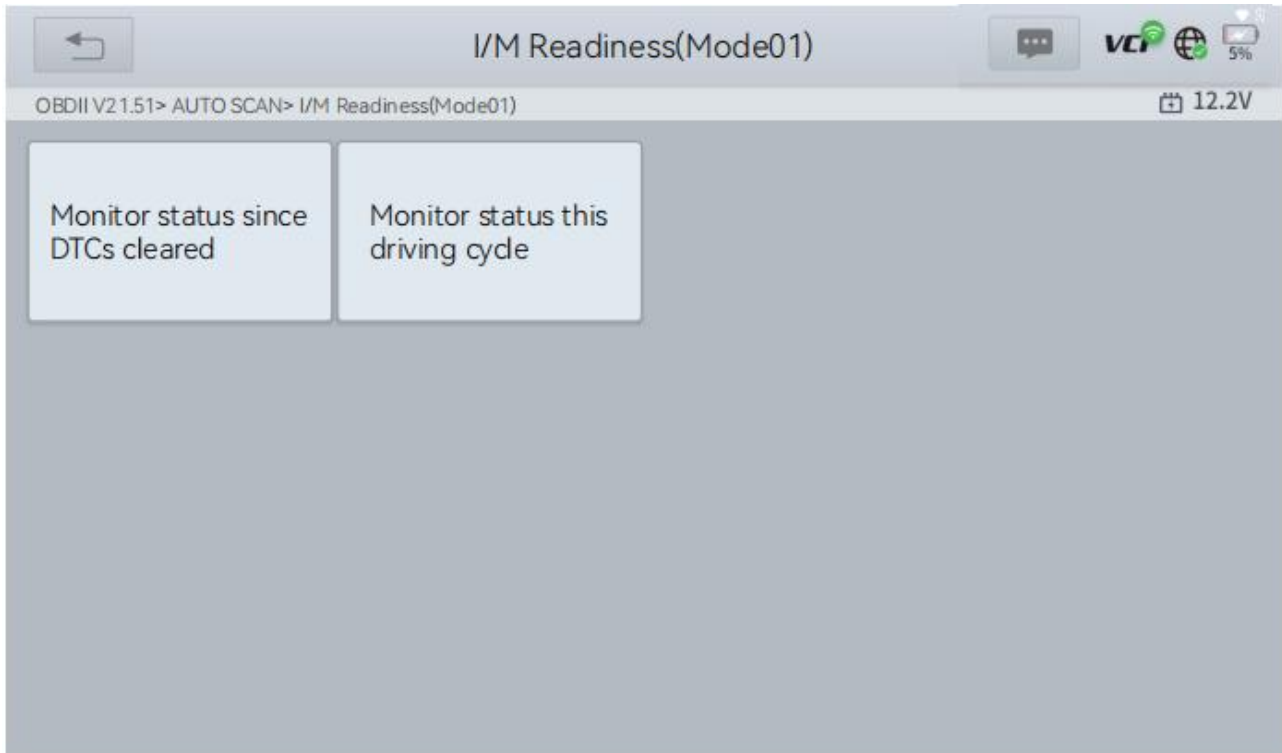
5.5.5 Read Freeze Frame (Mode \$02)

Freeze frame data captures a "snapshot" of key parameter values at the moment a DTC is triggered. This function displays freeze frame data for stored emission-related DTCs. Typically, the stored frame corresponds to the most recent DTC. However, higher-priority

DTCs—those with greater impact on emissions—may overwrite previous records, ensuring the most critical data is retained.

5.5.6 I/M Readiness (Smog Check)

This function checks the status of the vehicle's emission monitoring system, making it ideal for pre-inspection before state emissions tests. Selecting **I/M Readiness** opens a sub-menu with two options:



5.5.6.1 Since DTCs Cleared

Displays the status of emission monitors since the last time diagnostic trouble codes were cleared.

Monitor status since DTCs cleared			
OBDII V21.51> AUTO SCAN > I/M Readiness(Mode01)			12.2V
No.	Name	Value	Unit
1	Malfunction Indicator Lamp (MIL) Status	MIL OFF	
2	Misfire monitoring	OK	
3	Fuel system Monitoring	OK	
4	Comprehensive component monitoring	OK	
5	Catalyst monitoring	INC	
6	Heated catalyst monitoring	N/A	
Data recording Pause Graph			

5.5.6.2 This Driving Cycle

Displays the status of emission monitors since the start of the current driving cycle.

Monitor status this driving cycle			
OBDII V21.51> AUTO SCAN > I/M Readiness(Mode01)			12.2V
No.	Name	Value	Unit
1	Malfunction Indicator Lamp (MIL) Status	MIL OFF	
2	Misfire monitoring	OK	
3	Fuel system Monitoring	OK	
4	Comprehensive component monitoring	OK	
5	Catalyst monitoring	INC	
6	Heated catalyst monitoring	N/A	
Data recording Pause Graph			

5.5.7 O2S Monitoring Test (Mode \$05)

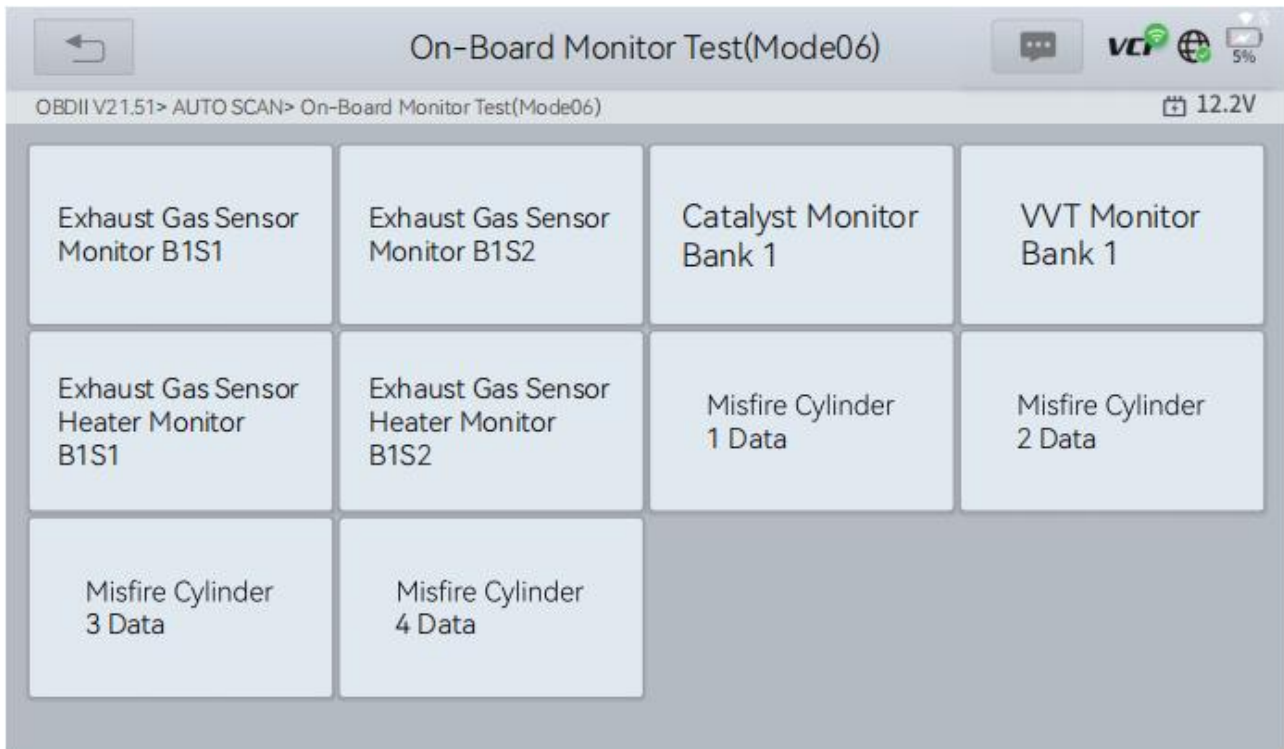
This function provides a menu of tests to evaluate the integrity of oxygen sensors. Selecting a test displays all relevant O2S parameters, with the test identification (ID) shown at the top of the data list.



5.5.8 On-Board Monitor Test (Mode \$06)

This function displays the results of On-Board Monitor tests, which are particularly useful after performing vehicle service or clearing control module memory.

A menu of available test results for monitored systems is provided, covering both continuously monitored components (e.g., misfire counters) and non-continuous monitors. Select a test to view its results.



5.5.9 Component Test (Mode \$08)

This function enables limited bidirectional control of the ECM, allowing the diagnostic tool to operate specific systems, tests, or components—such as initiating an EVAP leakage test. It is useful for verifying whether the ECM responds correctly to commands.

5.5.10 Read Vehicle Information (Mode \$09)

This function allows the diagnostic tool to request and display vehicle-specific information, such as the VIN, calibration identification, and CVN.

IMPORTANT:

Not all vehicles support every service mode. Available menu options may vary.

6. Special Functions & Maintenance Services

This chapter introduces various scheduled service and maintenance functions, also referred to as "Special Functions". These functions are typically presented as a series of menu-driven executable commands. By following the on-screen instructions—selecting appropriate options, entering correct values, and performing necessary actions—you will be guided through the complete process of executing each function.

Since vehicle configurations vary by model, specific operation steps for each function are not listed here. In general, please follow the prompts displayed on the tool screen.

For further assistance, please contact our support team at support@vdiagtool.com and provide the device serial number, vehicle VIN, and the required function.

6.1 Oil Reset

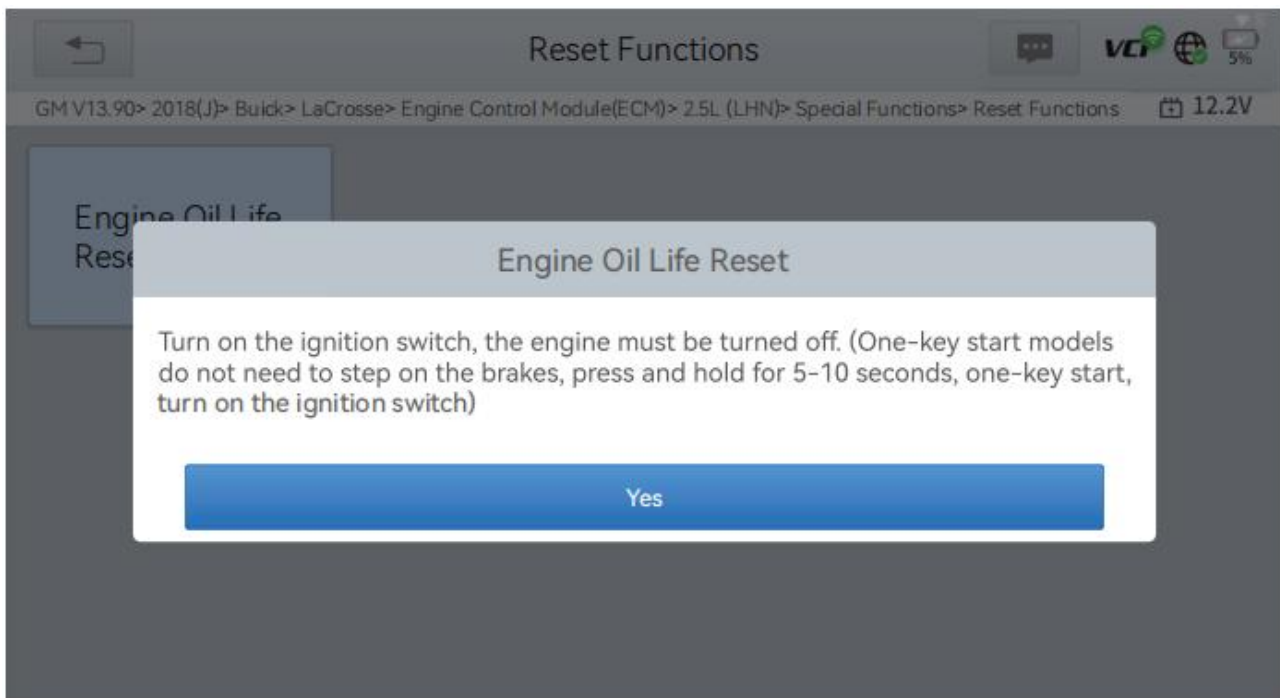
The diagnostic tool allows you to reset the engine oil life system, which estimates the optimal oil change interval based on driving conditions and climate. The oil life reminder must be reset after each oil change so the system can calculate the next service due date.

This function is used in the following scenarios:

- The service lamp is illuminated, indicating required maintenance. After servicing, reset the mileage or time to turn off the lamp and start a new service cycle.
- After an oil change or replacement of oil life monitoring sensors, the service lamp must be reset.

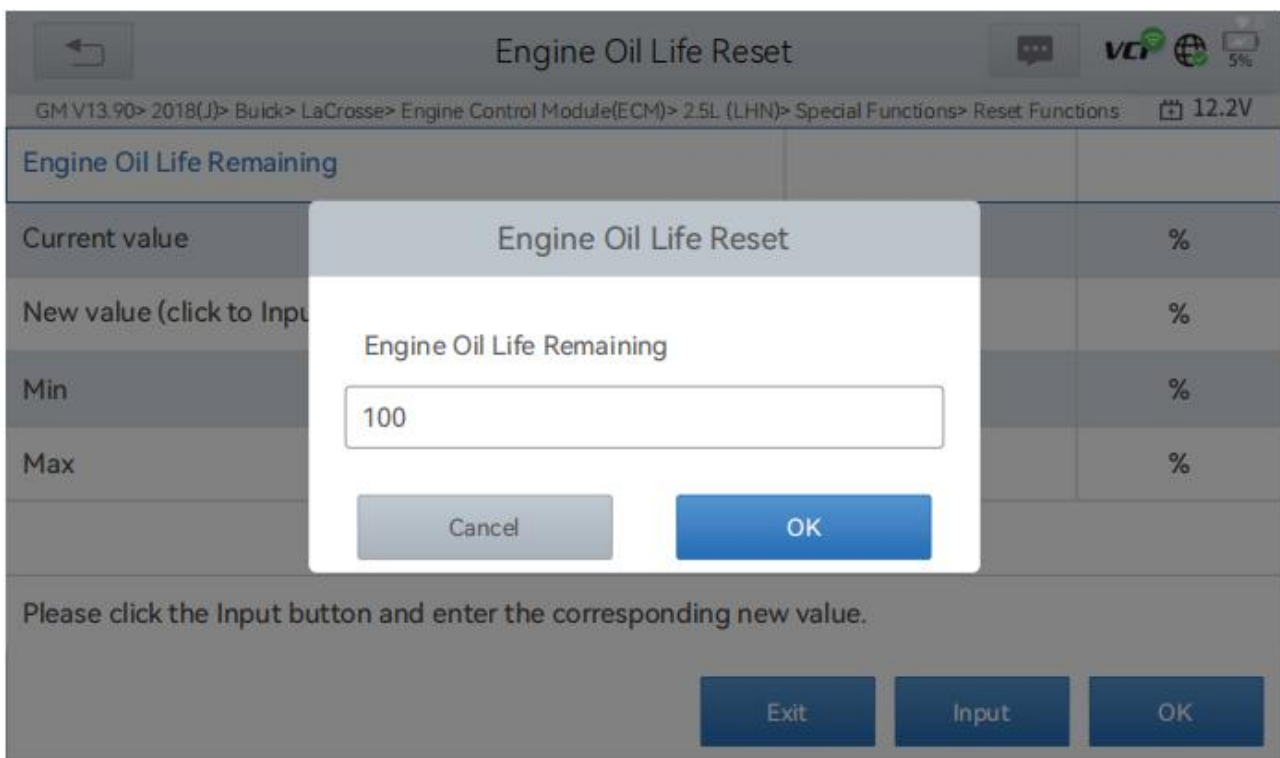
Operation Steps:

1. Enter the Oil Reset menu and select the vehicle model.
2. Follow the on-screen instructions specific to the vehicle and press OK after completing each step.



3. Enter the maintenance mileage reset menu.

4. Select **INPUT**, enter a reasonable value for the remaining oil life, and press **OK**.



5. Confirm the **[New Value]** and select **OK** in the lower right to complete the process.

Engine Oil Life Reset
VCI 5%

GM V13.90> 2018(J)> Buick> LaCrosse> Engine Control Module(ECM)> 2.5L (LHN)> Special Functions> Reset Functions
12.2V

Engine Oil Life Remaining		
Current value	50	%
New value (click to Input to change the value)	100	%
Min	0	%
Max	100	%

Please click the Input button and enter the corresponding new value.

Exit
Input
OK

6. A "Write successfully" message will appear upon completion.

Engine Oil Life Reset
VCI 5%

GM V13.90> 2018(J)> Buick> LaCrosse> Engine Control Module(ECM)> 2.5L (LHN)> Special Functions> Reset Functions
12.2V

Engine Oil Life Remaining		
Current value		%
New value (click to Input to change the value)		%
Min		%
Max		%

Engine Oil Life Remaining

Write sussessfully

OK

Please click the Input button and enter the corresponding new value.

Exit
Input
OK

6.2 EPB

The Electronic Parking Brake (EPB) reset function allows you to perform maintenance operations such as resetting the brake system, retracting or releasing brake pistons, and calibrating the G-sensor and vehicle level. It ensures safe and effective servicing of the

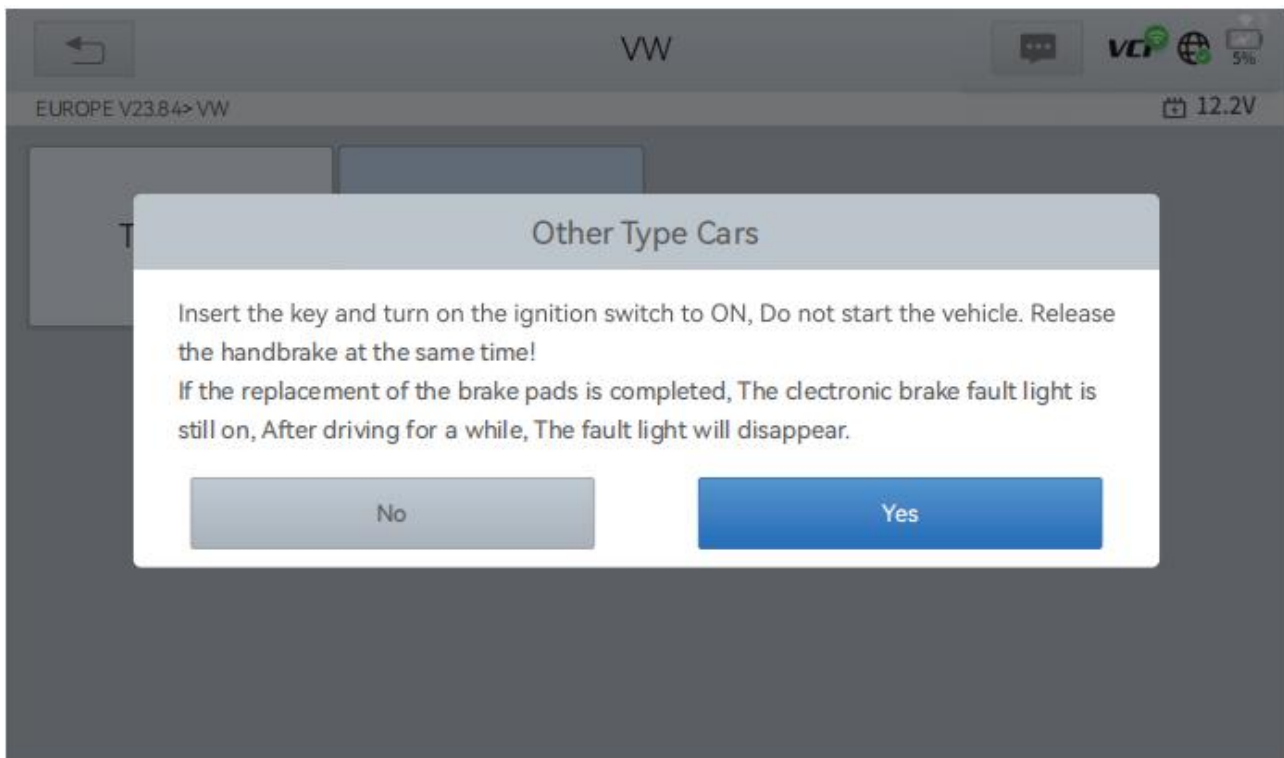
electronic brake system, including deactivating/activating control systems, assisting with brake fluid procedures, and applying/releasing brakes after replacing pads or discs.

Typical Use Cases:

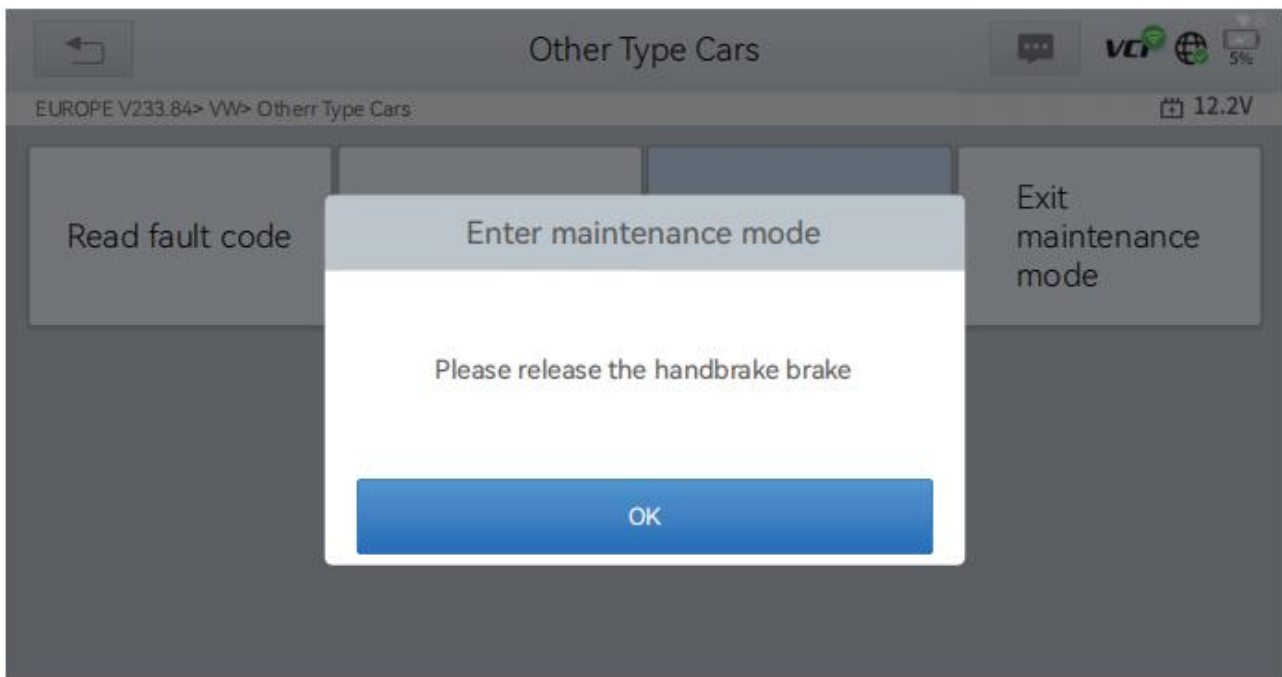
1. After replacing worn brake pads or sensors, a reset is required to clear related fault codes and prevent false warnings.
2. A reset is also necessary in the following situations:
 - The brake pad or wear sensor has been replaced
 - The brake pad indicator is illuminated
 - The brake sensor circuit is shorted
 - The servo motor has been replaced

Operation Steps:

1. Enter the EPB menu and select the corresponding vehicle model.
2. Follow the on-screen instructions and press **YES** when prompted.



3. Enter **Maintenance Mode**, release the handbrake, and press **OK**.



4. Wait for a **"Successful operation"** message, then press **OK**.
5. Select **Exit Maintenance Mode** and confirm upon another success message.

6.3 SAS

Steering Angle Sensor (SAS) calibration permanently stores the current steering wheel position as the straight-ahead reference in the SAS EEPROM. Before calibration, ensure the front wheels and steering wheel are precisely aligned in the straight-ahead position. The VIN is also read from the instrument cluster and stored in the SAS EEPROM. Upon successful calibration, all SAS fault codes will be cleared automatically.

This procedure establishes the zero reference point for straight-line driving, enabling the ECU to accurately calculate left and right steering angles.

When to Perform SAS Calibration:

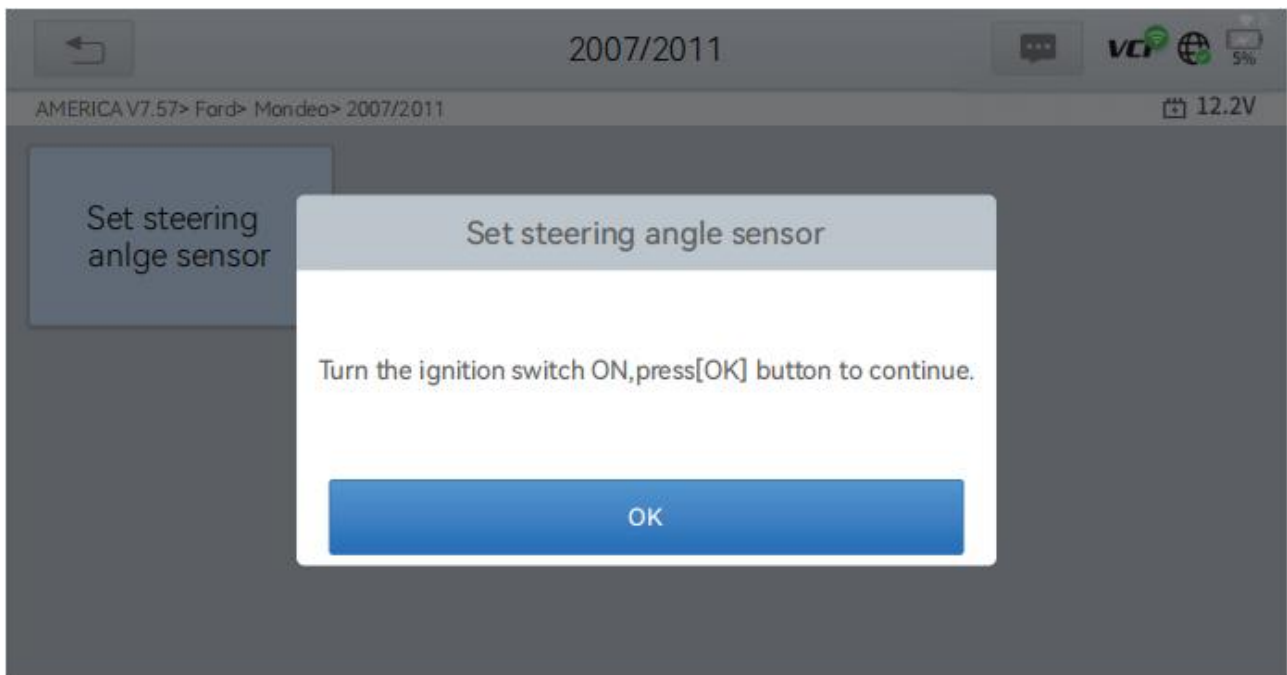
After any of the following services:

- Replacing the steering angle sensor
- Replacing steering mechanical components (e.g., gearbox, column, tie rod, knuckle)
- Performing a four-wheel alignment
- Repairing the vehicle body

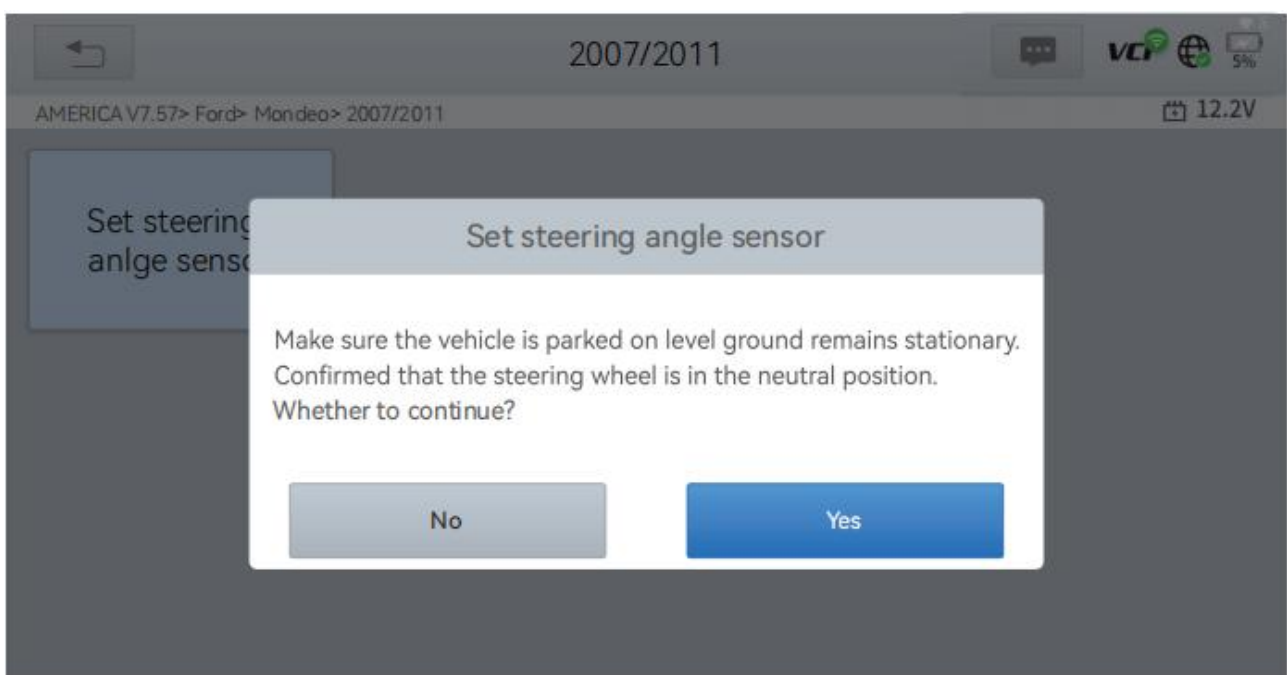
Operation Steps:

1. Enter the **SAS** menu and select the corresponding vehicle model.

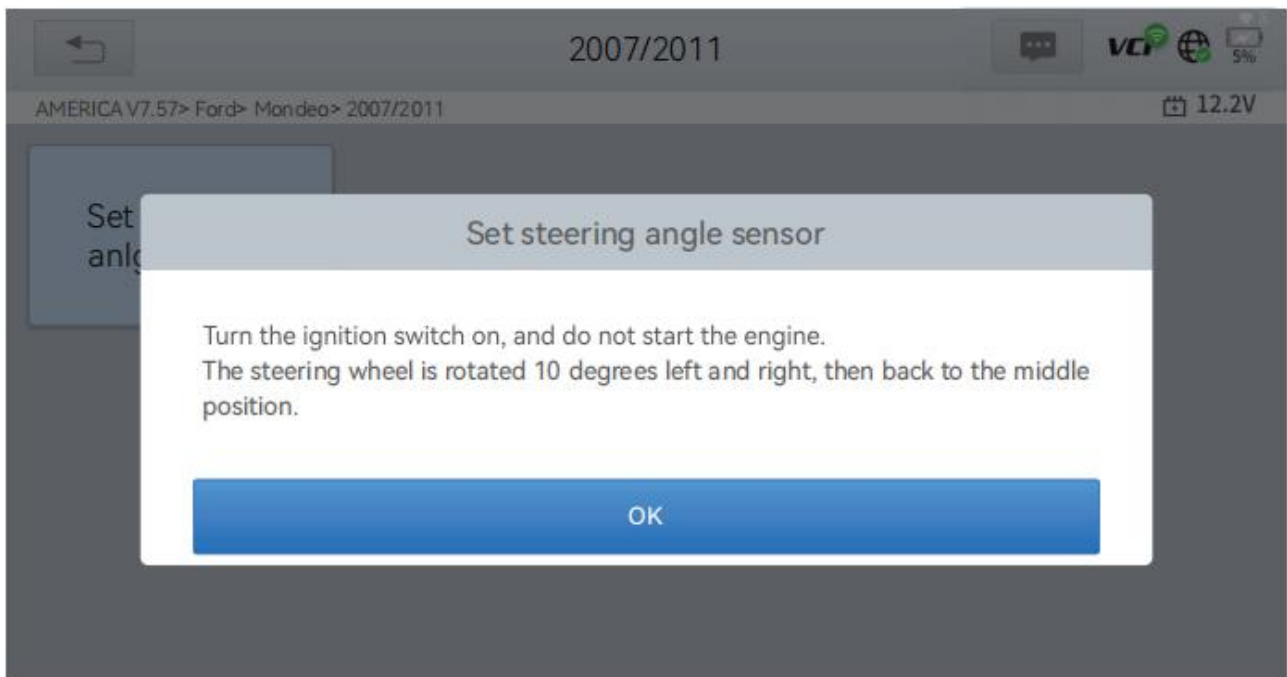
2. Choose **Set steering angle sensor** and follow the on-screen instructions.



3. When prompted, press **Yes** to proceed.



4. Continue following the instructions and press **OK** to confirm.



5. Wait for the **“Function execution is completed”** message to indicate successful calibration.

6.4 BMS Reset

The Battery Management System (BMS) Reset function enables the diagnostic tool to evaluate the battery state, monitor current, register battery replacement, and activate the vehicle's rest state. This process clears existing low-battery fault information and performs battery matching to ensure accurate power management.

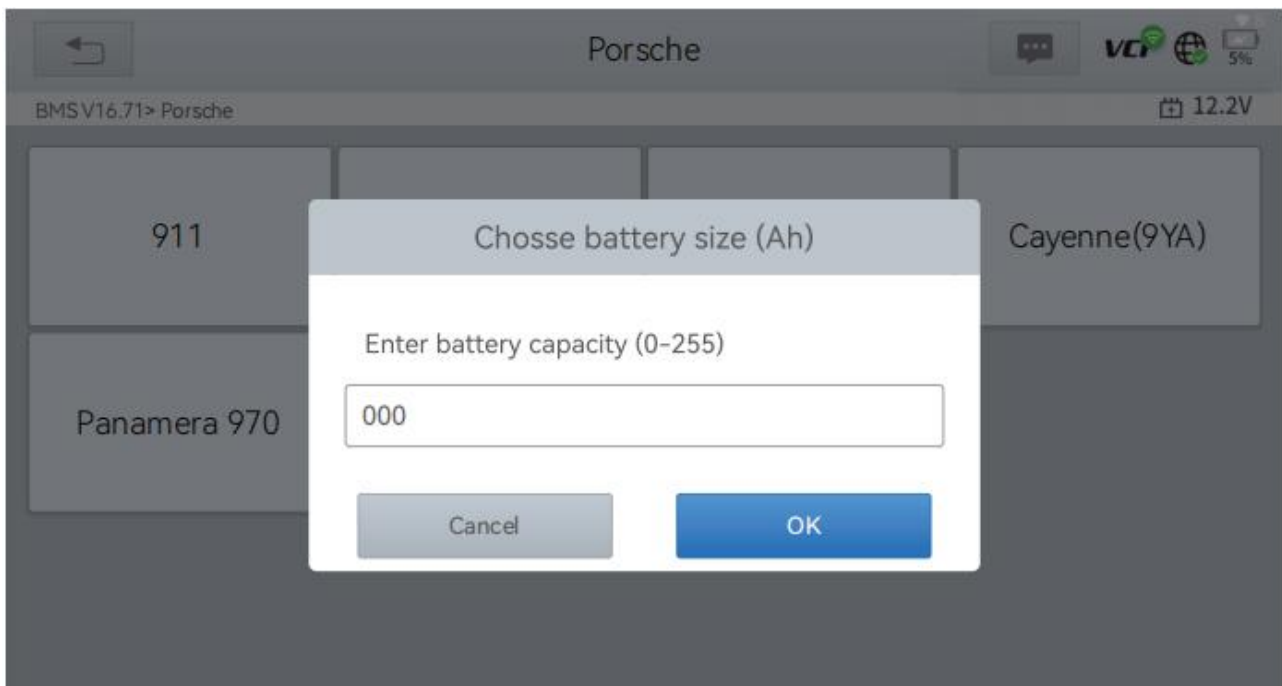
When to Perform BMS Reset:

- After replacing the main battery, to clear previous fault data and prevent false detection by control modules.
- To rematch the control module and monitoring sensor for accurate battery usage tracking, avoiding error messages on the instrument cluster.

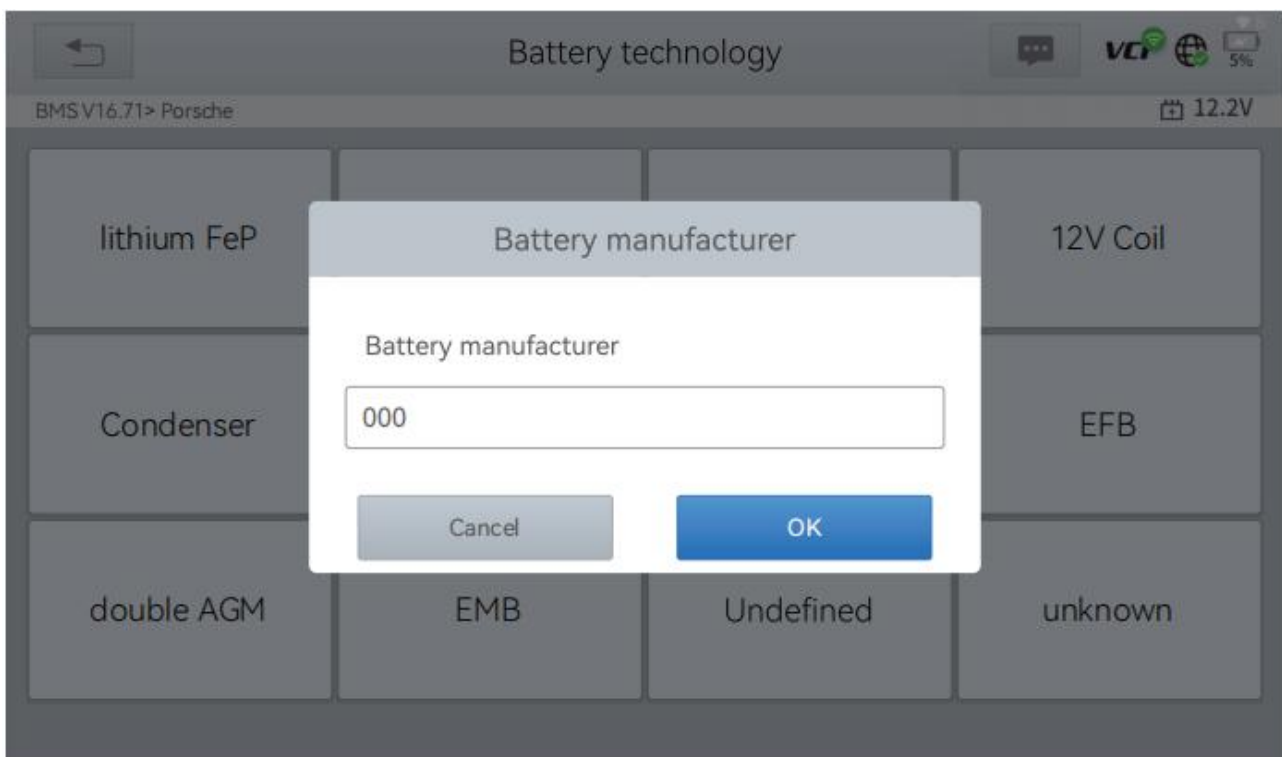
Failure to reset may disable electric features such as auto start-stop, one-touch sunroof, or automatic power windows.

Operation Steps:

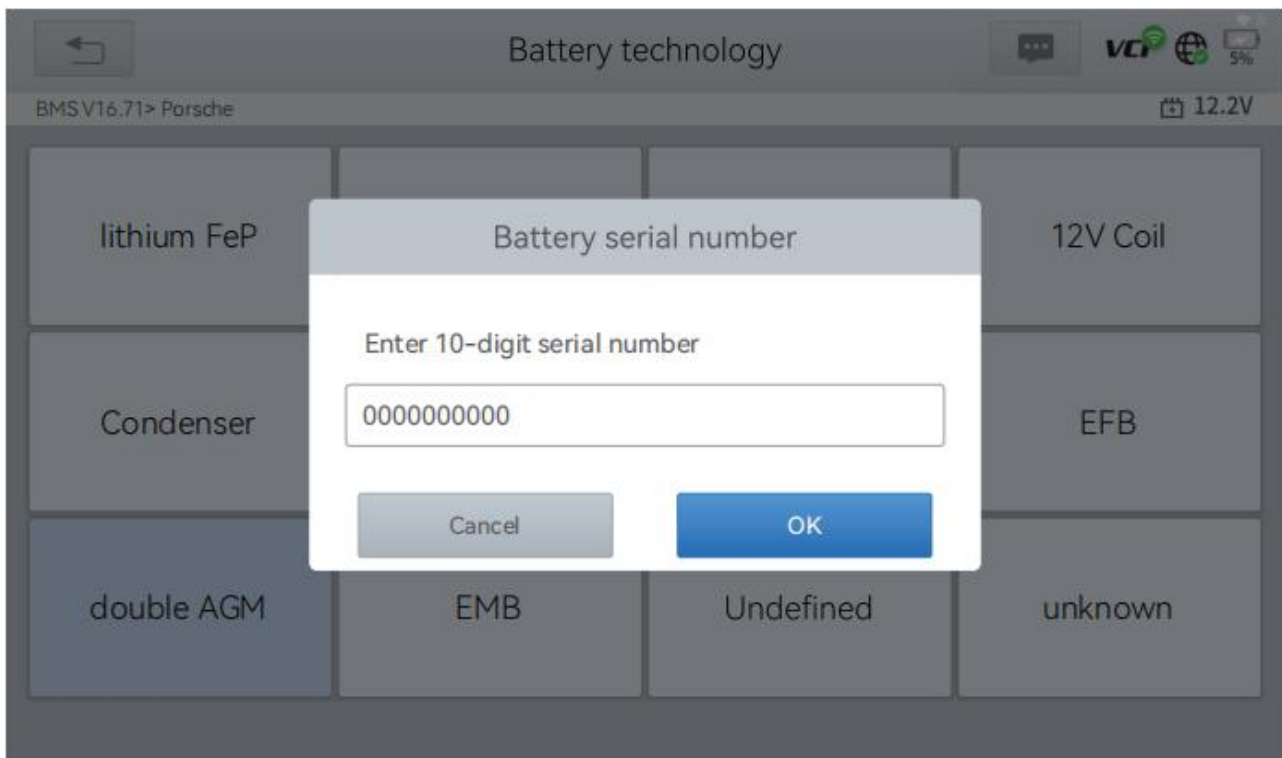
1. Enter the **BMS Reset** menu and select the corresponding vehicle model.
2. Turn on the ignition switch.
3. Press **OK** to continue.
4. Enter the battery capacity (within the specified range) and press **OK**.



5. Enter the battery manufacturer and press **OK**.



6. Enter the 10-digit battery serial number and press **OK**.



6.5 Injector Coding

This function writes the identification code of a fuel injector into the ECU, enabling the ECU to recognize and accurately control the new injector.

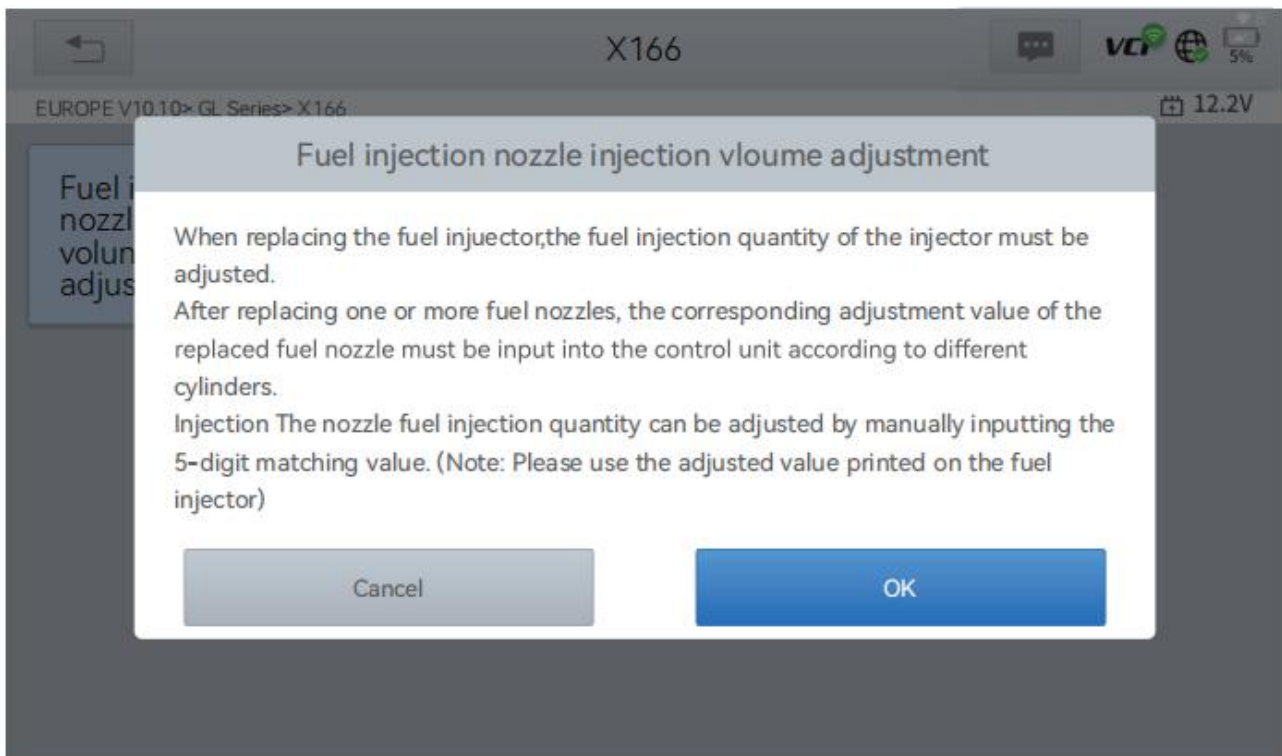
Injector coding is required after replacing the ECU or an injector to ensure proper cylinder-specific fuel injection control. Coding is typically not necessary after cleaning. The injector identification includes both precision and type values.

When replacing an injector, use a compatible model.

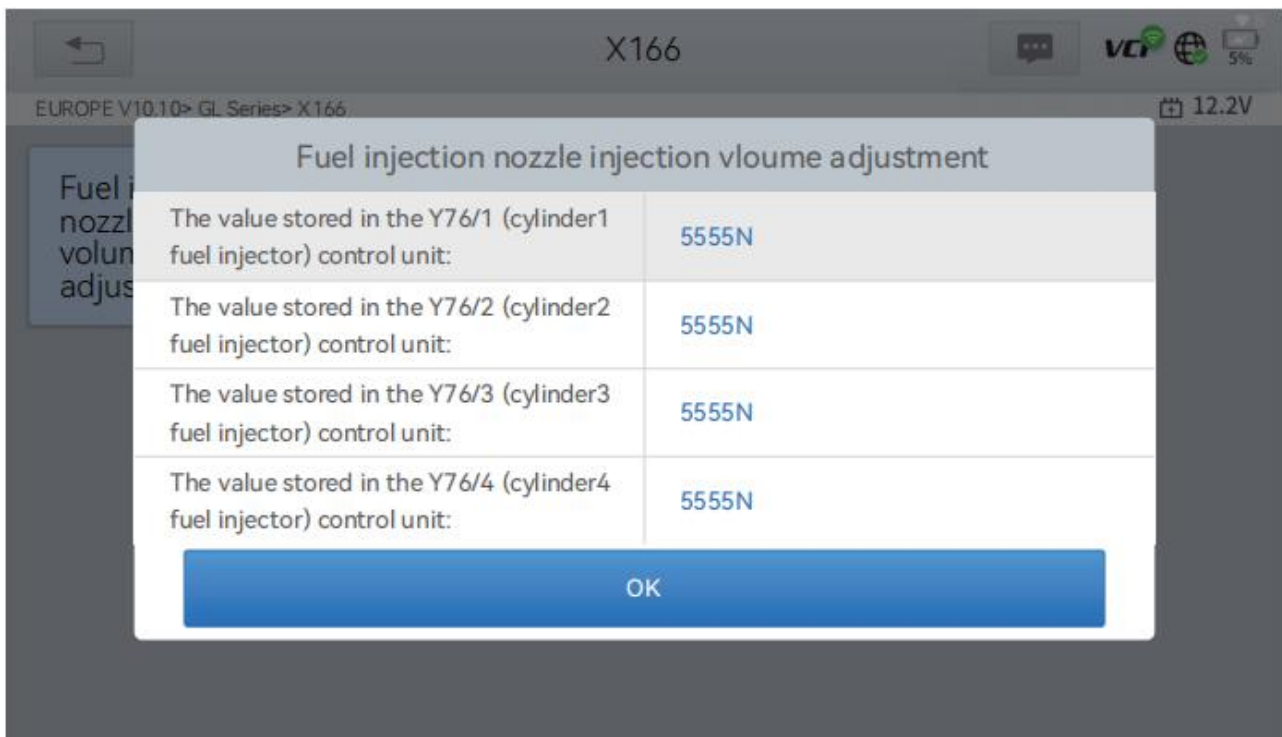
Most modern vehicles support injector coding.

Operation Steps:

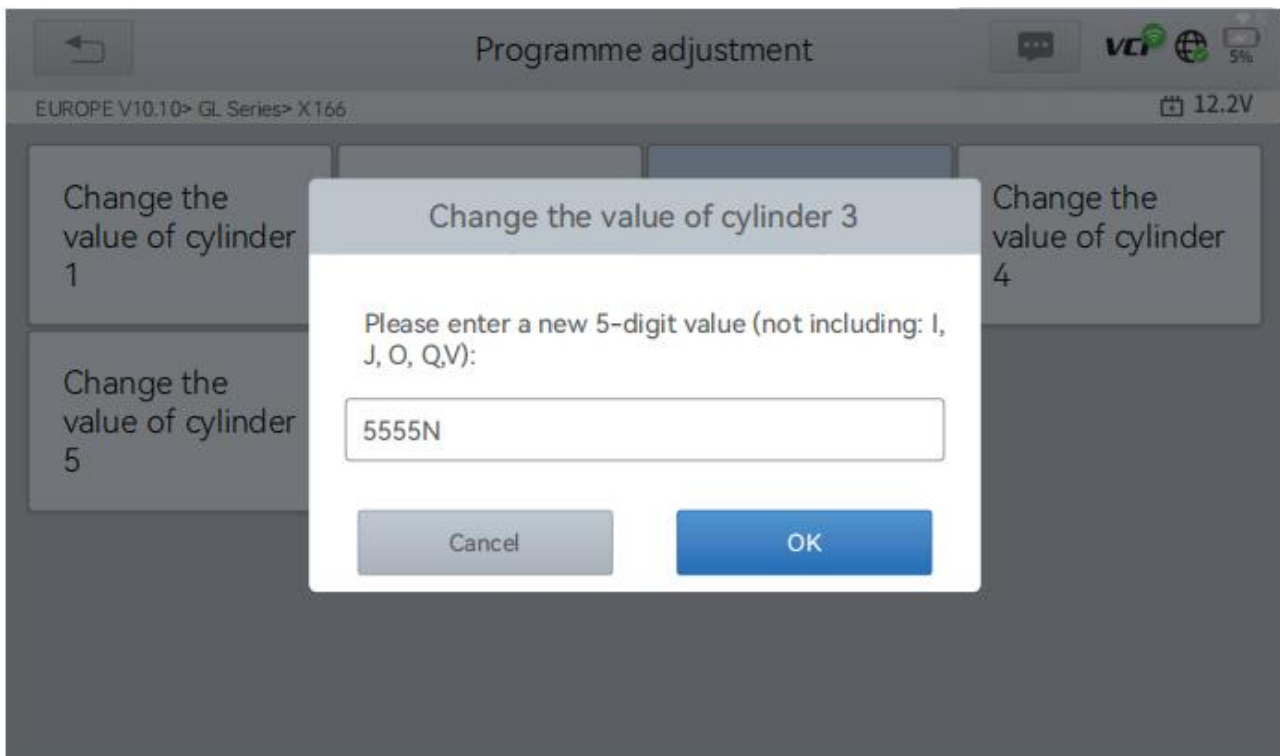
1. Enter the **Injector Coding** menu and select the appropriate chassis model.
2. Choose **Fuel Injection Nozzle Injection Volume Adjustment**.
3. Read the note carefully and press **OK**.



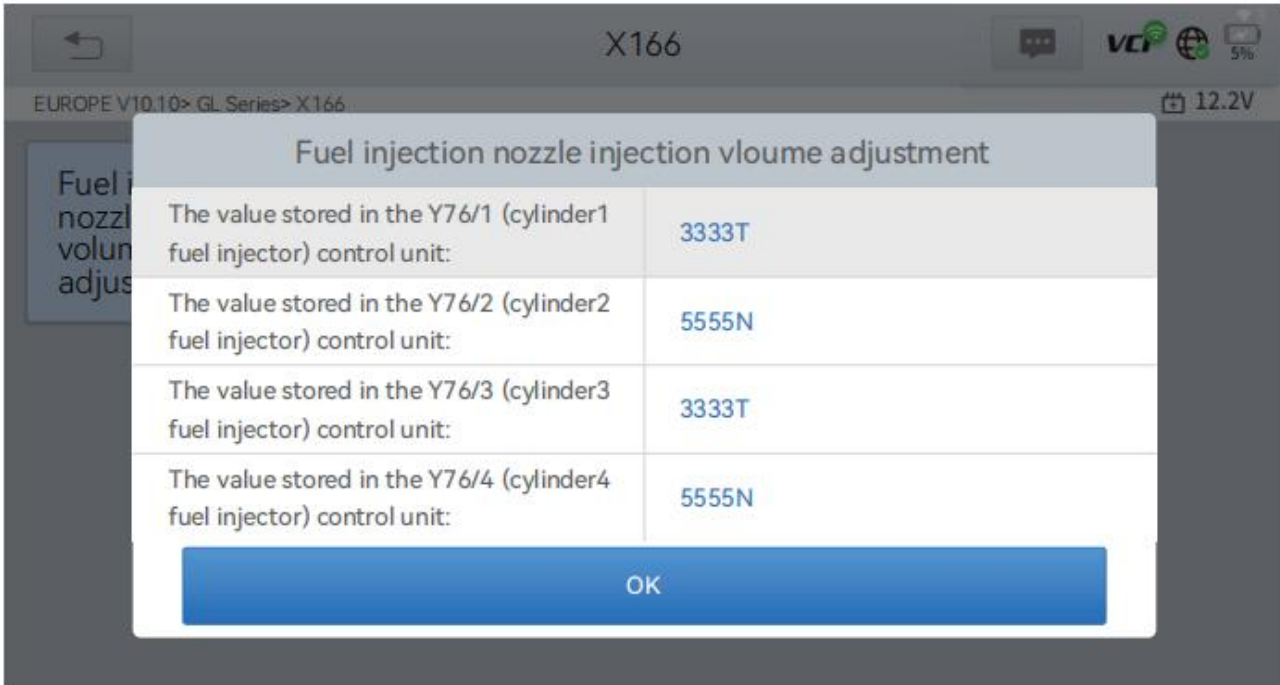
4. Review and confirm the current values stored for each cylinder.



5. For each replaced injector, enter the new 5-digit value and press OK. Wait for the "Write successfully" message.



6. Turn off the ignition switch.
7. When prompted, turn the ignition switch back on.
8. Re-enter the adjustment menu to verify the new values.



6.6 TPMS Reset

This function supports learning, matching, and resetting operations for tire pressure sensors.

When to Perform TPMS Reset:

- After replacing tires
- When troubleshooting tire pressure-related issues
- When the tire pressure sensor signal is lost

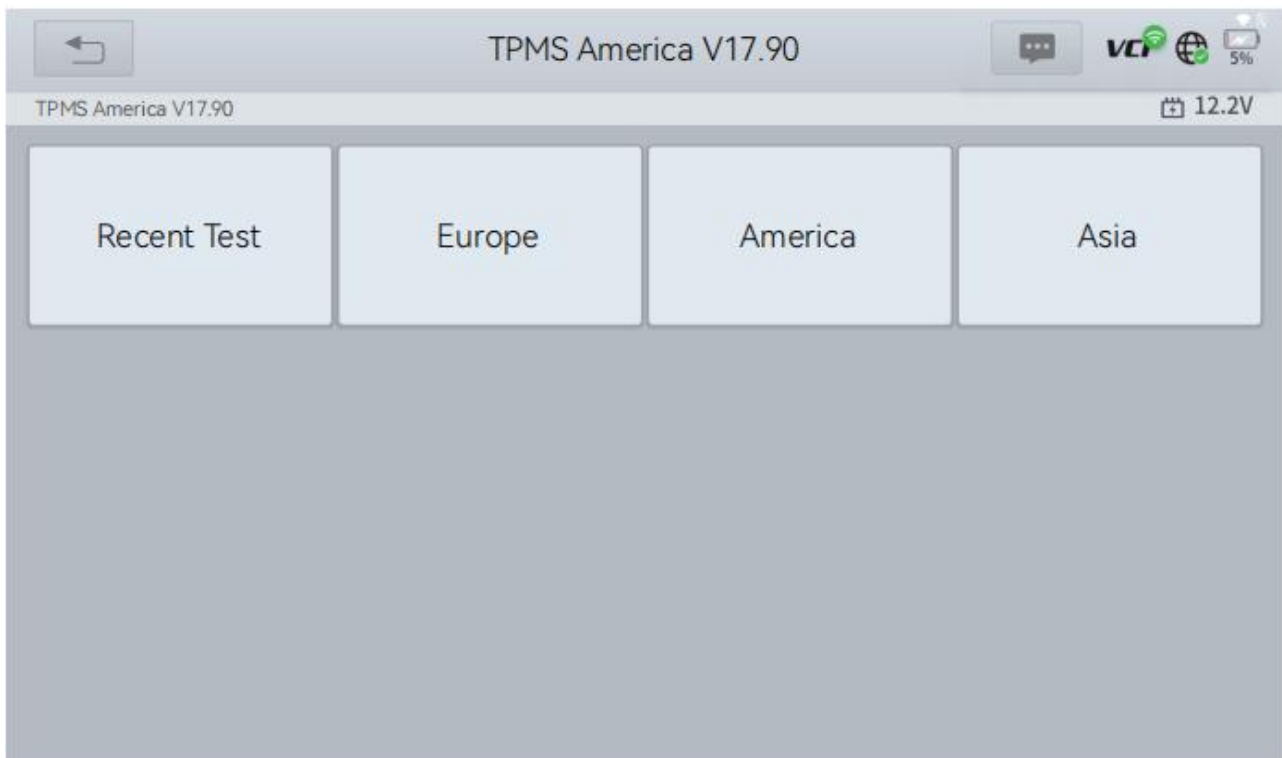
Important Notes:

- Some vehicle models require a TPMS activation tool for sensor matching.
- After resetting, driving for a period may be necessary to clear the fault light.
- Tire pressure imbalance can also trigger the tire pressure warning light.
- This function only works with pre-activated sensors. For new sensors, use a professional TPMS tool.

Even for the same vehicle model, the tire pressure monitoring system may vary depending on the region of manufacture. To accommodate these differences, the TPMS Reset function provides six regional sub-menus covering major automotive manufacturing regions: Korea, Japan, USA, China, Australia, and Europe.



Select the sub-menu matching the vehicle's region of origin, then choose the specific model to continue.



TPMS reset can be categorized into four methods—Automatic Relearn, Static Relearn, Copy ID, and OBD Relearn—depending on the specific vehicle model. Even when the relearning methods share the same name, the actual procedures may vary.

● **Automatic Relearn**

1. Install the tire pressure sensors correctly.
2. Adjust all tire pressures to the specified values.
3. Keep the vehicle stationary for over 20 minutes (engine and power off).
4. Drive at 30–100 km/h for more than 15 minutes.
5. The system will automatically relearn the sensor values, and the tire pressure warning will clear upon completion.
6. If relearn fails, repeat steps 2–5.

● **Static Relearn**

1. Install all tire pressure sensors correctly.
2. Apply the parking brake.
3. Turn the ignition to ON/RUN (engine off).
4. Enter tire pressure learning mode via the instrument panel (methods vary by model; refer to the vehicle manual or consult a professional).

5. Starting with the left front wheel (some models will flash the corresponding turn signal), activate the sensor using a TPMS Activation Tool. A horn sound or turn signal flash confirms successful activation.

Note:

Complete the first sensor activation within 2 minutes. If exceeded, repeat from step 4.

6. After left front activation, proceed in order: right front → right rear → left rear. Success is indicated similarly to step 5.

Note:

Complete the remaining sensors within 3 minutes. If exceeded, restart from step 4.

7. Turn off ignition and power. Adjust all tire pressures to specified values.

8. The tire pressure warning light will clear after success. If failed, repeat steps 4–7.

● **OBD Relearn**

1. A TPMS Activation Tool is required.

2. Install all tire pressure sensors correctly.

3. Adjust all tire pressures to the specified values.

4. Activate the sensors in the following order: left front → right front → right rear → left rear.

5. Connect the TPMS Activation Tool to the vehicle's OBD port and execute the **OBD Relearn** function to write the sensor IDs.

6. Keep the vehicle powered off for more than 25 minutes.

7. Drive at 30–100 km/h for over 15 minutes.

8. If successful, the tire pressure warning light will turn off. Otherwise, repeat steps 4–7.

● **Copy ID Relearn**

Note: This method requires copying the original sensor ID to the new sensor. If the new sensor does not support ID modification, it must be replaced using OEM-specific equipment.

Method 1:

1. Use a TPMS Activation Tool to read the original sensor ID.
2. Program the copied ID into the new sensor (ensure ID format matches the original).
3. Replace the original sensor with the newly programmed sensor and reinstall the tire.

Method 2:

1. Connect the TPMS Activation Tool to the OBD port, access the tire pressure system, and copy the target sensor ID.
2. Program the copied ID into the new sensor (ensure ID format matches the original).
3. Replace the original sensor with the newly programmed sensor and reinstall the tire.

Method 3:

1. Remove the original sensor.
2. Manually copy the original sensor ID to the new sensor using the TPMS Activation Tool (ensure ID format matches).
3. Install the new sensor, adjust tire pressure to the specified value, and reinstall the tire.

Notes:

A. **Tire pressure standards** are typically found in:

- The vehicle owner's manual
- A label near the driver's door (B-pillar)
- The driver's side storage compartment
- The fuel tank cap

B. This diagnostic tool cannot perform the functions of a dedicated TPMS activation tool. It supports TPMS reset/relearn functions but cannot activate sensors. For professional TPMS tools, consult your local dealer.

6.7 ABS Bleeding

The Anti-Lock Braking System (ABS) prevents immediate tire lock-up during braking. Maintaining ABS in optimal condition ensures full braking effectiveness, reduces braking time and distance, prevents skidding and loss of control during emergency stops, improves driving stability and steering control, and minimizes tire wear by avoiding excessive friction with the ground.

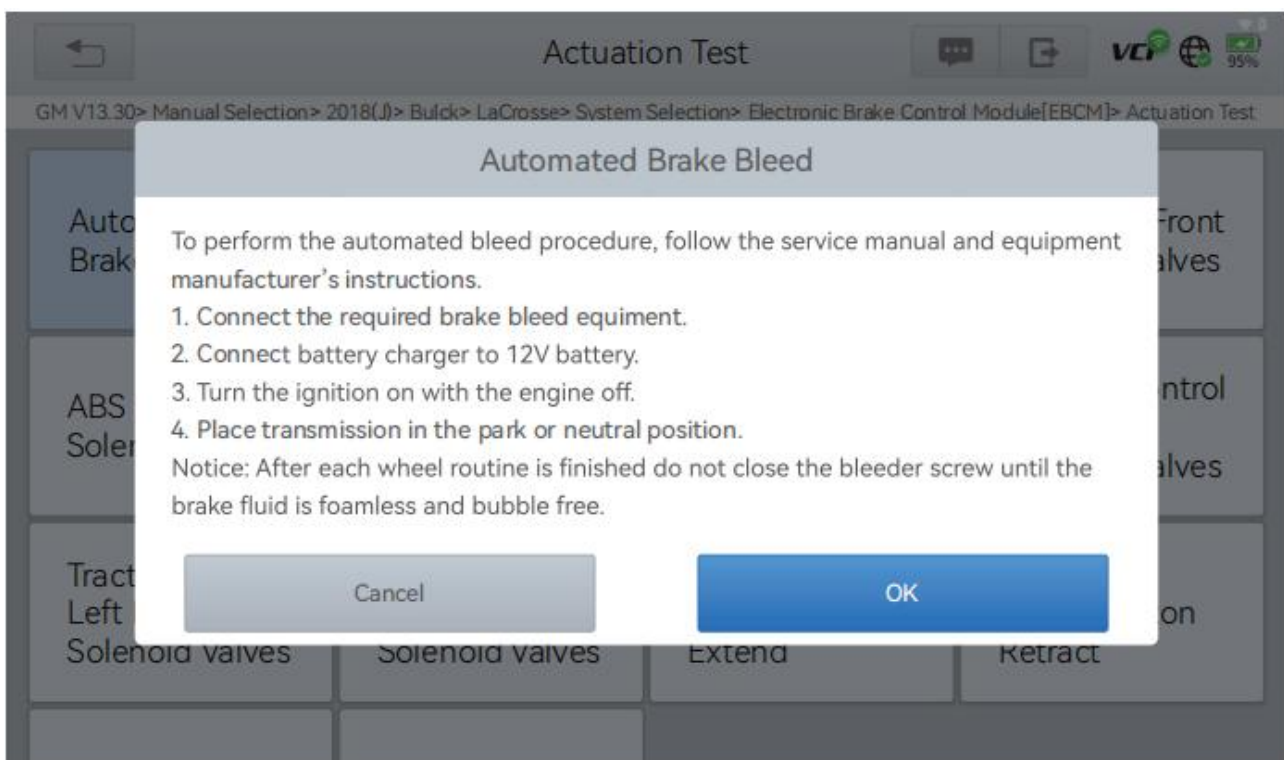
When air enters the ABS, the **ABS Bleeding** function must be used to purge the brake system and restore braking sensitivity.

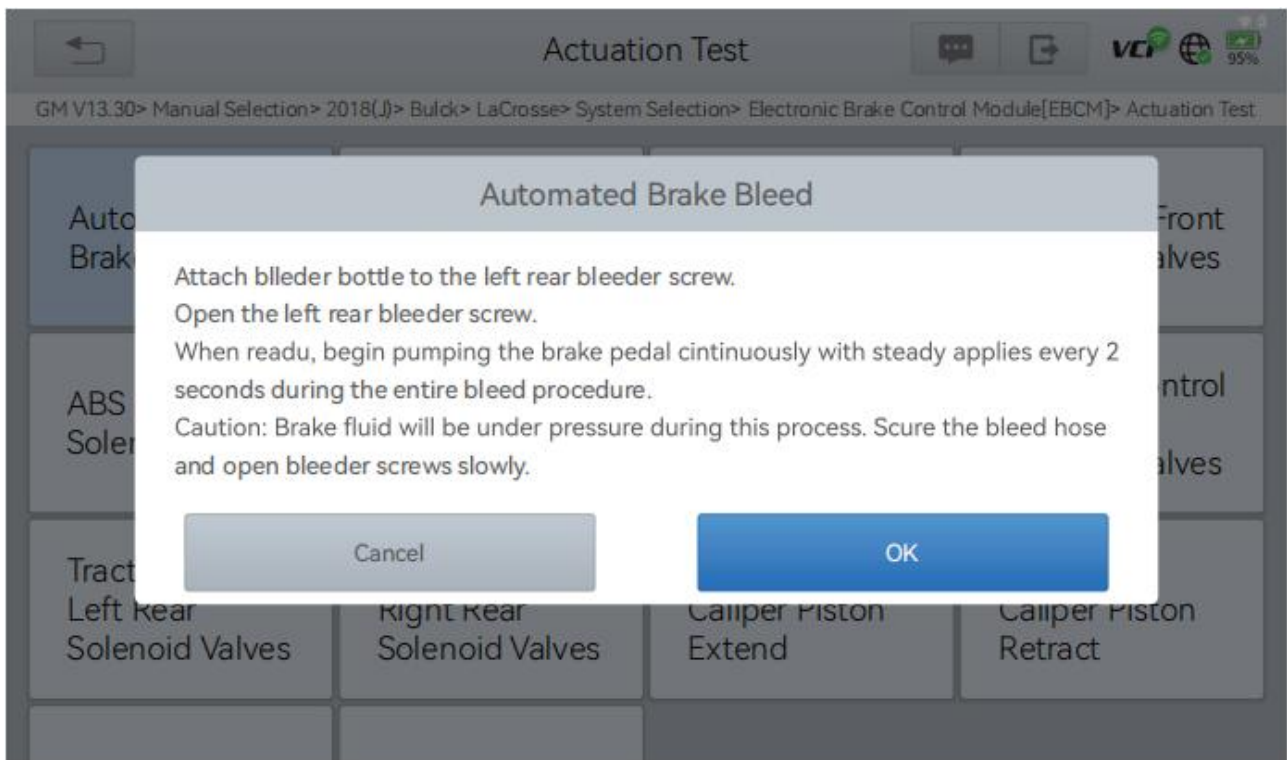
When to Perform ABS Bleeding:

- After replacing the front or rear brake distributor pump
- Severe brake fluid loss
- Brake fluid replacement

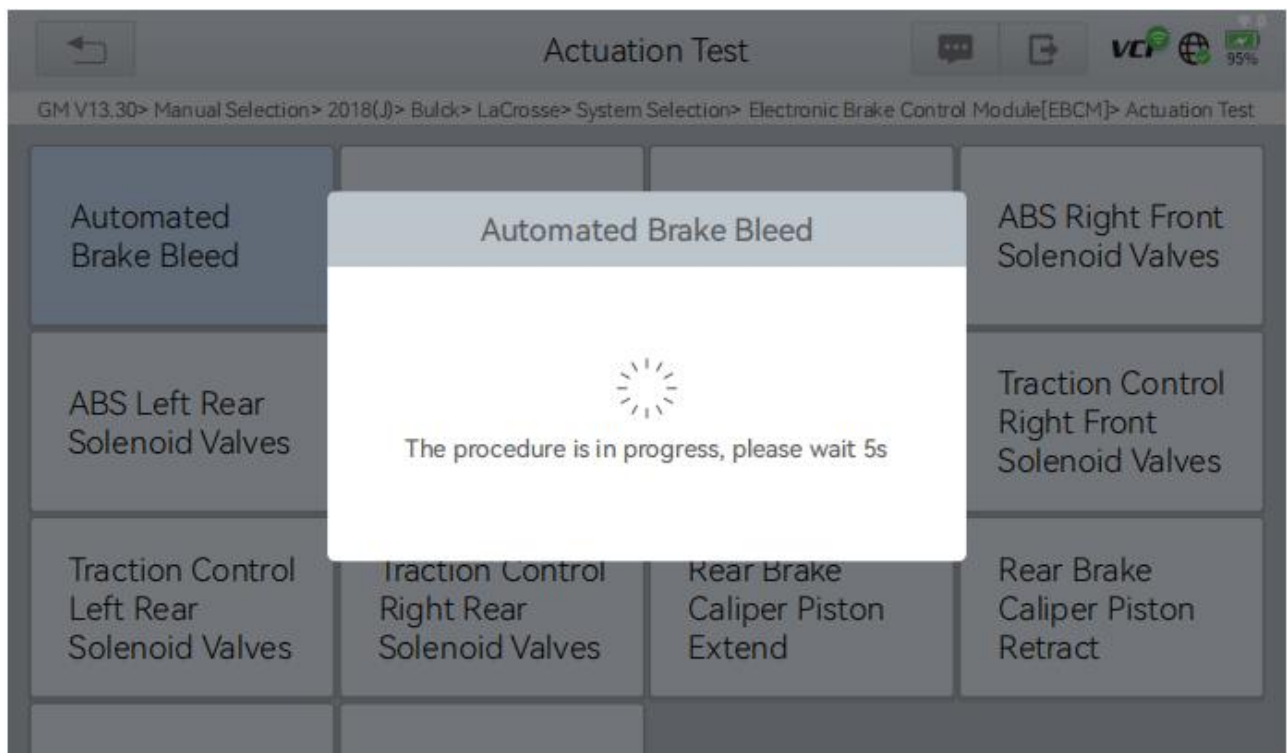
Operation Steps:

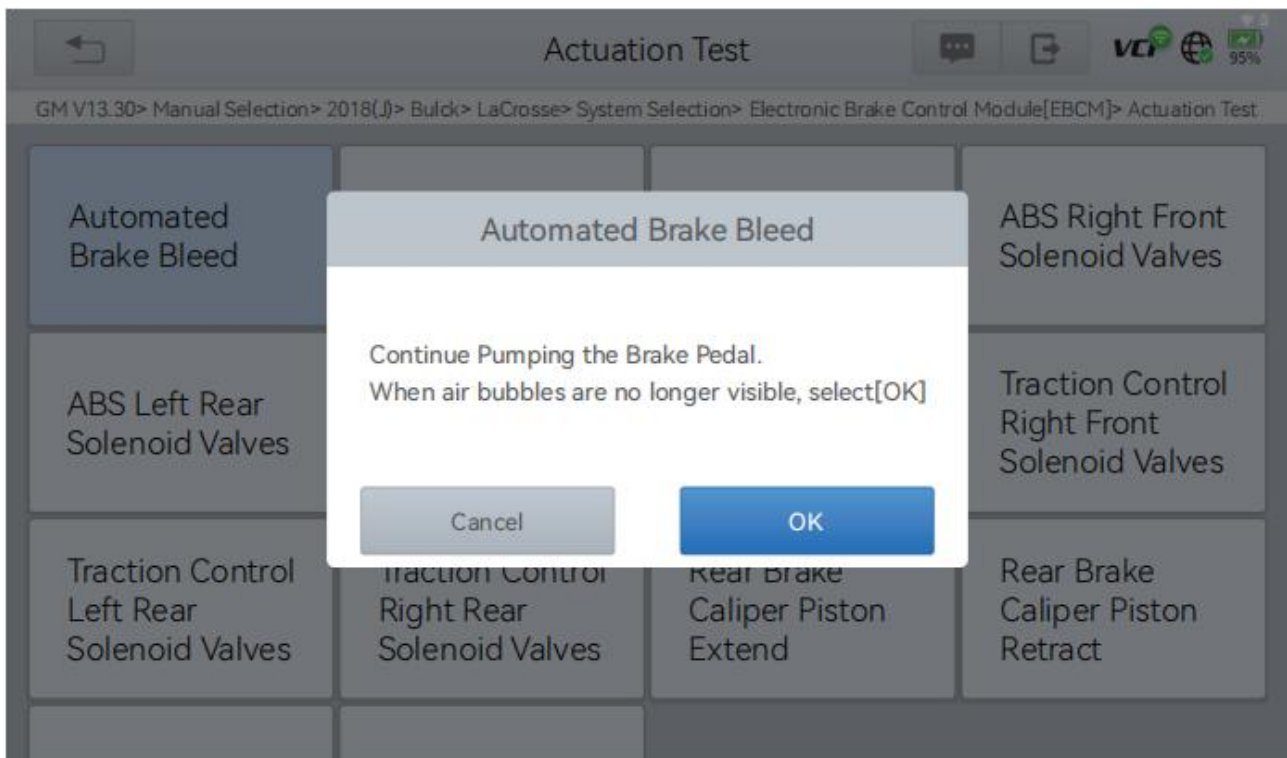
1. Carefully read the on-screen instructions and precautions before starting. Ensure the vehicle and equipment are properly prepared.
2. Attach a bleeder bottle to the left rear bleeder screw.
3. Open the left rear bleeder screw.



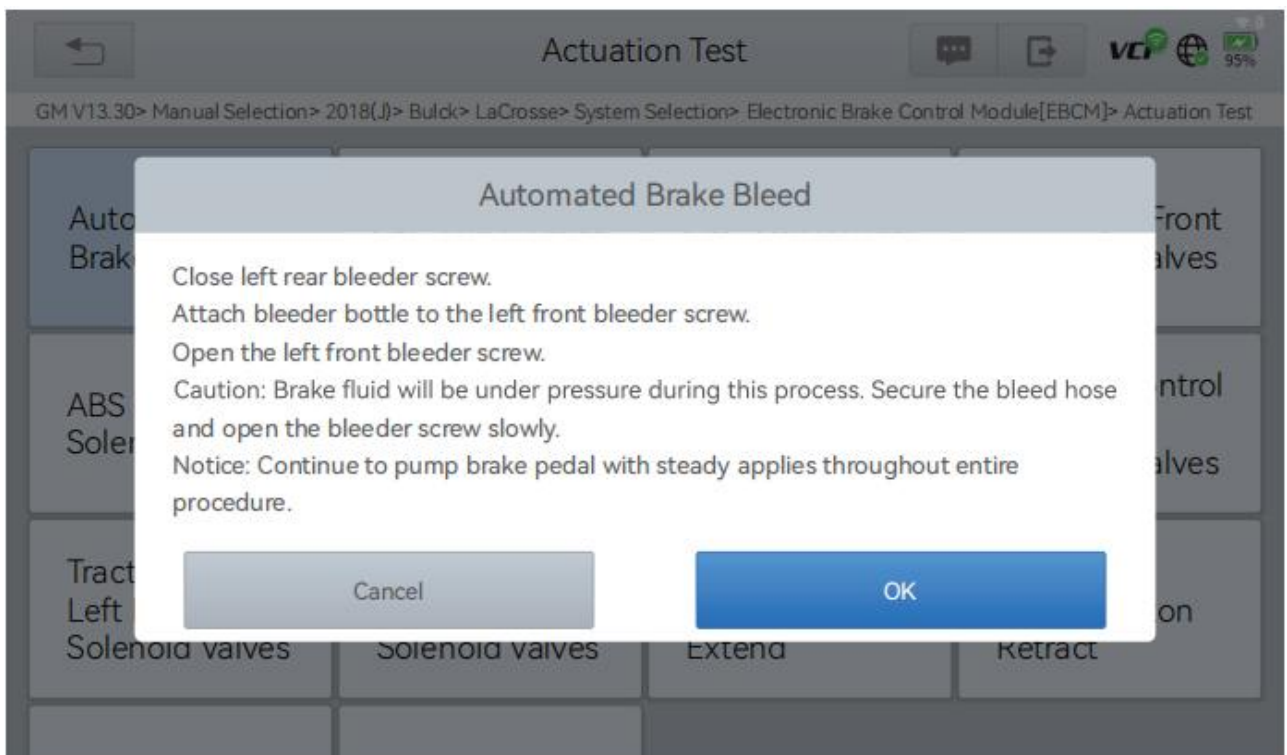


4. Click "**OK**" to begin the bleeding procedure. Continuously pump the brake pedal with steady applications every 2 seconds throughout the process.



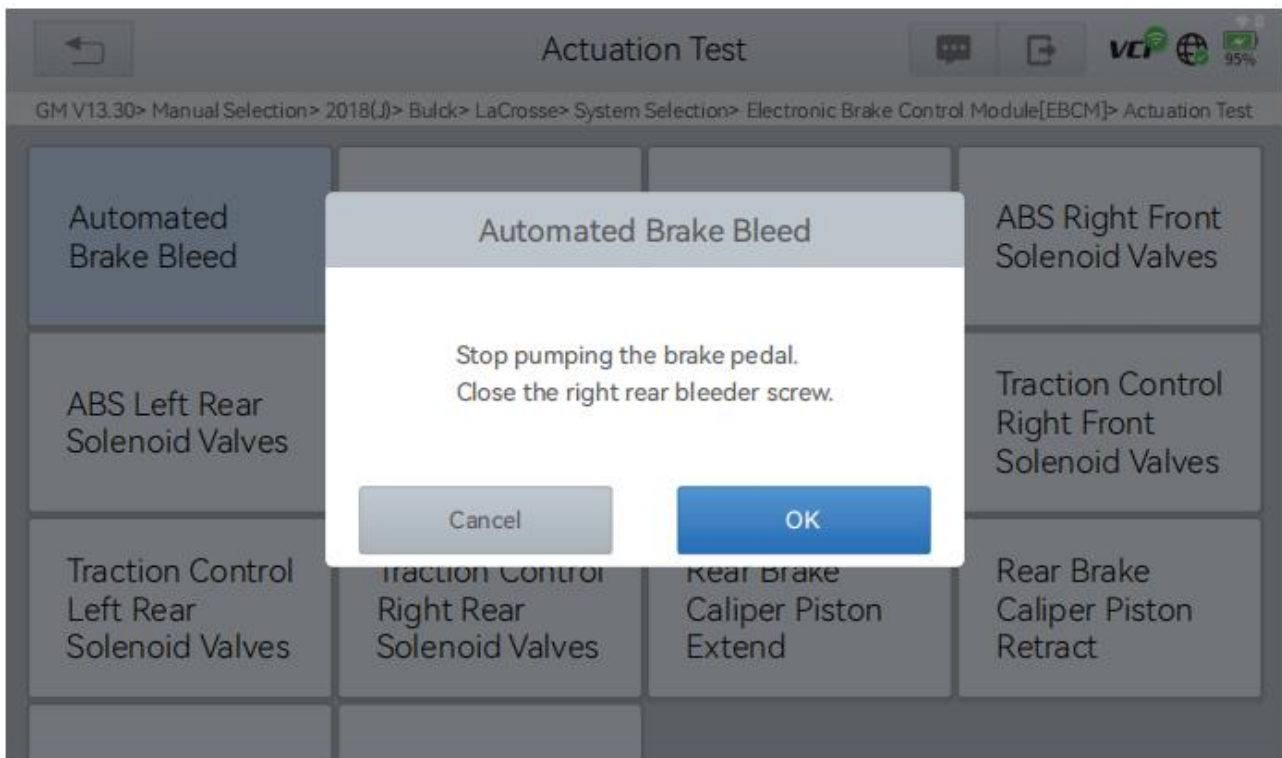


5. Continue pumping until no air bubbles are visible, then select OK to proceed to the left front wheel.

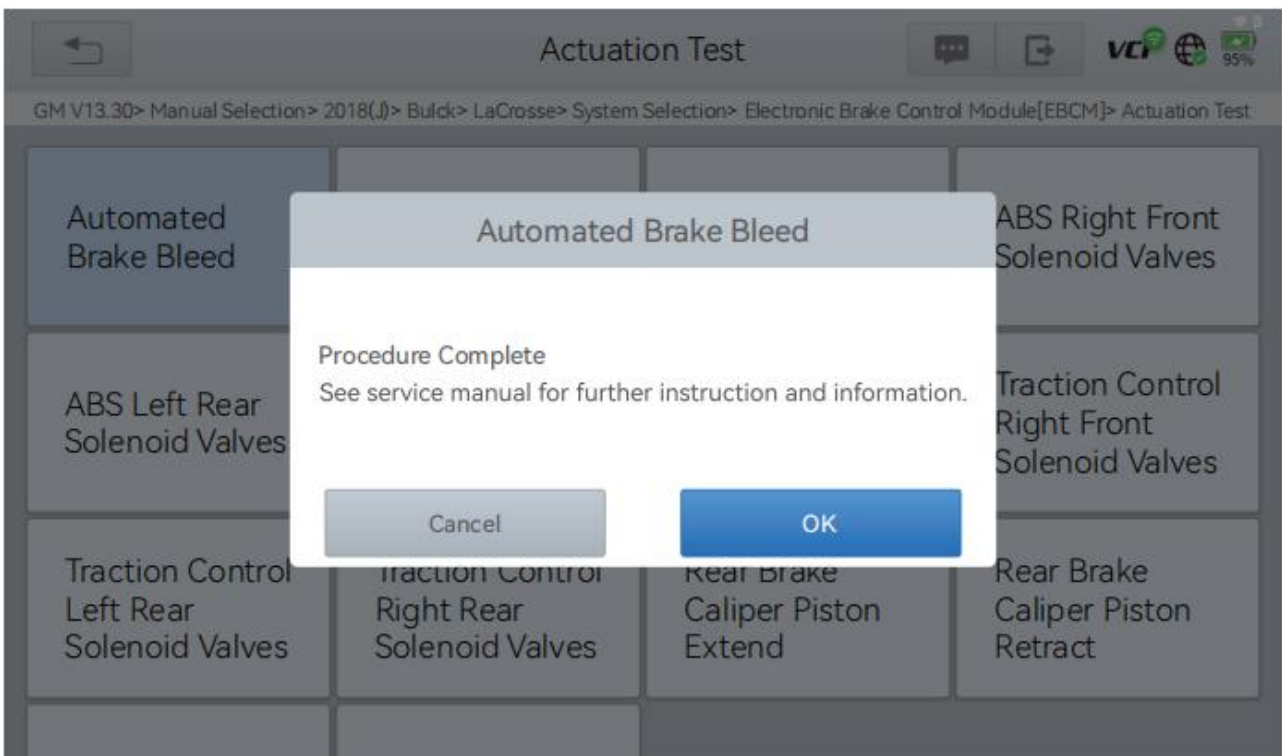


6. Repeat the bleeding operation three times for each wheel in the following sequence: left front → right front → right rear.

7. Stop pumping the brake pedal and close the right rear bleeder screw.



8. Select OK to complete the procedure.



Cautions:

- The ABS pump screw must be loosened before bleeding.
- Brake fluid may be under pressure—secure the bleed hose and open bleeder screws slowly.
- Some vehicles require manual bleeding instead of automatic support.

6.8 Power Balance

This function sequentially disables individual fuel injectors and monitors the corresponding drop in engine RPM. By comparing the power output reduction across cylinders, it identifies underperforming or malfunctioning cylinders based on their relative contribution to engine power.

6.9 Seat Calibration

Also referred to as *Seat Configurations*, this function is used to match or configure replaced or repaired seats equipped with memory functions.

6.10 EEPROM

This functions is designed to interface with an external EEPROM adapter (not included) for reading data from and writing data to the EEPROM chip.

6.11 Language Change

This function allows you to modify the system language displayed on the instrument cluster or control console.

6.12 Transport Mode

To prevent battery drain during shipment, vehicles are placed in Transport Mode at the factory. This state minimizes power consumption by deactivating non-essential systems. This function is used at the dealership to fully activate the vehicle by exiting Transport Mode.

6.13 Control Unit Reset

This function resets the ECU software to resolve faults caused by abnormal operating temperatures or voltage fluctuations.

6.14 Throttle

Also referred to as *Throttle Reset* or *Throttle Match*, this function resets the throttle actuators and clears learned values stored in the ECU, restoring them to default settings. This ensures precise control of throttle or idle regulation and accurate adjustment of air intake.

6.15 Rain/Light Sensor

This function is used to reset the rain/light sensor following the replacement of either the sensor itself or the front windshield.

6.16 A/F Reset

This function resets or relearns the air/fuel ratio parameters to optimize combustion efficiency.

6.17 HV Battery

This function checks the voltage of individual battery packs in hybrid or electric vehicles.

6.18 Gearbox Match

This function performs transmission self-learning to improve shift quality after disassembly or repair, resolving issues such as shifting delays or harsh engagement.

6.19 Speed Limit

This function is used to remove the speed limit on imported vehicles, as well as those designated for government or police use.

6.20 Crank Sensor Relearn

This function performs crankshaft position variation learning to turn off the Malfunction Indicator Lamp (MIL).

It is required in the following cases:

- After replacing the engine ECU, crankshaft position sensor, or crankshaft flywheel.
- When a DTC indicating "tooth not learned" is present.

6.21 Clutch Adaption

This function is used to perform a clutch reset or adaptation after replacing the clutch assembly or the gear shifting motor.

6.22 Stop/Start Reset

This function enables or disables the automatic Start/Stop feature by modifying hidden settings in the ECU (requires vehicle hardware support and hidden function availability).

6.23 FRM Reset

This function is used to reset the Footwell Module (FRM) when malfunctions occur in the doors, windows, or headlights due to unstable voltage.

6.24 EGR Relearn

Also known as EGR Adaptation, this function recalibrates the Exhaust Gas Recirculation (EGR) valve after cleaning or replacement.

6.25 A/C Relearn

This function performs an AC system recalibration after replacing the AC ECU or actuator, or when ECU memory loss occurs.

6.26 Headlight

Also referred to as *Headlight Adjustment*, *Headlight Matching*, or *AFS Reset*, this function initializes the adaptive headlight system. It enables automatic headlight activation based on ambient light, and adjusts the lighting angle according to vehicle speed, body posture, and other driving conditions.

6.27 SRS

This function is used to reset the SRS (Supplemental Restraint System) acceleration sensor after it has been replaced or when it is faulty. A successful reset ensures that accurate data is provided to dependent systems, which include the SRS airbag control, anti-theft system, and navigation system.

6.28 Windows Initialization

This function restores the power window automatic operation and ECU memory by performing window matching, typically required after vehicle battery disconnection causes window malfunction.

6.29 VGT Relearn

Also referred to as *VGT Turbo Calibration*, this function calibrates newly installed variable geometry turbocharger (VGT) components. It is required after initial installation or

replacement of a VGT, and when the component is detected operating outside its normal range.

6.30 Coolant Bleeding

Also known as *Electric Water Pump Activation*, this function activates the electric water pump following its replacement to ensure proper coolant circulation.

6.31 Suspension

This function adjusts the vehicle height sensor and performs level calibration in air suspension systems. It is used after replacing the height sensor or control module, or when the vehicle level is incorrect.

6.32 Airbag Reset

This function is used to reset the airbag system and turn off the airbag warning light after replacing an airbag component. It can also clear crash data from the control module.

Note:

Clearing crash data is only supported on specific vehicle models.

6.33 Tire Size Reset

This function resets the tire size configuration in the vehicle system when tires are replaced or upgraded.

6.34 AdBlue Reset

The AdBlue system consists of a tank, a pump and various sensors to monitor liquid level pressure and temperature. Whereas, AdBlue Reset is the process of resetting the AdBlue system counters after refilling the AdBlue tank.

In a diesel vehicle, we need to add AdBlue in addition to diesel. However, this AdBlue is not for combustion in the engine, but for treating the engine exhaust.

Insufficient AdBlue in a diesel vehicle will cause the engine to fail to start, and it is necessary to add AdBlue again and use the special function of the Diagnostic Tool to remove the vehicle restrictions.

6.35 ECU Configuration

Due to the difference between high-end and low-end vehicles, many low-end models have hidden high-end functions. Releasing these hidden functions can bring convenience to car owners, but flashing hidden functions involves programming and coding knowledge, and sometimes you have to enter the channel number, etc., so you must be familiar with the various configurations of the car to accurately turn on the required functions.

Use the Diagnostic Tool to query the hidden functions that can be flashed on the vehicle and flash them.

Common hidden functions include: passive tire pressure monitoring, one- button car search, automatic locking, speeding reminder, seat belt reminder function, etc.

6.36 Sunroof Initialization

When the vehicle battery is disconnected, the windows may not work right. This function is used to perform sunroof matching to recover the ECU initial memory, and recover the automatic ascending and descending function of power window.

6.37 TCM Oil Reset

The diagnostic tool can be used to reset the TCM oil life system, which calculates the optimum oil life change interval based on the vehicle's driving conditions and climate. The oil life reminder must be reset each time the oil is changed so that the system can calculate when the next oil change is due.

7. Settings

This chapter introduces the configuration options for the diagnostic software and tablet device, including language selection, measurement units, USB port mode, and other system preferences.

7.1 Language

To use the diagnostic program in your desired language, please contact our support team and provide the serial number (S/N) of your diagnostic tool to authorize the corresponding language software.

After authorization:

1. Go to **Settings** → **Language** on your diagnostic software and select the target language.
2. Navigate to the **Update** menu to download the complete software package for the newly set language.



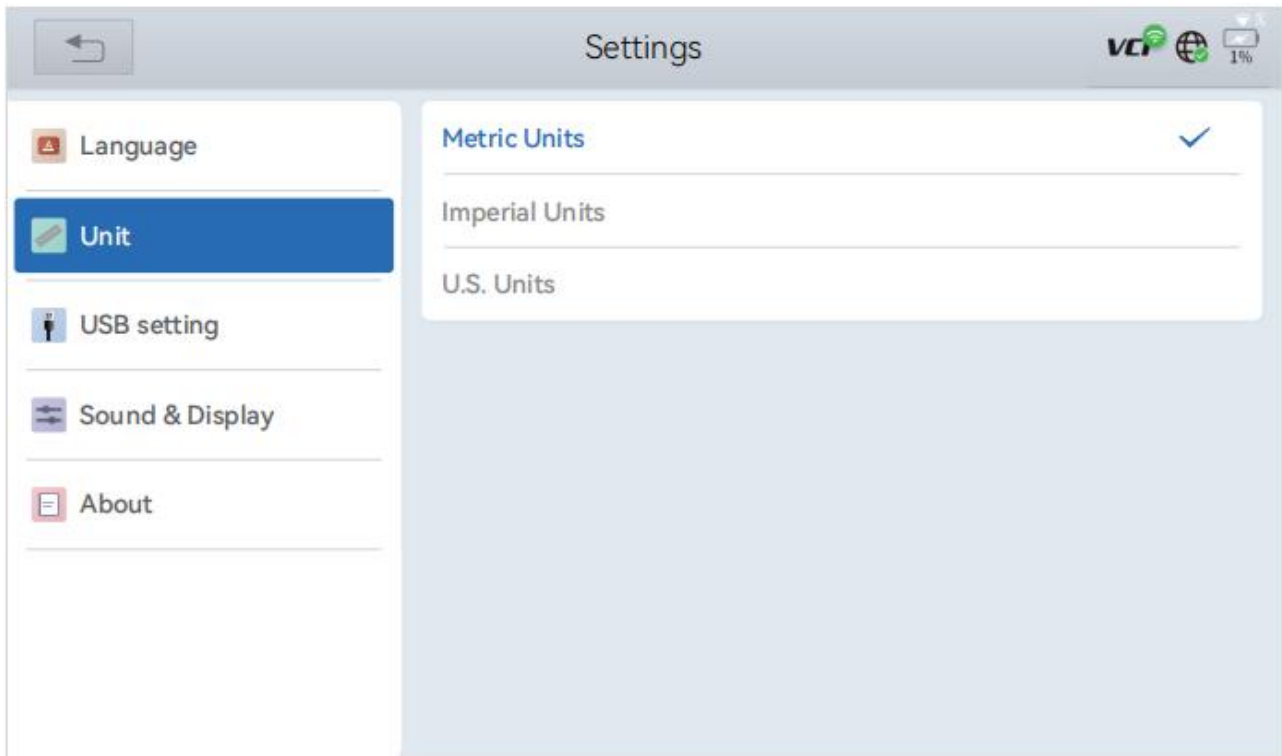
7.2 Unit

This setting offers three unit systems for measuring sensor values:

Metric Units: Centimeters, kilometers, grams, kilograms, °C, liters, Pa, kPa

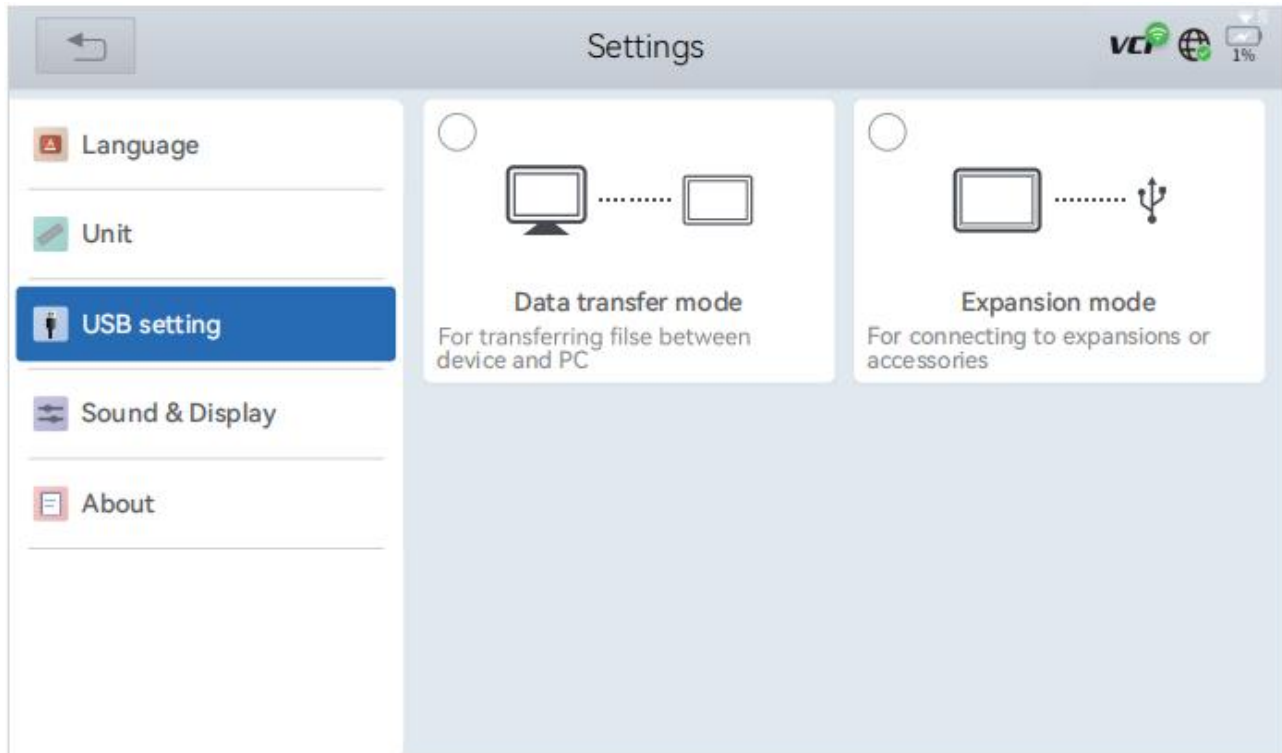
Imperial Units: Inches, feet, yards, ounces, pounds, °F, PSI, miles, gallons

US Units: Inches, feet, yards, ounces, pounds, °F, PSI, mils, miles



7.3 USB Setting

This option allows you to configure the USB Type-C mode:

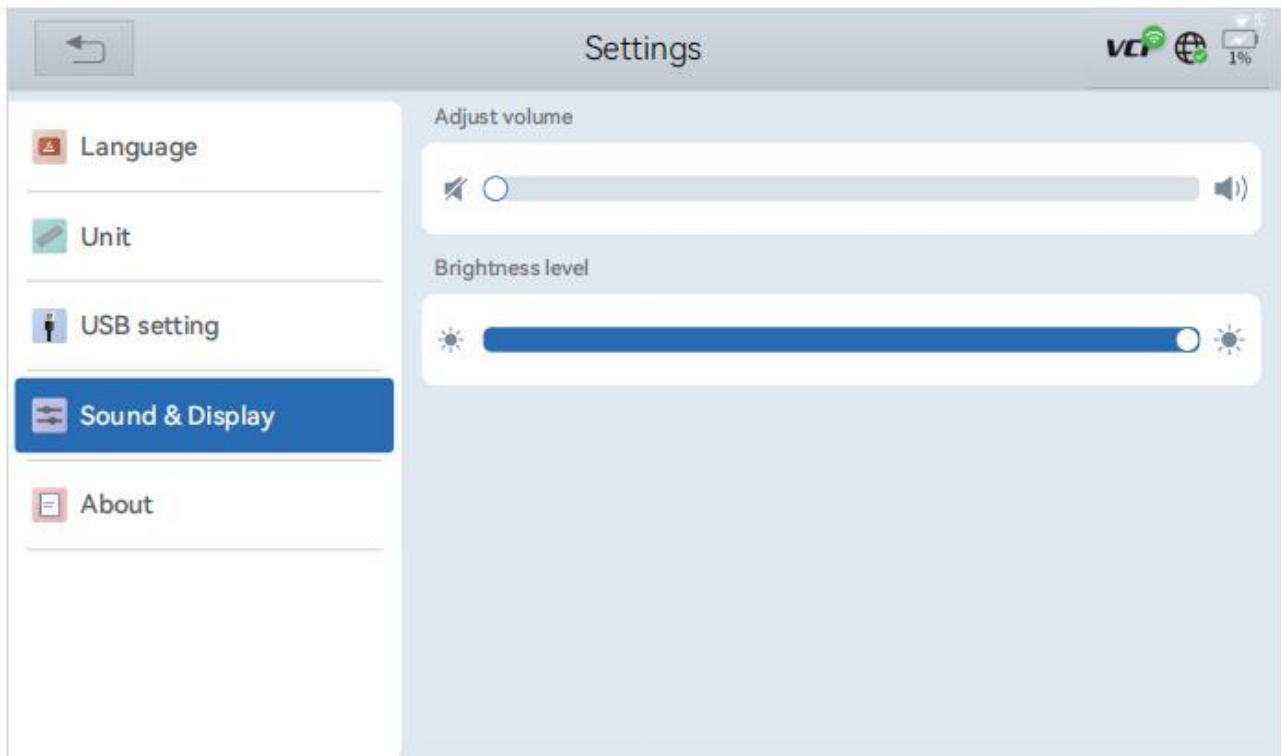


Data Transfer Mode: Enables data transfer between the Android tablet and a PC.

Expansion Mode: Connect extension accessories (e.g., EEPROM adapter).

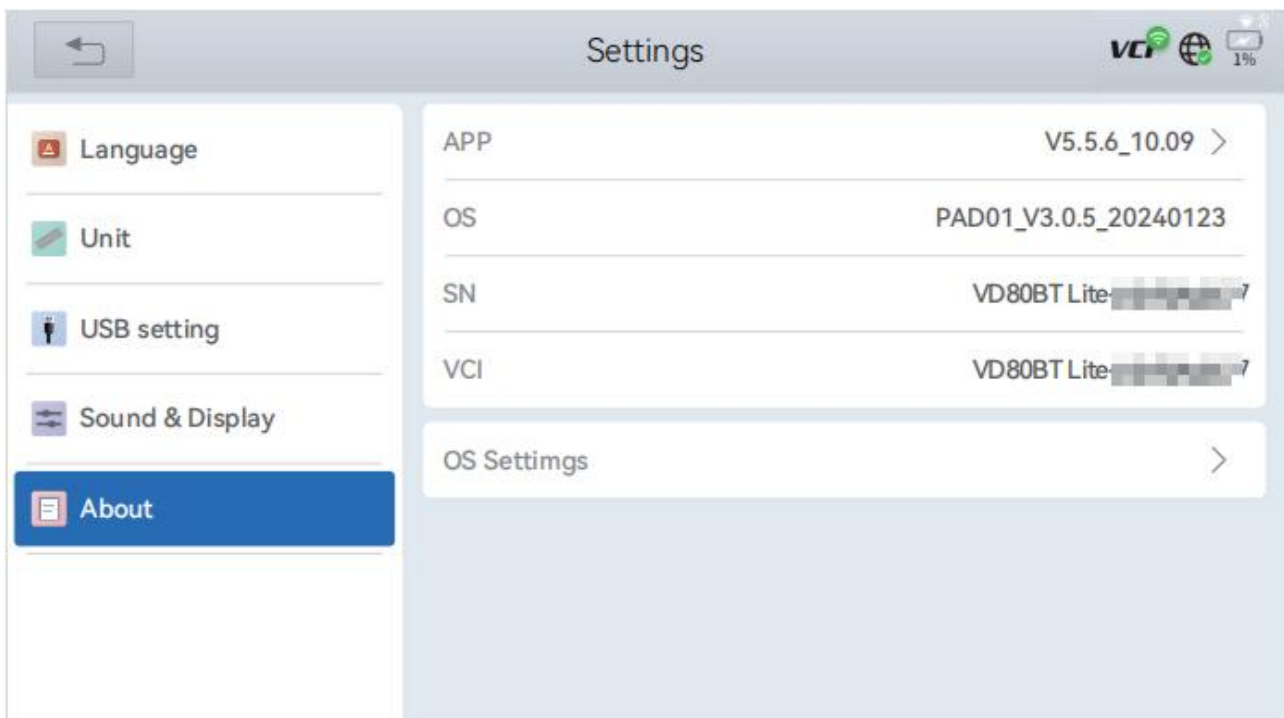
7.4 Sound & Display

Adjust the volume of the built-in speaker and the brightness of the display screen.



7.5 About

Displays the app version, OS version, diagnostic tool serial number (S/N), and VCI name. Also allows configuration of operating system settings.



8. Software Updates

This chapter explains the software subscription model and basic update procedures.

This diagnostic tool comes with free lifetime updates and does not require any additional subscription.

To update, connect the device to Wi-Fi or a mobile hotspot. A mobile hotspot is recommended for greater reliability and fewer restrictions compared to home Wi-Fi.

If a "Network abnormal" message appears, try an alternative network, check your router settings, or contact support at support@vdiagtool.com.

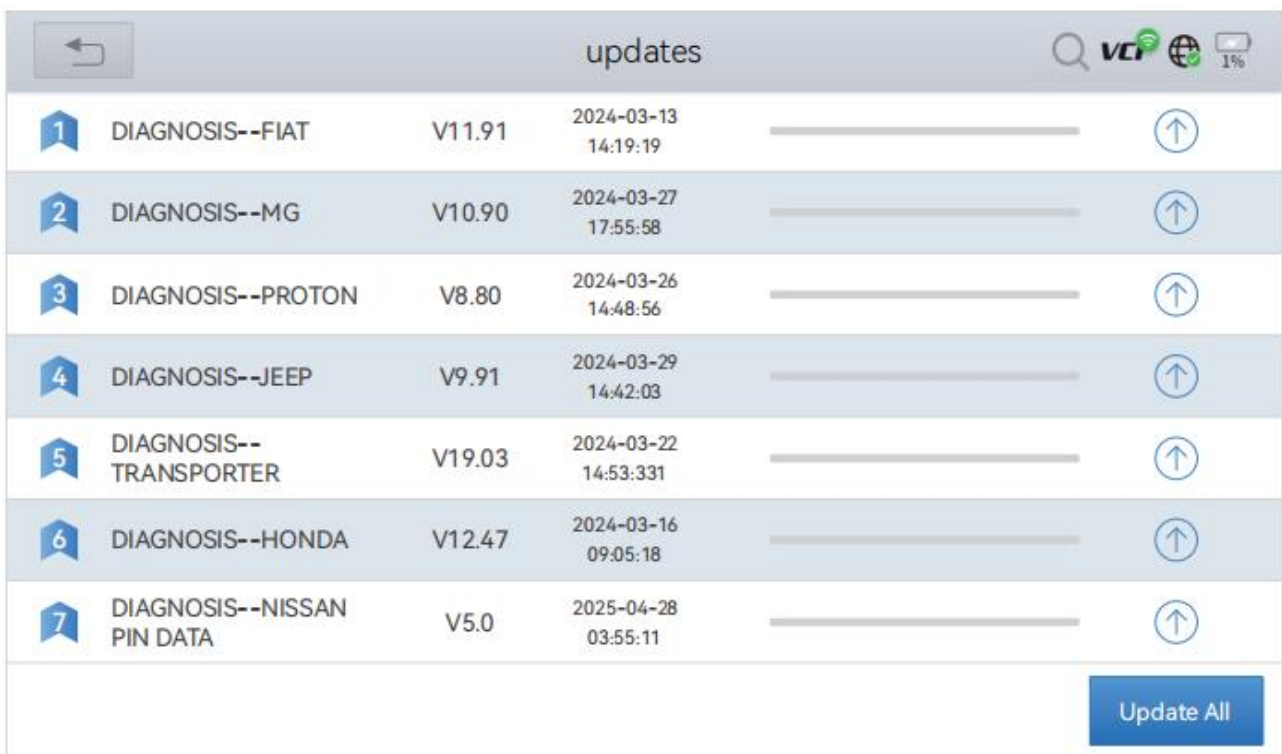
To update the software programs, you have two options:

Option 1: Update All Software Programs

Tap "**Update All**" at the bottom right of the update screen to update all programs at once.

Option 2: Update Individual Software Program

Tap the "**Update**" icon  next to any program to update it individually. If the update is interrupted, tap the icon again to resume.



updates				
1	DIAGNOSIS--FIAT	V11.91	2024-03-13 14:19:19	
2	DIAGNOSIS--MG	V10.90	2024-03-27 17:55:58	
3	DIAGNOSIS--PROTON	V8.80	2024-03-26 14:48:56	
4	DIAGNOSIS--JEEP	V9.91	2024-03-29 14:42:03	
5	DIAGNOSIS--TRANSPORTER	V19.03	2024-03-22 14:53:331	
6	DIAGNOSIS--HONDA	V12.47	2024-03-16 09:05:18	
7	DIAGNOSIS--NISSAN PIN DATA	V5.0	2025-04-28 03:55:11	
				

Delete Software Program:

If the diagnostic tool is running slowly due to limited storage space, you can free up memory by removing rarely used software programs.

To delete a diagnostic software program:

1. Go to **Manual Diagnosis** → **Select Region**.
2. Press and hold the icon of the vehicle manufacturer you wish to remove.
3. Tap "**Delete**" in the menu that appears.

To delete a key programming program:

1. Navigate to **Manual Diagnosis** and use the search bar to find the desired vehicle manufacturer.
2. Locate the program labeled "**Key Programming**" at the bottom of the icon.
3. Press and hold the icon, then tap "**Delete**".

9. More

This chapter introduces the "More" options available in the main diagnostic menu, covering user account settings, workshop information, subscription start and end dates, firmware details, endoscope-related functions, and the user manual.

9.1 Profile

This section enables you to manage user account settings, configure workshop details, and review subscription information.

- **Account Information** - Set your username, register your product via email, reset your password, or log out of the current account to switch to a different one.
- **Workshop** - Technicians or workshops can enter their workshop name, address, phone number, email, and website. These details will be included in diagnostic reports shared with customers.
- **Subscription** - View the diagnostic tool's serial number (S/N), subscription start date, and expiration date. This helps you plan ahead—such as updating all software to the latest version—before the subscription expires.

9.2 User Manual

To better serve our customers, we frequently update and improve the user manual.

Physical copies of the manual can become outdated quickly. In contrast, the digital PDF version allows you to easily search for specific information within its comprehensive content. Therefore, we have included this section to provide timely access to the latest version of the user manual.

Note:

The user manual on our website is updated more frequently than the diagnostic tool app. For the most current version, please visit: www.vdiagtool.com.

9.3 Vehicle Coverage

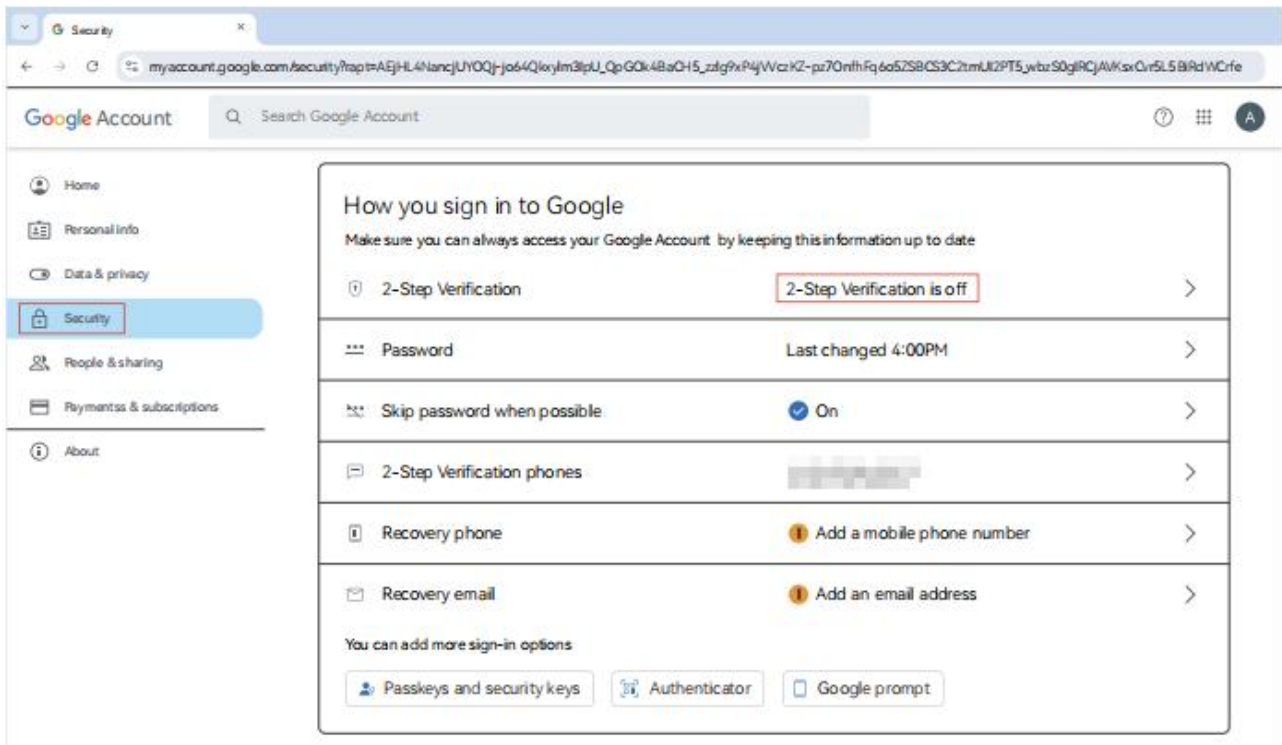
This functions allow you check the compatibility between your vehicle and the diagnostic tool. However, this is for reference only. For better compatibility confirm, please provide your device S/N, your vehicle VIN and the desired functions to our tech support team at support@vdiagtool.com.

10. Other Settings

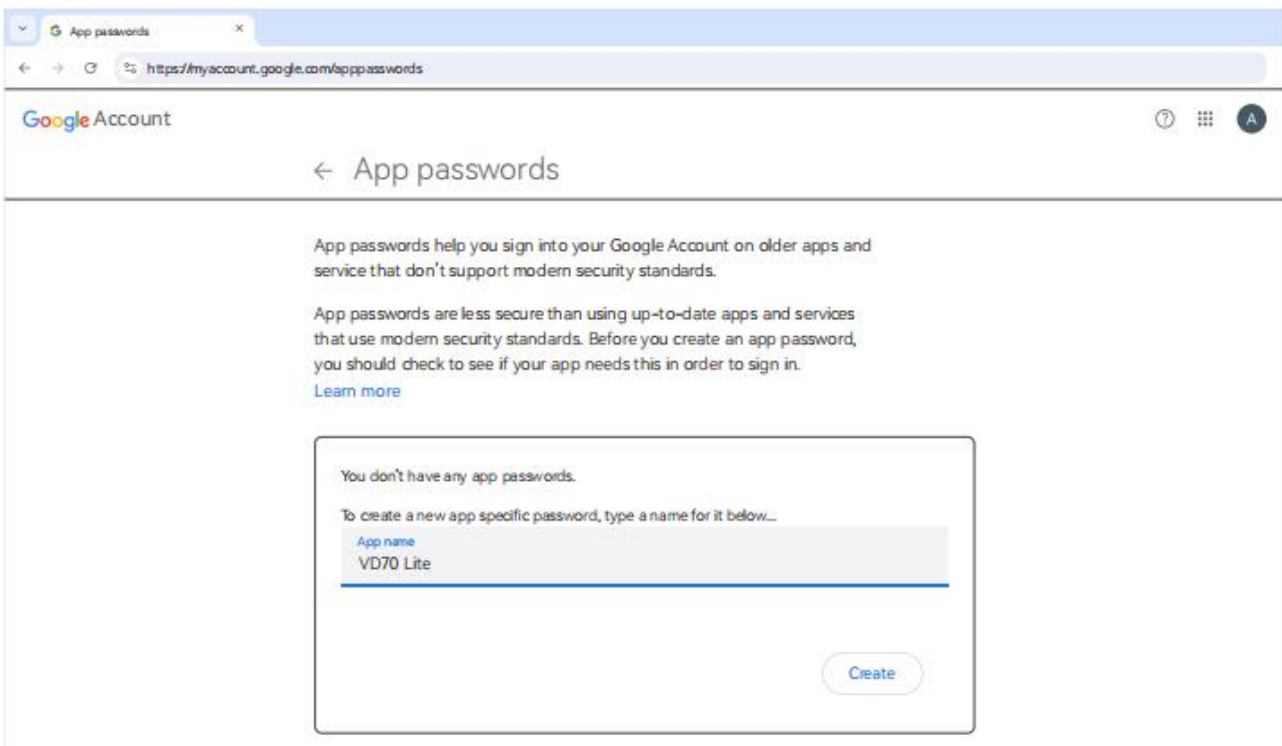
10.1 Email Settings

To configure your Gmail account for sending diagnostic reports, follow these steps:

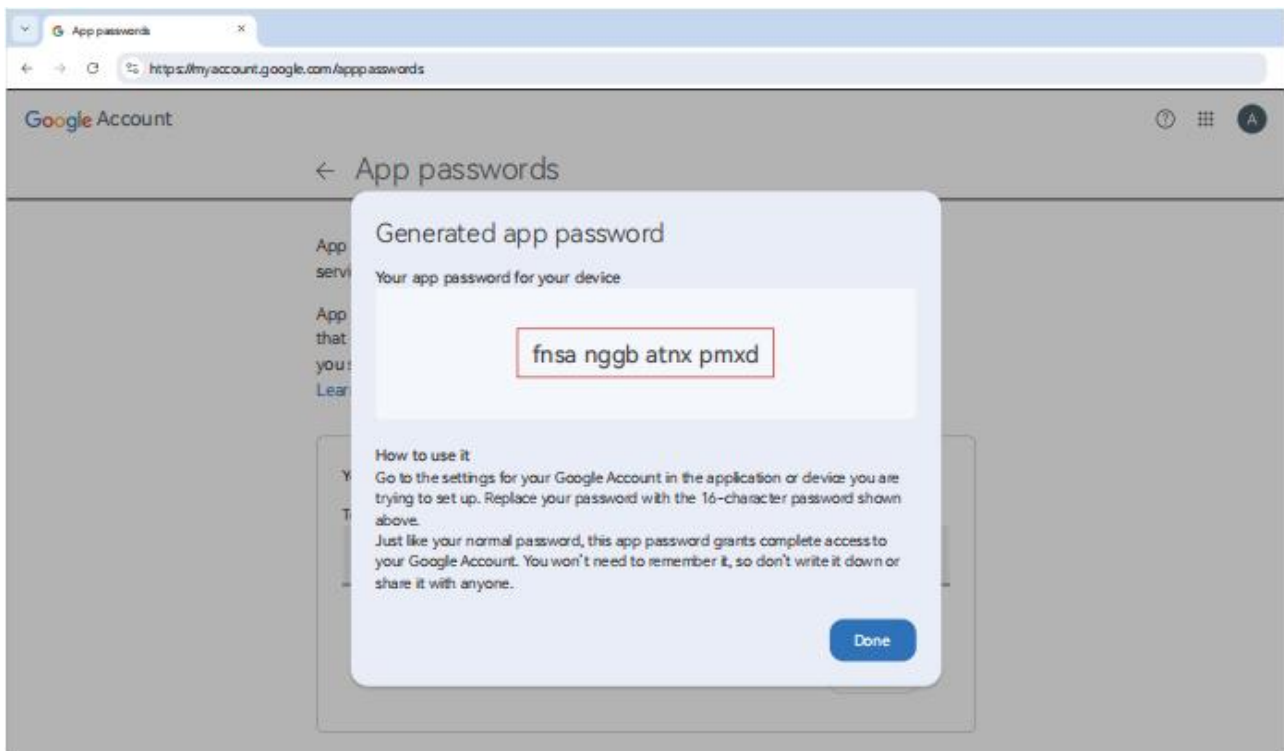
Step 1: Log in to your Google Account and enable 2-Step Verification by going to Security → 2-Step Verification → Get Started, then adding a backup phone to complete the setup.



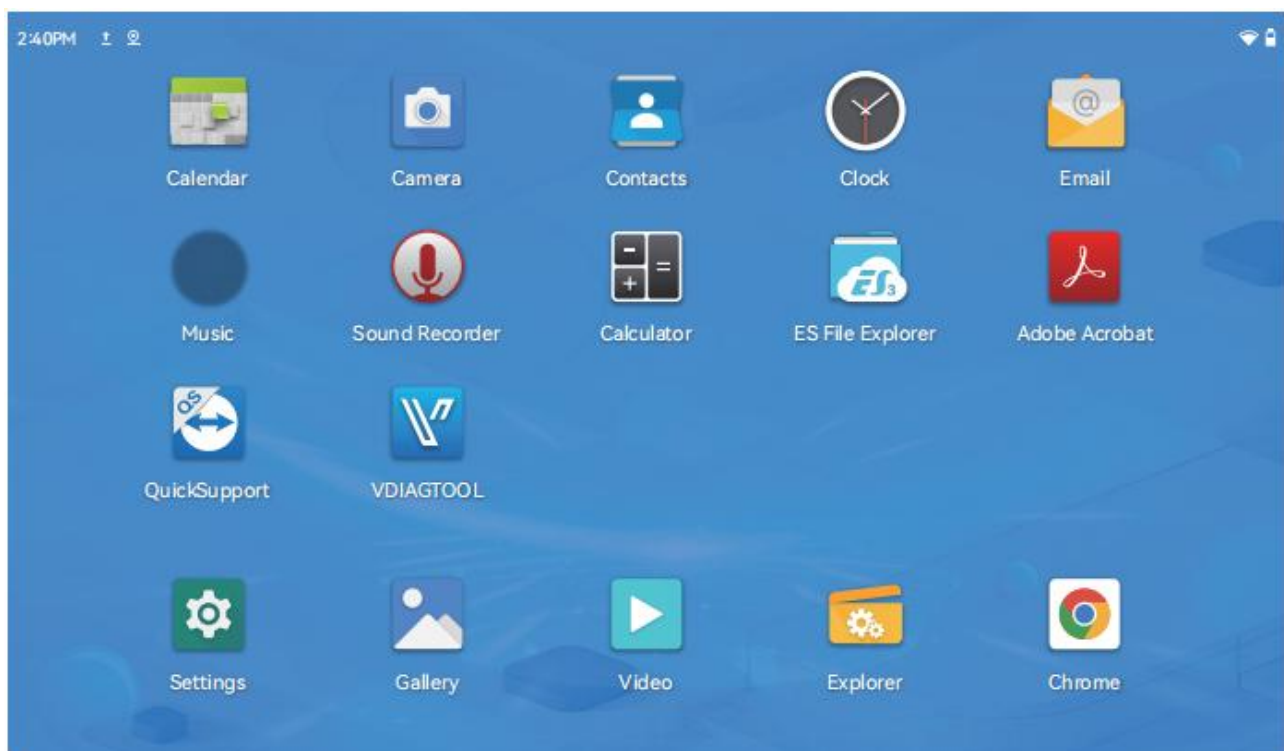
Step 2: Once enabled, visit <https://myaccount.google.com/apppasswords> to generate an App Password.



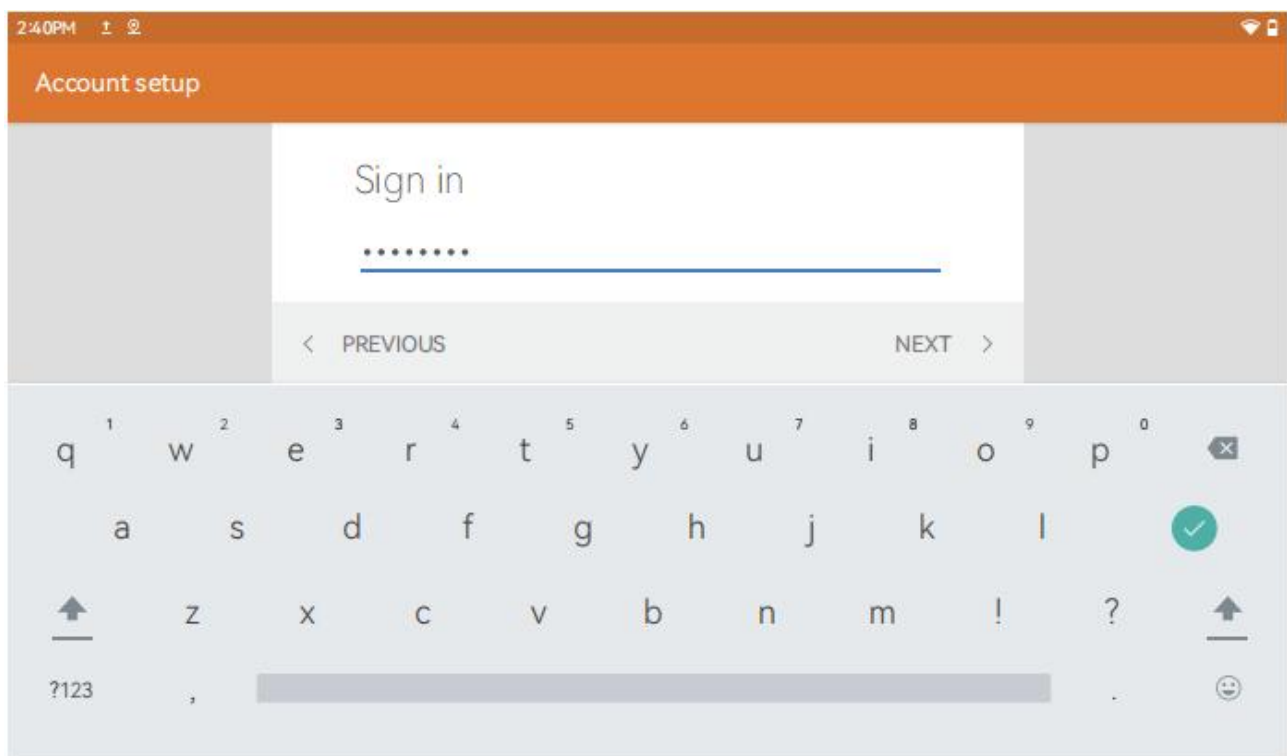
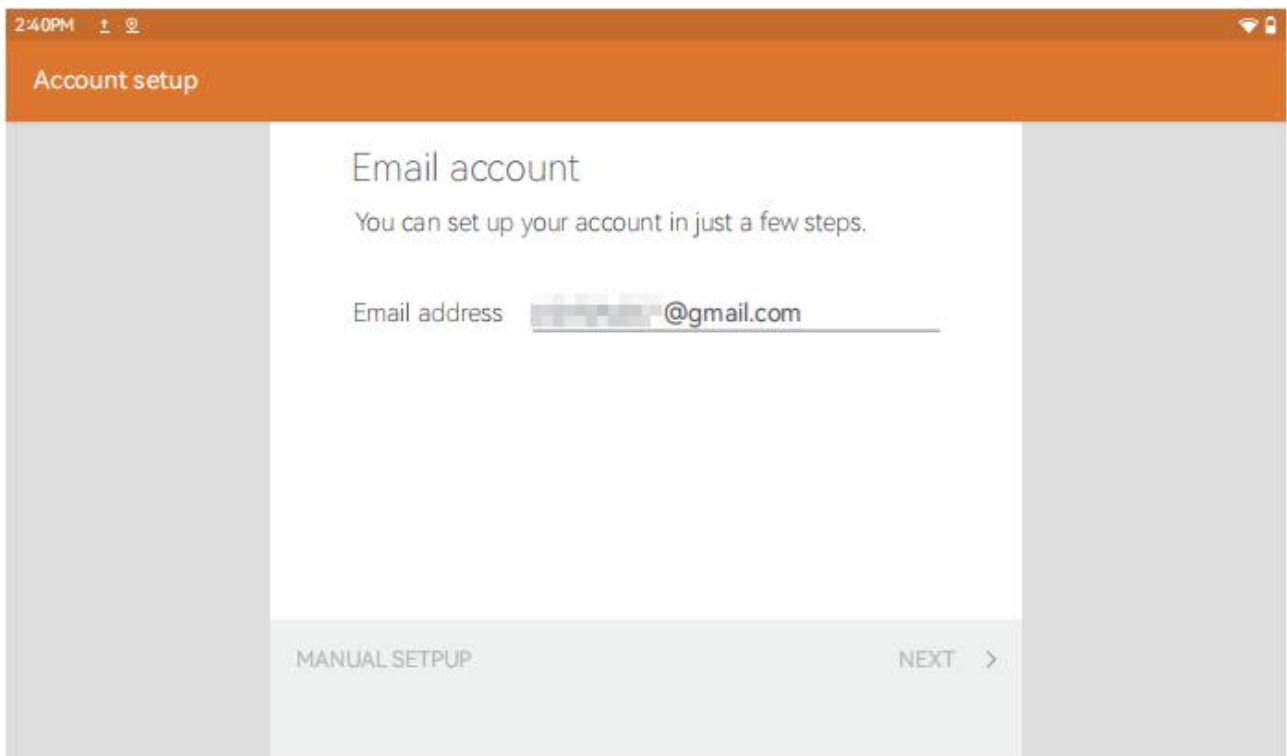
Step 3: Enter a custom name (e.g., "VD800 BT"), click "Generate", then immediately copy and save the 16-character password.



Step 4: On your diagnostic tool, swipe up to reveal the toolbar, tap the "📧" icon to add a new email account.

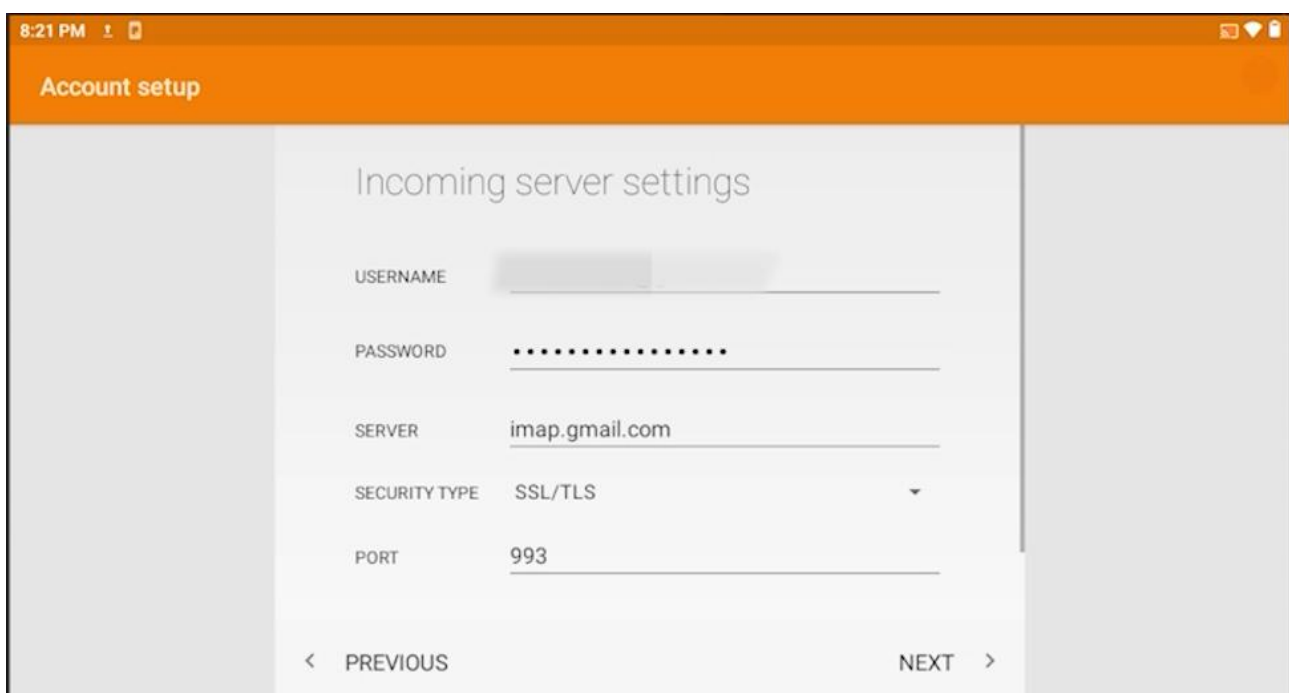
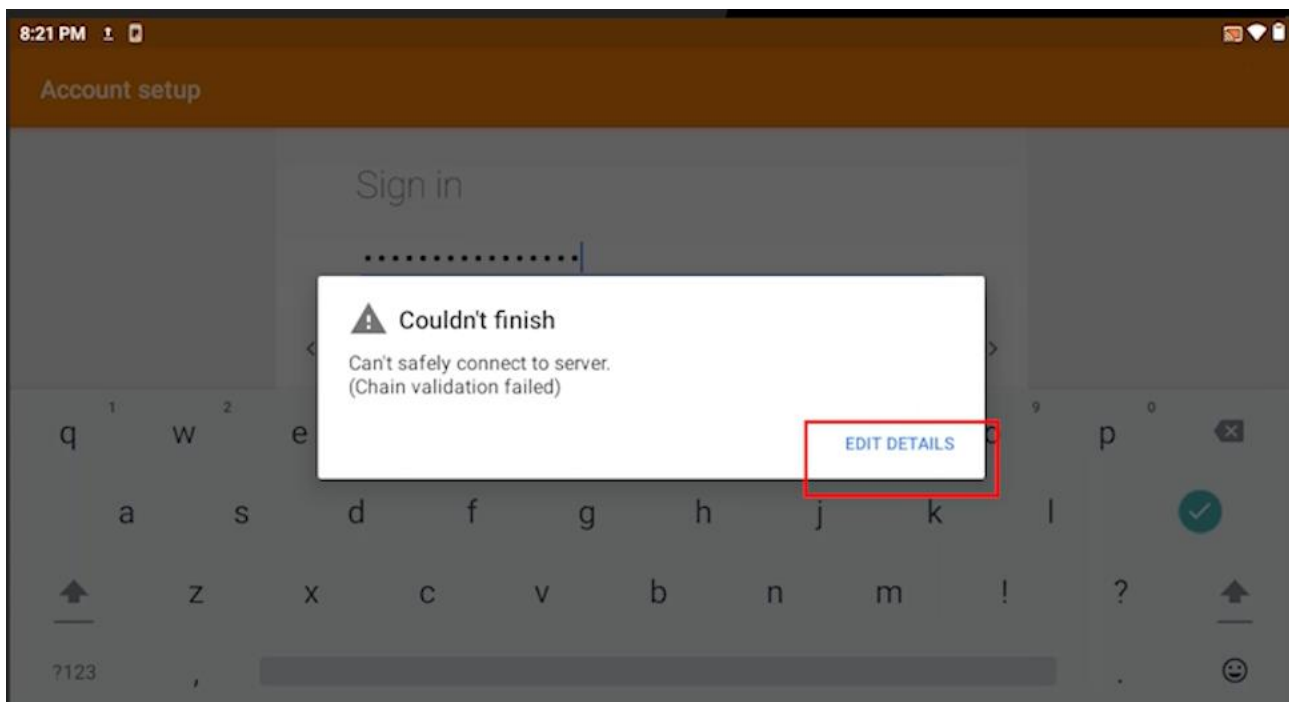


Step 5: Enter your full Gmail address and paste the 16-character App Password (not your regular password), then tap "Next".



Note:

If the configuration does not proceed automatically and a prompt appears, manually tap "EDIT DETAILS" to enter the following mail server settings:



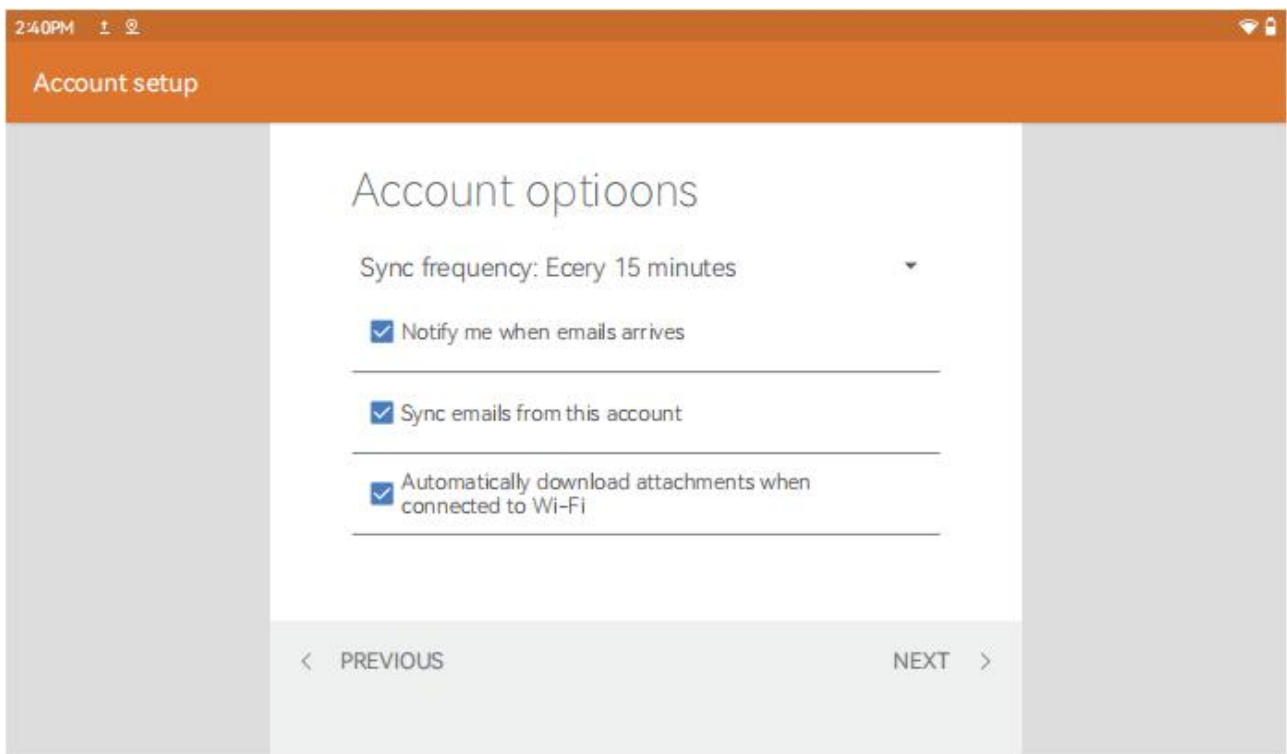
Mail Server Settings (Gmail):

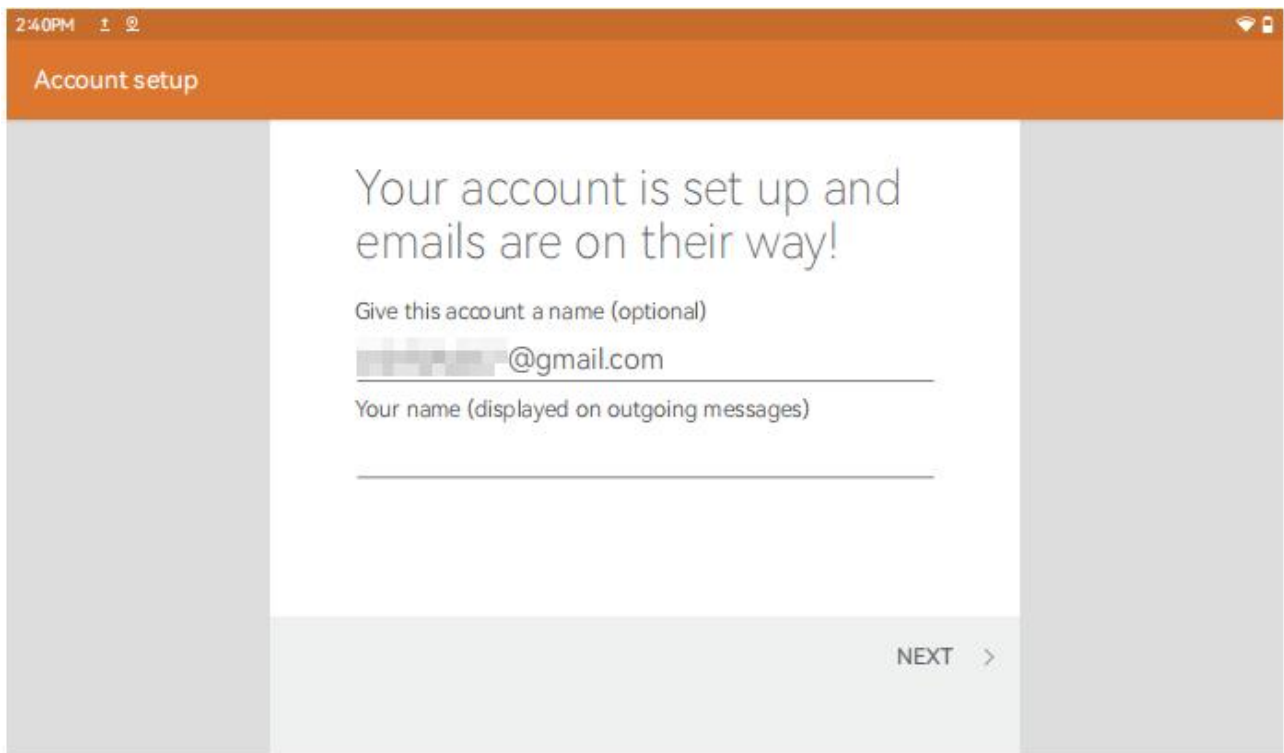
Server Type	Server Address	Port	Security Type
Incoming (IMAP)	imap.gmail.com	993	SSL/TLS (or SSL)
Incoming (POP3)	pop.gmail.com	995	SSL/TLS (or SSL)
Outgoing (SMTP)	smtp.gmail.com	465 (SSL)	SSL/TLS
		587 (TLS)	STARTTLS

These settings are specific to Gmail. If you continue to experience issues, please ensure you are using an App Password instead of your regular Gmail password if 2-Step Verification is enabled.

For further assistance or updated configuration guidelines, we recommend searching online for "Gmail server settings" or visiting official Gmail help resources.

Step 6: Set your sync frequency and complete the setup until you see the confirmation: "Your account is set up and emails are on their way."



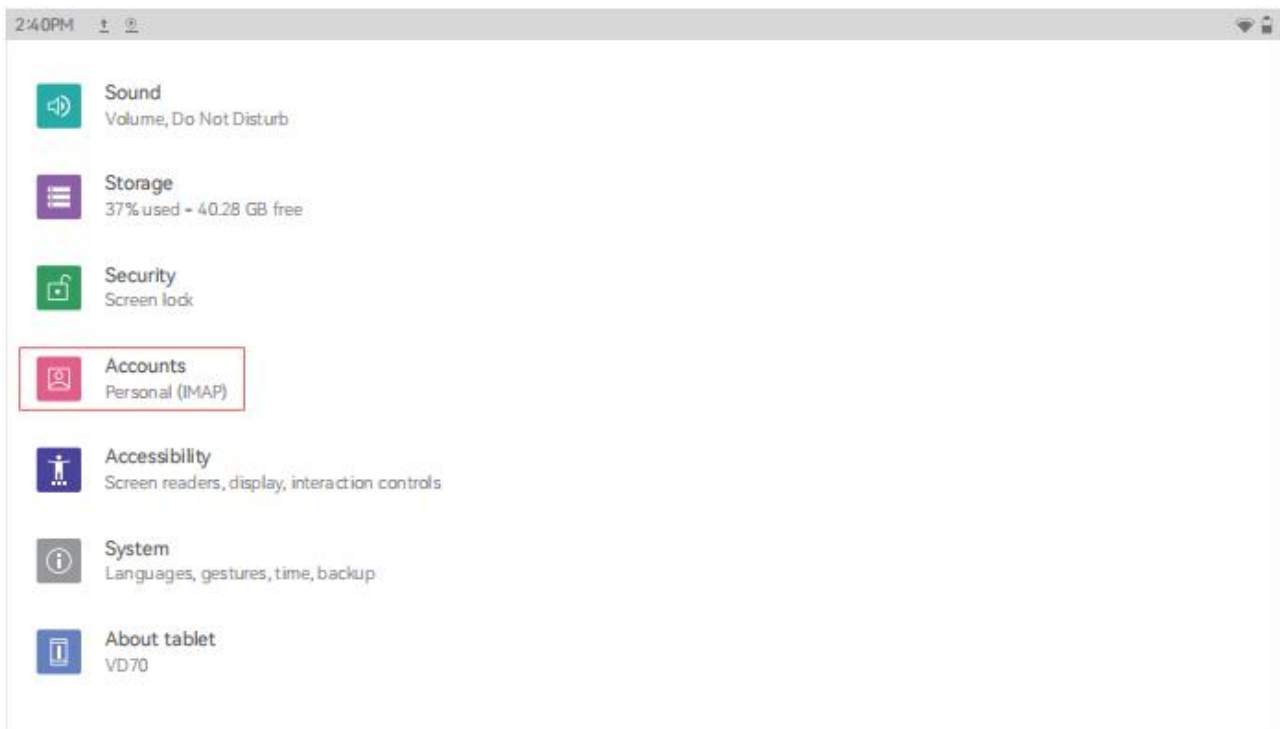


To Share a Diagnostic Report via Gmail:

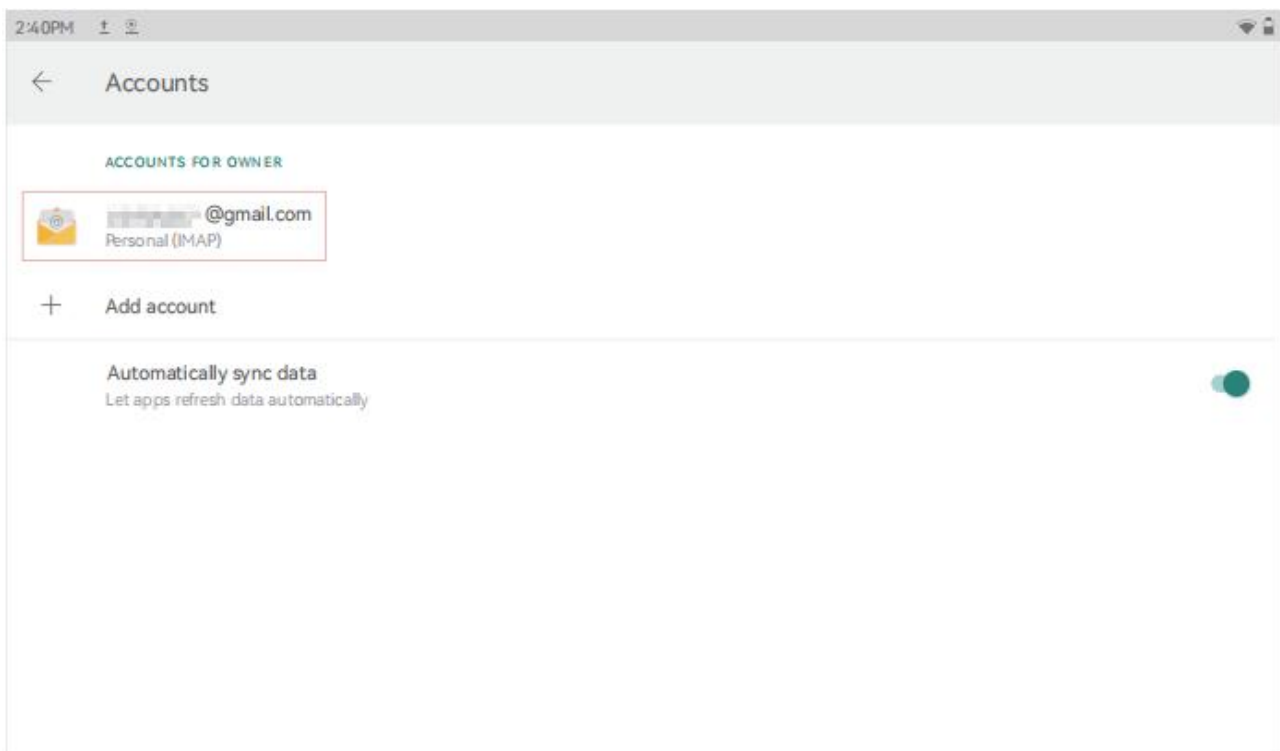
Go to Report, select the target report, and tap "Print PDF Report". Then, tap the menu icon in the top right corner, choose "Share" → "Email", and send the report using your Gmail account.

10.2 Delete Email Account

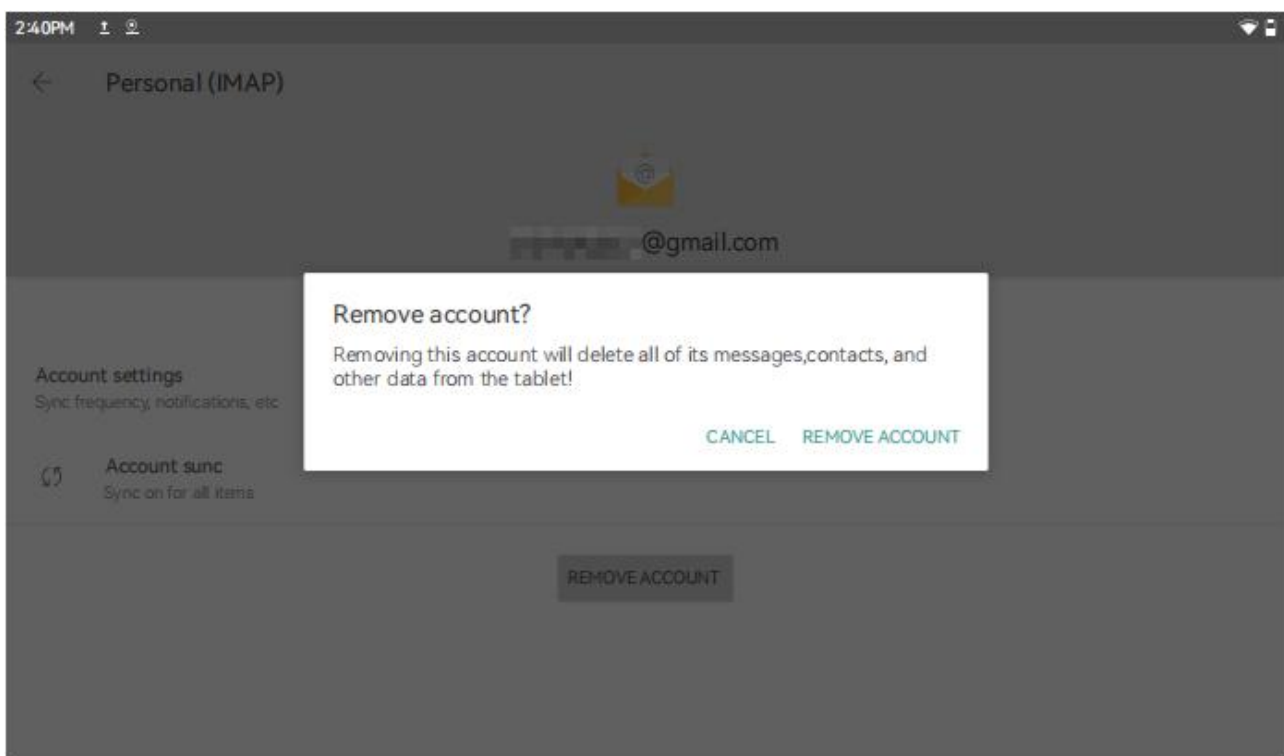
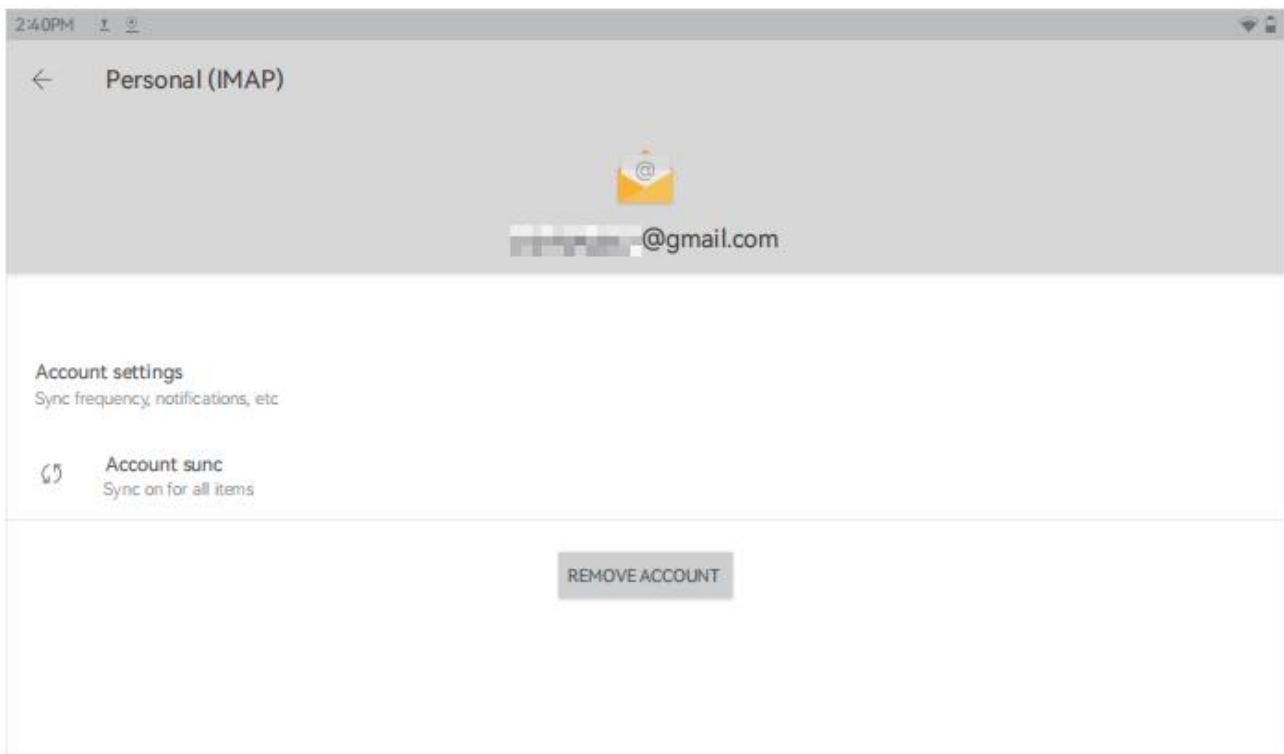
Step 1: Swipe up to open the hidden toolbar menu and tap "Accounts".



Step 2: Select the Gmail account you wish to remove.



Step 3: Tap "REMOVE ACCOUNT" and confirm the operation when prompted.



10.3 Printing Settings

To enable the printing service on your diagnostic tool, you must first install a compatible print service app or driver. Please review the following checklist before proceeding with the installation.

10.3.1 Checklist for Installing Printing Service:

- Ensure your printer supports Wi-Fi or Wi-Fi Direct connection.
- Confirm the brand and model of your printer.
- Install a print service app (printer driver) compatible with your printer. You have two options:

Option 1: Install a universal printer service app (e.g., Mopria).

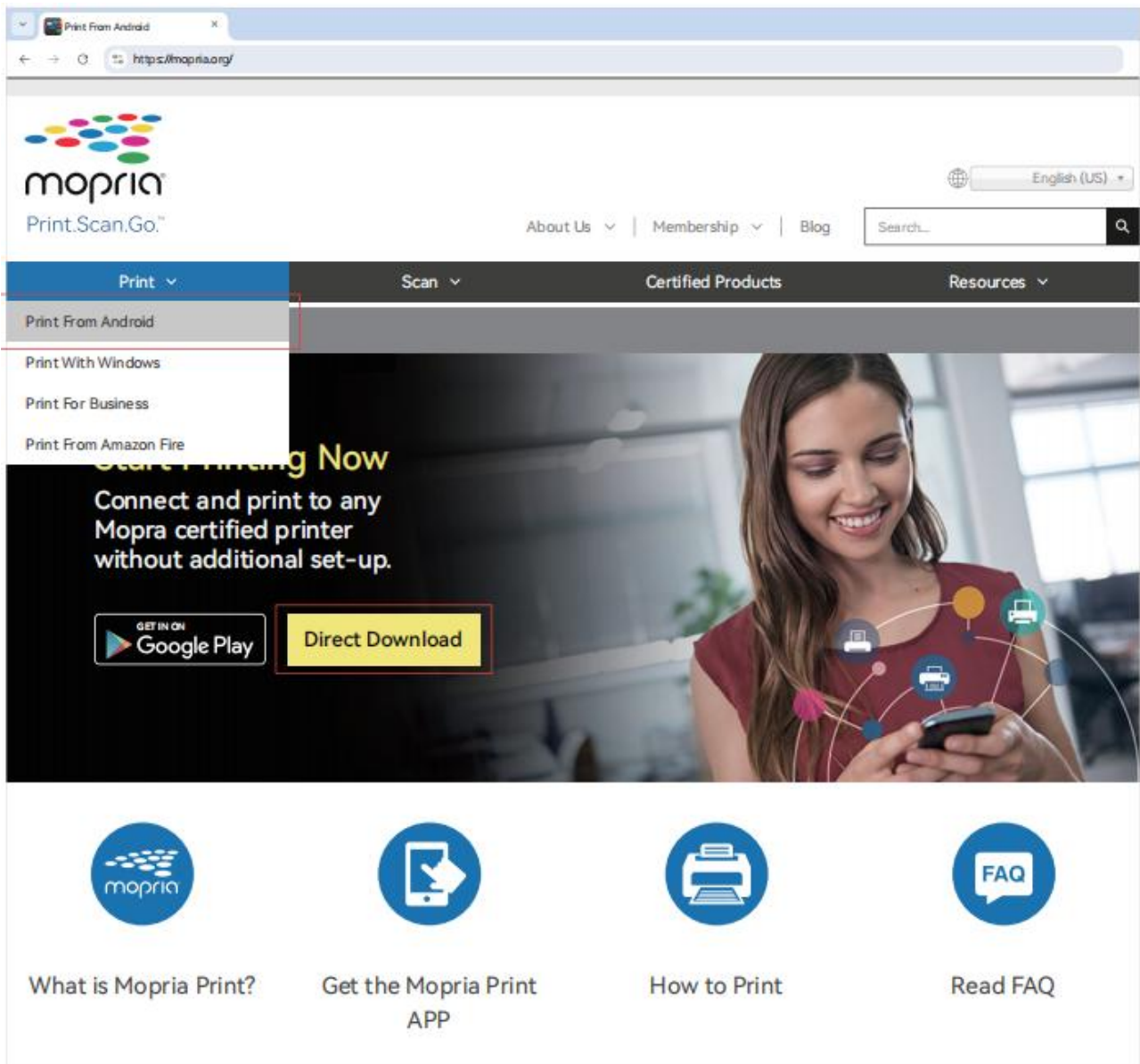
Option 2: Install the official app provided by your printer manufacturer (e.g., HP Printing Service for HP printers).

10.3.2 Install Mopria Print Service or Specialized Driver

To install the printing service via APK file, follow these steps:

Step 1: On a computer, visit the Mopria official website at <https://mopria.org/> (or your printer manufacturer's website).

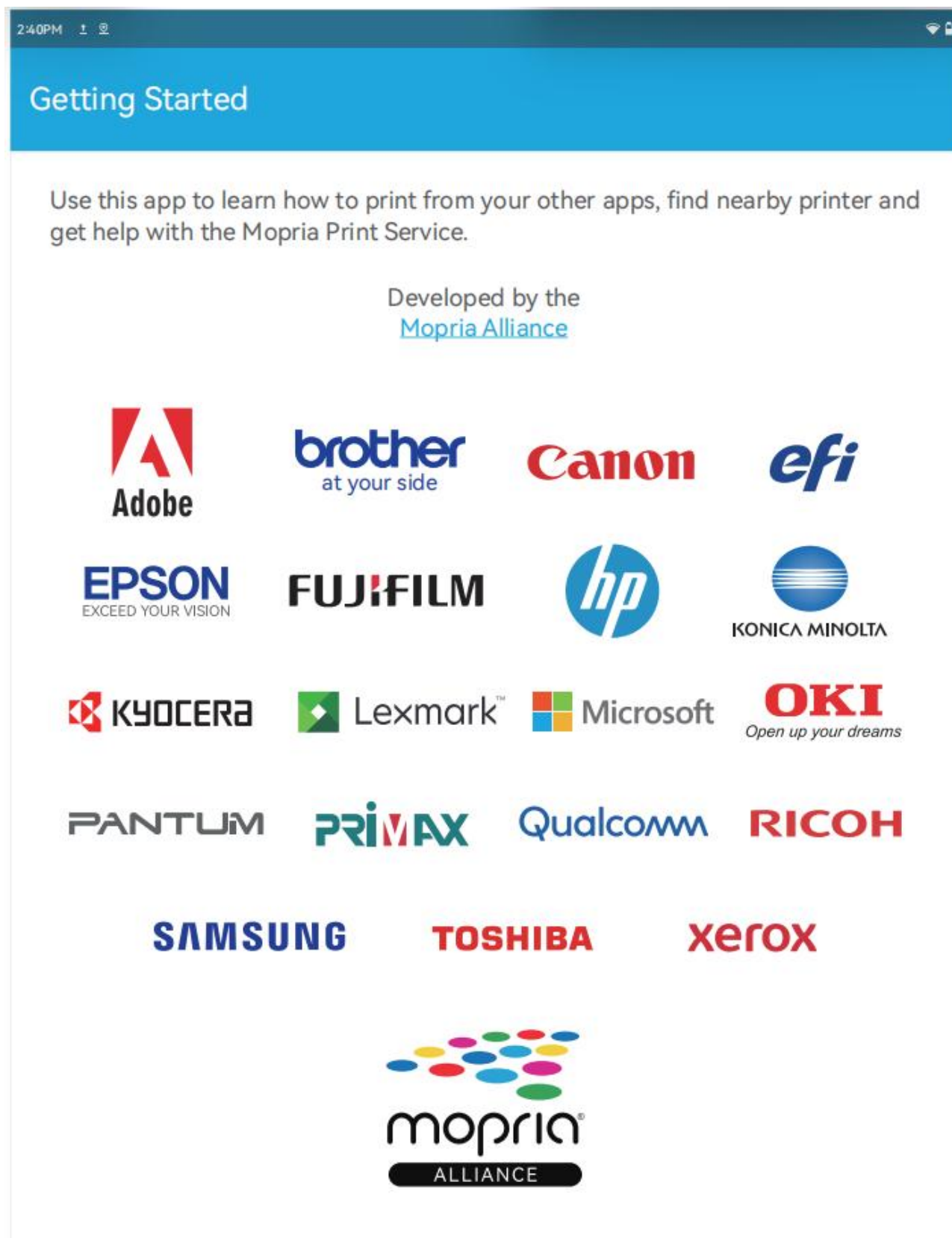
Step 2: Navigate to Print → Print From Android → Direct Download to obtain the APK file.



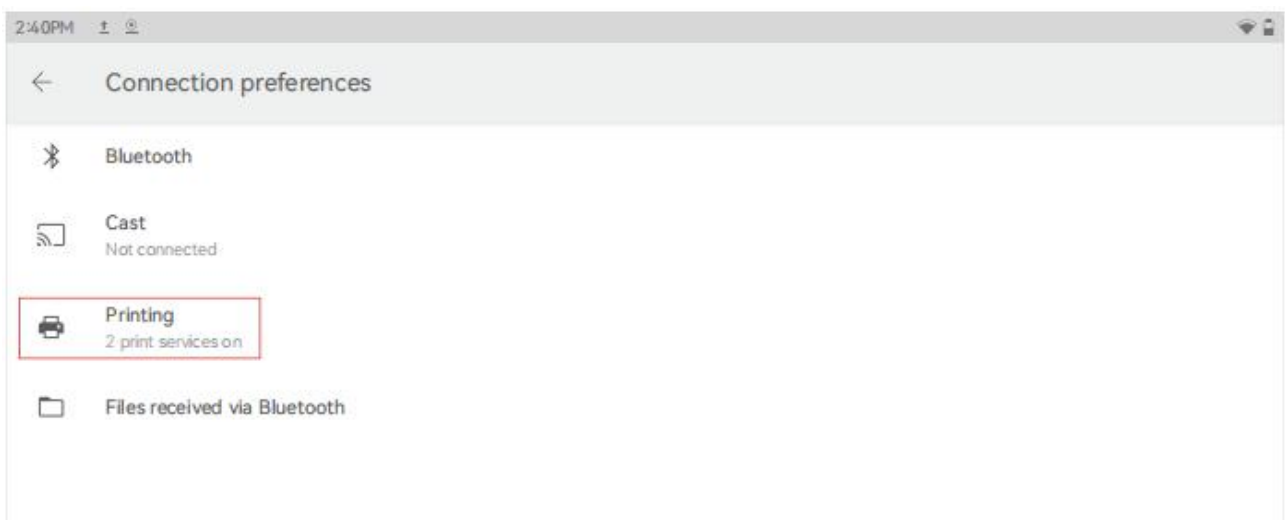
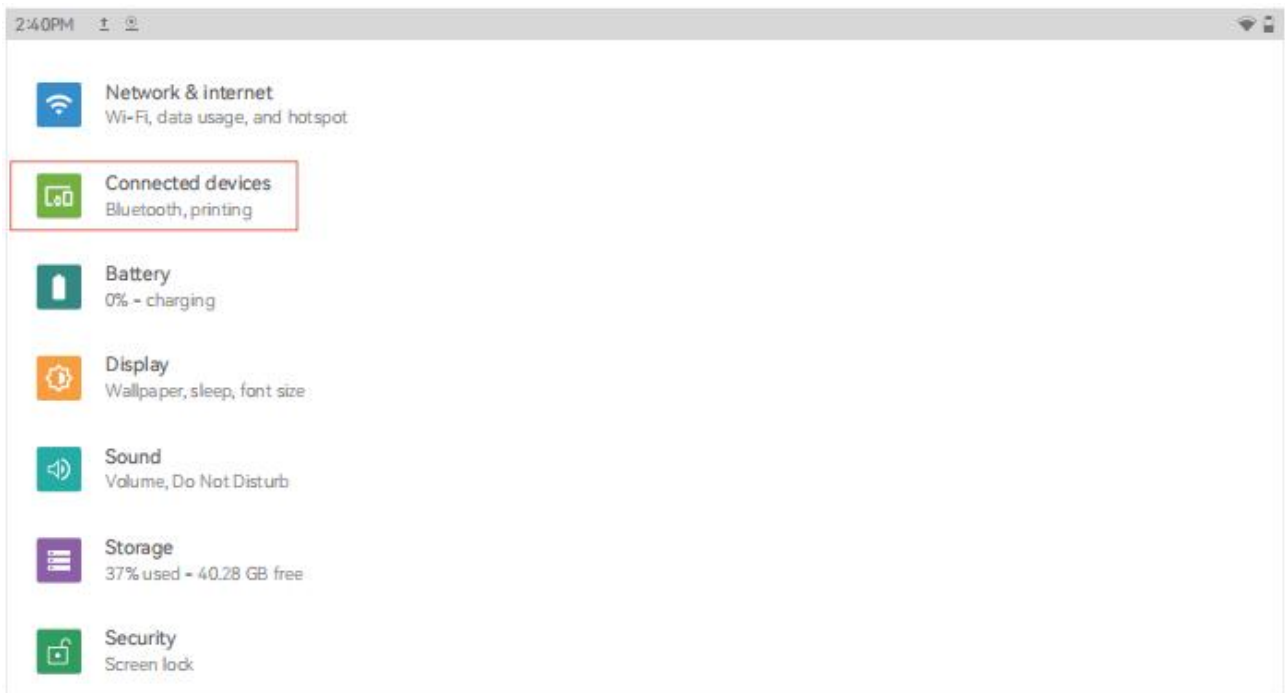
Step 3: Connect the diagnostic tool to the computer using the provided USB Type-C cable. On the tool, swipe down from the top edge to open the notification panel, select File Transfer.

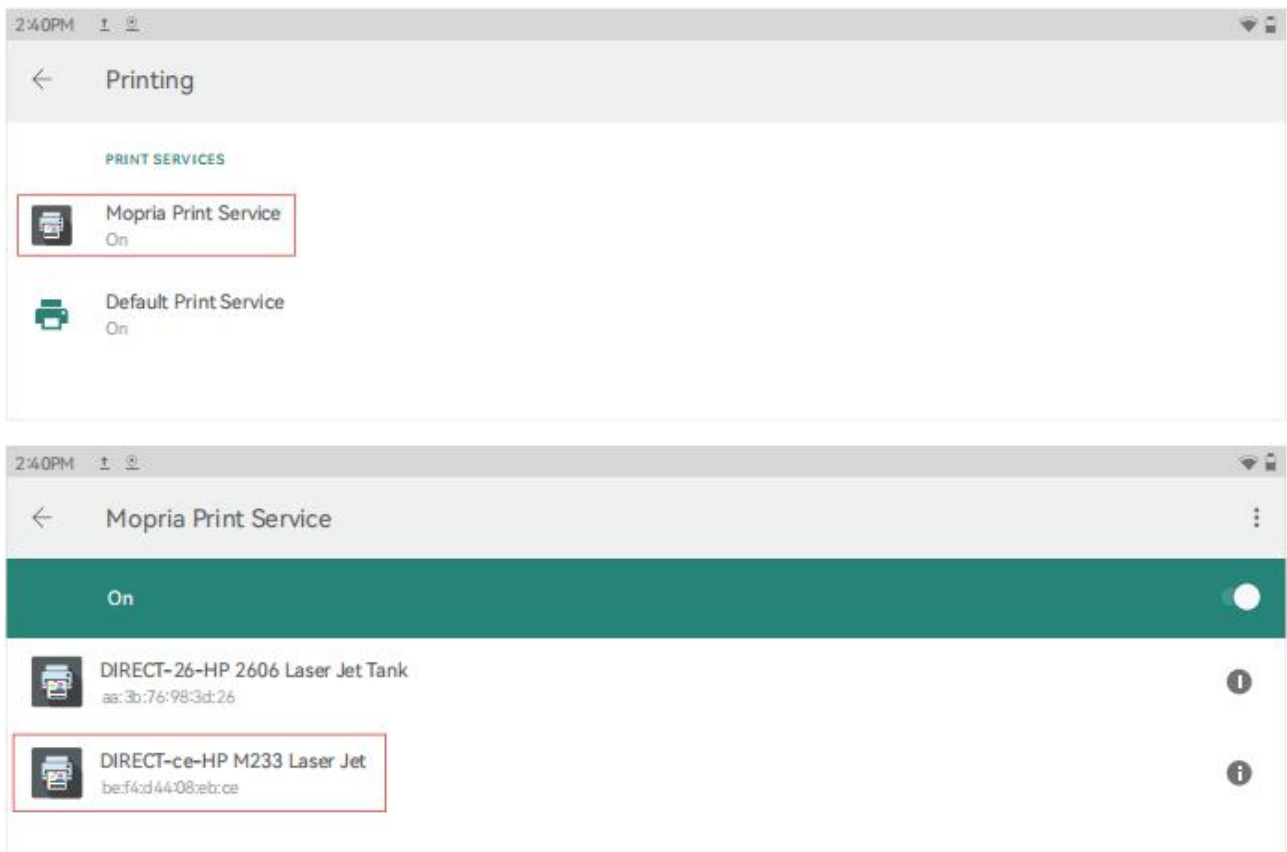
Step 4: Transfer the downloaded APK file to the following folder on the diagnostic tool: VD800 BT → Internal Shared Storage → Download

Step 5: Disconnect the USB connection. Open ES File Explorer on the tool, go to: Explorer → Local → Home → Download, locate the APK file and tap it to begin installation.



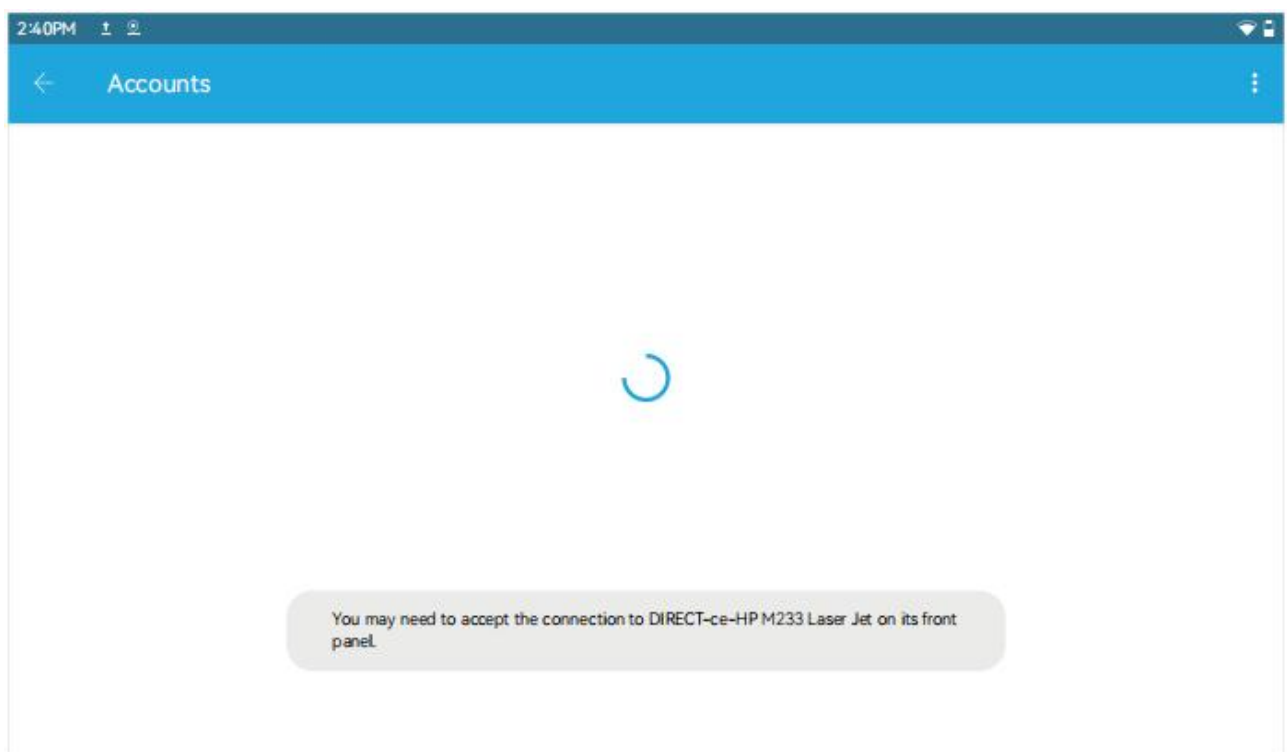
Step 6: After installation, go to: Settings → Connected Devices → Connection Preferences → Printing, tap Mopria Print Service, turn the switch ON, select your printer, and accept any connection prompt on the printer's control panel.





Important:

For some printers, you must manually approve the connection request directly on the printer's control panel.

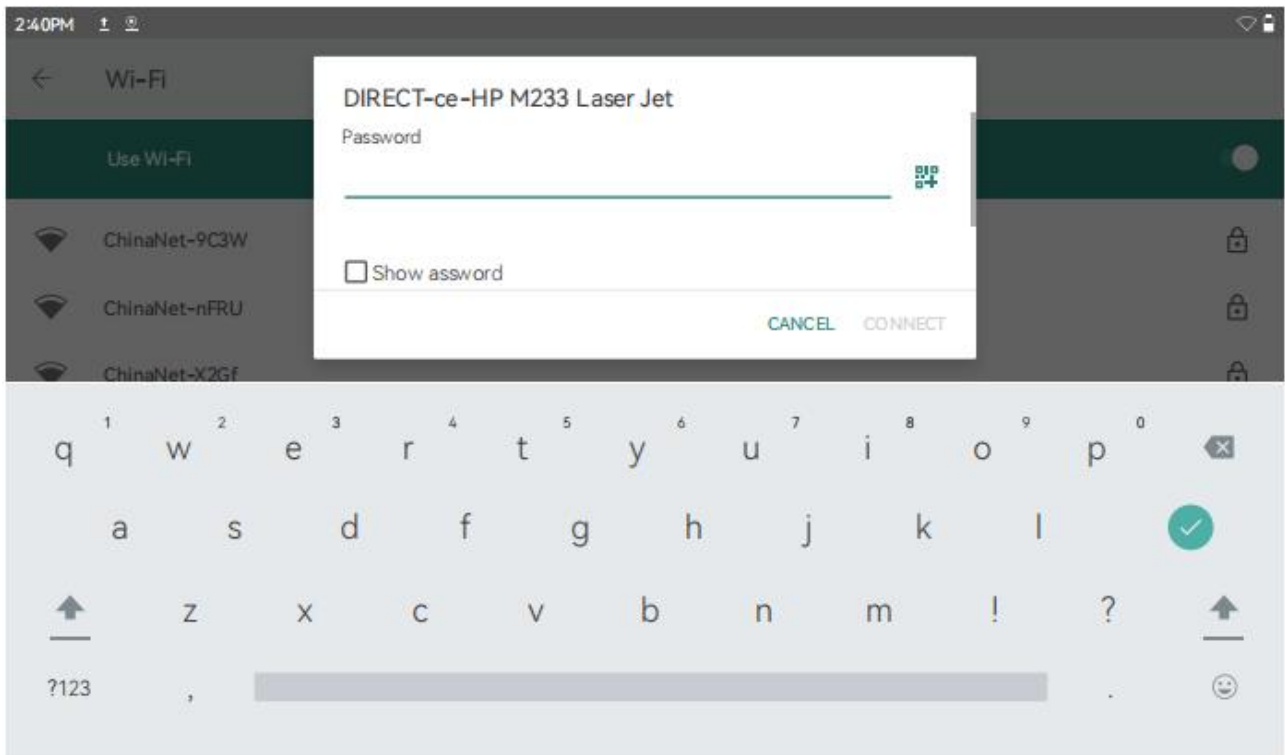


10.4 For Printer with Wi-Fi Direct

If your printer supports Wi-Fi Direct, follow the steps below to connect the diagnostic tool directly to the printer:

Step 1: Swipe up to open the hidden toolbar menu and tap “Settings”.

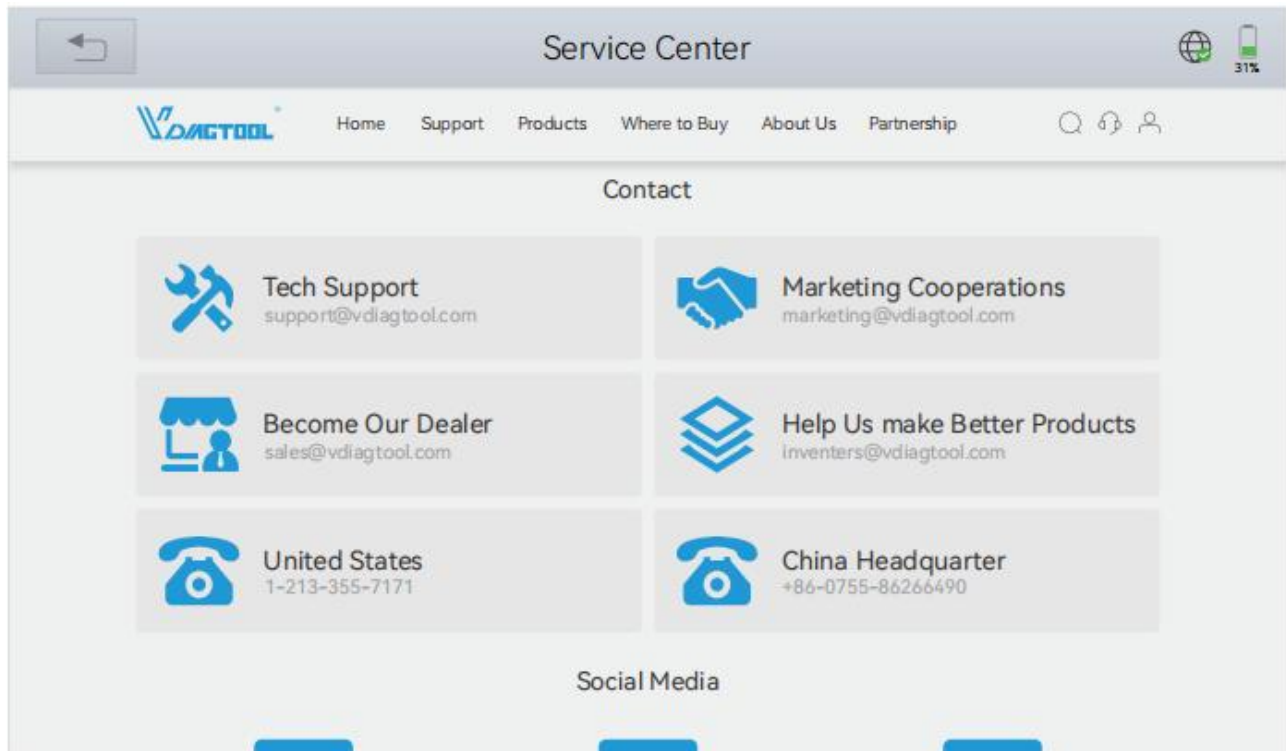
Step 2: Go to Network & internet → Wi-Fi, then select your printer’s Wi-Fi network.



Step 3: Find the SSID and password on your printer’s front display or control panel. If your printer does not have a display, print a network configuration page from the printer to obtain these details.

11. Service Center

This section provides various ways you can contact us, including warranty claims, technical support, video tutorials, marketing collaboration, business opportunities, and feedback to help us improve diagnostic tools.

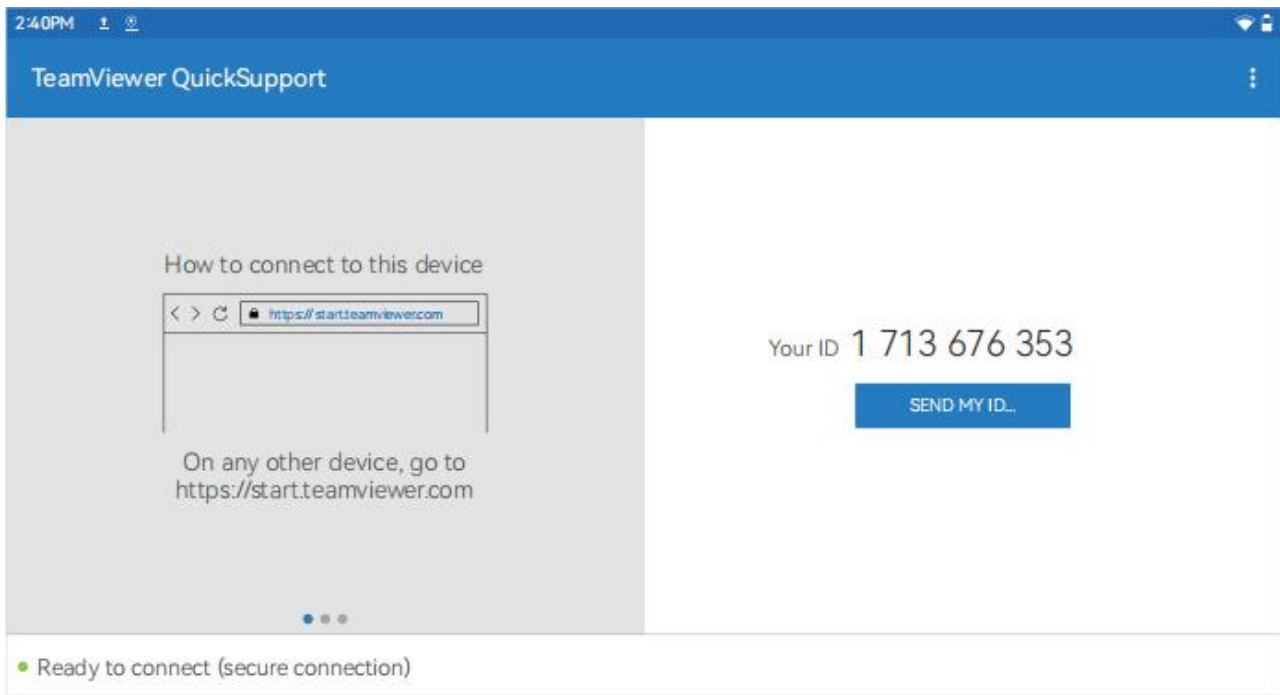


11.1 Remote Control

This function allows you to request remote assistance from our technical team. They can directly operate the diagnostic tool to help you with unfamiliar functions or procedures.

To use remote assistance:

1. Ensure your diagnostic tool is connected to a Wi-Fi network.
2. Tap the "Remote Control" icon to launch TeamViewer.
3. Wait until the status "Ready to connect (secure connection)" appears at the bottom left of the screen.
4. Provide the TeamViewer ID (displayed in the center-right of the screen) to our support team when scheduling a remote session in advance.



11.2 Schedule a Remote Control

To schedule a remote assistance session with our technical team, please follow these steps:

1. Visit our official website: www.vdiagtool.com
2. Navigate to "Support" → "Tech Support", or directly access:
<https://www.vdiagtool.com/support/tech-support>
3. Complete the "Remote Assistance" form with your request and details.

Remote appointment

* Region

Select Region

* County

Select Country

* Appointment time period

🕒

Start date

To

End date

* Serial Number

Please Write Serial Number

* Remote ID

Please Write Remote ID

Phone

Please Write Your Phone Number

* Problem Description

Problem Description

Submit

Form Field Description:

Region - Your current region.

Country - Your country of residence.

Appointment Time Period - Your preferred time slot for the remote assistance.

Serial Number - The serial number (S/N) of your diagnostic tool.

Remote ID - The TeamViewer ID displayed on your device.

Phone - Your phone number so our technician can contact you during the remote assistance if needed.

Problem Description - Briefly describe the issue you are experiencing with the diagnostic tool or vehicle. Providing clear details helps our technician prepare in advance.

11.3 Data Logging

For software-related issues—such as vehicle communication failures or function errors—data logs are often essential for effective troubleshooting. To ensure our technical team can retrieve and analyze these logs, please keep your diagnostic tool connected to Wi-Fi for at least 15 minutes and provide its serial number (S/N) when submitting a support request.

12. Compliance Information

12.1 Regulatory Compliance Statements

United States (FCC)

FCC ID: 2BE93VD800

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.

Interference Guidance: 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.

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

Canada (ISED)

IC: 32118-VD800

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

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

Français:

Cet appareil contient des émetteurs/récepteurs exempts de licence qui sont conformes aux RSS exempts de licence d'Innovation, Sciences et Développement économique Canada. Son fonctionnement est soumis aux deux conditions suivantes :

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

12.2 RF Exposure & SAR (FCC & ISED)

This device complies with FCC and ISED Canada RF exposure guidelines. Its radiated output power is below the radio frequency exposure limits.

The Specific Absorption Rate (SAR) is measured using standard operating positions with the device transmitting at its highest certified power level. The FCC SAR limit is **1.6 W/kg**. The device is designed to operate at multiple power levels to minimize exposure and uses only the necessary power to maintain communication.

To ensure compliance with RF exposure requirements, minimize human contact with the antenna during normal operation.

12.3 Additional Compliance (RoHS, CE & UKCA)

RoHS: This product is compliant with Directive 2011/65/EU on the restriction of hazardous substances.

CE: This product conforms to the essential requirements of the following European Directives:

EMC Directive 2014/30/EU

RED Directive 2014/53/EU

Low Voltage Directive 2014/35/EU

UKCA: This product is declared to conform to the essential requirements of the relevant UK statutory instruments and carries the UKCA mark accordingly.

13. Warranty

Limited Two-Year Warranty

This warranty is expressly granted to buyers who purchase the VDIAGTOOL VD800 BT product for resale or for use in the ordinary course of their business.

VDIAGTOOL warrants that the VD800 BT diagnostic tool shall be free from defects in materials and workmanship for a period of **two years (24 months)** from the date of delivery to the original buyer.

This warranty does not cover any part that has been subjected to misuse, alteration, used for unintended purposes, or operated in a manner inconsistent with the product instructions. The exclusive remedy for any tool found to be defective under this warranty shall be, at VDIAGTOOL's option, repair or replacement of the product. VDIAGTOOL shall not be liable for any consequential or incidental damages arising from the use or inability to use the product.

14. Contact Us

Warranty & Support

Email: support@vdiagtool.com

Website: www.vdiagtool.com

For wholesale business or become our distributors:

Email: sales@vdiagtool.com

Invent with us, test products before they hit market, help us make better products for everyone:

Email: inventers@vdiagtool.com

Create social media content, post online and help our community:

Email: marketing@vdiagtool.com

Follow Us on Social Media



Facebook Page: Search for "vdiagtool"

Facebook User Group: Search for "VDIAGTOOL OFFICIAL User Group"

Instagram: Search for "vdiagtool_official"

TikTok: Search for "vdiagtool_us"

YouTube: Search for "Vdiagtool Official"

15. Appendix

15.1 Navigation Path Quick Reference

- **Misfire Counters:** MANUAL DIAGNOSIS → Region → OBDII → Auto Scan/Protocol Selection → On-Board Monitoring Test → Misfire Counters
- **Fuel Loop Status:** MANUAL DIAGNOSIS → OBDII → Live Data → Fuel System 1 / Fuel System 2
- **Readiness Status (Smog Check):** MANUAL DIAGNOSIS → OBDII → I/M Readiness Status
- **Transmission Oil Temperature:** MANUAL DIAGNOSIS → Region → Make → Model → Year → Transmission or Powertrain → Live Data → Transmission Oil Temperature / Transmission Fluid Temperature

- **Cam Crank Relearn:** MANUAL DIAGNOSIS → Region → Vehicle Selection → System Selection → Engine or ECT or Powertrain → Special Function → Cam Crank Relearn / Crank Pattern Learning
- **Crankshaft Position Variation Sensor Relearn:** MANUAL DIAGNOSIS → Region → Vehicle Selection → System Selection → Engine Control Module / Powertrain → Special Function → Crankshaft Position Variation Learn
- **Service Bay Test:** MANUAL DIAGNOSIS → Region → Vehicle Selection → System Selection → Engine Control Module / Powertrain → Actuation Test or Special Function → EVAP Service Bay Test
- **VGT Turbo Calibration:** MANUAL DIAGNOSIS → Region → Vehicle Selection → System Selection → Drive Train Control Module → Special Function → Turbo Actuator Pre-Align / Self Calibrate

15.2 Terms & Terminology Quick Reference

- **LTFT:** Long Term Fuel Trim
- **STFT:** Short Term Fuel Trim
- **MIS:** Misfire
- **I/M Readiness Status:** Smog Check
- **VGT Turbo Actuator Calibration:** Also known as Turbo Actuator Pre-Align or Self Calibrate
- **Cam Crank Relearn:** Also referred to as Cam Pattern Relearn
- **Crankshaft Position Variation Learn:** May be displayed as Crankshaft Relearn, CASE Learning, or Gear Learning
- **Actuation Test:** Also called Active Test, Component Test, or Bi-Directional Control

15.3 FAQs

Q1: Why can't I find the I/M Readiness function in the menu?

A: To access I/M Readiness, enter Manual Diagnosis, select the region (e.g., America/Europe/Asia), tap the "OBDII" icon in the upper-left corner, perform an Auto Scan or manually select the OBDII Protocol, and then choose I/M Readiness from the menu.

Q2: Why can't I find live sensor data such as Short-Term/Long-Term Fuel Trim like a generic OBD2 scanner?

A: To access live OBD2 data (including LTFT and STFT), please enter Diagnosis, select the appropriate region (e.g., America / Europe / Asia), tap the "OBDII" icon in the upper-left corner, perform an Auto Scan or manually choose the OBDII Protocol, enter Live Data, and then select the desired parameters such as LTFT, STFT, or related terms.

Q3: Why can't I find misfire data for my Ford/Dodge/Chrysler/Jeep vehicle?

A: To access misfire data, please navigate as follows: Manual Diagnosis → select region (e.g., America/Europe/Asia) → tap the OBDII icon (located in the upper-left corner) → perform an Auto Scan or manually select the OBDII Protocol for your vehicle → enter On-Board Monitor Test → then choose "Misfire Cylinder Data" or a similar menu option.

Q4: How can I export live data as a CSV file?

A: To generate a CSV file: While viewing Live Data, tap the Menu or Export icon, select Custom or set desired parameters, then choose Export to CSV or a similar option.

To locate the exported file: Open ES File Explorer, navigate to Internal Storage → diagnosis → csv_records, and your CSV files will be stored there.

Q5: The device is not charging when plugged in. The battery is very low (around 10%). What should I do?

A: Please charge the device for at least one hour, then unplug the USB-C cable, press and hold the power button for 15 seconds, release it, and check if the device powers on successfully.

Q6: When activating the device, shows error message "registration failure" after entering your email address.

A: This issue is often network-related; please try using a mobile hotspot (recommended) or switching to a different Wi-Fi network, then attempt activation again.

Q7: When entering the diagnosis software, error messages such as "license exception" or "Failed" are displayed. How can this be resolved?

A: Please try pressing and holding the diagnosis software icon to uninstall it, then re-download the software from the "Updates" section. If the issue continues, contact our support team at support@vdiagtool.com with your diagnostic tool's serial number (S/N) for further assistance.

Q8: I cannot update. I've tried both Wi-Fi and mobile hotspot, but it keeps showing connection failure. What should I do?

A: This issue is commonly caused by network restrictions, such as router firewall settings or regional network limitations. Please check whether your network allows access to the update server. If the problem continues, contact our support team at support@vdiagtool.com for assistance.

Q9: Is it possible to install the Google Play Store on the diagnostic tool?

A: This device does not support the Google Play Store. If you wish to install a third-party application, you may manually install it via an APK file. Please note, however, that we do not recommend installing third-party apps as they may impact device performance and stability.

Q10: Why can't the automatic VIN feature recognize my vehicle?

A: Automatic VIN scanning may not work on all vehicles. This can occur if the VIN is not stored in the ECU, is not yet included in our database, or if the vehicle (such as some Dodge models) uses a command-based communication protocol. You can try the following alternatives:

- Turn the ignition ON but do not start the engine, then attempt an auto scan. For older vehicles, try with the engine running.
- Manually enter the VIN.
- Navigate to: Diagnosis → Select Region → Vehicle Selection → Automatic Detection.
- Navigate to: Diagnosis → Select Region → Vehicle Selection → Manual Selection.

Q11: Why can't my diagnostic tool connect to Wi-Fi?

A: Connection issues can arise from several causes. Please try the following solutions based on your situation:

- If the connection times out, check your router settings. Ensure it is set to WPA2 (not WPA3) for maximum compatibility, and confirm it does not block traffic to regions like China. Using a mobile hotspot often resolves this; you can switch back to your home Wi-Fi after activation.
- If you use a Wi-Fi extender, try disconnecting from the main router and connecting directly to the extender.
- If the tool is connected to the internet but displays “connect internet to sync your device,” the issue may be a time zone mismatch. Please set the time zone to Pacific Time by going to: Main Screen → Settings → System → Date & Time → Select Time Zone.

Q12: How can I change the menu language to Spanish?

A: To use the diagnostic tool in Spanish, please contact support@vdiagtool.com with your device's serial number (S/N) to request authorization for the Spanish software. Once authorized, go to Settings → Language and select Spanish, then navigate to Updates to download and install all available Spanish software packages. After installation is complete, the interface will be fully available in Spanish.

Q13: Why does the scanner show "report shared successfully," but I don't receive the email?

A: Reports are sent from our email address: noreply@service-vdiagtool.com. Even if the device shows "send successfully," your email provider may block this message. Since you use Gmail, you can try whitelisting our sender address to prevent blocking. Instructions can be found here:

<https://downtimemonkey.com/blog/how-to-whitelist-an-email-address-in-gmail.php>

Note that not every user needs to set up a whitelist, as blocking does not always occur. You may also check your spam or junk folder for messages from noreply@service-vdiagtool.com.