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To avoid personal injury, property damage, or accidental damage to the product, please read all the information in this chapter before using the product.



NOTES

1. Maintain a safe environment for vehicle testing at all times.
2. Do not operate the detection equipment while driving the vehicle to avoid distraction and causing an accident.
3. Before starting the engine, you should pull the handbrake, especially the front wheel, and put the shift lever in neutral (manual transmission) or [P] gear (automatic transmission) so as not to start the engine and make the vehicle injure people.
4. The exhaust gas from the engine contains a variety of toxic compounds (such as hydrocarbons, carbon monoxide, nitrogen oxides, etc.), which will lead to slow response and even serious personal injury or death. The vehicle under test should be parked in a well-ventilated place during operation.
5. Take extreme care when working around ignition coils, distributor caps, ignition lines and plugs. These components generate dangerous voltages when the engine is running.
6. To avoid damaging the testing equipment or generating incorrect data, please ensure that the vehicle battery is fully charged and that the connection of the vehicle diagnostic seat is clean and safe.
7. The vehicle battery liquid contains sulfuric acid, sulfuric acid is corrosive to the skin, so you should avoid direct contact between the battery liquid and the skin during the operation, especially do not splash it into the eyes, and do not put it close to the fire.
8. Keep clothing, hair, hands, tools, testers, etc. away from running or hot engine parts.
9. Please use the charger that comes with it. The Company will not be responsible for any damage or loss caused by the use of other chargers not designated by the Company.
10. Keep the testing equipment dry and clean, away from gasoline, water and grease. When necessary, clean the surface of the equipment with a clean cloth coated with a mild detergent.
11. All internal repairs to test equipment must be performed by authorized maintenance organizations or authorized technicians. Attempting to disassemble or modify the device will void the warranty.

This manual uses the following conventions.

PROMPT

Prompt information provides helpful information such as additional operation instructions, tips, and suggestions. Example:

 *Prompt: The VIN code is usually located on the driver's side, in the lower right corner of the front windshield. The exact location varies from car to car. A VIN code is generally composed of 17 standard characters. The VIN code characters can contain the uppercase letters A to Z and the numbers 0 to 9, but the letters I, O, and Q are not usually used to avoid mispronunciation.*

WARNING

It indicates an imminent hazard that, if unavoidable, will result in death or serious injury to the operator or bystander. Example:

 *Warning: Reading a fault code during troubleshooting a vehicle is only a small step in the diagnostic process. The vehicle fault code is only used as a reference, and parts cannot be replaced directly on the basis of the given fault code definition. Each fault code has a set of test procedures, and the service technician must strictly follow the operating instructions and procedures described in the vehicle service manual to confirm the root of the fault.*

DANGER

It indicates an imminent hazard that, if unavoidable, will result in death or serious injury to the operator or bystander. Example:

 *Danger: If you must drive the vehicle in order to perform troubleshooting, please find someone else to help you. It is dangerous to drive and operate diagnostic equipment at the same time, which can cause severe traffic accidents.*

Table of Contents

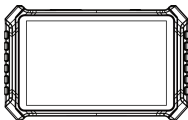
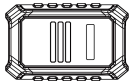
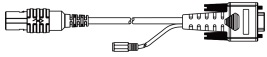
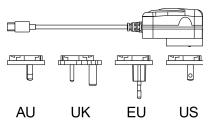
1. Packing List	1
2. Product Introduction	3
2.1 Overview	3
2.2 ST08 V2.0 Main Unit	3
2.3 VCI Diagnostic Box	5
3. First Use	6
3.1 Charging	6
3.2 Power On/Power Off	6
3.3 Network Settings	6
3.4 Registration and Update	7
4. Getting Started	11
4.1 Main Interface	11
4.2 Preparation and Connection	12
4.3 Communication Settings	13
5. ADAS Calibration	14
5.1 Activate the ADAS Calibration Function	14
5.2 ADAS Calibration Conditions	15
5.3 Start Calibration	16
6. IMMO	20
6.1 IMMO	20
6.2 Immobilizer Programming	21
7. Diagnose	34
7.1 Smart Diagnostics	34
7.2 Manual Selection	35
8. ATF Remote	46
Bluetooth Connection Steps:	46
9. Service Functions	48
9.1 A/F Reset	48
9.2 AdBlue Reset	48
9.3 Battery Replacement	48
9.4 ABS Bleeding	49
9.5 Oil Reset	49
9.6 Gearbox Learning	49

9.7 Gear Learning	49
9.8 Headlamp Matching	50
9.9 Electronic Water Pump Start	50
9.10 DPF Regeneration	50
9.11 EGR Self-learning	50
9.12 IMMO	50
9.13 Disable Transportation Mode	51
9.14 Throttle Learning	51
9.15 Tire Modification	51
9.16 Window Calibration	51
9.17 NOx Reset	52
9.18 Injector Coding	52
9.19 Start/Stop Settings	52
9.20 Brake Pad Replacement	52
9.21 TPMS Reset	52
9.22 Sunroof Initialization	53
9.23 Suspension Matching	53
9.24 Language Settings	53
9.25 Steering Angle Learning	53
9.26 Seat Calibration	53
10. Update	54
10.1 Update	54
10.2 Renew Subscription	55
11. Others	56
11.1 Feedback	56
11.2 Reports	57
11.3 Personal Center	59
11.4 Setting	62
11.5 System Update	64
11.6 TeamViewer	64
11.7 Browser	65
11.8 Files	65
11.9 Camera	65
11.10 Album	65
11.11 Recording	65

11.12 Video	65
11.13 Email	66
11.14 VideoScope (Optional)	66
12. FAQ	67
FCC Statement	69
Warranty Terms	71

1. Packing List

The following accessories are for reference only. Please consult from the local agency or check the package list supplied with this tool together.

Main Unit and Accessories			
No.	Name	Qty	Reference Picture
1	Main Unit	1	
2	VCI	1	
3	HFT Test Cable	1	
4	OBD II -16		
5	Power Adaptor (5V 3A)	1	
6	USB Cable (Type-C)	1	

7	Password Envelope	1	
8	User Manual	1	
9	Packing List	1	

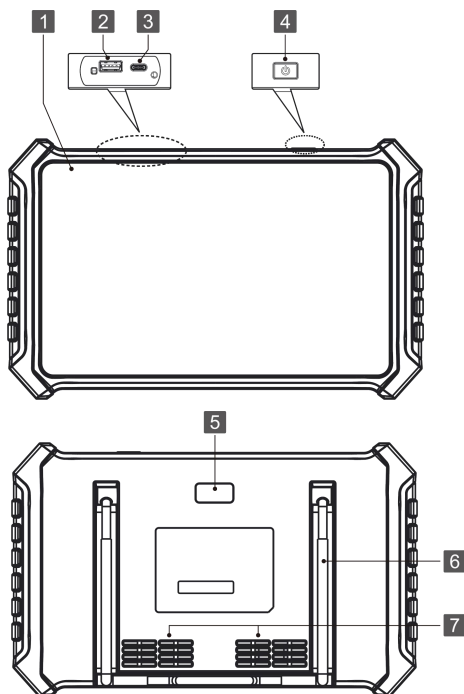
2. Product Introduction

2.1 Overview

ST08 V2.0, developed by SMARTSAFE, is a professional tool that integrates ADAS (Advanced Driver Assistance Systems) calibration, anti-theft matching and vehicle diagnose. The device can perform fault diagnosis of the entire product model and system (including reading/clearing fault codes and reading data streams, etc.), and can be used with the specified ADAS calibration tool (optional) for ADAS calibration.

 **Note:** By default, the ADAS calibration function is disabled. To ensure normal use of the calibration function, users need to activate the pin card (included with the Calibration Tool) to unlock it on the LINK first.

2.2 ST08 V2.0 Main Unit



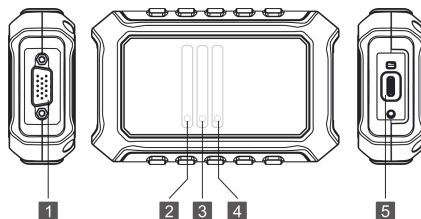
No.	Name and Description
1	Touch Screen
2	USB Type-A Used to connect USB devices or functional expansion modules.
3	USB Type-C Used to connect the power adapter for charging or connect to a computer for data transmission.
4	Power Button/Screen Lock Button - Press the button for about 3 seconds to start the machine when the power is off. - Press this button to wake up/turn off the screen when the power is on. In the power-on state, press this button to wake up/turn off the screen. - In the power-on state, press and hold this button for about 3 seconds to display options for Power off, Restart, or Screenshot; press and hold this button for about 8 seconds to force the device to power off.
5	Rear Camera
6	Holder
7	Loudspeaker

Technical Parameters:

Item	Specification
Operating System	Android
CPU	Quad-core processor, 2.0 GHz
Memory	4GB
Storage	64GB
Display Screen	8-inch touch screen, with a resolution of 1280 x 800 pixels
Rear Camera	8 MP
Wi-Fi	2.4 GHz & 5 GHz dual-band
Communication	Bluetooth, USB
Battery	3.8 V/12600 mAh
Operating Temperature	0°C~45°C
Storage Temperature	-20°C~70°C
Dimensions	242.0 × 151.6 × 44.4 mm

2.3 VCI Diagnostic Box

The device is a Vehicle Communication Interface (VCI) device, which is used to connect the vehicle diagnosis seat or battery pack low-voltage signal communication interface for data collection, and then send the data to the host for analysis.



No.	Name and Description
1	HDB15F Interface
2	Power Indicator Light When the VCI Diagnostic Box is connected to the vehicle OBD II diagnostic socket, its power indicator light turns on.
3	Vehicle Communication Indicator Light When the VCI Diagnostic Box communicates with the vehicle ECU, the indicator light flashes.
4	Tablet Communication Indicator Light - When the VCI Diagnostic Box communicates with the diagnostic host via Bluetooth, this indicator light turns blue. - When the VCI Diagnostic Box communicates with the diagnostic host via USB, this indicator light turns red.
5	USB Type-C

Technical Parameters

Item	Specification
Operating Voltage	DC 9~18 V
Communication	Bluetooth, USB
Operating Temperature	-10℃~50℃
Interface	Type-C, HDB15F
Dimensions	72.4 × 115.0 × 31.0 mm

3. First Use

3.1 Charging

 **WARNING:** Please use the included charger for charging. The company shall not be liable for any damage or losses caused by using other chargers not specified by the company.

Follow the steps below to charge the ST08 V2.0 Host:

1. Insert one end of the charging cable into the Type-C port of the host, and then connect the charger to the power socket.
2. The battery icon on the screen displays as  indicating it is charging.
3. After charging is completed, the battery icon displays as .

 **Note:**

If the equipment has not been used for a long time or the equipment battery is depleted, it may not power on normally during charging, which is normal. Please first charge the equipment for a period of time before attempting to power it on.

The battery can be recharged repeatedly. However, since the battery is a wear item, the equipment standby time will shorten after prolonged use. Please avoid frequent repeated charging to extend the battery life.

3.2 Power On/Power Off

3.2.1 Power On

Press and hold the power button on the equipment until the screen lights up.

3.2.2 Power Off

Press and hold the power button on the equipment until the power-off prompt dialog box pops up on the screen, tap **Power Off** to turn off the equipment or tap **Restart** to restart the equipment.

3.3 Network Settings

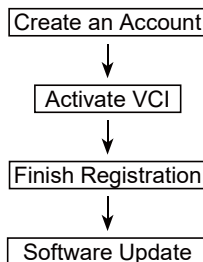
When using this equipment for the first time, the user needs to register a personal account, activate the VCI Diagnostic Box, and update the diagnostic software or APK files. At this time, the equipment must be connected to the network. Please follow the steps below to set up:

 **Note:** After enabling WLAN, the equipment power consumption will increase. When WLAN is not in use, it is recommended to turn it off to save power.

1. On the main interface, tap **Others** -> **Setting** -> **Network & internet** -> **WLAN**.
2. Tap or slide the WLAN switch to turn it on, and the equipment will start automatically scanning for available wireless networks.
3. Select the network you want to connect to:
 - If you select an open network, you can connect to it directly.
 - If you select an encrypted network, you need to enter the access password before you can connect.
4. When it displays **Connected**, it means the connection is successful.

3.4 Registration and Update

When using for the first time, the user needs to perform the following operations:



 **Note:** Before registration, ensure that the network connection to the host is normal and stable.

On the main interface, tap **Others** -> **Personal Center** -> **Log In**, and the system will pop up the following dialog box:

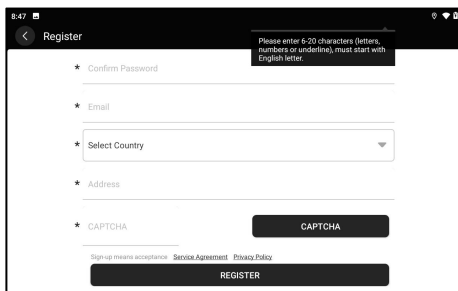
The login dialog box has a dark header with the title "Login". Below the header, there are two input fields: the first is labeled "Username" with a person icon on the left and a dropdown arrow on the right; the second is labeled "Password" with a lock icon on the left. Below these fields is a large dark button with the text "LOGIN" in white. At the bottom of the dialog, there are two links: "Retrieve Password" on the left and "New Registration" on the right.

(If you are a new user, please follow Part A.)

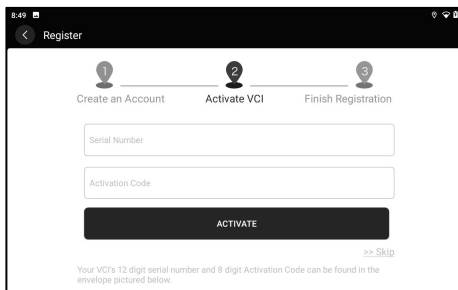
(If you have already registered, please refer to Part B to log in.)

(If you forgot your password, please refer to Part C to reset your password.)

A. If you are a new user, tap **New User Registration** to enter the registration page.

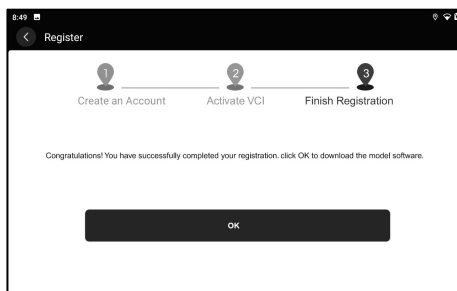
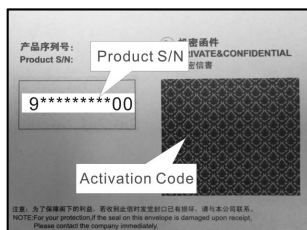
A screenshot of the 'Register' screen in the SmartSafe app. The screen has a dark header with a back arrow and the title 'Register'. Below the header, there are several input fields: 'Confirm Password', 'Email', 'Select Country' (a dropdown menu), 'Address', and 'CAPTCHA'. A 'CAPTCHA' button is located to the right of the CAPTCHA input field. At the bottom, there are links for 'Sign up more accounts', 'Service Agreement', and 'Privacy Policy', followed by a large 'REGISTER' button. A tooltip at the top right says 'Please enter 6-20 characters (letters, numbers or underline), must start with English letter.'

In the figure above, fill in the registration information in sequence (items with * are required). After completing the account information, tap **Register**, and the system will enter the connector activation screen.

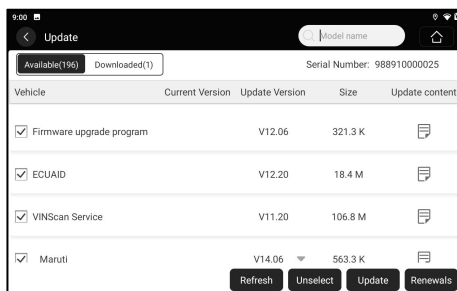
A screenshot of the 'Activate VCI' screen in the SmartSafe app. The screen has a dark header with a back arrow and the title 'Register'. Below the header, there is a progress bar with three steps: '1 Create an Account', '2 Activate VCI' (the current step), and '3 Finish Registration'. Below the progress bar, there are two input fields: 'Serial Number' and 'Activation Code'. A large 'ACTIVATE' button is located below the input fields. At the bottom, there is a link '>> Skip' and a note: 'Your VCI's 12 digit serial number and 8 digit Activation Code can be found in the envelope pictured below.'

Enter the product serial number and activation code, and tap **Activate** to complete the registration. The product serial number and activation code can be obtained from the Password Envelope in the packaging box.

 **Note:** If you skip the activation step here, you can also activate it later in **Others -> Personal Center -> Activate VCI**.



Tap **OK** to enter the Software Update interface.



On the Software Update page, tap **Update** to start downloading. After the download is completed, the system will automatically install the software.

Note: During the update, ensure that the network connection is normal. In addition, due to the large number of software, it may take a long time (depending on the network speed). Please wait patiently.

B. If you have already registered, enter your username and password, and tap **Login** to log in to your account directly.

Note: This equipment has a user information memory function. If multiple accounts have logged into this equipment, tap the triangle drop-down button

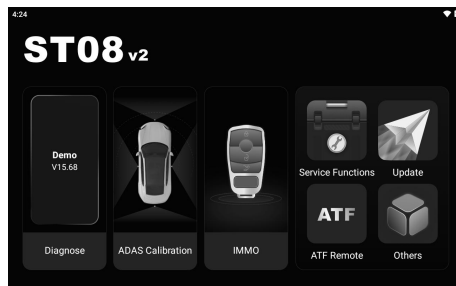
behind the username input box to select the corresponding account to log in.

C. If you forgot your password, please tap **Retrieve Password**, and then follow the on-screen prompts to reset your password.

4. Getting Started

4.1 Main Interface

ST08 V2.0 Host mainly includes the following functional modules:



Diagnose	Use this function to perform full-vehicle electronic control system diagnostics.
ADAS Calibration	Users can use this function to perform ADAS calibration. This function must be used with designated ADAS calibration tools (such as ADAS PRO PLUS).
IMMO	Use this function to perform immobilizer key matching and read/write chip data for vehicle keys, engines, gearboxes, etc.
Service Functions	Use this function to perform common special functions such as vehicle, servicing, and tuning.
ATF Remote	Use this function to perform Maintenance operations on automatic gearboxes. This function must be used with a dedicated automatic transmission cleaning and fluid exchange machine (such as ATF601+).
Update	Used to update vehicle diagnostic software and applications.

Others	Includes Feedback, Reports, Personal Center, Setting, System OTA Update, TeamViewer, Browser, Files, Camera, Album, Recording, Video, E-mail, and VideoScope , as well as other functional modules and system apps.
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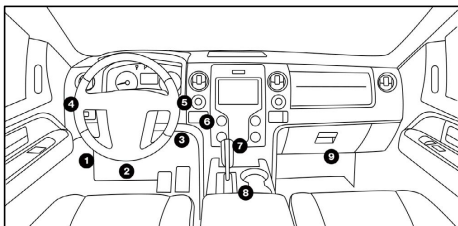
4.2 Preparation and Connection

4.2.1 Preparation

Normal Test Conditions

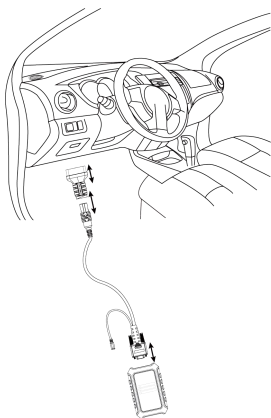
- The vehicle ignition switch is turned on.
- The vehicle battery voltage should be 11~14 V or 23~26 V.
- The throttle should be in the closed position, that is, the idle switch is closed.

Locate the diagnostic socket: For most Passenger Vehicle, the diagnostic socket is generally installed on the driver's side, about 12 inches from the center of the dashboard. On some specially designed vehicles, the location of the diagnostic socket may vary. The figure below shows the approximate locations of diagnostic sockets on different vehicles (If you cannot find the vehicle diagnostic socket, please refer to the vehicle service manual).



4.2.2 Vehicle Connection

Use the main diagnostic cable and OBD II-16 connector to connect the VCI diagnostic box and the vehicle OBD diagnostic socket



4.3 Communication Settings

The main connection methods between the Host and the VCI connector are Bluetooth communication and USB wired communication.

4.3.1 Bluetooth Communication

When the tablet and the VCI connector are connected via Bluetooth communication, the tablet communication indicator light on the VCI connector turns blue.

4.3.2 USB Communication

When the Host and the VCI connector are connected via the USB Cable, the system automatically switches to USB communication mode. At this time, the tablet communication indicator light on the VCI connector turns red.

5. ADAS Calibration

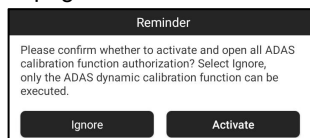
The ADAS calibration function is mainly used to calibrate driver assistance systems involving various Cameras and Radar, such as the front Camera used for the Lane Departure Warning system and the Radar sensor used for ACC (Adaptive Cruise Control).

5.1 Activate the ADAS Calibration Function

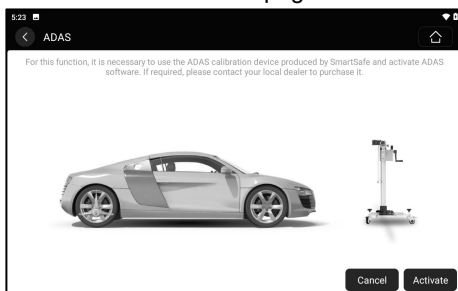
The ADAS calibration function is disabled by default. Users must activate this function with an activation card before use. In addition, this function must be used with designated ADAS calibration tools (sold separately).

Follow the steps below to activate:

(1) Tap **ADAS Calibration** on the main interface, and then tap **Passenger Vehicles**. The screen will display the following prompt box. Tap **Activate** to enter the ADAS activation page.



(2) Tap **Activate** on the ADAS activation page.



(3) Scratch off the coating area of the ADAS activation card to reveal the activation code. Enter the 24-digit activation code, and then tap **Activate** to activate the ADAS function.

6:23

Activate ADAS

Please choose the device serial number to activate the ADAS software:

Please enter the ADAS Activation Card password:

Activation Code

ACTIVATE

Cancel Activate

(4) After successful activation, the ADAS calibration function is ready for use.

5.2 ADAS Calibration Conditions

5.2.1 Calibration Prerequisites

- The vehicle system is operating normally.
- All DTCs unrelated to calibration have been resolved.
- Install the ADAS calibration tools and calibration.
- The front and rear axle alignment has been adjusted correctly.

5.2.2 Workspace Requirements

To ensure accurate calibration results, please ensure the calibration workspace meets the following requirements:

- Ensure all wheels of the vehicle are parked on a level surface.
- The lighting system around the calibration workspace should use non-flickering light sources, including but not limited to LED light sources, industrial lighting that meets international standards, and out-of-phase dual light sources.
- There should be no direct light source within the field of view of the Camera, otherwise, the Camera will reduce exposure, causing the captured calibration Targets to appear darker and adversely affecting calibration.
- The light source should ensure that there are no glare spots on the calibration Targets.
- The light source should ensure the lighting in the calibration workspace is evenly distributed.
- Do not change the brightness of the lighting, and ensure there are no other

varying light sources around the workspace, such as vehicles with their lights on.

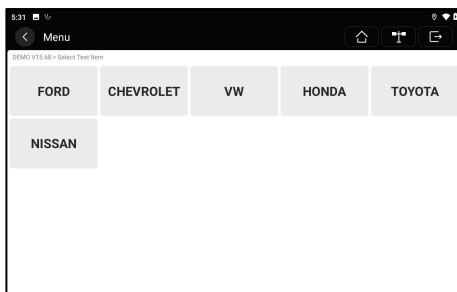
5.3 Start Calibration

Users must strictly follow the calibration prompts on the diagnostic Host to perform calibration operations. For some vehicle models, calibration tools and calibration Targets are not required. However, for some Camera-based ADAS systems, calibration cannot be completed without the help of calibration tools and calibration Targets. In this case, the user must manually position and adjust the calibration tools and the vehicle.

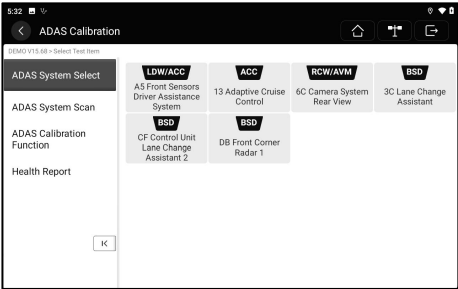
The following introduces the ADAS calibration function through the ADAS demonstration program.

 **Note:** Before performing ADAS calibration operations, please ensure that the VCI Diagnostic Box is connected to the vehicle diagnostic socket and that its Bluetooth communication with the Host is working properly.

Tap **ADAS Demo** on the ADAS calibration page to enter the following page.



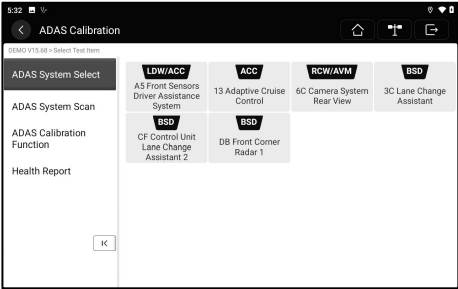
Tap **VW** (taking Volkswagen as an example) to enter the following page:



 *Note: The diagnostic menu varies by vehicle model.*

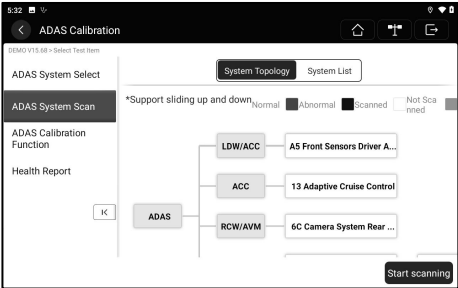
5.3.1 ADAS System Select

Select the ADAS system that requires ADAS calibration.



5.3.2 ADAS System Scan

Use this function to scan which ADAS systems are installed on the test vehicle.



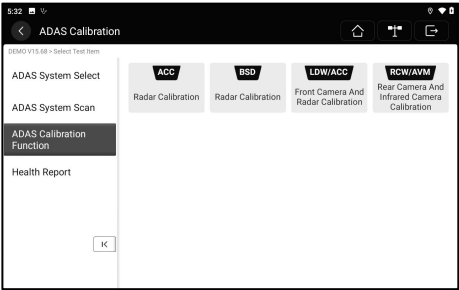
ADAS systems support two display modes: topology and list. Tap **Start Scanning** to scan the ADAS systems one by one. After the scan is completed,

tap a system displayed in red (red indicates that the system has DTCs) to view the DTCs, or tap a system that is operating normally (a system displayed in green, indicates that the system is operating normally) to perform other diagnostic functions.

5.3.3 ADAS Calibration Function

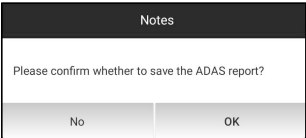
Users can use this option to perform ADAS calibration operations. When using this function, calibration tools such as ADAS Mobile or ADAS PRO PLUS must be used. The calibration tools are used to position the calibration Targets, and the tablet guides the user in positioning the calibration tools and provides detailed calibration steps.

Tap **ADAS Calibration Function** to enter the following page:



Tap the item to be calibrated, and then follow the screen instructions to perform the calibration operation.

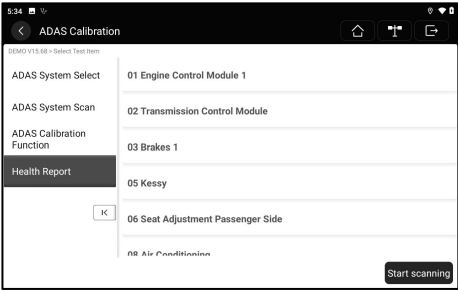
After the calibration is completed, the screen displays a prompt asking whether to save the ADAS report.



Tap **OK** to save. All ADAS reports are saved under **Others-> Reports -> ADAS Reports** tab.

5.3.4 Health Report

After performing ADAS calibration, use this option to re-scan all control modules of the vehicle and check whether the DTCs related to the ADAS systems has been cleared or not.

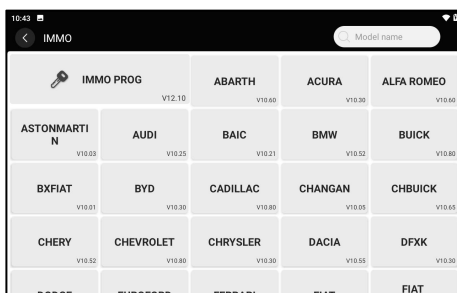


6. IMMO

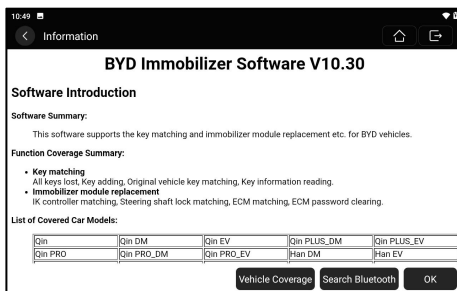
Used to perform immobilizer key matching. Supports key programming, engine replacement, and gearbox replacement for most vehicle models on the market. It can obtain ECU information and read, erase, and write related chips containing immobilizer data. Some functions must be used with an immobilizer programmer (optional).

6.1 IMMO

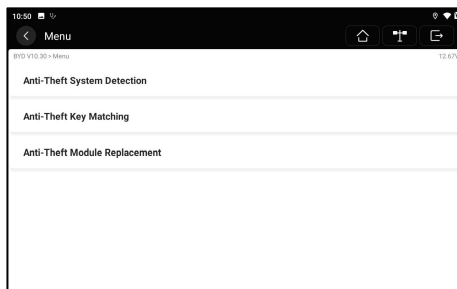
1. Tap **IMMO** on the main interface to enter the vehicle model selection page, and select the corresponding vehicle brand according to the vehicle under test.



2. Tap **OK** on the vehicle model version information page to proceed to the next step.



3. Tap **Anti-Theft Key Matching** to proceed to the next step.

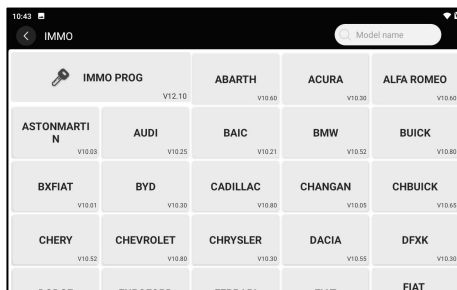


4. Select the corresponding operation mode according to different application scenarios, and then follow the steps prompted by the system to complete the IMMO operation. For detailed operating steps, please refer to the user manual included with the immobilizer programmer.

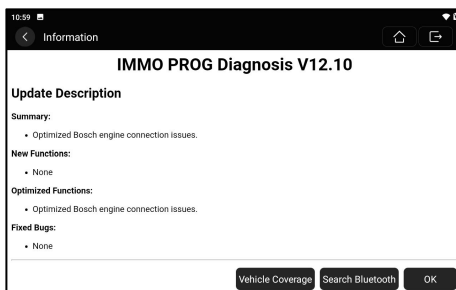
6.2 Immobilizer Programming

This operation usually needs to be used with an immobilizer programmer.

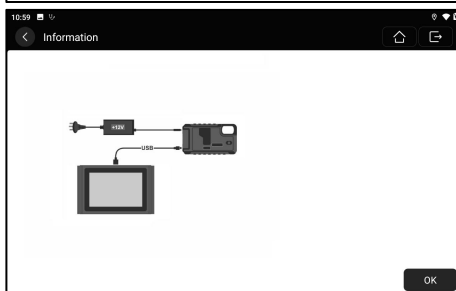
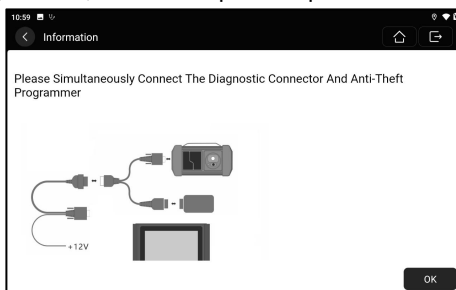
1. Tap **IMMO** on the main interface to enter the vehicle model selection page, and tap **IMMO PROG** on the vehicle model selection page to proceed to the next step.



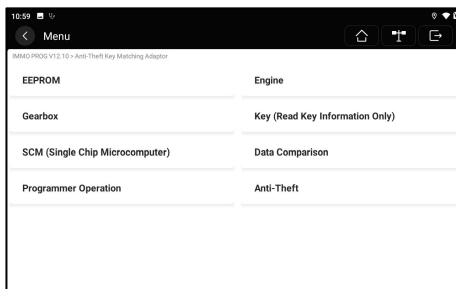
2. Tap **OK** on the vehicle model version information page to proceed to the next step.



3. Follow the on-screen prompts to connect the VCI Diagnostic Box and the immobilizer programmer, and then tap **OK** to proceed to the next step.

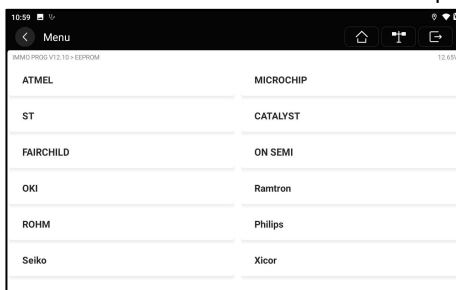


4. Select the function to be performed.



6.2.1 EEPROM Programming

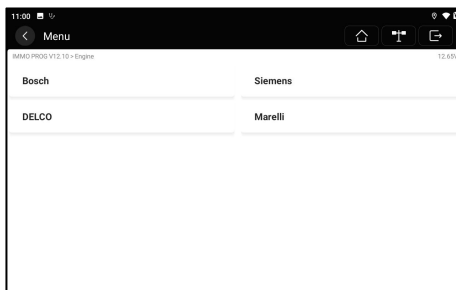
This function is used to read/write on-board EEPROM chip data.



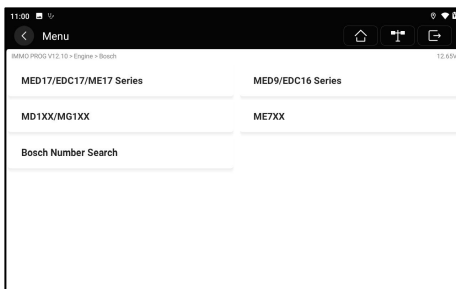
6.2.2 Engine Programming

This function is used to read engine data and write the backup data after replacing the engine with a new one.

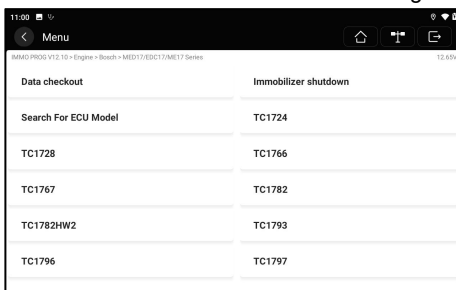
1. Tap **Engine**, and then select the brand (for example, "Bosch").



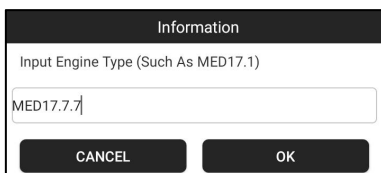
2. Select the engine series (e.g., "MED17").



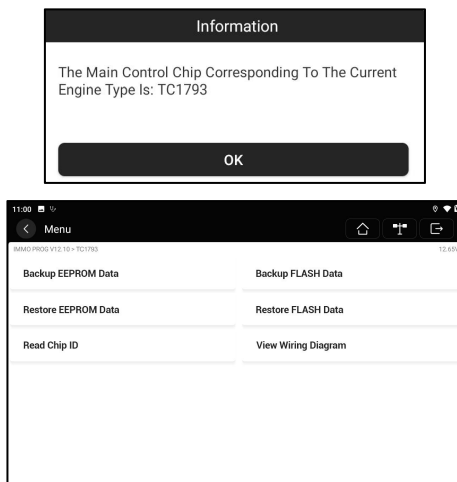
3. Tap **Search For ECU Model** to search based on the engine model.



4. Check the engine model (printed on the label on the back of the engine), enter this model in the pop-up dialog box (the engine model shown in the figure below is MED17.7.7), and tap **OK**.



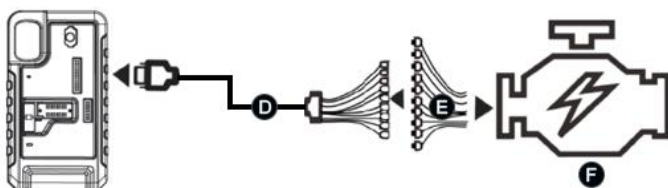
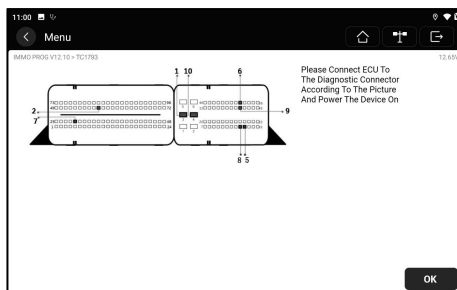
5. The system displays a dialog box showing the ECU model corresponding to the engine. Tap **OK** to enter the function selection page.



Note: The available functions vary by vehicle model.

- Tap **View Wiring Diagram** to check how to connect the immobilizer programmer to the engine.

Note: The connection method may vary for different types of vehicle engines. Please refer to the connection diagram displayed in the software.



D. BENCH Mode Cable (Optional)

E. Adapter Cable corresponding to the BENCH Mode Cable (Optional)

F. Engine

b. Tap **Backup EEPROM Data** to create a file name and save the data on the tablet.

c. Tap **Restore EEPROM Data** to write the backed-up EEPROM data into the new engine.

⚠ WARNING: The **Restore EEPROM Data** function may only be performed when an irreversible error occurs or after the engine has been replaced with a new one.

d. Tap **Backup FLASH Data** to save the FLASH data on the tablet to prevent unexpected faults.

e. Tap **Read Chip ID** to read the chip information.

6.2.3 Gearbox Programming

This function is used to restore gearbox historical data or write new data after replacing the gearbox with a new one.

The following uses the Volkswagen/Audi DQ200-MQB gearbox as an example to demonstrate the gearbox programming process.

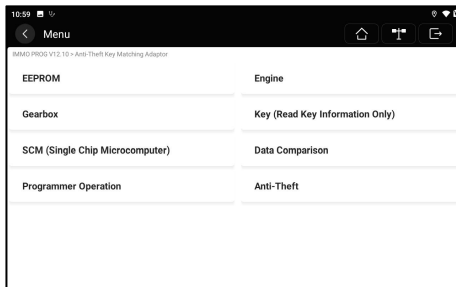
There are two scenarios for gearbox replacement, and users can select the corresponding solution according to the actual situation.

Situation 1 - The data of the original vehicle gearbox ECU is readable. Data is not damaged, and the gearbox can be cloned. In this case, we just need to back up the original gearbox EEPROM and FLASH, and then restore them into the gearbox ECU for replacement.

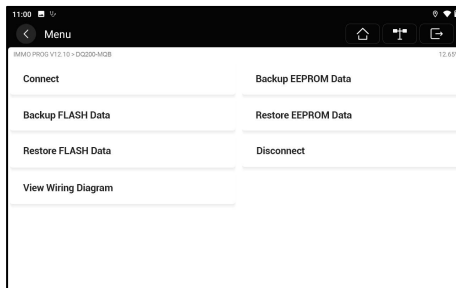
Situation 2 - The data of the original vehicle gearbox ECU is unreadable or the data is damaged. In this case, we need to back up the EEPROM of the ECU for replacement, and then manually input the original CS code or get the original CS code from the original key.

Situation 1:

1. Tap **Gearbox**.



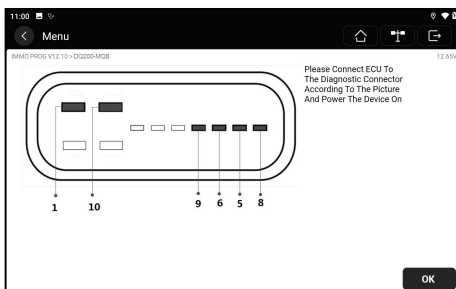
2. Select **VW/Audi** for the vehicle brand and **DQ200-MQB** for the gearbox type (used here as an example), and then enter the function selection page.

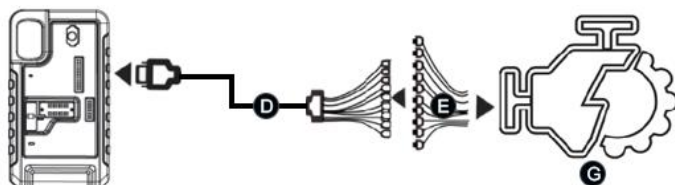


Note: The available functions vary by vehicle model.

3. Tap **View Wiring Diagram** to view how to connect the immobilizer programmer to the BENCH mode cable and the corresponding adapter cable in order to view the original vehicle gearbox ECU information.

Note: The connection method may vary for different types of vehicle gearboxes. Please refer to the connection diagram displayed in the software.



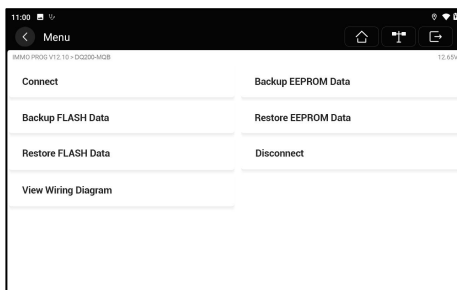


D. BENCH Mode Cable

E. Adapter Cable for the BENCH Mode Cable

G. Gearbox ECU

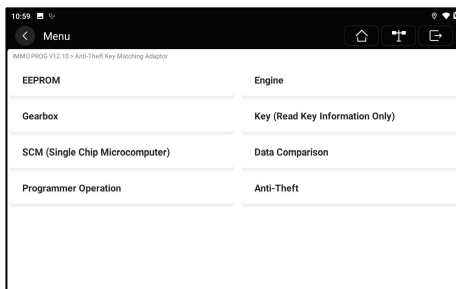
4. Tap **Connect** to read the chip ID of the original vehicle gearbox.
5. Tap **Backup EEPROM Data** to read the EEPROM data of the original vehicle gearbox, then enter a new file name and save it on the tablet.
6. Tap **Backup FLASH Data** to back up the FLASH data of the original vehicle gearbox, then enter a new file name and save it on the tablet.
7. Tap **Disconnect** to disconnect from the original vehicle gearbox, and then remove the BENCH mode cable from the original vehicle gearbox.
8. Follow Step 3 and Step 4 to connect the new gearbox ECU to the immobilizer programmer.
9. Tap **Restore EEPROM Data**, select the original vehicle gearbox EEPROM data backed up in Step 5, and then tap **OK** to write the data into the new gearbox.



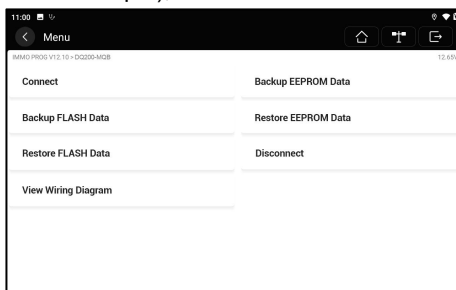
10. Tap **Restore FLASH Data** to write the original vehicle gearbox FLASH data backed up in Step 6 into the new gearbox ECU.

Situation 2:

1. Tap **Gearbox**.



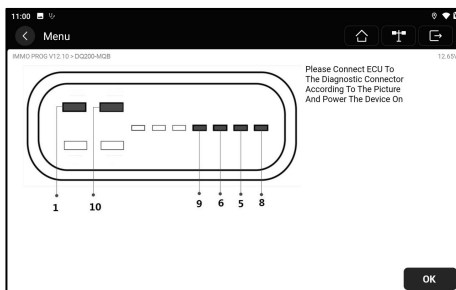
2. Select **VW/Audi** for the vehicle brand and **DQ200-MQB** for the gearbox type (used here as an example), and then enter the function selection page.

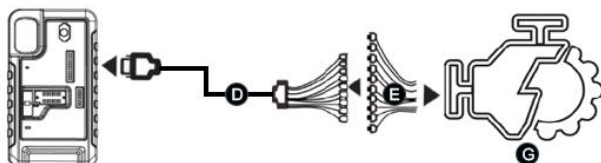


Note: The available functions vary by vehicle model.

3. Tap **Direct Wiring Diagram** to view how to use the BENCH mode cable and the corresponding adapter cable to connect the immobilizer programmer to the original vehicle gearbox ECU.

Note: The connection method may vary for different types of vehicle gearboxes. Please refer to the connection diagram displayed in the software.



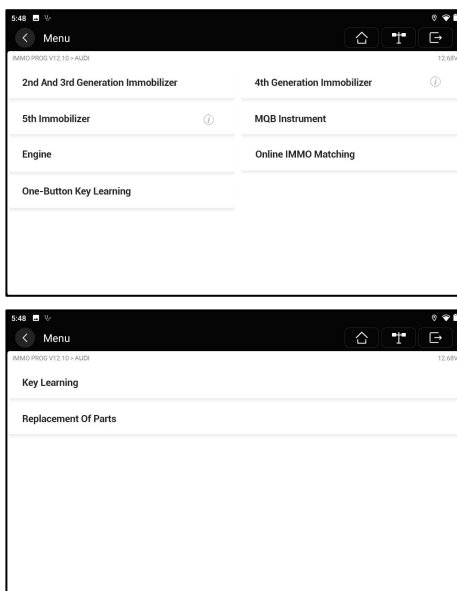


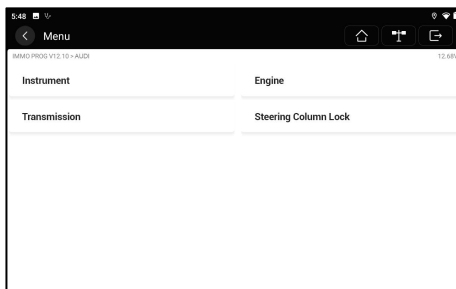
D. BENCH Mode Cable

E. Adapter Cable for the BENCH Mode Cable

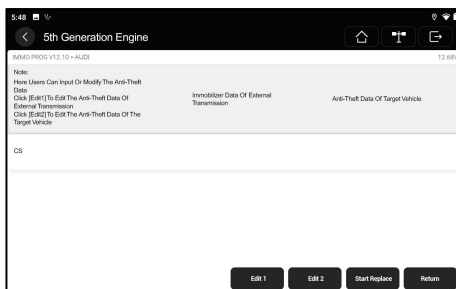
G. Gearbox ECU

4. Tap **Connect** to read the chip ID of the original vehicle gearbox.
5. Tap **Backup EEPROM Data** to read the EEPROM data of the original vehicle gearbox, then enter a new file name and save it on the tablet.
6. Exit the immobilizer programmer application. Install the new gearbox on the vehicle and connect the immobilizer programmer to the vehicle diagnostic socket.
7. Tap **Service Functions** -> **IMMO**, select **VW** on the vehicle brand page to enter the immobilizer system, then select **MQB Instrument** -> **Replacement Of Parts** -> **Transmission**, and tap **OK**.





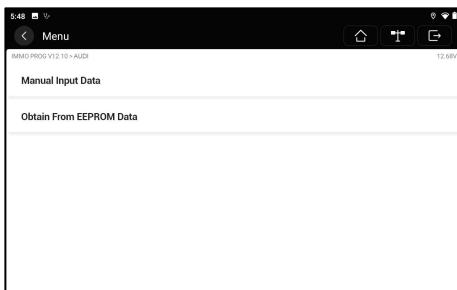
8. Tap **YES** to enter the gearbox replacement interface.



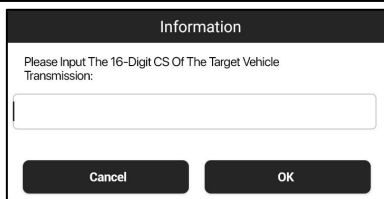
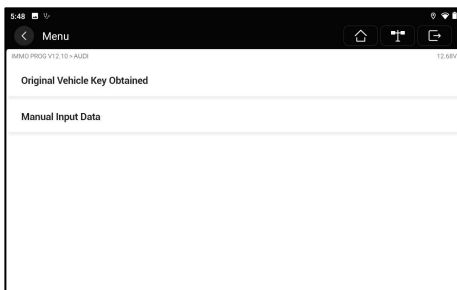
9. Replacing the gearbox ECU requires two sets of immobilizer data:

- Gearbox and engine immobilizer data (backed up in **Step 5**).
- Immobilizer data of the target vehicle.

1) Select **Edit1**, tap **NO**, select **Obtain From EEPROM Data**, select the gearbox EEPROM data backed up in **Step 5**, and then tap **OK**.



2) Tap **Edit2**. If the relevant data of the original vehicle gearbox has been obtained from other equipment, please select **Manual Input Data** and then enter the 16-byte CS code of the original vehicle gearbox.



Note: If there is no immobilizer data for the target vehicle, select **Original Vehicle Key Obtained**, place the original vehicle key into the key slot of the immobilizer programmer, and then follow the prompts to obtain the data for replacement without manual entry.

10. Tap **Start Replacement**, and then follow the Message to enter the original vehicle VIN, power class, and instrument cluster CS code to complete the gearbox replacement.

Note: If **Original Vehicle Key Obtained** has been selected in Step 9, the system will automatically obtain the vehicle VIN, power class, and CS code

in this step without manual entry.

6.2.4 Key Programming

This function is used to back up old key data and write it into a new key, as well as to detect the remote control frequency.

6.2.5 MCU Programming

This function is used to read the chip (also known as MCU) ID, lock/unlock the chip, and back up/restore EEPROM data and FLASH data.

 **Note:**

- *Read/write operations involve a large data stream. It is recommended to use a USB Cable connection to improve communication stability.*
- *MCU connections vary by MCU type. Please refer to the wiring diagram shown on the screen.*

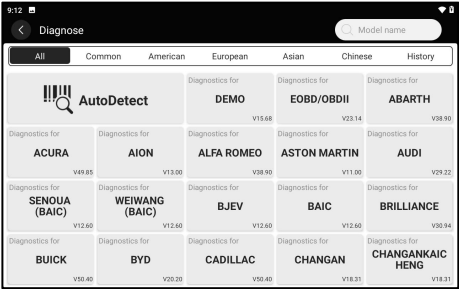
7. Diagnose

This function is mainly used for vehicle diagnostics. Users can use "Smart Diagnostics" to quickly identify vehicle information and enter the system to perform vehicle diagnostics, or manually select the vehicle model and system to perform diagnostics.

7.1 Smart Diagnostics

Use "Smart Diagnostics" to quickly identify vehicle information and perform vehicle diagnostics without manually selecting the vehicle model.

Tap **Diagnose** -> **AutoDetect** on the main interface to enable the vehicle smart diagnostics function.

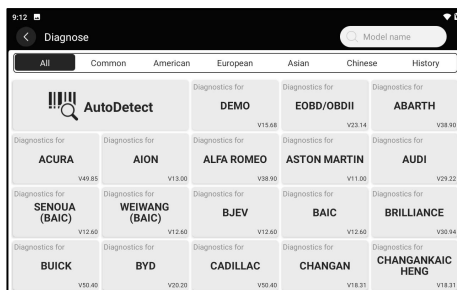


Some vehicle models may not be identified through the Smart Diagnostics function. In this case, the following dialog box will pop up, allowing the user to scan or manually enter the vehicle VIN.

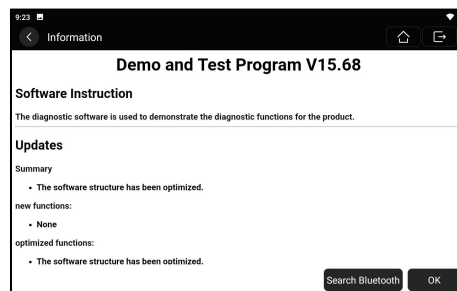


7.2 Manual Selection

1. Tap **Diagnose** on the main interface to enter the vehicle brand selection interface.



2. Tap the brand corresponding to the vehicle under test. Here, the "Demonstration Program" is used as an example to explain the operating steps for vehicle diagnostics.

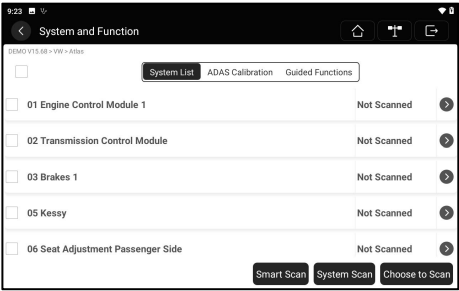


Screen Button Description:

Search Bluetooth	Used to scan for and discover nearby connectable Diagnostic Boxes so that a wireless connection can be established for vehicle data reading.
OK	Tap to confirm and proceed to the next step.

3. Select the scan option to be performed. Users can also tap "ADAS Calibration" to perform ADAS-related tests for the vehicle.

Note: Different vehicle models will have different systems and common special functions. Users can select the required options for testing.

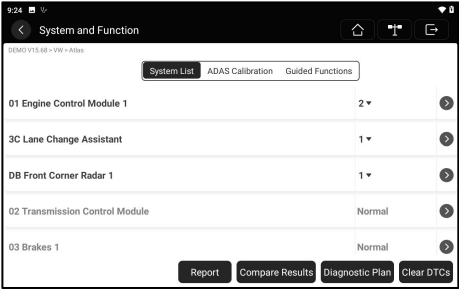


Note: Different vehicle models will have different systems and common special functions. Users can select the required options for testing.

7.2.1 Smart Scan

This function is used to quickly scan the vehicle and directly generate a vehicle health report (this option is displayed only if the vehicle model diagnostic software supports this function).

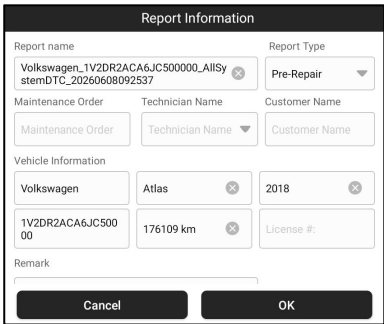
Tap **Smart Scan** on the test option selection interface, and the system will start scanning each system for DTCs.



Systems with DTCs are displayed on the screen in red text, along with the specific number of DTCs. Tap a system to view detailed fault information. Systems without faults are displayed in green text.

Screen Button Description:

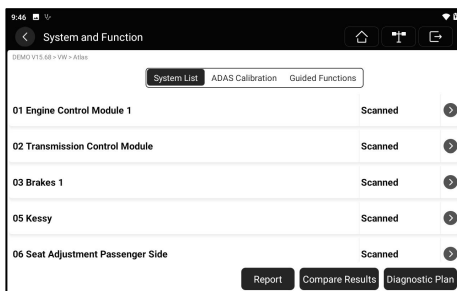
Report	Tap to save the current fault report as a test report.
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	 Tap ▼ to select the report type from the drop-down list, enter the details, and then tap OK.  Note: <i>Diagnostic reports are divided into three types: Pre-Repair Report, Post-Repair Report, and Diagnostic Scan (if no comparison is needed, you can select the "Diagnostic Scan" type). This equipment has a report comparison function, so you need to select the correct report type when saving the report. Through comparison, the repair technician can clearly understand whether the DTCs found before diagnosis have been completely cleared after repair.</i> Enter the technician and customer names, and then tap OK to enter the report details page. On the report details page, tap Save to save the report. All test reports are saved under the Others -> Reports -> Diagnose tab.
Compare Results	Tap to select the Pre-Repair Report. By comparing the pre-repair and post-repair test reports, the repair technician can clearly understand whether the DTCs found before repair have been completely cleared after repair.  Note: <i>Before performing this function, please ensure:</i> • <i>The pre-repair diagnostic report for the current test vehicle has been saved; and</i> • <i>Repairs have been made based on the pre-repair diagnostic report, and the DTCs have been cleared. Otherwise, there will be no difference between the pre-</i>

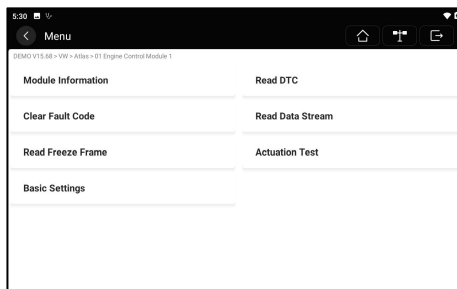
	<i>repair report and the post-repair report.</i>
Diagnostic Plan	Tap to view the cause analysis of the DTC.
Clear DTCs	Tap to clear all DTCs.  <i>Note: For general vehicle models, please strictly follow the standard procedure: first read the DTCs, then clear the DTCs, perform a road test, read the DTCs again for verification, repair the vehicle, clear the DTCs, and perform another road test to confirm that the DTCs no longer appear.</i>

7.2.2 System Scan

This function is used to scan which systems the vehicle is equipped with. Tap **System Scan** on the test option selection interface, and the system will start scanning the vehicle systems. After the scan is completed, the screen will display the scan results.



Users can manually select the vehicle electronic control system to perform test function operations. On the test option selection interface, tap the button on the right side of an individual electronic control system (for example, "ECM") to go to the test  function selection page.



 *Note: The diagnostic menu may vary for different vehicle models.*

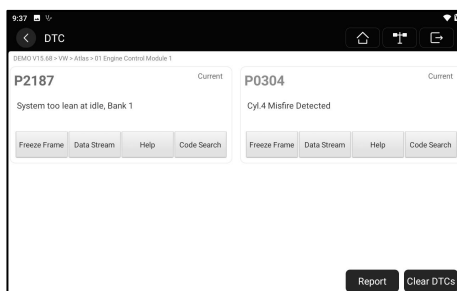
A. Module Information

This function is used to read the current vehicle ECU version information.

B. Read DTC

This function is used to read the DTCs present in the current vehicle ECU, helping repair personnel quickly understand the causes of the vehicle fault.

Tap **Read DTC** on the test function selection page, and the screen will display the following diagnostic results.



 **WARNING:** Reading DTCs is only one small step in the overall vehicle diagnostic process. Vehicle DTCs are for reference only, and parts must not be replaced directly based solely on the provided DTC definitions. Each DTC has a corresponding test procedure, and the repair technician must strictly follow the operating instructions and procedures described in the vehicle service manual to identify the root cause of the fault.

Screen Button Description:

Freeze Frame	If this button is highlighted, it indicates that freeze frame information is available. The freeze frame function records the values of certain specific data
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	streams at the moment a vehicle fault occurs for troubleshooting purposes.
Data Stream	Tap to view the real-time operating data and parameters of the components related to this DTC.
Help	Tap to view the possible causes of this DTC.
Code Search	Tap to search online for the specific definition of this DTC.
Report	Save the current test results as a test report. All test reports are saved under the Others -> Reports -> "Diagnose" tab.

C. Clear Fault Code

This function is used to clear the DTCs stored in the ECU of the tested system.

Tap **Clear Fault Code** on the test function selection page, and the system will pop up a confirmation dialog box for clearing. Tap **Yes** to confirm clearing the DTCs.

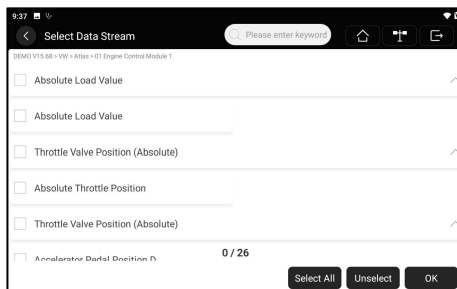
 *Note: For general vehicle models, please strictly follow the standard procedure: first read the DTCs, then clear the DTCs, perform a road test, read the DTCs again for verification, repair the vehicle, clear the DTCs, and perform another road test to confirm that the DTCs no longer appear.*

D. Read Data Stream

This function is mainly used to read and display the real-time operating data and parameters of the vehicle ECU. By observing these real-time data streams, repair technicians can gain insight into the overall performance of the vehicle and provide guidance for vehicle repair.

 **DANGER:** *If you must drive the vehicle to perform troubleshooting, have another person assist you. Driving while operating the diagnostic equipment is dangerous and may cause serious traffic accidents.*

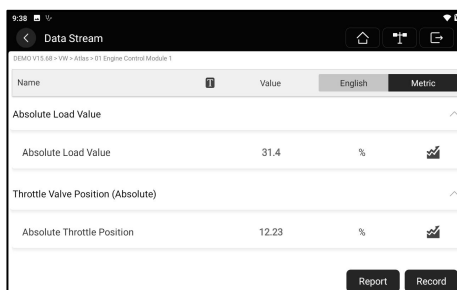
Tap **Read Data Stream** on the test function selection page, and the system will enter the data stream selection page.



Screen Button Description:

Select All	Tap to select all data stream options.
Unselect	Tap to deselect all selected data stream options.
OK	Confirm the current operation.

Check the data streams you want to view and then tap **OK**. The system will display the live data for the selected items.



Style set		
Absolute Load Value	B	A
Throttle Valve Position (Absolute)	B	A
Accelerator Position	B	A
Outside Air Temperature	B	A
Current Of Oxygen Sensor Bank 1 Sensor 1 (Broadband Sensor)	B	A
Oxygen Sensor Bank 1 Sensor 2 (Jump Sensor)	B	A
Cancel OK		



Note:

1. Tap , the screen will display the following pop-up window: Users can set different display styles for each data stream option according to their personal preferences.

 Indicates pinning to the top. After tapping, it will be highlighted as . On the data stream display interface, the data stream options with the  icon will be displayed at the top of the data stream option list.

To unpin, tap the icon again.

B indicates that the current data stream will be displayed in bold.

A indicates that the current data stream will be displayed in red.

2. Tap **English / Metric** to switch units.

3. If the read data stream value is not within the standard value range, the data stream will be displayed in red.

There are 3 display modes for data streams, and users can choose the suitable way to browse:

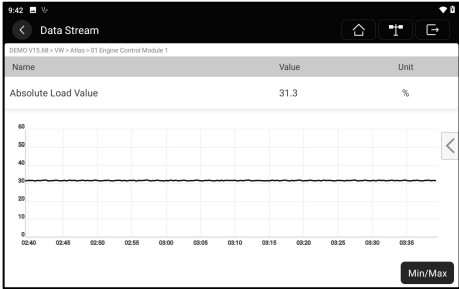
- **Graph:** Displays parameters in waveform format.
- **Value:** The default display mode, which displays parameters in numerical and list formats.
- **Custom Combination:** Presents graphs in a combined manner for users to compare.

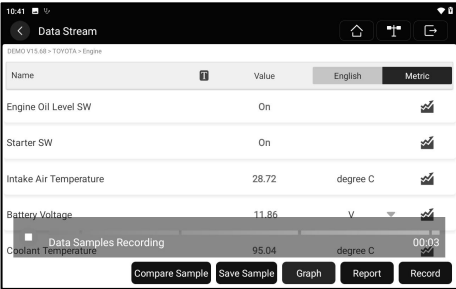


Note: Different data stream options are marked with different colors.

Screen Button Description:

 (Single Graphic)	Tap to display the current (single) data stream in a waveform graph.
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	 Note: The waveform graph can be zoomed in or out. Tap the screen with two fingers (such as the thumb and index finger), and then slide your fingers to adjust the distance between them to zoom in or out on the screen content. • Upper Limit/Lower Limit: Tap to set the maximum/minimum value. Once the current value exceeds the set value, the system will issue a warning.
Standard	Tap to select a data stream sample. The values you set and saved during the data stream acquisition process will be imported into the Standard Range column for easy comparison. Note: Before performing this function, you must first acquire and save the values of the data stream options.
Collect	Used to collect data stream samples. After collection, entry, and saving are completed, you can import the data stream sample to overwrite the current "Standard Range" column data each time you view the data stream options. Tap this button to start recording, and the screen will display as follows: Note: The system only records data stream options with units.

	 Tap  to stop recording, enter the file name in the pop-up dialog box, and then tap OK to save the recorded data stream. All recorded data streams are saved in Others -> Personal Center -> Standard Data Streams.
Graph	Displays the parameters of the selected data stream in a waveform graph format. • <u>Custom Combination</u>: Presents graphs in a combined manner for users to compare. Select the data stream options you want to view (up to 4 data stream options can be selected), and the screen will display the corresponding waveforms. To remove unwanted options, simply uncheck them. • <u>Value</u>: Displays parameters in numerical and list formats.
Report	Tap to save the current data stream values as a report. The saved test reports are stored in Others -> Reports -> Diagnostic.
Record	Tap to start recording test data. The recorded test data can provide an important reference for technicians when troubleshooting vehicle problems. To stop reading data, tap the icon in front of the progress bar  button.  <i>Note: The saved file is named with the vehicle</i>

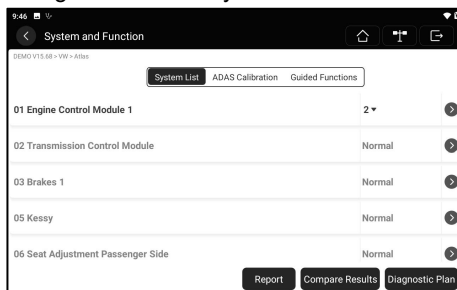
model + VCI equipment serial number + system time when recording started. To better distinguish file names, please configure the correct system time.

E. Actuation Test

This function is mainly used to test whether the actuators in the electronic control system are working properly.

7.2.3 Selected Scan

This function is used to select the vehicle electronic control systems that the user needs to scan. On the test option selection interface, check the checkboxes in front of the systems to be scanned, and then tap **Choose to Scan** to start scanning the selected systems.



8. ATF Remote

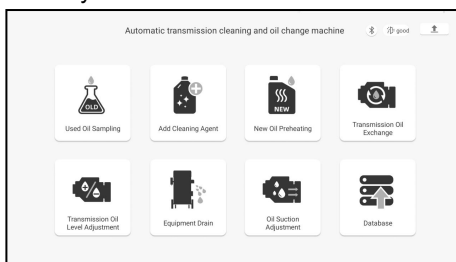
This function is used to perform maintenance operations on automatic gearboxes. It must be used with a dedicated Auto Transmission Cleaner and Fluid Exchanger (optional).

Bluetooth Connection Steps:

1. Turn on the power switch of the automatic transmission cleaning and fluid exchange machine, and ensure that the Bluetooth function on the ST08 V2.0 is turned on.

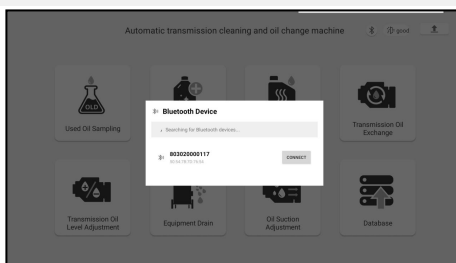
2. Tap **ATF Remote** on the Main Interface of the ST08 V2.0 to enter the following page, and then tap the Bluetooth icon at the top right of the page

 , to search for nearby Bluetooth devices.



3. According to the serial number of the device to be connected, find the corresponding serial number in the device list displayed on the page, and tap **Connect**.

 **Note:** The device serial number can usually be found on the nameplate label attached to the device.



4. After the Bluetooth connection is successfully established, the Display

Screen of the Auto Transmission Cleaner and Fluid Exchanger will display a message indicating that the Bluetooth connection is successful. You can then use the ST08 V2.0 to operate some functions of the Auto Transmission Cleaner and Fluid Exchanger.

9. Service Functions

This module provides the quick entry for commonly used special function operation, including A/F Reset, Brake Reset, maintenance lamp returns to zero, steering angle learning, battery replacement, ABS exhaust, throttle learning, tire pressure reset, DPF regeneration, wave case learning, gear learning, headlamp matching, electronic water pump start, engine power balance, anti-theft matching, high pressure accumulator health detection, GPF regeneration and release of transport mode etc. If you need to operate more special functions, you can enter the diagnostic model software to operate.

 *Note: The specific special functions provided depend on the vehicle type.*

9.1 A/F Reset

This function is used to set or learn air/fuel ratio parameters.

9.2 AdBlue Reset

After the diesel exhaust fluid (automotive AdBlue) is replaced or refilled, an AdBlue reset must be performed.

9.3 Battery Replacement

Battery Replacement uses the vehicle diagnostic equipment to reset the monitoring unit of the vehicle battery, clear the original fault information related to insufficient battery power, and re-match the system so that the monitoring unit can monitor based on the information of the current battery.

Battery replacement adaptation is required in the following situations:

(1) After replacing the main battery, battery replacement adaptation is required to clear the original low-battery information and prevent the relevant control modules from detecting false information, which could cause some electronic auxiliary functions of the vehicle to become unavailable, such as the automatic start-stop function, one-touch sunroof operation, and automatic power window functions.

(2) The battery monitoring sensor uses the battery replacement adaptation function to re-match the control module and the monitoring sensor, so that battery usage can be monitored more accurately and incorrect warning messages in the instrument cluster can be avoided, thereby preventing false

alarms.

9.4 ABS Bleeding

When air is present in the ABS system, the ABS Bleeding function must be used to bleed the brake system so as to restore the braking sensitivity of the ABS system. In addition, the ABS Bleeding function must also be used to bleed the ABS system after replacing the ABS control module, ABS pump, brake master cylinder, brake wheel cylinder, brake lines, or brake fluid.

9.5 Oil Reset

If the vehicle maintenance light illuminates, it indicates that the vehicle requires maintenance and servicing. After the maintenance is completed, the driving mileage or driving time must be reset to zero so that the maintenance light turns off and the system starts a new maintenance cycle.

9.6 Gearbox Learning

This function performs gearbox self-learning to improve shift quality.

After the gearbox is removed, installed, or repaired (or after the Battery is disconnected on some vehicle models), shift delay or shift shock may occur. In this case, this function must be performed so that the gearbox can automatically compensate according to driving conditions and achieve more comfortable and ideal shift quality.

9.7 Gear Learning

Crankshaft position sensor adaptive learning. The crankshaft position sensor learns the machining error of the crankshaft teeth and saves it into the computer to perform more Precise engine misfire diagnosis. For a vehicle equipped with a Delphi engine, if gear learning has not been performed, the fault light will turn on after the engine is started. When using the diagnostic equipment Headlamp Matching for testing, there will be a DTC P1336 indicating that gear learning has not been performed. In this case, you must use the diagnostic equipment to perform the Special Functions of gear learning on the vehicle. After this function is successfully completed, the fault light will turn off.

Crankshaft tooth learning must be performed after replacing the engine ECU,

crankshaft position sensor, or crankshaft flywheel, or when a DTC indicating that crankshaft tooth learning has not been performed is present.

9.8 Headlamp Matching

This function can initialize the adaptive headlamp system. The adaptive headlamp system can determine whether to automatically turn on the headlamps based on the ambient light intensity, monitor the vehicle speed and body attitude, and adjust the headlamp illumination angle as needed.

9.9 Electronic Water Pump Start

Before bleeding the cooling system, use this function to activate the electronic water pump.

9.10 DPF Regeneration

The DPF Regeneration function mainly uses combustion and oxidation methods at regular intervals (such as high-temperature combustion, or lowering the ignition point of particulate matter through fuel additives or catalysts) to remove particulate matter from the filter, so that the filter performance remains in an optimal and stable condition.

DPF regeneration is required in the following situations:

- (1) Replacing the exhaust back pressure sensor;
- (2) Removing or replacing the diesel particulate filter;
- (3) Removing or replacing the fuel additive nozzle;
- (4) Removing or replacing the oxidation catalytic converter;
- (5) The DPF regeneration fault light illuminates, and DPF regeneration must be performed after repair;
- (6) Repairing or replacing the DPF regeneration control module.

9.11 EGR Self-learning

This function is used for EGR (Exhaust Gas Recirculation) valve self-learning after cleaning or replacement.

9.12 IMMO

To prevent the vehicle from being used with an unauthorized key, the immobilizer key matching function allows the vehicle immobilizer control system to identify and authorize the remote key before the vehicle can be

started and used normally. In addition, when replacing the ignition switch key, ignition switch, instrument cluster, or engine control unit (ECU), body control module (BCM), or remote key, immobilizer key matching is required.

9.13 Disable Transportation Mode

To reduce power consumption, the vehicle may limit the vehicle speed, prevent the network from waking up when a door is opened, and disable the remote key. In this case, Transportation Mode must be disabled to restore the vehicle to normal operation.

9.14 Throttle Learning

Throttle Learning uses the vehicle diagnostic tool to initialize the throttle actuator so that the ECU learning value returns to the initial state, enabling more accurate control and adjustment of the throttle (or idle motor) to regulate the intake air volume.

Situations where throttle learning is required:

- (1) After the electronic control unit is replaced, the relevant operating characteristics of the throttle have not yet been stored in the unit, so throttle learning is required.
- (2) After the electronic control unit is powered off, its stored memory is lost, so throttle learning is required.
- (3) After replacing the throttle assembly, throttle learning is required.
- (4) After replacing or removing and installing the intake manifold, the coordinated idle control between the electronic control unit and the throttle body is affected, so throttle learning is required.
- (5) After cleaning the throttle, although the characteristics of the idle throttle potentiometer have not changed, the intake air volume at the same throttle opening has changed, and the idle control characteristics have changed. In this case, throttle learning is required.

9.15 Tire Modification

This function is used to set tire size parameters after tire modification or replacement.

9.16 Window Calibration

This function is used to perform window calibration, restore the initial memory of the ECU, and restore the automatic up and automatic down functions of the power windows.

9.17 NOx Reset

The nitrogen oxide sensor (NOx sensor) is used to detect the content of nitrogen oxides (NOx) in engine exhaust. After NOx fault re-initialization or replacement of the NOx catalytic converter, the catalytic converter learning value stored in the engine ECU must be reset.

9.18 Injector Coding

Write the actual injector code, or rewrite the code stored in the ECU to match the injector code corresponding to each cylinder, so that the fuel injection quantity of each cylinder can be controlled or corrected more accurately. Usually, after replacing the ECU or injector, coding confirmation or recoding must be performed for the injector of each cylinder so that the system can better identify the injector of each cylinder and precisely control fuel injection.

9.19 Start/Stop Settings

The vehicle can enable or disable the automatic start-stop function by activating hidden functions in the vehicle computer (provided that the vehicle supports hidden functions and the hardware supports them).

9.20 Brake Pad Replacement

When the brake pads wear down to a certain thickness, they will contact the brake pad wear sensor. At this point, the wear sensor will send a signal to the on-board computer to indicate that the brake pads need to be replaced.

After replacing the brake pads, a brake pad reset must be performed; otherwise, the vehicle will continue to issue a warning.

Situations where reset is required:

- (1) After replacing the brake pads and brake pad wear sensors;
- (2) The brake pad warning light is on;
- (3) After repairing a short circuit in the brake pad sensor circuit;
- (4) After replacing the servo motor.

9.21 TPMS Reset

When the vehicle tire pressure fault indicator light is on, the tire pressure

must be reset through the TPMS reset function after repair to turn off the tire pressure fault indicator light.

A TPMS reset must be performed after repair in the following situations: tire pressure is too low or there is air leakage; tire pressure monitoring equipment is replaced or installed; tires are replaced; the tire pressure sensor is damaged; or a vehicle equipped with a tire pressure monitoring system undergoes tire rotation.

9.22 Sunroof Initialization

This function can set the sunroof lock-close function, rain-close function, memory function of the sliding/tilting sunroof, outside temperature threshold, etc.

9.23 Suspension Matching

This function can adjust the vehicle body height. When replacing the body height sensor or control module in the air suspension system, or when the vehicle level is incorrect, this function must be performed to adjust the body height sensor for level calibration.

9.24 Language Settings

This function is used to change the language of the vehicle infotainment system.

9.25 Steering Angle Learning

Steering angle learning is used to determine the relative zero position at which the vehicle travels straight. Using this position as a reference, the ECU can calculate the exact steering angles for left and right turns. In general, after replacing the steering angle position sensor, replacing steering system mechanical components (such as the steering gear, steering column, tie rod end, or steering knuckle), performing four-wheel alignment, or repairing the vehicle body, steering angle reset to zero is required.

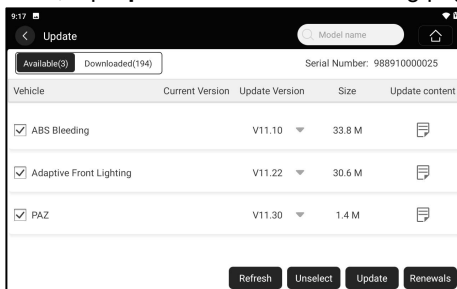
9.26 Seat Calibration

This function is used to perform matching for seats with a memory function after replacement or repair.

10. Update

When new vehicle models are added or a new software version is available, the system will prompt the user to update. It is recommended that users update to the latest version in a timely manner.

On the Main Interface, tap **Update** to enter the following page:



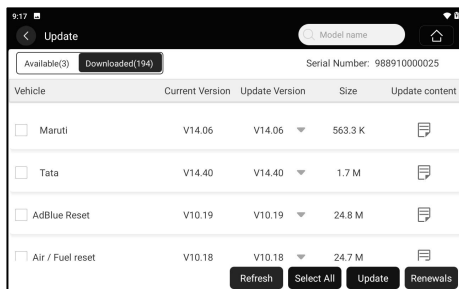
10.1 Update

Under the **Available** tab, tap **Select All** to select all upgradable software or check the software that needs to be upgraded, and tap **Update** to start downloading the software installation package. After the download is complete, the software will be automatically installed.

Note: During the update, ensure that the network connection is normal and stable. If you need to update a lot of software, it may take a long time (depending on the network speed), please wait in patience.

To cancel the selection of the software, click the check box in front of the software.

Tap the **Downloaded** tab, and the list shows the currently downloaded software. You can view the software version, installation package size, and software update content on this interface.



10.2 Renew Subscription

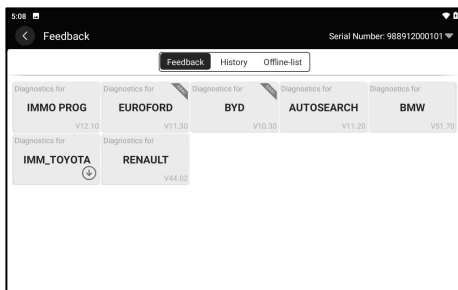
If the software subscription is due or expires, the system will prompt you to renew your subscription. Tap **Renewals** on the bottom of the screen to enter the MALL center to renew the service.

11. Others

11.1 Feedback

If you encounter unresolved problems or diagnostic Software Issues during diagnostics, you can submit feedback to us together with the latest 20 Test Records. After receiving your feedback, we will follow up and handle it promptly to improve our product quality and user experience.

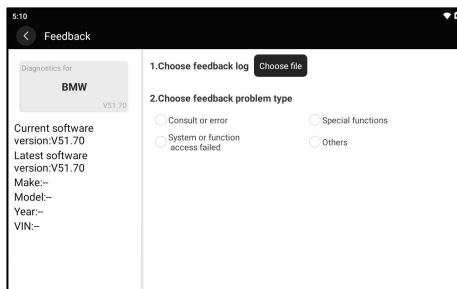
Tap **Others** -> **Feedback** on the Main Interface to enter the following screen:



This page has 3 available options:

Feedback	Displays a list of all models that have been tested.
History	Click to view the progress of all submitted diagnostic feedback.
Offline-list	Click to view the diagnostic feedback of upload failure due to network problems. Once the network is restored, the system will automatically upload the data to the server.

Under the **Feedback** tab, click the corresponding model or special function of the diagnosis record to enter.

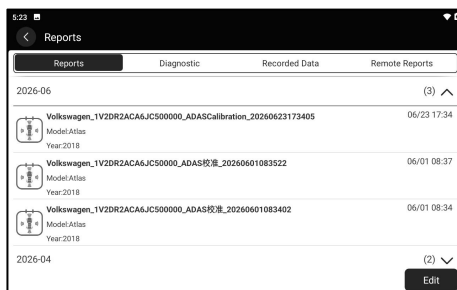


Tap **Choose File** to open the target folder, select the diagnostic log that needs feedback, and then select the corresponding diagnostic feedback problem type. Enter the fault description and contact information of the feedback person in the text box. Then tap **Submit Result** to send it to us. After receiving your fault feedback, we will follow up your feedback report in time. Please pay attention to the progress and results of diagnosis feedback in **History**.

11.2 Reports

This option is used to view and manage the saved **Diagnose** reports and Test Records.

On the Main Interface, tap **Others** -> **Reports** to enter the following page:



If the test report is saved during the ADAS calibration process, it will be displayed under the label **Reports**;

If the diagnostic report and fault code report are saved during the vehicle diagnosis, the report will be displayed under the **Diagnostic** tab.

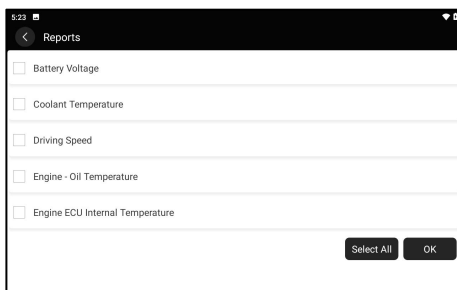
Click a single report in the report list to view the report details, print and

share the report.

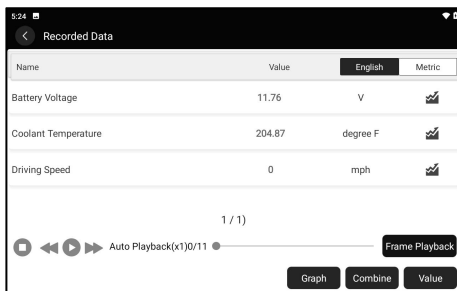
Tap **Edit** to delete the selected test report, rename the report and share the report.

If the detected data is recorded on the read data stream screen, the detected data is displayed in the **Recorded Data** tab.

Tap the test record to be played back to enter the following screen:



Select the data stream option, and then tap **OK** to enter the playback page:



Screen Button Description:

Graph	Play back the selected data stream options graphically.
Combine	Play back the selected data stream options in a combined form.
Value	Playback the selected data stream options numerically.
Frame Playback	Play back the recorded data stream frame by frame.

Auto Playback

Automatic playback of the recorded data stream.

If the diagnosis report is saved during remote diagnose, the report will be displayed under the **Remote Reports** tab.

11.3 Personal Center

Tap **Others** -> **Personal Center** on the Main Interface to enter the Personal Center page.

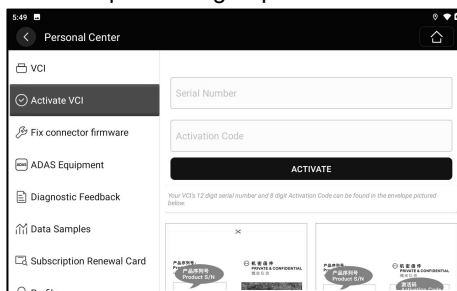
11.3.1 VCI

This option allows you to manage all your activated VCI diagnostic connectors.

If multiple VCI diagnostic connectors are bound to this diagnostic equipment, use this option to select the corresponding VCI diagnostic connector.

11.3.2 Activate VCI

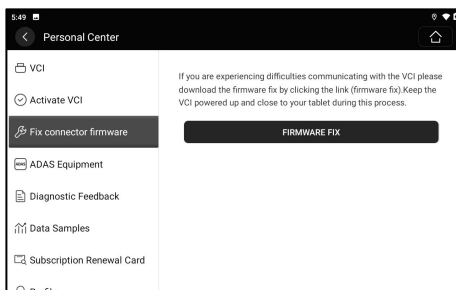
This item lets you activate the VCI connector in case you ignore the Activate VCI step in process of the product sign-up.



Enter the product serial number and activation code, and tap **Activate**.

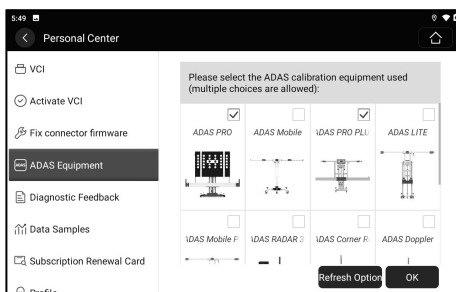
11.3.3 Fix Connector Firmware

Used to repair the VCI connector. Do not power off the device or switch screens during the update.



11.3.4 ADAS Equipment

Used to select the ADAS calibration equipment in use and update the corresponding configuration files.



11.3.5 Diagnostic Feedback

Used to submit feedback on unresolved problems or diagnostic Software Issues encountered during the diagnostic process.

11.3.6 Data Samples

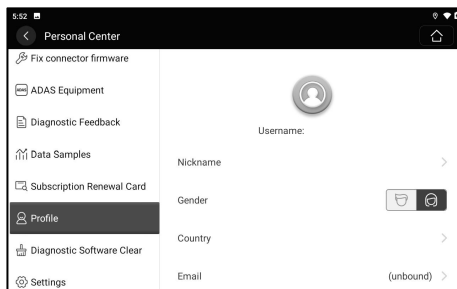
Used to manage the recorded sample data stream files.

11.3.7 Subscription Renewal Card

Used to check the renewal card status of the subscription.

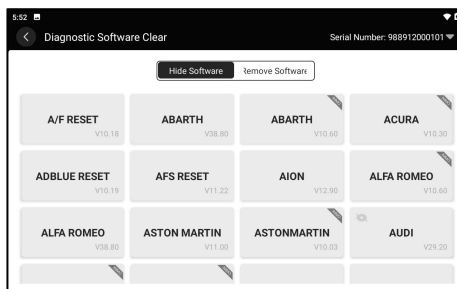
11.3.8 Profile

Used to set and manage personal information.



11.3.9 Diagnostic Software Management

Used to clean up or hide infrequently used diagnostic software.



 **Note:** Removing software may completely delete the software from the tool. If some software is not used and the tool runs out of space, you can use this feature to remove it. To re-download it, go to **Update -> Available**.

11.3.10 Settings

Used to configure system settings.

A. Unit

Used to switch between metric and imperial units.

B. Shop Information

Used to set workshop information.

C. Clear Cache

Used to clear the cache. Clearing the cache will restart the APP.

D. About

Used to view Version Information and service agreements.

F. Log Out/Log In

To log out of the current account, tap **Log Out**.

To log in to the system again, tap **Log In**.

11.4 Setting

This option is used to configure system settings and view equipment-related information.

Tap **Others** -> **Setting** on the Main Interface to enter the Setting interface.

11.4.1 Network & Internet

Used to set the wireless network connection and mobile network connection. For wireless network connection settings, please follow the steps below:

 *Note: After enabling WLAN, the equipment power consumption will increase. When WLAN is not in use, it is recommended to turn it off to save power.*

1. On the Main Interface, tap **Others** -> **Setting** -> **Network & internet** -> **Wi-Fi**.
2. Tap or slide the WLAN switch to turn it on, and the equipment will start automatically scanning for available wireless networks.
3. Select the network you want to connect to:
 - If you select an open network, you can connect to it directly.
 - If you select an encrypted network, you need to enter the access password before you can connect.
4. When it displays "Connected", it means the connection is successful.

11.4.2 Bluetooth

Used to set the Bluetooth connection.

1. On the Main Interface, tap **Setting** -> **Connected devices**.
2. Tap **Pair New Device**. The tablet automatically scans for available devices. Select the device you want to connect to. A dialog box will pop up on the tablet and the selected device. After confirming the correct pairing code, tap **PAIR** on both the tablet and the device to complete the Bluetooth connection.

11.4.3 Apps & notifications

Used to manage app permissions and view app notifications.

11.4.4 Battery

Used to view application battery usage and enable the equipment power-saving mode.

11.4.5 Display

Used to set and adjust the equipment display parameters.

11.4.5.1 Brightness

1. On the Main Interface, tap **Others -> Setting -> Display -> Brightness level**.

2. Drag the slider to adjust the brightness.

In addition, users can also swipe down on the screen to bring up the system quick settings panel to adjust screen brightness.

11.4.5.2 Adaptive Brightness

Tap or slide the **Adaptive Brightness** switch to open to enable the device to automatically adjust and optimize the display brightness of the device according to the ambient light conditions.

11.4.5.3 Wallpaper

This option is used to set the wallpaper picture of the device.

11.4.5.4 Screen Timeout

This option is used to set the automatic screen-down time of the device.

1. On the main interface, tap **Other -> Setting -> Display -> Screen Timeout**.

2. Select a screen timeout period.

11.4.5.5 Auto-rotate Screen

This option is used to enable the equipment's auto-rotate screen function.

11.4.5.6 Display Size

This option is used to scale the content on the screen.

11.4.5.7 Font Size

This option is used to set the font size displayed on the equipment screen.

11.4.5.8 Screen Saver

This option is used to enable the equipment screen saver function and set

the screen saver background.

11.4.6 Sound

Used to set the equipment volume.

11.4.7 Storage

Used to manage app storage space and clear app data and cache.

Privacy

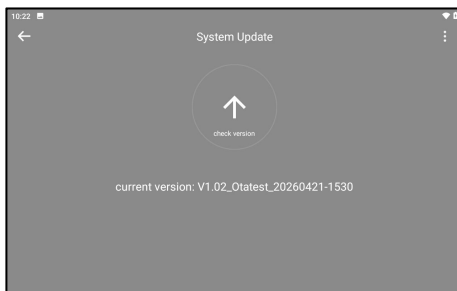
Used for privacy settings management on the equipment. This includes app permissions to access equipment data, whether characters are briefly displayed when entering passwords, and whether notification content is displayed on the lock screen.

11.4.8 Location

Used to manage app permissions to obtain and use equipment location information.

11.5 System Update

This module is used for system updates.



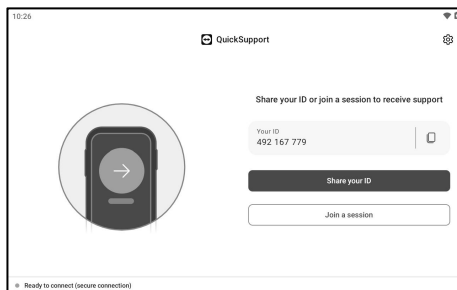
After entering, tap **Check Version**, the system starts to check whether the current version is the latest version. If the version is the latest, the system will prompt **Current version is the latest version**.

 **Note:** When performing System Update, ensure that the device has at least 70% power and that no programs are running during the update process.

11.6 TeamViewer

In case of equipment operation problems, you can use this module to request assistance from the other party.

After you start Remote control (TeamViewer QuickSupport), QuickSupport will automatically assign your ID, and the screen displays as follows:



Send your ID to the other party. After the other party enters your ID in TeamViewer, tap **Connect** to remotely control your device.

11.7 Browser

This module can be used to browse web pages.

11.8 Files

This module is a file and program manager. Users can directly access and create folders on the equipment without connecting to a computer.

11.9 Camera

This module is used to take photos and record videos.

11.10 Album

This function can be used to view and manage photos, videos, and the gallery (including screenshots).

11.11 Recording

A simple, easy-to-use, and convenient screen recording app. It supports screen recording playback, converting recordings into GIFs, and sharing.

11.12 Video

This module is used to play music and video files.

11.13 Email

This module is used to receive and send emails.

11.14 VideoScope (Optional)

This module must be used with an videoscope device (optional) to perform high-definition endoscopic inspections of vehicle components that are not visible or are difficult to access. For detailed operating instructions, please refer to the User Manual included with the endoscope device.

12. FAQ

Q1. How can I save power?

- 1) When the equipment is not in use, please turn off the screen.
- 2) Shorten the screen timeout.
- 3) Lower the screen brightness.
- 4) When WLAN is not needed, please turn off WLAN.

Q2. Failed to communicate with the vehicle ECU?

Please confirm:

- 1) Check whether the VCI diagnostic connector is connected properly.
- 2) Check whether the vehicle ignition switch is turned on.
- 3) If all the above have been confirmed to be normal, please send us the vehicle make, model year, model, and VIN through the "Diagnostic Feedback" module.

Q3. Unable to access the vehicle ECU system?

Please confirm:

- 1) Check whether the test vehicle is equipped with this system.
- 2) Check whether the VCI Diagnostic Box is connected properly.
- 3) Check whether the vehicle ignition switch is turned on.
- 4) If all the above have been confirmed to be normal, please send us the vehicle make, model year, model, and VIN through the "Diagnostic Feedback" module.

Q4. The diagnostic connector does not power up when connected to the vehicle.

Please confirm:

- 1) The VCI Diagnostic Box may not be connected properly. Reconnect the connector.
- 2) Poor contact in the vehicle diagnostic socket circuit.
- 3) The vehicle battery itself is severely depleted.
- 4) The diagnostic connector is damaged.

Q5. How do I reset the ST08 V2.0 Host?

Follow the steps below to reset the equipment:

- 1) On the Home screen, tap **Others** -> **Settings** -> **System** -> **Reset Options**.
- 2) Tap **Erase All Data (Factory Reset)**.

- 3) Tap **Erase All Data** and wait for the system to recover until the tablet automatically restarts.

 **WARNING:** *Resetting the device will result in the loss of device data. Before using it, please ensure that important data has been backed up.*

FCC Statement

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

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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

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

Specific Absorption Rate (SAR) information:

This device meets the government's requirements for exposure to radio waves. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons regardless of age or health. FCC RF Exposure Information and Statement the SAR limit of USA (FCC) is 1.6 W/kg averaged over one gram of tissue. Device types: This device has also been tested against this SAR limit.

This device was tested for typical body-worn operations with the back of the This device kept 0mm from the body. To maintain compliance with FCC RF exposure requirements, use accessories that maintain an 0mm separation distance between the user's body and the back of the This device. The use of belt clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.

Warranty Terms

These warranty terms apply only to users who purchase SmartSafe products through normal sales channels.

Within one year from the date of purchase, SmartSafe warrants its electronic products against defects in materials or workmanship. Damage to the equipment or components caused by abuse, unauthorized modification, use for purposes other than those for which the product was designed, or operation in a manner not specified in the User Manual is not covered by this warranty.

Disclaimer

The above warranty terms are in lieu of any other warranty terms, express or implied.

Ordering Information

Replaceable parts and optional accessories can be ordered directly from SmartSafe authorized suppliers. When ordering, please specify:

- Quantity
- Part Number
- Part Name

Customer Service Center

When the equipment needs repair, please send the equipment to SmartSafe and attach the purchase invoice and a description of the problem. If the equipment is within the warranty scope, SmartSafe will repair it free of charge; if the equipment is outside the warranty scope, SmartSafe will charge for repairs and return shipping.

SmartSafe Address:

Room 3310, Building 11, Tian'an Cloud Park, Bantian Street, Longgang District, Shenzhen, Guangdong, China, Zip Code: 518110

Statement: The company reserves the right to change product designs and specifications without prior notice. The actual appearance and color may differ from those shown in the User Manual; please refer to the actual product. We have made every effort to ensure the accuracy of all

descriptions herein, but errors or omissions may still occur. If you have any questions, please contact the dealer or after-sales service center. The company shall not be liable for any consequences arising from misunderstandings.