

Trademarks

FOXWELL is the trademark of Shenzhen Foxwell Technology Co., Ltd.

All other marks are trademarks or registered trademarks of their respective holders.

Copyright Information

©2024 Shenzhen Foxwell Technology Co., Ltd.

All rights reserved.

Disclaimer

The information, specifications and illustrations in this manual are based on the latest information available at the time of printing.

Foxwell reserves the right to make changes at any time without notice.

Visit our website at

www.foxwelltech.us

For Technical Assistance, send us email at

support@foxwelltech.com

One-Year Limited Warranty

Subject to the conditions of this limited warranty, Shenzhen Foxwell Technology Co., Ltd (“FOXWELL”) warrants its customer that this product is free of defects in material and workmanship at the time of its original purchase for a subsequent period of one (1) year.

In the event this product fails to operate under normal use, during the warranty period, due to defects in materials and workmanship, FOXWELL will, at its sole option, either repair or replace the product in accordance with the terms and conditions stipulated herein.

Terms and Conditions

1 If FOXWELL repairs or replaces the product, the repaired or replaced product shall be warranted for the remaining time of the original warranty period. No charge will be made to the customer for replacement parts or labor charges incurred by FOXWELL in repairing or replacing the defective parts.

2 The customer shall have no coverage or benefits under this limited warranty if any of the following conditions are applicable:

a) The product has been subjected to abnormal use, abnormal conditions, improper storage, exposure to moisture or dampness, unauthorized modifications, unauthorized repair, misuse, neglect, abuse, accident, alteration, improper installation, or other acts which are not the fault of FOXWELL, including damage caused by shipping.

b) The Product has been damaged from external causes such as collision with an object, or from fire, flooding, sand, dirt, windstorm, lightning, earthquake or damage from exposure to weather conditions, an Act of God, or battery leakage, theft, blown fuse, improper use of any electrical source, or the product was used in combination or connection with other product, attachments, supplies or consumables not manufactured or distributed by FOXWELL.

3 The customer shall bear the cost of shipping the product to FOXWELL. And FOXWELL shall bear the cost of shipping the product back to the customer after the completion of service under this limited warranty.

4 FOXWELL does not warrant uninterrupted or error-free operation of the product. If a problem develops during the limited warranty period, the consumer shall take the following step-by-step procedure:

a) The customer shall return the product to the place of purchase for repair or replacement processing, contact your local FOXWELL distributor or visit our website www.foxwelltech.us to get further information.

b) The customer shall include a return address, daytime phone number and/or fax number, complete description of the problem and original invoice specifying date of purchase and serial number.

c) The customer will be billed for any parts or labor charges not covered by this limited warranty.

d) FOXWELL will repair the Product under the limited warranty within 30 days after receipt of the product. If FOXWELL cannot perform repairs covered under this limited warranty within 30 days, or after a reasonable number of attempts to repair the same defect, FOXWELL at its option, will provide a replacement product or refund the purchase price of the product less a reasonable amount for usage.

e) If the product is returned during the limited warranty period, but the problem with the product is not covered under the terms and conditions of this limited warranty, the customer will be notified and given an estimate of the charges the customer must pay to have the product repaired, with all shipping charges billed to the customer. If the estimate is refused, the product will be returned freight collect. If the product is returned after the expiration of the limited warranty period, FOXWELL' normal service policies shall apply and the customer will be responsible for all shipping charges.

5 ANY IMPLIED WARRANTY OF MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE OR USE, SHALL BE LIMITED TO THE DURATION OF THE FOREGOING LIMITED WRITTEN WARRANTY. OTHERWISE, THE FOREGOING LIMITED WARRANTY IS THE CONSUMER'S SOLE AND EXCLUSIVE REMEDY AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. FOXWELL SHALL NOT BE LIABLE FOR SPECIAL, INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOSS OF ANTICIPATED BENEFITS OR PROFITS, LOSS OF SAVINGS OR REVENUE, LOSS OF DATA, PUNITIVE DAMAGES, LOSS OF USE OF THE

PRODUCT OR ANY ASSOCIATED EQUIPMENT, COST OF CAPITAL, COST OF ANY SUBSTITUTE EQUIPMENT OR FACILITIES, DOWNTIME, THE CLAIMS OF ANY THIRD PARTIES, INCLUDING CUSTOMERS, AND INJURY TO PROPERTY, RESULTING FROM THE PURCHASE OR USE OF THE PRODUCT OR ARISING FROM BREACH OF THE WARRANTY, BREACH OF CONTRACT, NEGLIGENCE, STRICT TORT, OR ANY OTHER LEGAL OR EQUITABLE THEORY, EVEN IF FOXWELL KNEW OF THE LIKELIHOOD OF SUCH DAMAGES. FOXWELL SHALL NOT BE LIABLE FOR DELAY IN RENDERING SERVICE UNDER THE LIMITED WARRANTY, OR LOSS OF USE DURING THE PERIOD THAT THE PRODUCT IS BEING REPAIRED.

6. Some states do not allow limitation of how long an implied warranty lasts, so the one-year warranty limitation may not apply to you (the Consumer). Some states do not allow the exclusion or limitation of incidental and consequential damages, so certain of the above limitations or exclusions may not apply to you (the Consumer). This limited warranty gives the Consumer specific legal rights and the Consumer may also have other rights which vary from state to state.

Safety Information

For your own safety and the safety of others, and to prevent damage to the equipment and vehicles, read this manual thoroughly before operating your scanner. The safety messages presented below and throughout this user's manual are reminders to the operator to exercise extreme care when using this device. Always refer to and follow safety messages and test procedures provided by vehicle manufacturer. Read, understand and follow all safety messages and instructions in this manual.

Safety Message Conventions Used

We provide safety messages to help prevent personal injury and equipment damage. Below are signal words we used to indicate the hazard level in a condition.

DANGER

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

WARNING

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

CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in moderate or minor injury to the operator or to bystanders.

Important Safety Instructions

And always use your scanner as described in the user's manual, and follow all safety messages.

WARNING

- Do not route the test cable in a manner that would interfere with driving controls.
- Do not exceed voltage limits between inputs specified in this user's manual.
- Always wear ANSI approved goggles to protect your eyes from propelled objects as well as hot or caustic liquids.
- Fuel, oil vapors, hot steam, hot toxic exhaust gases, acid, refrigerant and other debris produced by a malfunction engine can cause serious injury or death. Do not use the scanner in areas where explosive vapor may collect, such as in below-ground pits, confined areas, or areas that are less than 18 inches (45 cm) above the floor.
- Do not smoke, strike a match, or cause a spark near the vehicle while testing and keep all sparks, heated items and open flames away from the battery and fuel / fuel vapors as they are highly flammable.
- Keep a dry chemical fire extinguisher suitable for gasoline, chemical and electrical fires in work area.
- Always be aware of rotating parts that move at high speed when an engine is running and keep a safe distance from these parts as well as other potentially moving objects to avoid serious injury.
- Do not touch engine components that get very hot when an engine is running to avoid severe burns.
- Block drive wheels before testing with engine running. Put the transmission in park (for automatic transmission) or neutral (for manual transmission). And never leave a running engine unattended.
- Do not wear jewelry or loose fitting clothing when working on engine.
- Don't connect or disconnect the equipment while the ignition is on or the engine is running.

Table of Contents

ONE-YEAR LIMITED WARRANTY	2
SAFETY INFORMATION	4
1 USING THIS MANUAL	7
1.1 BOLD TEXT	7
1.2 SYMBOLS AND ICONS	7
2 INTRODUCTIONS	8
2.1 SCANNER DESCRIPTIONS	8
2.2 ACCESSORY DESCRIPTIONS	9
2.3 TECHNICAL SPECIFICATIONS	9
3 GETTING STARTED	9
3.1 PROVIDING POWER TO SCANNER	9
3.2 APPLICATION OVERVIEW	10
3.3 INPUT DIALOG BOX	10
4 DIAGNOSTIC OPERATIONS	11
4.1 DIAGNOSIS	11
4.1.1 VEHICLE IDENTIFICATION	12
4.1.1.1 MANUAL VEHICLE SELECTION	12
4.1.2 System Selection	13
4.1.2.1 Quick Scan	13
4.1.2.2 CONTROL MODULE	15
4.1.3 Diagnostic Function Selection	15
4.1.3.1 Read Codes	16
4.1.3.2 CLEAR CODES	17
4.1.3.3 ECU Information	18
4.1.3.4 Live Data	19
4.1.3.5 CUSTOM LIST	20
4.1.3.6 Active Tests	23
4.1.3.7 Special Functions	24
5 OBDII/EOBD OPERATIONS	25
6 SYSTEM SETUP	26
6.1 SELECT LANGUAGE	26
6.2 CHANGE UNITS	27
6.3 CONFIGURE SHORTCUT KEYS	28
6.4 DISPLAY TEST	30
6.5 KEYPAD TEST	30

6.6 TOOL INFORMATION	31
7 UPDATE	32
8 UNINSTALL	34
9 REGISTER	35
9.1 CREATE A FOXWELL ID	35
9.1.1 Register Through Website	35
9.1.2 Register by Scanning QR Code	38
9.2 REGISTER YOUR SCANNER	39
9.2.1 Register Product Through Website	39
9.2.2 Register Product by Scanning QR Code	40
10 SHOPPING.....	41
10.1 CHOOSE ONE VEHICLE FOR FREE.	41
10.2 SHOPPING THE EXTRA SOFTWARES.....	42

1 Using This Manual

We provide tool usage instructions in this manual. Below are the conventions we used in the manual.

1.1 Bold Text

Bold text is used to highlight selectable items such as buttons and menu options.

Example:

Press the **ENTER** button to select.

1.2 Symbols and Icons

1.2.1 Solid Spot

Operation tips and lists that apply to specific tools are introduced by a solid spot ●.

Example:

When **Settings** is selected, a menu that lists all available options displays. Menu options include:

- WiFi
- Language
- Unit
- Shortcuts
- Uninstall
- Display Test
- Keypad Test
- About

1.2.2 Arrow Icon

▶ An arrow icon indicates a procedure.

Example:

- ▶ To change menu language:
1. Scroll with the arrow keys to highlight **Language** on the menu.
 2. Press the **ENTER** button to select.

1.2.3 Note and Important Message

Note

A NOTE provides helpful information such as additional explanations, tips, and comments.

Example:

NOTE

Test results do not necessarily indicate a faulty component or system.

Important

IMPORTANT indicates a situation which, if not avoided, may result in damage to the test equipment or vehicle.

Example:

IMPORTANT

Do not soak keypad as water might find its way into the scanner.

2 Introductions

This series of scanners from Foxwell are innovative diagnostic tools for most vehicles on the road today.

With the tool properly connected to the vehicle's data link connector (DLC), you can use the scanner to read diagnostic trouble codes and view "live" data readings from a variety of control systems. You can also save "recordings" of the data readings, and print stored information.

2.1 Scanner Descriptions

This section illustrates external features, ports and connectors of the scanner.

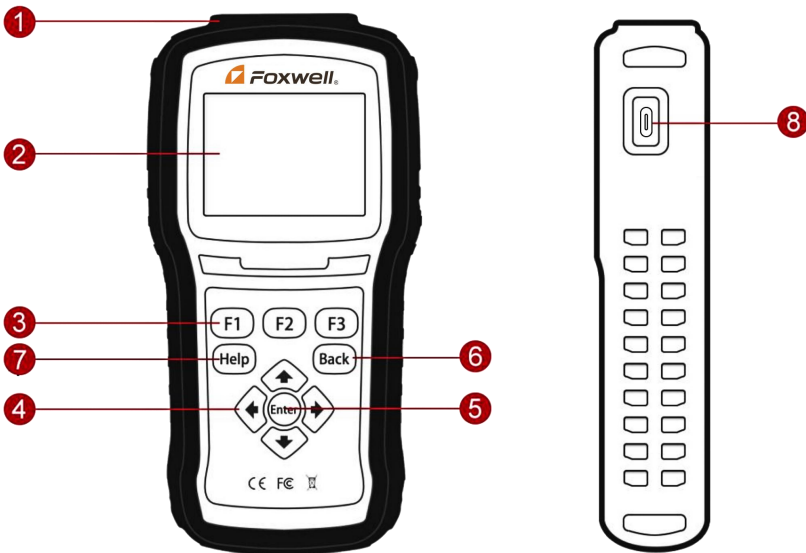


Figure 2-1 Front View

- 1 **Diagnostic Port** - provides connection between vehicle and the scanner.
- 2 **LCD Display** - shows menus, test results and operation tips.
- 3 **Function Keys / Shortcut keys** - three keys that correspond with "buttons" on some screens for executing special commands or provide quick access to most frequently used applications or functions.
- 4 **Direction Keys** - select an option or scroll through a screen of data or text.
- 5 **ENTER Key** - executes a selected option and generally goes to the next screen.
- 6 **BACK Key** - exits a screen and generally returns to previous screen.
- 7 **HELP Key** - displays helpful information.
- 8 **USB Port** - provides USB power connection between the scanner and PC/laptop.

IMPORTANT

Do not use solvents such as alcohol to clean keypad or display. Use a mild nonabrasive detergent and a soft cotton cloth.

2.2 Accessory Descriptions

This section lists the accessories that go with the scanner. If you find any of the following items missing from your package, contact your local dealer for assistance.

- 1 **Quick Start Guide** - provides brief introduction of how to use the scanner.
- 2 **User's Guide** - provides operation instructions for the usage of the scanner.
- 3 **Diagnostic Cable** - provides connection between the scanner and a vehicle.
- 4 **USB Cable** - provides connection between the scanner and a computer to update and print data.
- 5 **Warranty Card** - A warranty card is required if you need any repair or replacement from us.
- 6 **Nylon Carry Pouch** - stores the scanner and its accessories.

2.3 Technical Specifications

Display: Backlit, 2.8" TFT color display

Working Temperature: 0 to 60 °C (32 to 140°F)

Storage Temperature: -20 to 70°C (-4 to 158°F)

Power Supply: 8-18V vehicle power and 3.3V USB power

Dimensions: (L*W*H): 200*100*38mm

Weight: 0.6 Kg

3 Getting Started

This section describes how to provide power to the scanner, provides brief introductions of applications loaded on the scanner and display screen layout and illustrates how to input text and numbers with the scan tool.

3.1 Providing Power to Scanner

Before using the scanner, make sure to provide power to the scanner.

The unit operates on any of the following sources:

- 12-volt vehicle power
- USB connection to computer

3.1.1 Connecting to Vehicle Power

The scanner normally powers on whenever it is connected to the data link connector (DLC).



To connect to vehicle power:

1. Locate the data link connector (DLC). The DLC is generally located under the dash on the driver side of the vehicle.
2. Attached the Diagnostic cable to the scanner and tighten the captive screws to ensure good connection.
3. Connect a correct adapter to the data cable according to the vehicle being serviced and plug it into the vehicle DLC.
4. Switch the ignition key to the ON position.
5. The scanner automatically boots up.

IMPORTANT

Never try to provide power for the scan tool from USB connection when the scan tool is communicating with a vehicle.

3.1.2 Connecting to Computer with USB Cable

The scan tool also receives power through the USB port when it is connected to a computer for software updates and printing of data.

- ▶ To connect to computer:
1. Connect the scanner to a computer with the USB cable provided.

3.2 Application Overview

When the scan tool boots up, the Home screen opens. This screen shows all applications loaded on the unit. The available vehicle applications may vary depending on software configuration.

- **History** - Displays the tested vehicle records.
- **OBDII/EOBD** - leads to OBDII screens for all 9 generic OBD system tests.
- **Update** - leads to screen for updating the scanner.
- **Diagnostic** - leads to screens for diagnostic trouble code information, live data stream, ECU information of a variety of vehicles.
- **Settings** - leads to screens for adjusting default settings to meet your own preference and view information about the scanner.
- **Data Manager** - leads to screens for access to data records.
- **Shopping** - leads to scan the QR code to enter our store.

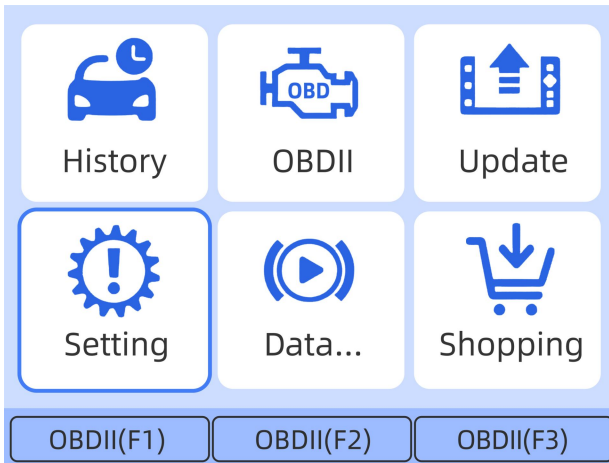


Figure 3-1 Sample Home Screen

3.3 Input Dialog Box

This section illustrates how to use the scan tool to input letters and numbers, such as VIN number, channel number, test values and DTC number. Typically, you may be required to input letters or numbers when you are doing any of the following operations.

- VIN entry
- input channel number
- set adaptation value
- enter block number
- enter login code
- key matching
- look up DTCs

The scan tool provides 4 different types of keyboard to meet your specific needs. Depending on the needs of text entry, it automatically shows the most suitable keypad.

- classic QWERTY keyboard for input of texts that contain both letters and numbers

- numeric keyboard for input of numbers
- alphabet keyboard for input of letters
- hexadecimal keyboard for special functions, such as key matching, UDS coding

▶ To input text with the scan tool:

1. When you are requested to input text, press the function key **Keyboard**.

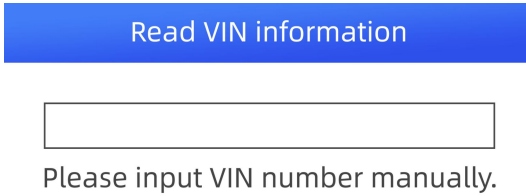


Figure 3-2 Sample Input Text Screen

2. Scroll with the arrow keys to highlight your desired letter or number and press the **ENTER** key to confirm.

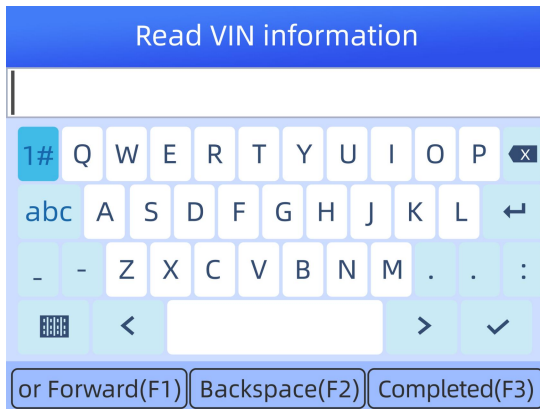


Figure 3-3 Sample Numeric Keyboard Screen

3. To delete a letter or number, use the function key **Cursor Forward** to move the cursor to it and then press the **Backspace** button.
4. When finished the entry, press **Completed** key to continue.

4 Diagnostic Operations

This section illustrates how to use the scanner to perform tests and maintenance on a specific vehicle, such as identifying a vehicle, and selecting a system for testing.

When the vehicle application is selected, a menu with available service options displays. Menu options typically include:

- System
- Maintenance

4.1 Diagnosis

This section illustrates how to use the scanner to read and clear diagnostic trouble codes, and view “live” data readings and ECU information on controllers installed on vehicles and also save “recordings” of the data readings.

4.1.1 Vehicle Identification

The vehicle identification information presented is provided by the ECM of the vehicle being tested. Therefore, certain attributes of the test vehicle must be entered into the scan tool to ensure the data displays correctly. The vehicle identification sequence is menu driven, you simply follow the screen prompts and make a series of choices. Each selection you make advances you to the next screen. A Back button in the upper left corner of the screen returns you to the previous screen. Exact procedures may vary somewhat by vehicle.

It typically identifies a vehicle by any of the following means:

- Manual vehicle selection

NOTE

Not all identification options listed above are applicable to all vehicles. Available options may vary by vehicle manufacturer.

4.1.1.1 Manual Vehicle Selection

Manual Vehicle Selection identifies a vehicle by making several selections according to certain VIN characters, such as model year, and engine type.



To identify a vehicle by manual vehicle selection:

1. Refer to Step 1-3 of 4.1.1 Automatic VIN Acquisition.
2. On each screen that appears, select the correct option and then press the **ENTER** key. Do this until the complete vehicle information is entered and the menu of controller selection displays.

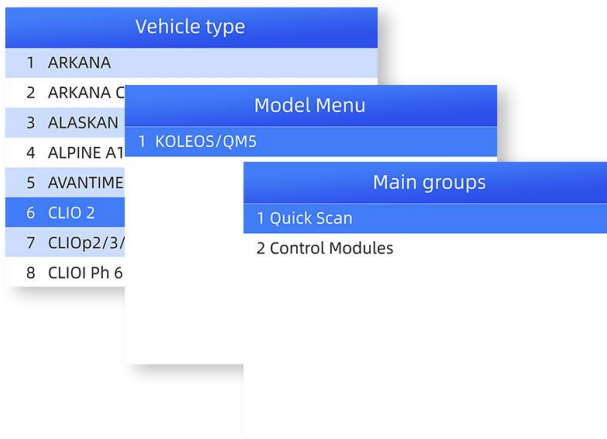


Figure 4-1 Sample Manual Vehicle Selection Screen

4.1.2 System Selection

When you have completed the identification of a vehicle, a menu for selecting system to test displays. Menu options typically include:

- Quick Scan
- Control Modules

4.1.2.1 Quick Scan

Quick Scan performs an automatic system test to determine which control modules are installed on the vehicle and obtain diagnostic trouble codes (DTCs) overview. Depending on the number of control modules, it may take 10 minutes or longer to complete the test. However, if you have used the Models (Guide Function) to identify the vehicle, it takes much shorter time to determine the installed controllers.

- ▶ To perform an automatic system scan:
1. Scroll with the arrow keys to highlight **Quick Scan** from the menu and press **ENTER** to start.

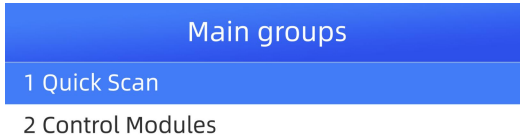


Figure 4-2 Sample Selected System Scan Screen

2. To pause the scan, press the function key corresponding with **Pause** on the screen.

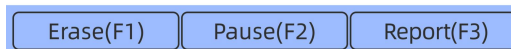
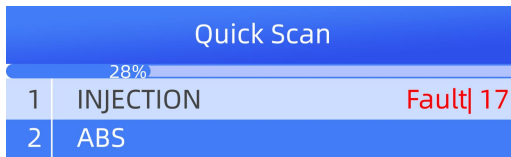


Figure 4-3 Sample Automatic System Scan Screen

3. At the end of successful automatic controller scan, a menu with a list of installed controllers together with their DTC overview displays.

Quick Scan		
1	PCM - Powertrain control module	Fault 17

Erase(F1)	Pause(F2)	Report(F3)
-----------	-----------	------------

Figure 4-4 Sample Auto Scan Screen

4. If there is diagnostic trouble code(s) detected in a control unit, press the function key corresponding with **Report** on the screen to view details of code information, and press the function key **Erase** to clear them.

Report		
17	Fault 17	INJECTION
D002	Active	Throttle potentiometer circuit, Throttle potentiometer circuit track 1
D003	Active	Air temperature sensor circuit
Save(F1)		

Figure 4-5 Sample Display DTC Screen

5. Select the system you would like to test, and press the **ENTER** key. When the scanner has established connection with the vehicle, the Function Menu displays.

Function Menu	
1	Read Codes
2	Clear Codes
3	ECU Information
4	Live Data
5	Active Test
6	Function test
7	Read configuration
8	Erase

Figure 4-6 Function Menu screen

4.1.2.2 Control Module

Control Module screen displays all controllers available on the vehicles. The controllers listed on the menu do not mean that they are installed on the vehicle.



To select a system for testing:

1. Scroll with the arrow keys to highlight **Control Unit** from the menu and press the **ENTER** key. A controller menu displays.

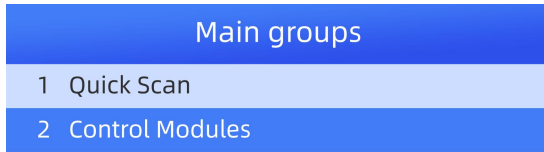


Figure 4-7 Sample Control Unit Menu Screen

2. Select the system you would like to test. When the scanner has established connection with the vehicle, the Function Menu displays.

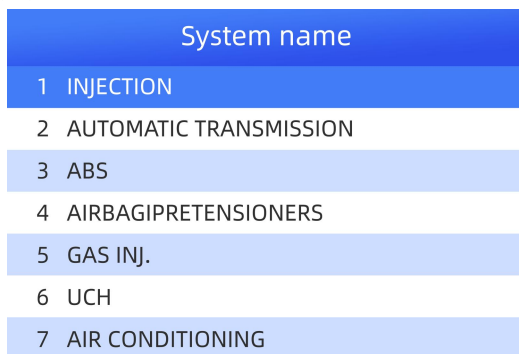


Figure 4-8 Sample Common Menu Screen

4.1.3 Diagnostic Function Selection

After a system is selected and the scanner establishes communication with the vehicle, the Function Menu displays. The menu options may include:

- Read Codes
- Freeze Frame Data
- Clear Codes
- ECU information
- Live Data
- Custom Data

- Active test
- Advance ID
- Readiness test

NOTE

Not all function options listed above are applicable to all vehicles. Available options may vary by the year, model, and make of the test vehicle. A “The selected mode is not supported!” message displays if the option is not applicable to the vehicle under test.

4.1.3.1 Read Codes

Read Codes menu lets you read trouble codes found in the control unit.

Present/Permanent/Current codes stored in a control module are used to help identify the cause of a trouble or troubles with a vehicle. These codes have occurred a specific number of times and indicate a problem that requires repair.

Pending codes are also referred to as maturing codes that indicate intermittent faults. If the fault does not occur within a certain number of drive cycles (depending on vehicle), the code clears from memory. If a fault occurs a specific number of times, the code matures into a DTC and the MIL illuminates or blinks.

History codes are also referred to as past codes that indicate intermittent DTCs that are not currently active.

Code history is number of engine starts since the DTC(s) were first detected (to see if they are current or intermittent).

Self-diagnostic lets you manually activate system tests that check for DTCs. Usually it includes a KOEO (Key-on, engine-off) test and a KOER (key-on, engine-running) test.

▶ To read codes from a vehicle:

1. Scroll with the arrow keys to highlight **Read Codes** from Function Menu and press the **ENTER** key. A code list including code number and its description displays.

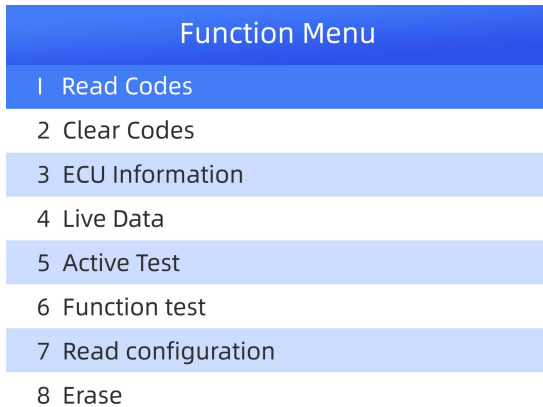


Figure 4-9 Sample Function Menu Screen

2. Use the up and down arrow keys to scroll through data to select lines, and left and right arrow keys to scroll back and forth through different screens of data.

Trouble Codes		
• D002	Active	Throttle potentiometer circuit,Throttle potentiometer circuit track 1
• D003	Active	Air temperature sensor circuit
• D004	Active	Air temperature sensor circuit
Save(F1)		Freeze Frame(F2)

Figure 4-10 Sample Code Screen

4.1.3.2 Clear Codes

Erase Codes menu lets you to clear all current and stored DTCs from a selected control module. Also it erases all temporary ECU information, including freeze frame. So make sure that the selected system are completely checked and serviced by technicians and no vital information will be lost before clearing codes.

NOTE

- To clear codes, make sure that the ignition key is switched to ON with the engine off.
- Erase Codes does not fix the problem that caused the fault! DTCs should only be erased after correcting the condition(s) that caused them.

▶ To clear codes:

1. Scroll with the arrow keys to highlight **Clear Codes** from Function Menu and press the **ENTER** key.

Function Menu
1 Read Codes
2 Clear Codes
3 ECU Information
4 Live Data
5 Active Test
6 Function test
7 Read configuration
8 Erase

Figure 4-11 Sample Function Menu Screen

2. Follow the on-screen instructions and answer questions about the vehicle being tested to complete the procedure.

Clear Codes

DTCs and freeze data will be cleared!
Are you sure to continue?



Figure 4-12 Sample Clear Codes Screen

3. Check the codes again. If any codes remain, repeat the Erase Codes steps.

4.1.3.3 ECU Information

ECU Information screen displays the identification data of the control module under test, such as the control module identification string, the control module coding, and Work Shop Code.



To read ECU information:

1. Select **ECU Information** from the menu and press the **ENTER** key.

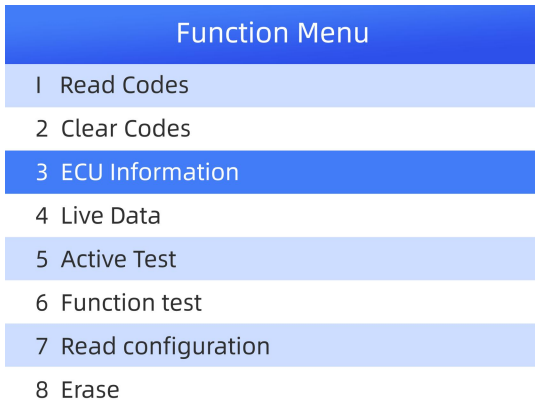


Figure 4-13 Sample Function Menu Screen

2. A screen with detailed information of the selected control module displays.

ECU Information	
MPR reference	8200153159
SUPPLIER	001
Electronic version	8200080285
Program number	00E5
Vdiag number	04
Software version	4100
Calibration number	2002
Save(F1)	

Figure 4-14 Sample ECU Information Screen

3. Press function key **Save** to store ECU information. Or use the **BACK** key to exit.

4.1.3.4 Live Data

Live Data menu lets you view and record real time PID data from a selected vehicle electronic control module.



To view live PID data:

1. Scroll with the arrow keys to highlight **Live Data** from the menu and press the **ENTER** key.

Function Menu	
1	Read Codes
2	Clear Codes
3	ECU Information
4	Live Data
5	Active Test
6	Function test
7	Read configuration
8	Erase

Figure 4-15 Sample Function Menu Screen

2. Press the **ENTER** key to view live data.

Live data	
1	PARAMETERS
2	STATUSES
3	CUSTOM LIST

Figure 4-16 Sample Function Menu Screen

PARAMETERS			
<input type="checkbox"/>	Computer supply voltage	12.3	V
<input type="checkbox"/>	Atmospheric pressure	1017	mbar
<input type="checkbox"/>	Manifold pressure	103	mbar
<input type="checkbox"/>	Water temperature	-40	°C
<input type="checkbox"/>	Air temperature	-40	°C

Pause(F1)	Graph(F2)	Save(F3)
-----------	-----------	----------

Figure 4-17 Sample live data Information Screen

- To record the data to memory of the scanner, use the function key **SAVE F3**, and press **Pause F1** to stop recording.
- Press the **BACK** key to return to Function Menu.

4.1.3.5 Custom List

Custom Data List menu lets you to minimize the number of PIDs on the data list and focus on any suspicious or symptom-specific data parameters.

- ▶ To create a custom data list:
 - Select **Custom List** from the menu and press the **ENTER** key.

Live data	
1	PARAMETERS
2	STATUSES
3	CUSTOM LIST

Figure 4-18 Sample Function Menu Screen

2. The custom data selection screen displays. Scroll with the up and down arrow keys to highlight a line, press the ENTER key and then repeat the action to make more selections. To deselect an item, select it again and then press the ENTER key. Alternatively, use the function keys SelectAll and Deselect to select or deselect all items at once.

Live Data	
<input type="checkbox"/>	Computer supply voltage
<input type="checkbox"/>	Atmospheric pressure
<input type="checkbox"/>	Manifold pressure
<input type="checkbox"/>	Water temperature
<input type="checkbox"/>	Air temperature
<input type="checkbox"/>	Vehicle speed
<input type="checkbox"/>	Engine speed
<input type="button" value="Select All(F1)"/> <input type="button" value="Deselect(F2)"/> <input type="button" value="OK(F3)"/>	

Figure 4-19 Sample Custom List Selection Screen

Live Data		
<input checked="" type="checkbox"/>	Computer supply voltage	1
<input checked="" type="checkbox"/>	Atmospheric pressure	2
<input checked="" type="checkbox"/>	Manifold pressure	3
<input checked="" type="checkbox"/>	Water temperature	4
<input checked="" type="checkbox"/>	Air temperature	5
<input checked="" type="checkbox"/>	Vehicle speed	6
<input checked="" type="checkbox"/>	Engine speed	7
<input type="button" value="Select All(F1)"/> <input type="button" value="Deselect(F2)"/> <input type="button" value="OK(F3)"/>		

Figure 4-20 Sample Custom List Selection Screen

3. When finished selection, use the function key **OK** to display selected items.

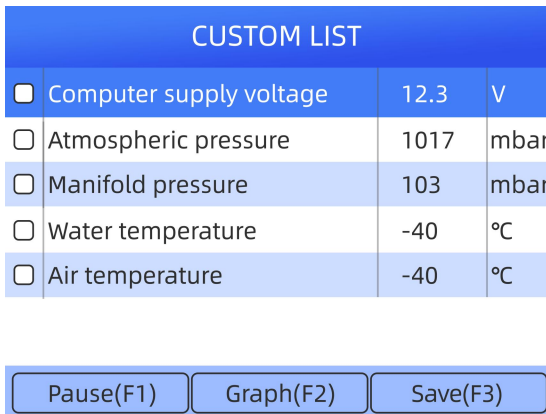


Figure 4-21 Sample Data stream Screen

4. Use up and down arrow key to select line. If Graph is highlighted, it indicates graphing is available for the selected line. Press the function key **Graph** to display the PID graph.

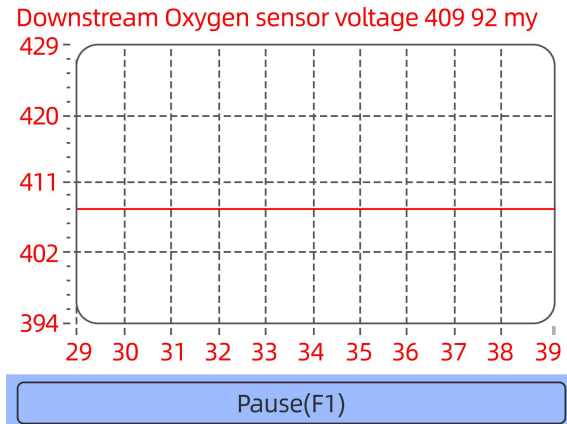


Figure 4-22 Sample Data stream Screen

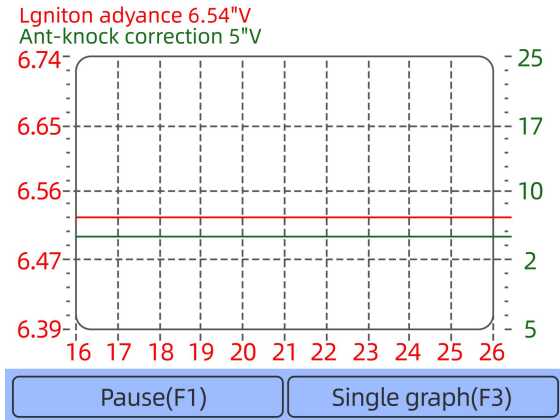


Figure 4-23 Sample Data stream Screen

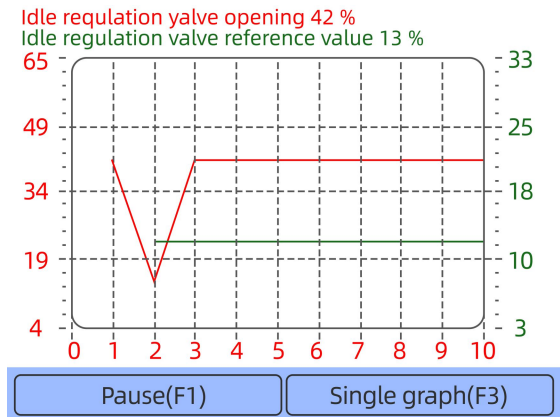


Figure 4-24 Sample Data stream Screen

5. Press the **Back** key to return to the previous menu.

4.1.3.6 Active Tests

Active Tests, also known as Actuator Tests, are bi-directional diagnostic tests on vehicle systems and component. The tests let you to use the scanner temporarily activate or control a vehicle system or component, and when you exit the test, the system/component returns to normal operation.

Some tests display a command to the operator. For example, if "Press Brake Pedal" displays, the operator has to press and hold the brake pedal and then continue. The sequence, number and type of tests are dictated by the control module.

On some systems, the actuator tests cannot be restarted until the ignition key is switched off for some time. Alternatively, briefly start and run the engine, shut down, turn the ignition to the run position, then re-initiate the actuator tests.

IMPORTANT

The tests activate a component, but they do not check if the component is working correctly. Make sure the components to be tested are in good condition and correctly mounted.

NOTE

Available tests depend on the control module under test and the vehicle itself.

▶ To start a test:

1. Select **Active Test** from Function Menu and press the **ENTER** key.

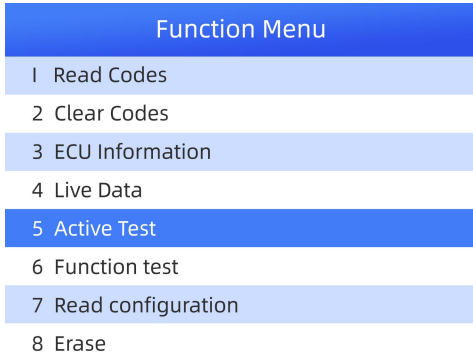


Figure 4-25 Sample Function Menu Screen

2. Select the test you would like to perform and press the **ENTER** key. Follow on-screen instructions to make proper selections and operations to complete the tests.

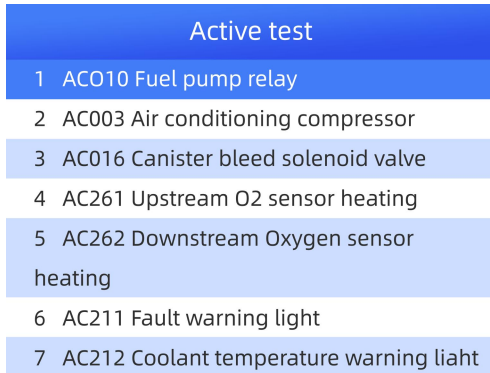


Figure 4-26 Sample Selective Screen Tests Screen

WARNING

- Before running any tests, always observe the safety instructions provided in this manual and the warnings provided by the vehicle manufacturer. In addition, follow any warnings and descriptions provided on the scanner screens.
- Never run the tests while the vehicle is moving.

4.1.3.7 Special Functions

Special Functions perform various component adaptations of the control module under test, allowing you to recalibrate or configure certain components after making repairs or replacement. Typical service operation screens are a series of menu driven executive commands. Follow on-screen instructions to complete the operation.

▶ To perform special tests on a vehicle:

1. Scroll with the arrow keys to highlight the special function test you want to perform from the menu and press the **ENTER** key.

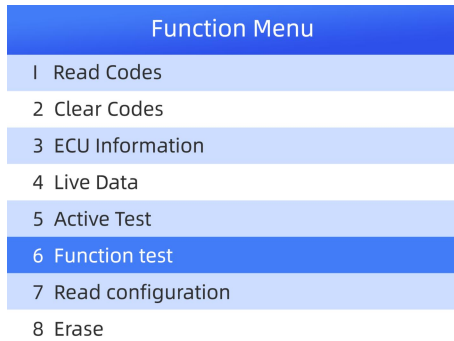


Figure 4-27 Sample Function Menu Screen

2. Select an available service from the menu and press the **ENTER** key to continue.

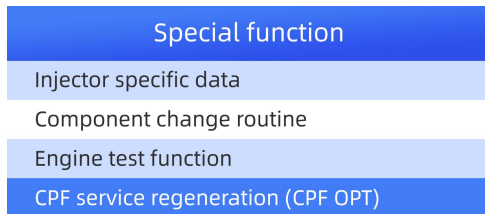


Figure 4-28 Sample Special Function Screen

3. A group selection screen, test selection screen, several step-by-step instruction screens, or bi-directional control screen may appear. Read the screens and follow all instructions. If necessary, use the function keys to perform commands or answer any questions. If more than 3 function keys displays, use up and down arrow keys to select a command and press the **ENTER** key to confirm.
4. When completed, press the **BACK** key to return to previous screens.

5 OBDII/EOBD Operations

OBDII/EOBD menu lets you access all OBD service modes. According to ISO 9141-2, ISO 14230-4, and SAE J1850 standards, the OBD application is divided into several sub programs, called 'Service \$xx'. Below is a list of OBD diagnostic services:

- **Service \$01** - request current powertrain diagnostic data
- **Service \$02** - request powertrain freeze frame data
- **Service \$03** - request emission-related diagnostic trouble codes
- **Service \$04** - clear/reset emission-related diagnostic information
- **Service \$05** - request oxygen sensor monitoring test results
- **Service \$06** - request on-board monitoring test results for specific monitored systems
- **Service \$07** - request emission-related diagnostic trouble codes detected during current or last completed driving cycle
- **Service \$08** - request control of on-board system, test or component

- **Service \$09** - request Vehicle Information
- **Service \$0A** - permanent diagnostic trouble codes(DTCs)(cleared DTCs)

When OBDII/EOBD application is selected from Home screen, the scanner starts to detect the communication protocol automatically. Once the connection has established, a menu that lists all of the tests available on the identified vehicle displays. Menu options typically include:

- System Status
- Read Codes
- Freeze Frame Data
- Clear Codes
- Live Data
- I/M Readiness
- O2 Sensor Test
- On-board Monitor Test
- Component Test
- Vehicle Information
- Modules Present
- Code Lookup

NOTE

Not all function options listed above are applicable to all vehicles. Available options may vary by the year, model, and make of the test vehicle. A “Not supported the model!” message displays if the option is not applicable to the vehicle under test.

6 System Setup

This section illustrates how to program the scanner to meet your specific needs.

When **Settings** is selected, a menu with available service options displays. Menu options typically include:

- WIFI
- Language
- Unit
- Uninstall
- Shortcuts
- Beep Set
- Display Test
- Keypad Test
- About

6.1 Select Language

Selecting **Language** opens a screen that allows you to choose system language. The scan tool is set to display English menus by default.



To configure system language:

1. Scroll with the arrow keys to highlight **Language** from Settings menu and press **ENTER** key.

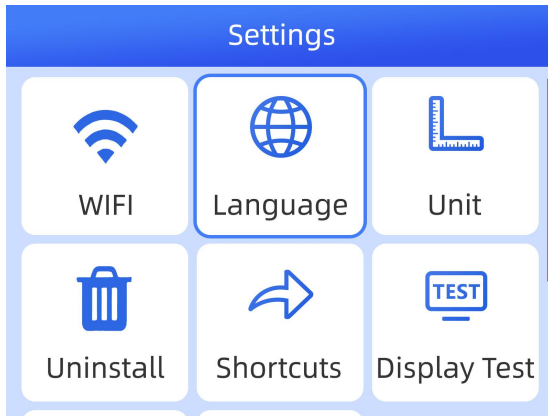


Figure 6-1 Sample Settings Screen

2. Press left and right arrow key select a language and press the **ENTER** key to confirm. Press the **Back** key to exit and return.



Figure 6-2 Sample Language Selection Screen

6.2 Change Units

Selecting **Unit** opens a dialog box that allows you to choose units of measure.

▶ To change the unit setup:

1. Scroll with the arrow keys to highlight **Units** from Settings menu and press the **ENTER** key.

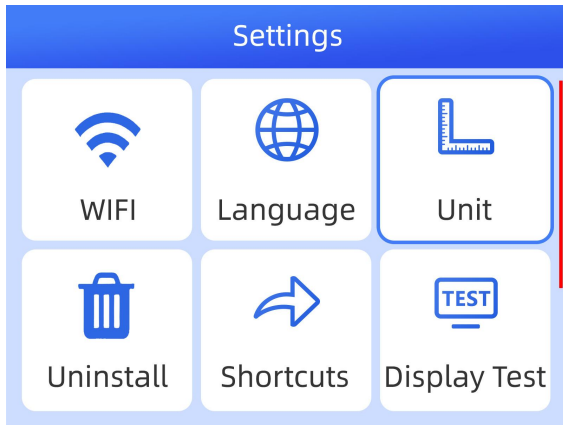


Figure 6-3 Sample Settings Screen

2. Press the up and down arrow key select an item and press the **ENTER** key to save and return.

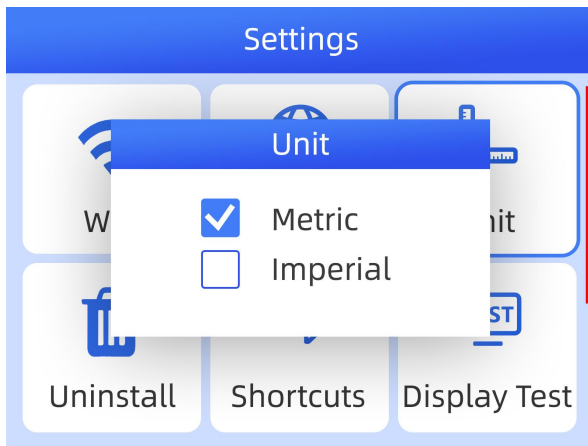


Figure 6-4 Sample Unit Selection Screen

6.3 Configure Shortcut Keys

Selecting **Shortcuts** option lets you to change the functionality of the shortcut buttons.

- ▶ To assign a function to a shortcut button:
 1. Scroll with the arrow keys to highlight **Shortcuts** from Settings menu and press the **ENTER** key. A screen with available shortcut keys displays.

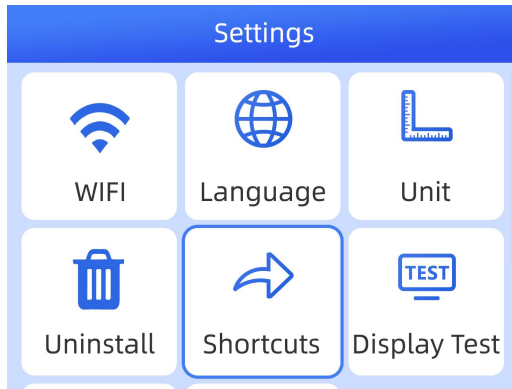


Figure 6-5 Sample Settings screen

2. Press the up and down arrow key select a shortcut key and press the **ENTER** key. A screen with a list of loaded applications displays.

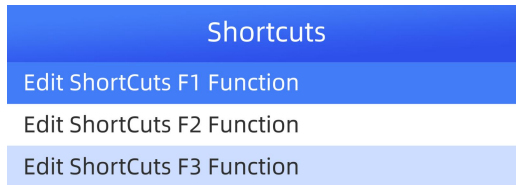


Figure 6-6 Sample Shortcuts Screen

3. Scroll with the arrow keys to highlight an application and press the **ENTER** key to assign the application to the shortcut key.

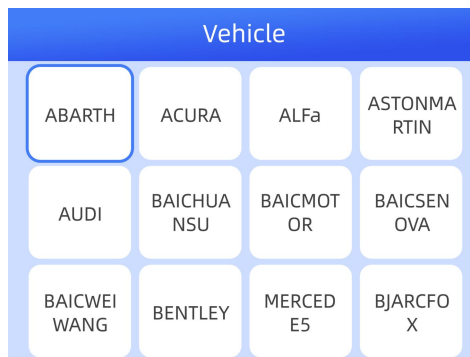


Figure 6-7 Sample Shortcuts Screen

6.4 Display Test

Selecting **Display Test** option opens a screen that allows you to check the functionality of the display.



To test the display:

1. Scroll with the arrow keys to highlight **Display Test** from Settings menu and press the **ENTER** key to start test. Check if there are any missing spots in the LCD screen.

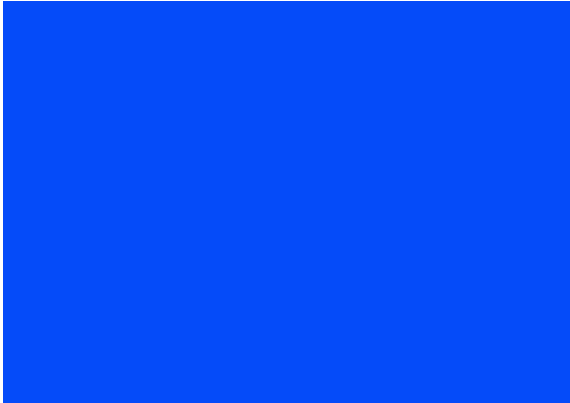


Figure 6-8 Sample LCD Test Screen

2. To quit the test, press the **Back** key.

6.5 Keypad Test

Selecting **Keypad Test** option opens a screen that allows you to check the functionality of the keypad.



To test the keypad:

1. Scroll with the arrow keys to highlight **Keypad Test** from Settings menu and press **ENTER** key.

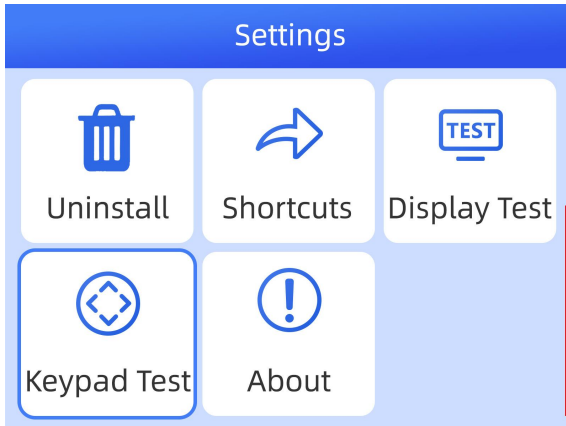


Figure 6-9 Sample Settings Screen

2. Press any key to start test. The virtue key corresponding with the key you pressed will be highlighted on the screen if it works correctly.

Keypad Test

Press any key to start the test. Press [BACK] key twice to quit



Figure 6-10 Sample Keypad Test Screen

3. To quit the test, press **Back** key twice.

6.6 Tool Information

Selecting **About** option opens a screen that shows information about your scan tool, such as serial number, which may be required for product registration.

- ▶ To view information of your scan tool:
1. Scroll with the arrow keys to highlight **About** from Settings menu and press the **ENTER** key.

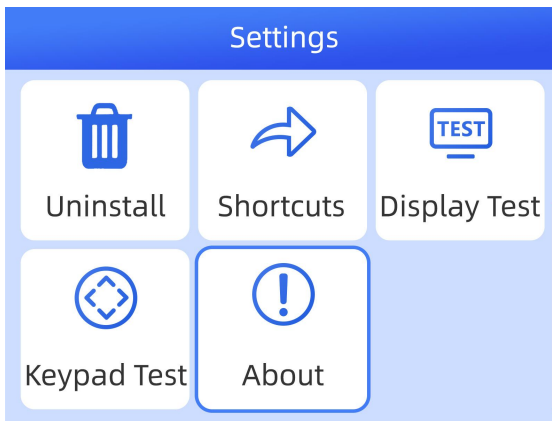


Figure 6-11 Sample Settings Screen

2. A screen with detailed information of the scanner displays.

About	
Home Version	V4.06.034
BOOT Version	V1.06.042
Serial Number	L05300000001
Storage	93% used 3.43 GB free
Copyright	Copyright(c) 2023 Foxwell Technology Co. Ltd, All rights reserved.

Figure 6-12 Sample Tool Information Screen

3. Press the **Back** key to exit.

7 Update



To update scanner, you need the following tools:

- The scan tool
- Available WIFI service
- power supply with USB ports or diagnostic cable

NOTE

Before updating, please make sure your network works correctly.
 Before updating, please make sure you have already created a Foxwell ID.
 Before updating, please make sure your scanner is turned on.

1. Enter **Update** and select an available WIFI to connect.

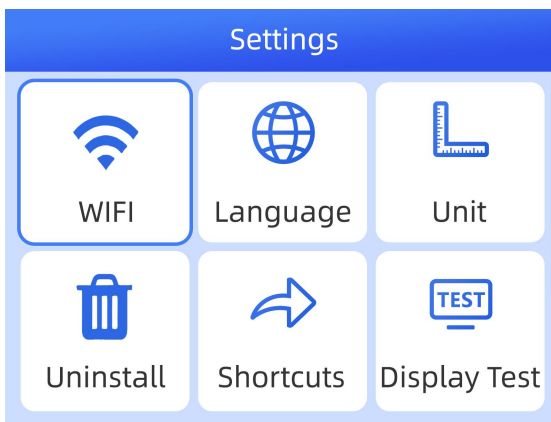


Figure 7-1 Sample WIFI Screen

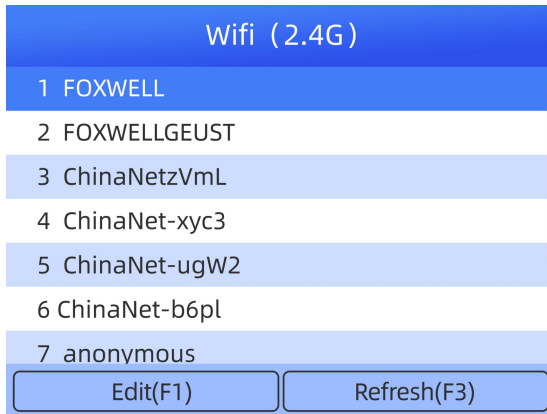


Figure 7-2 Sample WIFI Selection Screen

2. In the **Update**, click the check box(es) in front of the software(s) you wish to update and then click the **Update Select** button to download.

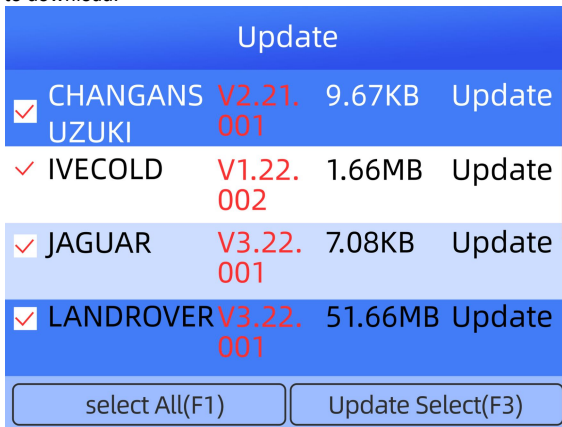


Figure 7-3 Sample Upgrade Check Screen

3. When all the items are updated, an **“All software downloads are successfully installed!”** message displays.

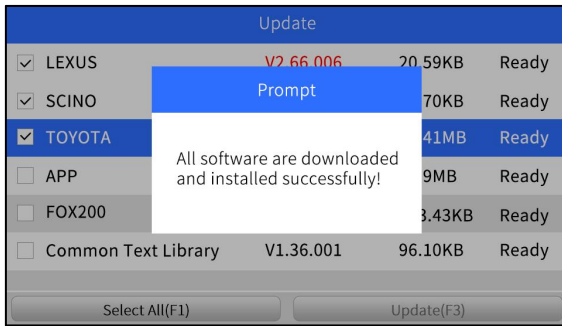


Figure 7-4 Sample Update Completed Screen

8 Uninstall

This option allows you to uninstall the vehicle software installed in the scanner.

▶ To uninstall a vehicle software:

1. Enter **Settings** application on home screen.

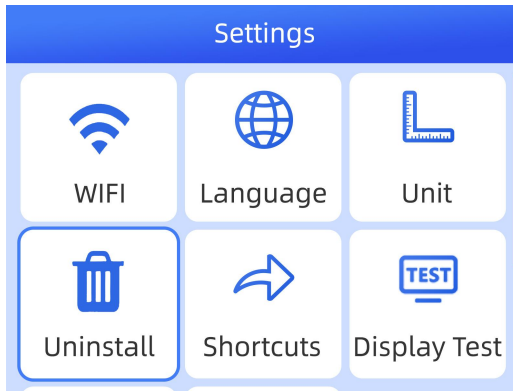


Figure 8-1 Sample Uninstall Vehicle Software Screen

2. Select the Uninstall Vehicle Software option on the option list.

3. Choose the vehicle software you want to delete or choose **Select All** to **Uninstall**.

Uninstall	
<input checked="" type="checkbox"/> ABARTH	61.49KB
<input type="checkbox"/> ACC	434.38KB
<input type="checkbox"/> ACLEARN	600KB
<input type="checkbox"/> ACURA	72.69KB
<input type="checkbox"/> ADAS	93.39KB
<input type="checkbox"/> ADBLUE	210.36KB

Select All(F1) Uninstall(F3)

Figure 8-2 Sample Uninstall Vehicle Software Screen

9 Register

The scanner can be updated to keep you stay current with the latest development of diagnosis. This section illustrates how to register your scan tool.

9.1 Create a Foxwell ID

9.1.1 Register Through Website

If you are new to FOXWELL, please register on www.foxwelltech.us and create a FOXWELL ID first. If you have installed the update application FoxAssist, please refer to the registration guide on 9.1.2.



1. To register through website:

To create a Foxwell ID and register your scan tool

a. Visit our site www.foxwelltech.us and then select **Support>Register**.

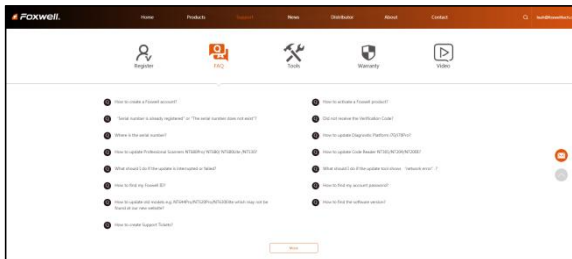


Figure 9-1 Sample Register Screen

b. Click **Register** link at the top right of the website or at the lower side of home page.



Figure 9-2 Sample Register Screen

2. Enter your own email address and click “Send code” to find the verification code in your mailbox. Create a unique password, confirm password and then click “Free registration” to complete. When your ID has been created, you are allowed to view all programs associated with your tool, download updates, edit your profile, submit feedback and join our community to share your ideas and your stories about our products. Note: Please always remember your FOXWELL ID and Password, as it’s important for you to manage your product and updates.

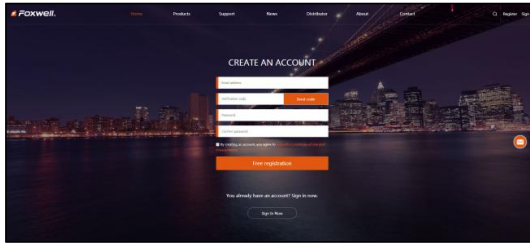


Figure 9-3 Sample Registration Form Filling Screen

IMPORTANT

User name is limited to Email address and please always find the Verification Code in your registered email.

3. A **Registration success** message will appear if you registered successfully.

IMPORTANT

Please always remember your FOXWELL ID and Password as it’s important for you to manager your product and updates.

4. The registration page will be bypassed, skipping to the log in page. Just input your FOXWELL ID and Password to sign in.

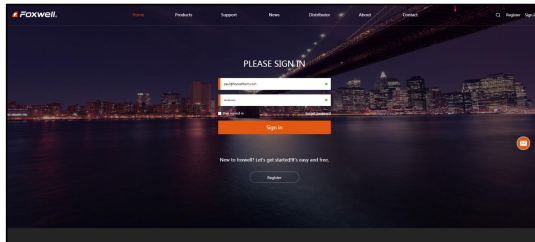


Figure 9-4 Sample Sign in Screen

5. When log in successfully, the **Member Center** will show as below. This platform enables you to review the registered products, register new products, modify personal information or reset the password.

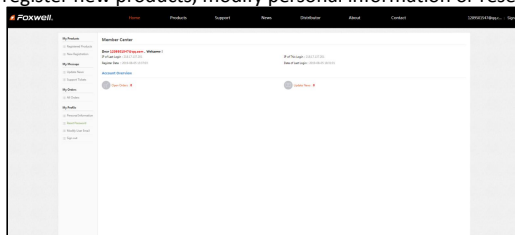


Figure 9-5 Sample Member Center Screen

6. If you forget your password, just click **Sign in** at the top right of the website, then click **Forget password**, You are required to input your registered email address, verification code, new password and confirmed password, click **Reset password**.

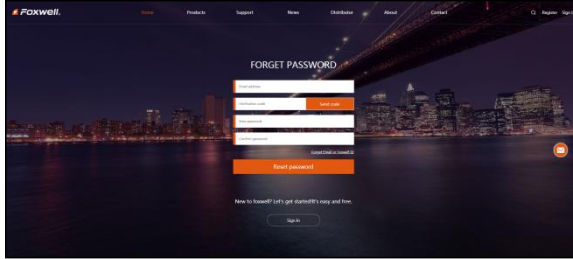


Figure 9-6 Sample User ID and/or Password Retrieve Screen

IMPORTANT

Before enter new password or confirm password, please enter the correct Verification Code in your registered email.

7. A **Password reset succeeded** message will appear if you reset password successfully. Now you are able to log in with your ID and the new password. If you want to change the password, please sign in with your user name and password, then select **My Profile/Reset Password**.

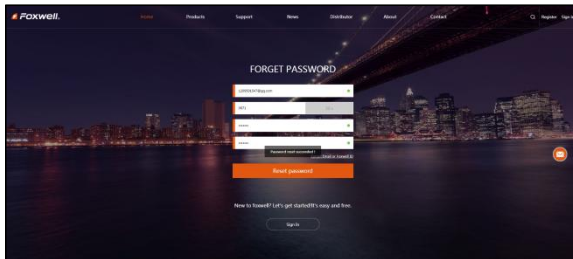


Figure 9-7 Sample Password Reset Succeeded Screen

8. If you forget your email or Foxwell ID, just click **Sign in** at the top right of the website, then click **Forgot password**, and click **Forget Email or Foxwell ID**. You are required to input your registered serial number.

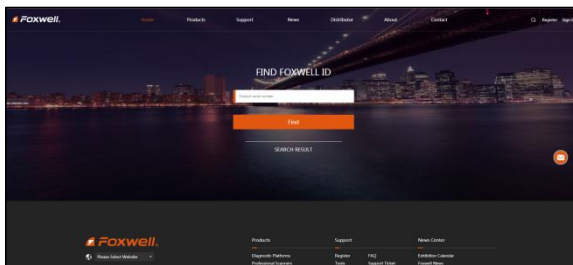


Figure 9-8 Sample Product Serial Number Required Screen

9. Your Registered email or Foxwell ID will appear under **SEARCH RESULT**.

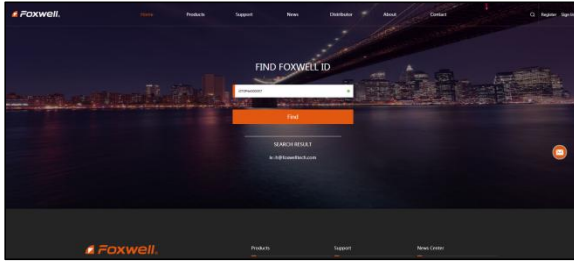


Figure 9-9 Sample FOXWELL Search Result Screen

9.1.2 Register by Scanning QR Code

You are also allowed to register and create a Foxwell ID by scanning QR code.



To register by scanning QR code:

1. Enter **Update** and connect WIFI, then scan the QR code to register.



Figure 9-10 Sample FoxAssist Installation Screen

2. Scan the QR code and enter Register webpage. Enter your own email address and click “Send code” to find the verification code in your mailbox . Create a unique password, confirm password and then click “**Free registration**” to complete.

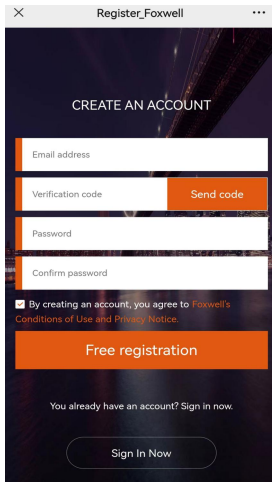


Figure 9-11 Sample Register Screen

9.2 Register Your Scanner

9.2.1 Register Product Through Website

1. Open www.foxwelltech.us main page on the computer or scan the QR code. and click **Sign in**. Input your FOXWELL ID/registered email and password.

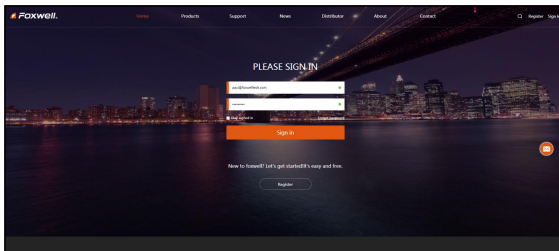


Figure 9-12 Sample Sign in Screen

2. When log in successfully, the **Member Center** will show as below. This platform enables you to review the registered products, register new products, modify personal information or reset the password.

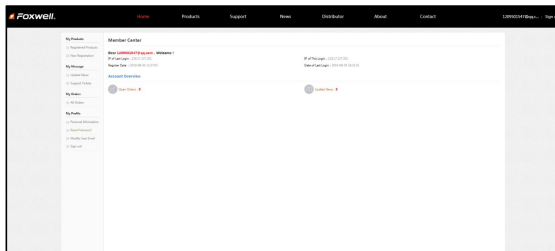


Figure 9-13 Sample Member Center Screen

3. To register a product, please click **My Products>New Registration**. Input correct serial number and click the **Submit** button to complete product registration. Please repeat the process if you have more products.

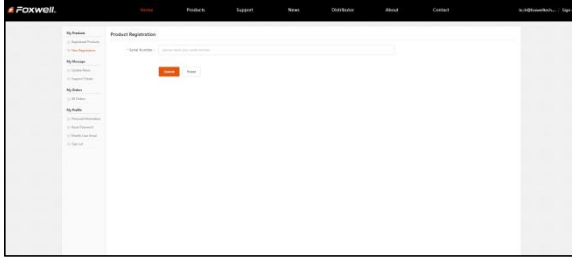


Figure 9-14 Sample New Product Registration Screen

NOTE

To check the serial number of a device, please boot it up, and select **Setting>About**. The serial number is right on the **About** page. You can also find the serial number on the back of main unit or Warranty Card.

9.2.2 Register Product by Scanning QR Code

▶ To register product by scanning QR code:

1. Enter **Update** and connect WIFI, then scan the QR code to register to sign in and finish **Product Registration**.

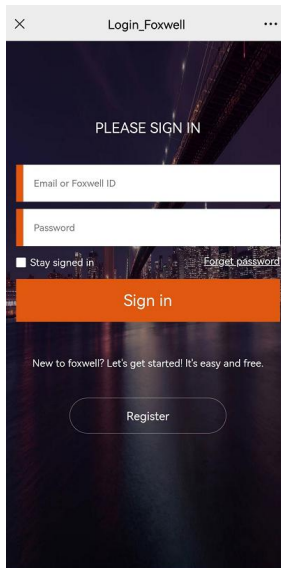


Figure 9-15 Sample Foxwell ID Sign in Screen

2. When log in successfully, input correct serial number and click the **Submit** button to complete product registration.

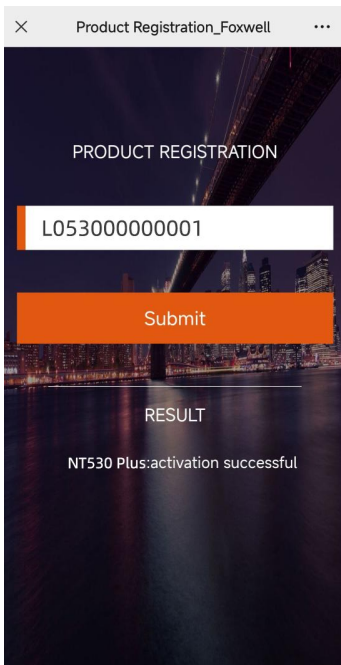


Figure 9-16 Sample Product Registration Screen

10 Shopping

This option allows you to shopping the extra vehicle softwares .To shopping a vehicle software:

10.1 Choose one vehicle for free.

1. After registered and activated the serial number, Please enter into **Shopping**.

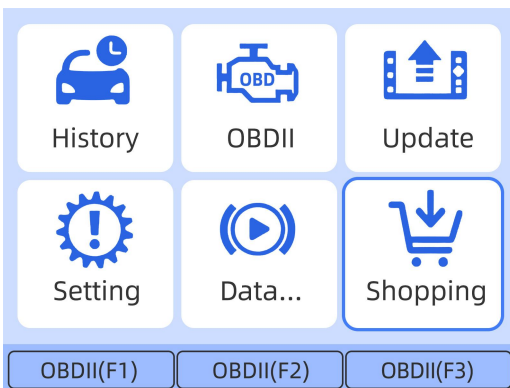


Figure 10-1 Sample Enter Into Shopping Screen

2. Please choose one vehicle for free.

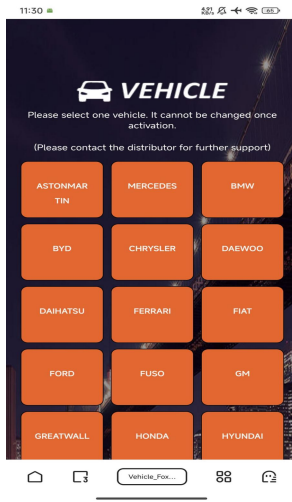


Figure 10-2 Sample choose free vehicle software Screen

10.2 Shopping the extra softwares.

1. After choose one free vehicle software, you will skip to this shopping web page for you to choose the extra vehicle softwares.

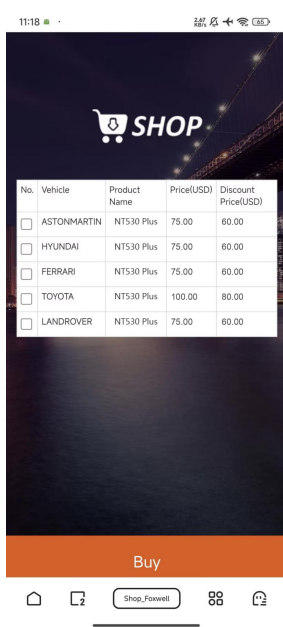


Figure 10-3 Sample choose the extra vehicle software Screen

2. After choose the vehicle you want to purchase, please pay by Paypal.

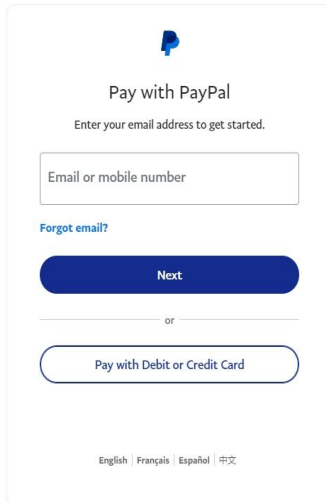


Figure 10-4 Sample Pay by Paypal Screen