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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.

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# **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.

### A DANGER

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

#### **A** WARNING

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

### **A** 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 equipments while the ignition is on or the engine is running.

# **Table of Contents**

ONE-YEAR LIMITED WARRANTY	2
SAFETY INFORMATION	4
SAFETY MESSAGE CONVENTIONS USED	4
IMPORTANT SAFETY INSTRUCTIONS	4
1 USING THIS MANUAL	7
1.1 Bold Text	7
1.2 SYMBOLS AND ICONS	7
1.2.1 Solid Spot	7
1.2.2 Arrow Icon	7
1.2.3 Note and Important Message	7
2 INTRODUCTIONS	7
2.1 SCANNER DESCRIPTIONS	8
2.2 Accessory Descriptions	8
2.3 Technical Specifications	9
3 GETTING STARTED	9
3.1 Providing Power to Scanner	9
3.1.1 Connecting to Vehicle Power	9
3.1.2 Connecting to Computer with USB Cable	9
3.2 APPLICATION OVERVIEW	9
3.3 INPUT DIALOG BOX	10
4.VEHICLE IDENTIFICATION	11
4.1 SMART VIN	11
4.2 MANUAL SELECTION	12
5 DIAGNOSTIC OPERATIONS	13
5.1 CONTROL MODULE SELECTION	14
5.1.1 Quick Scan	14
5.1.2 Control Modules	15
5.2 DIAGNOSTIC OPERATIONS	16
5.2.1 Read Codes	16
5.2.2 Clear Codes	18
5.2.3 Live Data	19
5.2.3.1 Complete Data List	19
5.2.3.2 Custom List	21
5.2.4 ECU Information	22
5.2.5 Active Tests	23
5.2.6 Special Functions	24
6 OBDII/EOBD OPERATIONS	25

7 SYSTEM SETUP	26
7.1 SELECT LANGUAGE	26
7.2 CHANGE UNITS	27
7.3 Configure Shortcut Keys	27
7.4 DISPLAY TEST	28
7. 5 KEYPAD TEST	
7.6 TOOL INFORMATION	30
8 UPDATE	31
8.1 Create a Foxwell ID	
8.1.1 Register through Website	31
8.1.2 Register with FoxAssist	
8.2 REGISTER YOUR SCANNER	35
8.2.1 Register Through Website	36
8.2.2 Register With FoxAssist	
8 3 LIDDATE THE SCANNED	

# 1 Using This Manual

We provide tool usage instructions in this manual. Below is 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 tool are introduced by a solid spot .

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

- Language
- Unit
- Shortcuts
- Display Test
- Kevpad 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.
- 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

Foxwell NT530 Multi-system scanner is a unique tool that delivers OE-level diagnosis for all the electronic systems of different car brands. What's more important is that it supports the most commonly required service features such as Oil Light/Service reset, brake deactivation, transmission adaptations, and so on.

Available applications are BMW, Mercedes Benz, Fiat, PSA, Chrysler, Ford, GM, Honda, Nissan, Toyota and more. And the functions may vary by year and model.

# 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.
- 9 **TF Card Port** holds the TF memory card for data backup and software update.

### **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 operation instructions for the usage of the scanner.
- 2 Diagnostic Cable provides connection between the scanner and a vehicle.
- 3 USB Cable provides connection between the scanner and a computer to update and print data.
- 4 Warranty Card A warranty card is required if you need any repair or replacement from us.
- 5 Nylon Carry Pouch stores the scanner and its accessories.

## 2.3 Technical Specifications

Display: Backlit, 240\*320 TFT color display Working Temperature: 0 to 60  $^{\circ}$ C (32 to 140 $^{\circ}$ 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.

Take a Toyota customized scanner for example, following applications are preloaded into the scanner:

- Auto VIN leads to screens for identifying a car by automatic VIN reading.
- OBDII/EOBD leads to OBDII screens for all 9 generic OBD system tests.
- Toyota leads to screens for diagnostic trouble code information, live data, ECU information, active test, and special functions on vehicles sold worldwide.
- 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.
- Update leads to screen for updating the scanner.

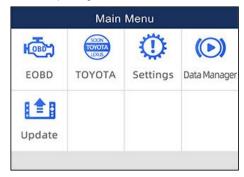


Figure 3-1 Sample Home Screen

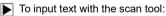
## 3.3 Input Dialog Box

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



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

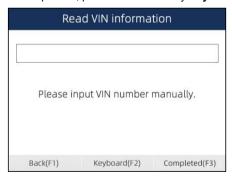


Figure 3-2 Sample Input Text Screen

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

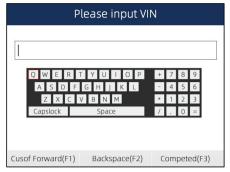


Figure 3-3 Sample Numeric Keyboard Screen

- 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. Vehicle Identification

This section illustrates how to use the scanner to identify the specifications of the vehicle under test.

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. Exact procedures may vary somewhat by vehicle. It typically identifies a vehicle by any of the following means:

- SmartVIN
- Manual selection

### 4.1 Smart VIN

Smart VIN allows to identify a vehicle by automatically reading the vehicle identification number (VIN).



To identify a vehicle by SmartVIN:

1. Scroll with arrow keys to highlight the vehicle application from main menu and press ENTER.



Figure 4-1 Sample Main Menu Screen

2. Select SmartVIN from the menu, and press the ENTER key.



Figure 4-2 Sample VIN Reading Screen

The scan tool starts to communicate with the vehicle and read the Vehicle Specification or VIN Code automatically.



Figure 4-3 Sample Automatic VIN Reading Screen

 Answer YES if the Vehicle Specification or VIN code is correct and a menu of controller selection displays. Answer NO if incorrect, and you are required to enter the correct VIN number manually.

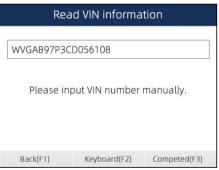


Figure 4-4 Sample Manual VIN Entry Screen

### 4.2 Manual Selection

**Manual 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. Scroll with arrow keys to highlight the vehicle application from main menu and press ENTER.



Figure 4-5 Sample Main Menu Screen

2. Select Manual Selection from the menu, and press the ENTER key.

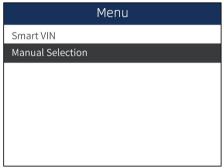


Figure 4-6 Sample Control Module Selection Screen

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 4-7 Sample Manual Vehicle Selection Screen

# **5 Diagnostic Operations**

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 a variety of vehicles and also save "recordings" of the data readings.

### 5.1 Control Module Selection

When you completed the identification of vehicle, you have to identify the control modules installed in the vehicle. There are two ways to identify the controllers installed in a car:

- Quick Scan
- Control Modules

### 5.1.1 Quick Scan

**Quick Scan** performs an automatic system test to determine which control modules are installed on the vehicle and provides diagnostic trouble codes (DTCs) overview. Depending on the number of control modules, it may take 10 minutes or longer to complete the test.



1. Scroll with the arrow keys to highlight Quick Scan from the menu and press ENTER to start.

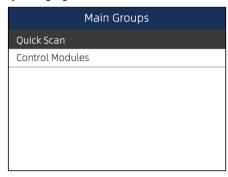


Figure 5-1 Sample Main Group Screen

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

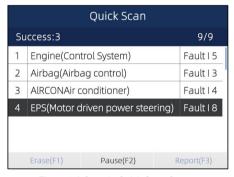


Figure 5-2 Sample Quick Scan Screen

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

	Quick Scan			
Su	Success:3 9/9			9/9
1	Engine(Con	trol System)		Fault I 5
2	Airbag(Airb	ag control)		Fault I 3
3	3 AlRCONAir conditioner)			Fault I 4
4 EPS(Motor driven power steering)		Fault I 8		
5 BCM(Body control module) Faul		Fault I 12		
6 ABS/EPS(ABS/EPS)		Fault I 20		
	Erase(F1) Pause(F2) Report(F3)			teport(F3)

Figure 5-3 Sample Quick 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. Or press the function key **Erase** to clear them.

	Report	
ID Description		
P012300	Throtle/Pedal Pos Sensor A Cro. lHigh Input -Active/static	
P022200	Throttle/Pedal Position Sensor/ switch BLow nput =Actve/state Ib	
Supply relay for engne componen P308700 Electrical malfunction in orout- Passive/Sporadic		
P201400	Intake Manifold Runner Postion Save(F1)	

Figure 5-4 Sample DTC Screen

- 5. Press function key F1 to save the trouble code information.
- 6. 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		
Read Codes		
Clear Codes		
Live Data		
Active Test		
ECU Information		
Special Functions		

Figure 5-5 Function Menu screen

### 5.1.2 Control Modules

**Control Modules** 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:

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

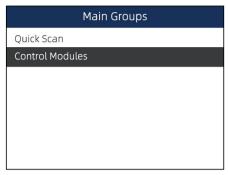


Figure 5-6 Sample Control Module Menu Screen

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

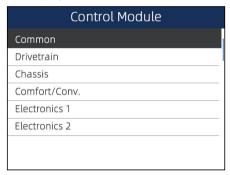


Figure 5-7 Sample Control Module Menu Screen

## 5.2 Diagnostic Operations

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

- Read Codes
- Clear Codes
- Live Data
- Active Test
- ECU Information
- Special Functions

#### 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.

### 5.2.1 Read Codes

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

Typical code status include:

- Present/Permanent/Current Codes
- Pending Codes

#### History Codes

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.



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.

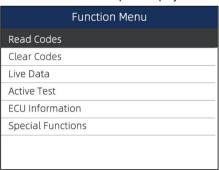


Figure 5-8 Sample Function Menu Screen

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			
ID	Status	Description	
P0030 ?*	Active	HO2S heater control circuit bank 1sensor 1	
P2096 ?*	History	Post catalyst fuel trim system too lean bank1	
P0130 ?*	Active	02 sensor circuit bank 1 sensor 1	
P0616 ?*	History	Starter relay circuit	
Save(F1) Freeze Frame(F2)			

Figure 5-9 Sample Code Screen

3. Press function key Save to store DTC information. Press function key Freeze Frame to view freeze data

P0030		
Name	Value	Unit
MIL status indicator(MIL by DTC)	OFF	
Battery voltage	12.4	V
Engine cooling fan-Low	ON	
Boost pressure sensor	2992	hPa
Air mass flow	90	kg/h
Accelerator pedal position sensor	0	%
Save(F1)		

Figure 5-10 Freeze Data screen

Freeze Frame Data: a snapshot of critical vehicle operating conditions automatically recorded by the on-board computer at the time of the DTC set. It is a good function to help determine what caused the fault.

- 4. Use left and right arrow keys to scroll back and forth through different screens of data.
- 5. Press function key Save to store freeze frame information. Or use the BACK key to exit.

#### 5.2.2 Clear Codes

Clear 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 is 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.
- · Clear 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.

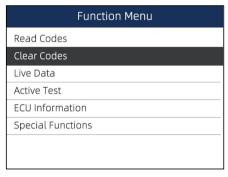


Figure 5-11 Sample Function Menu Screen

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

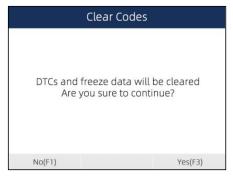


Figure 5-12 Sample Clear Codes Screen

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

#### 5.2.3 Live Data

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

Menu options typically include:

- Complete List
- Custom List

### 5.2.3.1 Complete Data List

Complete List menu lets you view all live PID data from a selected system.

To view live PID data:

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

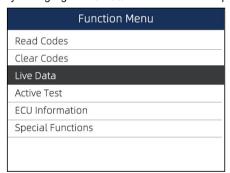


Figure 5-13 Sample Function Menu Screen

2. Select the Complete List from the menu and press the ENTER key to display the data screen.

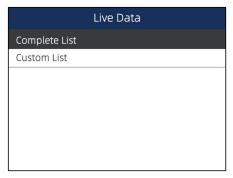


Figure 5-14 Sample Live Data Menu Screen

3. Scroll with the up and down arrow keys to highlight a line, and left and right arrow keys to scroll back and forth through different screens of data. Press function key Pause to suspend collecting data from the vehicle and use the Start key to resume collecting data. To record data to memory of the scanner, use the function key SAVE, and press Stop Saving to stop recording at any time.

Live Data		
Name	Value	Unit
Alocation of oxygen sensorsOxygen sensor bank 2.sensor 4	Not installed	
Ambient air pressure	11.6	psi
Calculated oil temperature	21	
Cause for cancellation	0	
Charge air pressure specified	994.09820557	НРа
Value		
Pause(F1) Graph(F2)	Save(F3	3)

Figure 5-15 Sample Live Data 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.

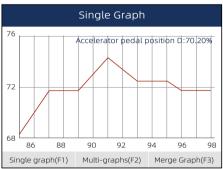


Figure 5-16 Sample PID Graph Screen

Press the function key Multi-graphs to display two PID graphs in one screen. Press Single graph to view one plot.

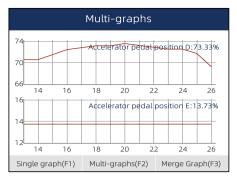


Figure 5-17 Sample Two PID Graph Screen

6. Press the function key Merge Graph to display two PID plots in one coordinate to check how they affect each other

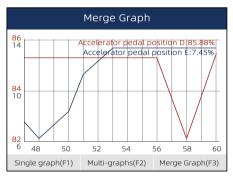


Figure 5-18 Sample Merge Graph Screen

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

#### 5.2.3.2 Custom List

Custom 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:

1. Select Custom List from the menu and press the ENTER key.

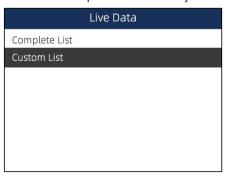


Figure 5-19 Sample Live Data Menu Screen

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 Select All and Deselect to select or deselect all items at once.

	Custom list			
	Steering angle sensor-1(ESP only)			11
	Steering and	le sensor-2(ESP o	nly)	12
	Steering and	le sensor-NESP or	nly)	13
	G-Sensor longitudinal		14	
	G-Sensor lateral		15	
	ABS warning lamp     1		16	
EBD warning lamp 17		17		
S	Select All(F1) Deselect(F2) OK(F3)			F3)

Figure 5-20 Sample Custom List Selection Screen

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

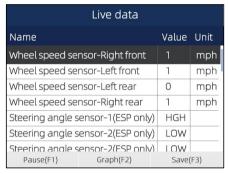


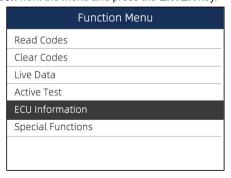
Figure 5-21 Sample Live Data Screen

#### 5.2.4 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.



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



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

ECU Information		
MODEL	ВС	
SYSTEM	DEF	
S/W VER	48.49	
ECU P	5041424344	
S/W NUMBER	4243	
Save(F1)		

Figure 5-23 Sample ECU Information Screen

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

#### 5.2.5 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 Tests from Function Menu and press the ENTER key.

Function Menu		
Read Codes		
Clear Codes		
Live Data		
Active Test		
ECU Information		
Special Functions		

Figure 5-24 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 5-25 Sample Active Tests Selection 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.

### 5.2.6 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.

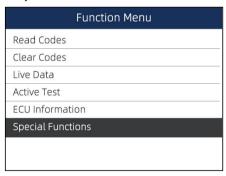


Figure 5-26 Sample Function Menu Screen

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

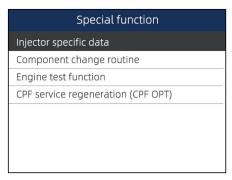


Figure 5-27 Sample Special Function Screen

- 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.

# 6 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

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 mode!" message displays if the option is not applicable to the vehicle under test.

# 7 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:

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

## 7.1 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 7-1 Sample Settings Screen

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 7-2 Sample Language Selection Screen

## 7.2 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.

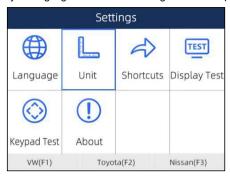


Figure 7-3 Sample Settings Screen

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

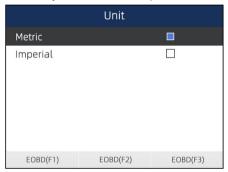


Figure 7-4 Sample Unit Selection Screen

# 7.3 Configure Shortcut Keys

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

To assign a function to a shortcut button:

 Scroll with the arrow keys to highlight Shortcuts from Settings menu and press the ENTER key. A screen with available shortcut keys displays.



Figure 7-5 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 7-6 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.

Vehicle				
ABABTH	ALFA	ASTONMARTIN		
AUDO	BMW	BRILBMW		
Bentley	Bugatti	CHRYSLER		
DACIA	DAEWOO	Daihatsu		
EOBD(F1)	EOBD(F2)	EOBD(F3)		

Figure 7-7 Sample Shortcuts Screen

## 7.4 Display Test

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

To test the display:

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.

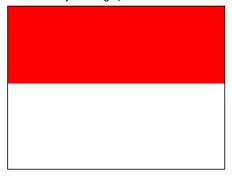


Figure 7-8 Sample LCD Test Screen

2. To guit the test, press the Back key.

## 7. 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.

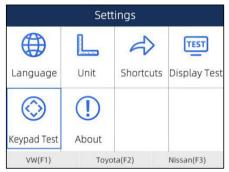


Figure 7-9 Sample Settings Screen

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.

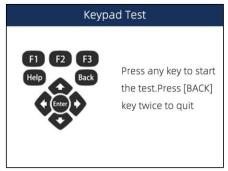


Figure 7-10 Sample Keypad Test Screen

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

## 7.6 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 7-11 Sample Settings Screen

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

	' '	
	About	
Home Version	V1.01.005	
BOOT Version	V2.04.003	
Serial Number	N680P1e000003	
Copyright	Copyright(c)2018 Foxwell Technology CoLtd. All rights reserved	
EOBD(F1)	EOBD(F2)	EOBD(F3)

Figure 7-12 Sample Tool Information Screen

3. Press the Back key to exit.

# 8 Update

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

To update your scanner, please follow the three steps as below:

Step1: Obtain an FOXWELL ID.

Step2: Register the product with the product serial number.

Step3: Update the product by the update application FoxAssist.

For step 1 and 2, you can also go to our site with the link below.

Step 1: http://www.foxwelltech.us/support-detail-216.html

Step 2: http://www.foxwelltech.us/support-detail-621.html

### 8.1 Create a Foxwell ID

### 8.1.1 Register through Website

If you are new to FOXWELL, please register on <a href="www.foxwelltech.us">www.foxwelltech.us</a> and create a FOXWELL ID first. If you have installed the update application FoxAssist, please refer to the registration guide on 8.1.2.

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 8-1 Sample Register Screen

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



Figure 8-2 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 your to manage your product and updates.



Figure 8-3 Sample Registration Form Filling Screen

#### **IMPORTANT**

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

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.

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



Figure 8-4 Sample Sign in Screen

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 8-5 Sample Member Center Screen

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 8-6 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 rest 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 8-7 Sample Password Reset Succeeded Screen

 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 8-8 Sample Product Serial Number Required Screen

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



Figure 8-9 Sample FOXWELL Search Result Screen

### 8.1.2 Register with FoxAssist

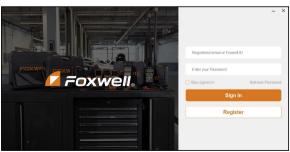
You are also allowed to register and create a Foxwell ID with the update client FoxAssist.

- To register through website:
  - Visit our site <u>www.foxwelltech.us</u> and go the **Product** page. Find your product model and click it to view the product profile. Or Find the update tool under Tools in the **Support** page. Select **Download** tab to download the PC application file.
  - Unzip the application file. Follow instructions on computer screen to install the application and driver.



Figure 8-10 Sample FoxAssist Installation Screen

3. Double click the desktop icon to launch the application.



4. Click Register button, a Register window will pop up. 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 8-12 Sample Register Screen

5. A Registered account is successful message will appear if you registered successfully.



Figure 8-13 Sample Registration Success Screen

Click OK. It skips to the login page automatically. You can input your FOXWELL ID and Password to sign in.



Figure 8-14 Sample Sign in Screen

# 8.2 Register Your Scanner

To register a scanner , you can either register on <a href="www.foxwelltech.us">www.foxwelltech.us</a> or by the update PC application FoxAssist.

## 8.2.1 Register Through Website

 Open <u>www.foxwelltech.us</u> main page and click **Sign in**. Input your FOXWELL ID/registered email and password.



Figure 8-15 Sample Sign in Screen

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 8-16 Sample Member Center Screen

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 8-17 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.

### 8.2.2 Register With FoxAssist

To register with FoxAssist:

1. Launch the PC application FoxAssist. Sign in with your Foxwell ID/ registered email and password.

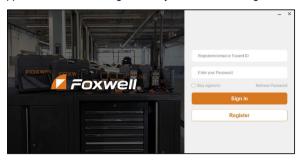


Figure 8-18 Sample Sign in Screen

2. Select Activate and input serial number to complete product registration. If you have multiple scanners to be registered, please enter all serial numbers you wish to activate. Or you can also connect the scanner with your PC via USB cable, choose the Update icon and press the Enter Key on the scanner, then your serial number will be automatically acquired by the FoxAssist and please click Activate to complete.

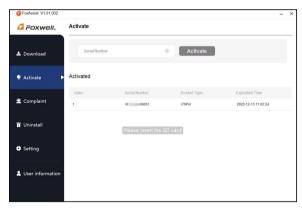


Figure 8-19 Sample New Product Activate Screen

# 8.3 Update the Scanner

To update scanner, you need the following tools:

- The scan tool
- PC application FoxAssist
- · PC or laptop with USB ports
- Internet service

To be able to use update tool, PC or laptop must meet the following minimum requirements:

- Operation System: Windows 7, Windows 8 and Windows 10.
- CPU: Intel PIII or better
- RAM: 64MB or better

- Hard Disk Space: 30MB or better
- Display: 800\*600 pixel, 16 byte true color display or better
- Internet Explorer 4.0 or newer

#### NOTE

Before updating, please make sure your network works correctly.

Before updating, please make sure you have already created a Foxwell ID.

## To update your scanner:

- 1. Double click the desktop icon to launch the application.
- 2. Connect the scanner with your PC via USB cable.
- 3. Log in with your Foxwell ID and password.

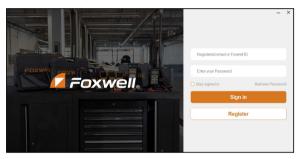


Figure 8-20 Sample Sign in FoxAssist Screen

4. You are lead to **Download** tap after you sign in, please choose the Update icon and press the Enter Key on the scanner, then all updates applicable to your scanner display.

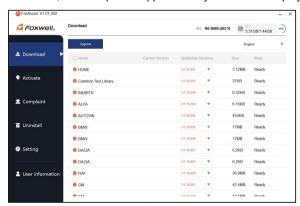


Figure 8-21 Sample Download Screen

Click the check box(es) in front of the software(s) you wish to update and then click the Upgrade button on the top of the software(s) to download.

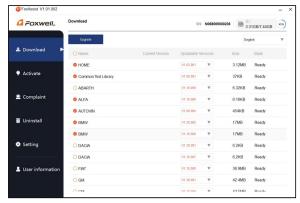


Figure 8-22 Sample Upgrade Check Screen

When Upgrade button is clicked, it begins to download. And you can check the Current Status. If the Current Status shows Downloading, please do not close the update application.

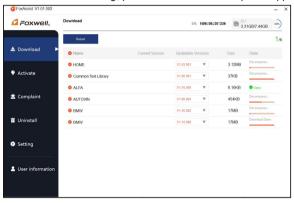


Figure 8-23 Sample Updating Screen

7. When all the items are updated, an "All software downloads are successfully installed!" message displays. Please click OK to confirm.

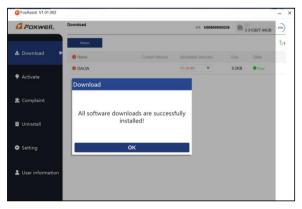


Figure 8-24 Sample Update Completed Screen

8. Please click **Return** to review all the software status.

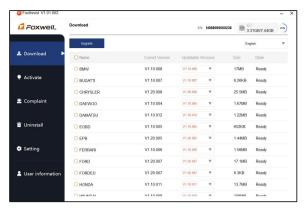


Figure 8-25 Sample Software Management Screen

#### NOTE

If "Update Failed" dialog comes up, it indicates that the software updates failed. Please check the network connection. If the problem still exists, please contact <a href="mailto:support@foxwelltech.com">support@foxwelltech.com</a> or your local dealer for assistance.

Should you have any questions regarding the product, please click Complaint, fill in all required information and click Submit to send us your issue.

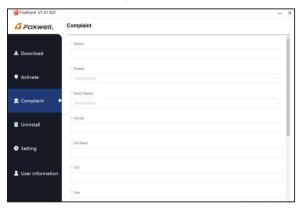


Figure 8-26 Sample Complaint Screen

10. To uninstall a software or all software, select them on the Uninstall tab and click the Uninstall button. And the uninstalled items can be found in the Uninstall screen.

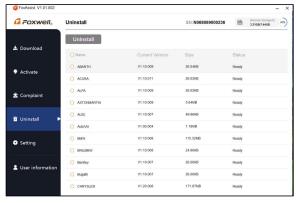


Figure 8-27 Sample Software Uninstallation Screen

11. Please click **Setting** to change the update tool language.



Figure 8-28 Sample FoxAssist Setting Screen

12. Please click **User Information** to view your personal information. To modify your personal information, just click the **Edit** and type in the message box and click **Confirm**. To help us provide better sales, please make sure that the telephone, email and country are correctly entered.



Figure 8-29 Sample User Information Screen