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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.

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.

A 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.

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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 .

Example:

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

- Language
- Unit
- Shortcuts
- Beep Set
- 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

NT650Elite provides workshops and technicians affordable professional ABS and airbags diagnostics and features the most frequently required service functions like DPF, TBA/TPS, and battery configuration.

2.1 Scanner Descriptions

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

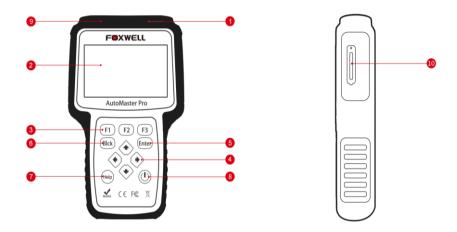


Figure 2-1 Front View

- 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 Power Switch press and hold for 5 seconds for emergency reboots.

9 USB Port - provides USB power connection between the scanner and PC/laptop.

10 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 User's Guide - provides 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 Blower Molding Case - stores the scanner and its accessories.

2.3 Technical Specifications

Display: Backlit, 480*272 TFT color display Working Temperature: 0 to 60 (32 to 140) Storage Temperature: -20 to 70 (-4 to 158) Power Supply: 8-18V vehicle power and 3.3V USB power Dimensions: (L*W*H): 200*100*38mm Weight: 1.8 Kgs

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.

- Auto VIN leads to screens for identifying a car by VIN reading.
- OBDII/EOBD leads to OBDII screens for all 9 generic OBD system tests.
- ABS & Airbag leads to screens for diagnostic trouble code information, live data, ECU information and special functions of ABS and airbag systems on 49 vehicle makes sold worldwide.
- Special Functions leads to screens of tests of the most frequently required service features.
- 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
- To input text with the scan tool:

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

Rea	Read VIN information					
Please ir	iput VIN number	manually.				
Back(F1)	Keyboard(F2)	Completed(F3)				

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.

Please input VIN						
ASDF	T Y U I O P G H J K L V B N M Space	+ - * /	74	8 5 2 0	9 6 3	
Cusof Forward(F1)	Backspace(F2)	C	om	pete	ed(F	3)

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.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:

- Automatic VIN reading
- Manual VIN entry
- Manual vehicle selection

NOTE

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

4.1 Auto VIN

Auto VIN is a shortcut for VIN reading menu which typically includes following options:

- Automatic VIN acquisition
- Manual input VIN

4.1.1 Automatic VIN Acquisition

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

To identify a vehicle automatic VIN reading:

1. Scroll with the arrow keys to highlight Auto VIN from the main menu and press the ENTER key.



Figure 4-1 Sample Main Menu Screen

2. Select Automatic VIN Acquisition from the menu, and press the ENTER key.

Automatic VIN acquisition
Automatic VIN acquisition
Manually input VIN

Figure 4-2 Sample VIN Reading Screen

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

Information		
VIN: WVGAB9	7P3CD056108	
NO(F1)	Yes(F3)	

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 it is incorrect, and you are required to enter the correct VIN number manually.

Read VIN information				
WVGAB97P3C Please inp	D056108 out VIN number i	manually.		
Back(F1)	Keyboard(F2)	Competed(F3)		

Figure 4-4 Sample Manual VIN Entry Screen

5. If it takes too long to get the VIN code, press **Cancel** to stop and input the VIN manually. Or if failed to identify the VIN, please input the VIN manually or click **Cancel** to quit.

Please input VIN						
Q W E R A S D F Z X C Capslock	T Y U I O P G H J K L V B N M Space	+ - * /	741	8 5 2	9 6 3 =	
Cusof Forward(F1)	Backspace(F2)	C	om	pet	ed(F3)	

Figure 4-5 Sample Manual Entry Screen

4.1.2 Manual VIN Entry

Manual VIN Entry identifies a vehicle by manually inputting a 17-digit VIN code.

To identify a vehicle by manual VIN entry:

1. Scroll with the arrow keys to highlight Auto VIN from the main menu and press the ENTER key.



Figure 4-6 Sample Main Menu Screen

2. Select **Manually input VIN** from the menu, and press the **ENTER** key.

Automatic VIN acquisition
Automatic VIN acquisition
Manually input VIN

Figure 4-7 Sample VIN Reading Screen

3. Press the function key Keyboard and a virtual keyboard opens for VIN entry.

Please input VIN					
Q W E R A S D F Z X C Capslock	T Y U I O P G H J K L Space	+ 1 - 1 * 1	7 8 4 5 1 2 . 0	9 6 3 =	
Cusof Forward(F1)	Backspace(F2)	Co	mpet	ed(F3	3)

Figure 4-8 Sample Manual VIN Entry Screen

5. Input a valid VIN code and use the function key **Completed** to confirm. The scan tool starts to identify the vehicle.

4.2 Manual Vehicle Selection

Select vehicle brand you are to test, and two ways of getting to the diagnostic operations are available.

- SmartVIN
- Manual Selection

4.2.1 Smart VIN

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

- To identify a vehicle by SmartVIN:
 - Scroll with the arrow keys to highlight ABS&Airbag from main menu and press the ENTER key to start. If you have the application assigned to one of the function keys at the bottom of the screen, you can alternatively press the function key to start the application.



Figure 4-9 Sample Main Menu Screen

2. A screen with vehicle manufacturer areas displays. Select the area where the car brand is originated. A list of vehicle makes display.

Regions					
47	An	Y	S		
Europe	Asia	USA	China		

Figure 4-10 Sample Vehicle Manufacturer Area Selection Screen

3. Select the vehicle manufacturer. A list of vehicle identification options displays.

Vehicle					
ABARTH	ALFA	ASTONMARTIN			
AUDI	BMW	Bentley			
Bugatti	DACIA	FERRARI			
FIAT	FORDEU	JAGUAR			
EOBD(F1)	EOBD(F2)	EOBD(F3)			

Figure 4-11 Sample Vehicle Selection Screen

4. Select **SmartVIN** from the menu, and press the **ENTER** key.

Menu	
SmartVIN	
Manual Selection	

Figure 4-12 Sample VIN Reading Screen

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

Inform	nation
VIN: WVGAB9	7P3CD056108
NO(F1)	Yes(F3)

Figure 4-13 Sample Automatic VIN Reading Screen

6. 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.

Read VIN information		
WVGAB97P3C Please in	D056108 put VIN number i	manually.
Back(F1)	Keyboard(F2)	Competed(F3)

Figure 4-14 Sample Manual VIN Entry Screen

4.2.2 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. Refer to step 1-3 of 4.2.1 SmartVIN.
- 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.

Select year			
2017 2016	Select body		
2015	4C-ALFA 4C	Main Groups	
2014	B1-JEEP REN BQ-JEEP REN		
2012	BF-Fiat 500	Control Modules	
2011 2010	BU-JEEP REN D2-Ram 350		
2010	DD-Ram 35		
	DF-Ram 350		

Figure 4-15 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.

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

Main Groups	
Quick Scan	
Control Modules	



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

Quick Scan		
03-ABS Bra	akes	Scanning
race(E1)	Dause(E2)	Report(F3)
	03-ABS Bra	03-ABS Brakes

Figure 5-2 Sample Quick 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		
Suc	ccess:9	9/9
1	AIRCON(Air conditioner)	Fault 4
2	ABS/ESP(ABS/ESP)	Fault I 20
Erase(F1) Report(F3)		Report(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
P308700	Supply relay for engne component 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		
ECU Information		
Read Codes		
Clear Codes		
Live Data		
Special Function		

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

Main Groups	
Quick Scan	
Control Modules	

Figure 5-6 Sample Control Module 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 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:

- ECU information
- Read Codes
- Clear Codes
- Live Data
- 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 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.

Function Menu	
ECU Information	
Read Codes	
Clear Codes	
Live Data	
Special Function	

Figure 5-8 Sample Function Menu Screen

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

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

Figure 5-9 Sample ECU Information Screen

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

5.2.2 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.

Function Menu
ECU Information
Read Codes
Clear Codes
Live Data
Special Function

Figure 5-10 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.

	Trou	ıble Codes
ID	Status	Description
B1651 📪	Active	Crash recorded in driver sideairbag(Replace SRSCM)
B1490 💌	History	OCS(Occupant classification system)defet
B1388 💌	History	STPS(Seat track positiom sensor)-Driver open or short to battery
Save(F	1)	Freeze Frame(F2)

- Figure 5-11 Sample Code Screen
- 3. Press function key **Save** to store DTC information. Press function key **Freeze Frame** to view freeze data.

B1651		
Name	Value	Unit
Artbag firing condition(1 st stage)-Driver	NO FIRE	
Airbag firimg condtion(2nd stage)Dnver	NO FIRE	
Arbag firng condition(1 st	NO FIRE	
stage)-Passenger		
Airbag fring condition(2nd	NO FIRE	
stage)-Passenger		
Retractor pretensioner -driver		
Save(F1)		

Figure 5-12 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.

5.2.3 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.

Function Menu
ECU Information
Read Codes
Clear Codes
Live Data
Special Function

Figure 5-13 Sample Function Menu Screen

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

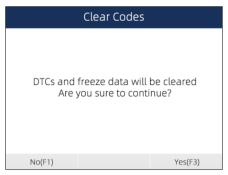


Figure 5-14 Sample Clear Codes Screen

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

5.2.4 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

5.2.4.1 Complete 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.

Function Menu
ECU Information
Read Codes
Clear Codes
Live Data
Special Function

Figure 5-15 Sample Function Menu Screen

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

	Live Data	
Complete List		
Custom List		

Figure 5-16 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 Dat	ta	
Name	Value	Unit
Alocation of oxygen sensorsOxygen sensor bank 2.sensor 4	Not installed	
Ambient air pressure	11.6	psi
Ambient air pressure Calculated oil temperature	21	psi
· · ·		psi
Calculated oil temperature	21	

Figure 5-17 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.

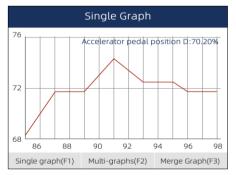


Figure 5-18 Sample PID Graph Screen

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

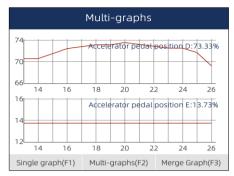


Figure 5-19 Sample Two PID Graph Screen

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

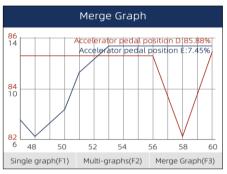


Figure 5-20 Sample Merge Graph Screen

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

5.2.4.2 Custom Data 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.

	Live Data
Complete List	
Custom List	

Figure 5-21 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 and	gle sensor-1(ESP o	nly)	11
	Steering and	gle sensor-2(ESP o	nly)	12
	Steering and	gle sensor-NESP or	nly)	13
	G-Sensor longitudinal		14	
	G-Sensor lateral 15		15	
	ABS warning lamp 16		16	
	BBD warning lamp 17		17	
S	elect All(F1)	Deselect(F2)	OK(F3)

Figure 5-22 Sample Custom List Selection Screen

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

	Live data		
Name		Value	Unit
Wheel speed se	nsor-Right front	1	mph
Wheel speed sensor-Left front		1	mph
Wheel speed sensor-Left rear		0	mph
Wheel speed sensor-Right rear		1	mph
Steering angle sensor-1(ESP only)		HGH	
Steering angle sensor-2(ESP only)		LOW	
Steering angle s	ensor-2(ESP only)	LOW	
Pause(F1)	Graph(F2)	Save(F3)

Figure 5-23 Sample Live Data Screen

5.2.5 Special Functions

Special tests are bi-directional diagnostic tests on anti-lock brake systems and air bags. 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 number, and type of tests will vary for each vehicle, year and components.

Typical special test options include:

- ABS Manual Control Tests allows to manually control the actuators in order to test ABS motors, solenoids, solenoid enable relays, EMBs, and more.
- ABS Motor Test allows to manually control the ABS pump motor.
- ABS Version Test displays the name of the brake system and the ABS controller version number, software ID, and sequence value.
- Actuator Tests allows to manually control the actuators in order to test AYC valves, inlet valves, outlet valves, pump motors, and TRACS valves.
- Auto Bleed Test, Automated Bleed, or Service Bleed removes air from the internal brake fluid chambers after servicing the brakes.

IMPORTANT

Before bleeding the brake system, make sure no diagnostic codes are present. Do not let the master cylinder run dry during the brake bleeding procedure.

A WARNING

After bleeding the brake system, check the brake pedal for excessive travel or a "spongy" feel. Bleed again if either condition is present.

- Automated Test automatically commands each solenoid valve and the pump motor on and off to test for proper operation.
- Brake Bleed Preparation Test prepares the brake lines for bleeding by clearing air from the modulator. The test rehomes all the ABS and TCS motors, cycles the TCS motors, and then returns all motors to the "home" position at the bottom of the bore.
- Function Test automatically commands the ABS relay, valve solenoids, and pump motor on and off to test for proper operation.
- Gear Tension Relief Test relieves tension from the ABS motor gears so you can separate the ABS motor pack from the ABS hydraulic modulator.
- Hydraulic Control Tests allows to manually engage and disengage the ABS solenoids for troubleshooting the hydraulic functions.
- Idle Up Manual Control Test allows to manually control the idle up actuators.
- Lamp Tests allows to manually control the ABS or TCS warning or indicator lamps.
- Motor Rehome Test prepares the brake lines for bleeding by clearing air from the modulator. The test returns all ABS motors to their "home" positions.
- Pump Motor Tests allows to manually control the pump motor.
- Relay Test allows to manually engage and disengage either the ABS or TCS relays in order to test relay operation.
- Requested Torque Test allows to manually control the engine torque to test for proper operation of the traction control system (TCS).
- Setup SDM Serial Number (Air Bag Sensing and Diagnostic Module) allows to program a new air bag serial number into the dash integration module (DIM). You use this test after installing a new air bag; otherwise a diagnostic trouble code will be set when you turn on the ignition.
- Solenoid Tests allows to manually control the inlet and output valve solenoids.
- System Identification displays information about the brake system, the vehicle, and the ABS controller.
- TCS Test allows to control the pump motor in order to apply fluid pressure to the front wheel circuits.
- Traction Control System (TCS) Manual Control Tests allows to perform motor tests and an adjuster assembly control test.
- Voltage Load Test "loads" the ABS battery supply circuit to test for adequate battery capacity.

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.

Function Menu
ECU Information
Read Codes
Clear Codes
Live Data
Special Function

Figure 5-24 Sample Function Menu Screen

2. A group selection screen, test selection screen, several step-by-step instruction screens, or bidirectional 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.

Special Function
ABS Manual Control Tests
ABS Motor Test
ABS Version Test
Actuator Tests
Autobleed Test

Figure 5-25 Sample Special Function screen

3. When completed, press the BACK key to return to previous screens.

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.

6 Maintenance

This section gives brief instructions of the most commonly required service and maintenance operations. Typical service operation screens are a series of menu driven executive commands. Follow on-screen instructions to complete the operation.

Available service and maintenance options include:

- Oil Light Reset
- EPB Service
- Battery Configuration
- DPF Regeneration
- TPS/TBĂ
- SAS Calibration
- CVT
- Gear Learn
- TPMS Programming Service
- Odometer
- Injector coding
- To start a test:

^{1.} Scroll with the arrow keys to highlight **Maintenance** from the main menu and press the **ENTER** key. A list of available services display.



Figure 6-1 Sample Main Menu Screen

2. Select a service to test and press ENTER key to start.

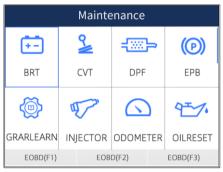


Figure 6-2 Sample Maintenance Screen

6.1 Oil Service Reset

Oil Light Reset menu allows you to reset the service lamps on the instrument cluster. The Service Indicator System is designed to alert the driver when the vehicle is due for a service.

Oil service reset methods are determined by the vehicle being tested.

- Oil Reset With One Button applicable to GM models only. It offers quick and simple oil service reset with the click of one button.
- Manual Reset almost all Asian vehicles and most American and European vehicles have mechanical oil service indicator reset. The service tool does not have to communicate with the vehicle being tested, but guides you to complete the service manually by providing step-by-step on-screen instructions. When Manual Reset is selected and the vehicle being tested identified, a procedure opens on the screen. Scroll with arrow keys to read the entire procedure and performing the necessary steps as directed by the on-screen instructions. The exact order of the test operation steps may vary depending on the test vehicle. Be sure to follow all on-screen instructions. The manual reset procedure can be interrupted and aborted if the ignition key position is changed.
- Auto Reset Auto Reset is a bi-directional communication procedure directed by the service tool. The service tool displays guides for you through the process. A number of instructions that require a response to continue display, including an option to clear any stored codes once the interval has been reset. Follow the on-screen instructions.

6.2 Electronic Parking Brake

EPB Service menu allows you to perform the service and maintenance of brake systems, including deactivation and activation of the brake control system, bleeding brake fluid, opening and closing

brake pads, and setting brakes after disc or pad replacement, on multiple brands of vehicles where electronic brake systems are fitted.

Some tests display a command to the operator. For example, if "Pressing Brake Pedal" displays, the operator has to press and hold the brake pedal and then continue. Actual tests vary by vehicle manufacturer, year, make.

Typical special test options include:

- Deactivate/Activate SBC/EPB systems allows to deactivate brakes for further service or maintenance work on brake systems or activate brakes when service or maintenance work on brake systems are completed.
- Adaptation on Audi A8 allows to set new pad thickness of rear brakes calipers after changing brake discs & pads on Audi A8 models.
- Replace hydraulic brake systems fluid/bleed brake system on Mercedes SBC vehicles allows to change brake fluid/bleed brake system.
- Perform service reset and service position on BMW EPB vehicles allows to do the CBS reset and CBS correction for front brake and rear brake.
- Perform activation/service work on Volvo PBM vehicles allows to perform installation check, applying parking brake, releasing parking brake, activating service mode and exiting service mode.
- Reset memory on Toyota EPB vehicles allows to clear the learned memory of the EPB ECU.
- Perform brake cable replacement and electric parking brake replacement allows to fit in or remove the brake cable safely, adjust brake cable's tension and calibrate the electric parking brake replacement.
- Save and write clutch pedal programming on Renault EPB vehicles allows to save clutch pedal programming on Renault vehicles fitted with manual gearbox. After this command is activated, the tool allows to "flash" the electric parking brake unit with the saved clutch data.
- Perform control function and reset function on Opel EPB vehicles allows to apply/release park brake cable service, provide park brake cable service replacement procedures and calibrate the parking brake systems after brake service.
- Sensor calibration on Honda EPB vehicles allows to program the current output value of each sensor into the electric parking brake unit.
- Provides parking brake unjam procedure and perform longitudinal accelerometer calibration on Land Rover EPB vehicles - allows to drive the electronic park brake so it is unjamed in the releasing direction and then drive it into mounting position or the latching position; also allows to perform longitudinal accelerometer calibration.

- EPB systems must be deactivated before carrying out any maintenance/service work on the brakes such as changing of pads, discs and calipers.
- Use proper tools to avoid the risk of body injuries of mechanics and technicians and damage to the brake system.
- Make sure the vehicle is properly blocked after deactivation of the systems.

6.3 Battery Replacement (BRT)

BRT menu lets you to n to validate new battery, clear faults from the dashboard and display current battery details of the vehicle such as Audi, BMW, Citroen, Peugeot, Seat, Skoda, Volvo, VW and Ford.

- 1. Replace the old battery with the new one. Ensure the key is not in the ignition.
 - 2. Connect the scanner to the vehicle's 16 pin Data Link Connector (DLC) with the diagnostic cable.
 - 3. Boost the device and select BRT; it will display all the vehicle makes available. Choose your vehicle make and follow the scanner instruction to start.
 - Sensor calibration on Honda EPB vehicles allows to program the current output value of each sensor into the electric parking brake unit.
 - Perform BRT on Citroen/Peugeot cars make several selections to confirm your car model, and then complete the battery replacement following on-screen instructions.

• Perform BRT on Audi/VW/Seat/Skoda cars - after communicating with vehicles, there's two options under Replace battery menu - Validate battery and Display data.

- Validate battery menu lets you to recode the new battery to the vehicle's ECU and to turn off dashboard warning lights. The on-screen instructions would guide you step by step to complete the replacement.

- Display Data menu lets you to check the battery information or battery replacement records
- Perform BRT on BMW/Volvo cars after making several selections to confirm your vehicle model, you can select Display data, Validate Battery or Clear codes from Function menu.

6.4 Diesel Particulate Filter (DPF) Regeneration

DPF Regeneration menu lets you perform the DPF cleaning to clear the blockage through continuous burning of the particulates captured in the DPF filter. When a DPF regeneration cycle is completed, the DPF light automatically goes off.

6.5 Throttle Body Alignment (TPS/TBA)

It's very common to see a customer pull into the shop with a Volkswagen or Audi that just will not idle correctly. One of the possible causes is that the throttle position is not known. When the motion range is not known, the ECU simply has no idea where to set the throttle. The ECU must know the full range of motion of the throttle in order for it to properly control the engine. Using the throttle position sensors in the throttle body, the ECU learns the full open and full closed positions through various states (idle, part throttle, WOT) known as a Throttle Body Alignment (TBA).

6.6 Steering Angle Sensor (SAS) Calibration

SAS Calibration menu let you perform calibration of the Steering Angle Sensor, which permanently stores the current steering wheel position as straight-ahead in the sensor EEPROM. On successful calibration of the sensor, its fault memory is automatically cleared.

6.7 Continuous Variable Transmission (CVT)

This function is used to reset the compensation code and initialize the ECT after a solenoid valve or valve body assembly has been replaced.

6.8 Gear Learning

The crankshaft position sensor learns crankshaft tooth machining tolerance and save to the computer to more accurately diagnose engine misfires. If tooth learning is not performed for a car equipped with Delphi engine, the MIL turns on after the engine is started. The diagnostic device detects the DTC P 1336 'tooth not learned'. In this case, you must the diagnostic device to perform tooth learning for the car. After tooth learning is successful, the MIL turns off.

After the engine ECU, crankshaft position sensor, or crankshaft flywheel is replaced, or the DTC 'tooth not learned' is present, tooth learning must be performed.

6.9 Tire Pressure Monitoring System Learning

TPMS Service menu allows you to check the tire sensor IDs from the vehicle ECU and to perform TPMS learning/relearning and reset after tires and/or TPM sensors are replaced and/or tires are rotated.

6.10 Odometer

This function allows you to revise the date of odometer and write the original date into new odometer.

6.11 Injector Coding

Write injector actual code or rewrite code in the ECU to the injector code of the corresponding cylinder so as to more accurately control or correct cylinder injection quantity. After the ECU or

injector is replaced, injector code of each cylinder must be confirmed or re-coded so that the cylinder can better identify injectors to accurately control fuel injection.

7 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.

8 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
- Beep Set
- Display Test
- Keypad Test
- About

8.1 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 8-1 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 8-2 Sample Language Selection Screen

8.2 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 8-3 Sample Settings Screen

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

	Unit	
Metric		
Imperial		
EOBD(F1)	EOBD(F2)	EOBD(F3)

Figure 8-4 Sample Unit Selection Screen

8.3 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 8-5 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.

Shortcuts				
Edt ShortOuts F1 Function				
Ecdt ShortCuts F2 Function				
Edt ShortCuts F3 Function				
VW(F1)	Toyota(F2)	Nissan(F3)		

Figure 8-6 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 8-7 Sample Shortcuts Screen

8.4 Configure Beeper

Selecting Beep Set opens a dialog box that allows you to turn on/off the beeper.

To turn on/off the beeper:

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



Figure 8-8 Sample Settings Screen

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

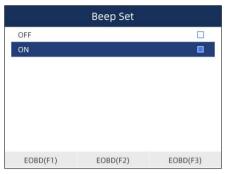


Figure 8-9 Sample Beeper On/Off Screen

8.5 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 8-10 Sample LCD Test Screen

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

8. 6 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 8-11 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 8-12 Sample Keypad Test Screen

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

8.7 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 8-13 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 8-14 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: <u>http://www.foxwelltech.us/support-detail-216.html</u> Step 2: <u>http://www.foxwelltech.us/support-detail-621.html</u>

8.1 Create a Foxwell ID

8.1.1 Register through Website

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

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.

.	64			
TMQ	Tools	Warnsety	Video	
sart	0	to actuate a Yourust product?		
ngistand" or "The senie currence does not exist"?		nat realise the Hertfordian Code?	~	
i Laansen NTIBBROG NTIBO NTIBOON (NTIBO	•	n to opinion Code Reader NT2012/NT2015		0
lans is interrupted or failed?		e standel do Pille spille for done i	orbanic avait ()	0
	0	cto fiel equicount passion?		
ng Nichthy Nicolfro Michiel and may not be	0	child the software version?		
and .				
	ng Alberhy Milozing Milozike waansay ne pe			



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.

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.

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



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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.

Foxwell.						
	Ny Padag 1 Papinet Potes 2 Papinet Ny Yong 1 Spin Pan 2 Septimen 3 Septimen	Menther Center Part (1997) Potanian : Distriction Potanian : Distriction Potanian : Distriction Assert Everyley Dischary 4		Par Procession 2012/12/12/12		
	Ny Robert 21 All Solver 22 Journal Sciences 21 Standy Core Stand 21 Standy Core Stand 21 Standy Core Stand					

Figure 8-5 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 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

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 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.

🗳 Setup - FoxAssist	
License Agreement Please read the following important information before continuing.	🔓 Foxwell,
Please read the following License Agreement. You must accept the terms of th agreement before continuing with the installation.	is
This is a legal agreement between you and Shenzhen Foxwell Technology Co. Ltd. (Foxwell hereafter) governing your use of Foxwell's diagnostic tools and website application (Collectively, the "Service").	,
Please read this Agreement carefully before registering. By using the Service agree to abide by all of the terms of this Agreement. If you do not agree to, cannot comply with this Agreement, please do not use the Service.	
1.Introduction to the service	-
I accept the agreement	
I do not accept the agreement	
Next >	Cancel

Figure 8-10 Sample FoxAssist Installation Screen



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

	Registered email or Forwe	- ×
Foxwell	Enter your Password	Retrieve Password
	Sign	
•		

Figure 8-11 Sample FoxAssist Main Screen

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

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

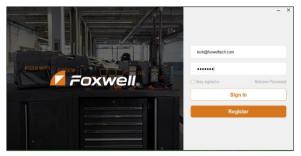


Figure 8-14 Sample Sign in Screen

8.2 Register Your Scanner

To register a scanner , you can either register on <u>www.foxwelltech.us</u> 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.

vell.						
	19, Padats	Mercleer Center				
		Bear Street Hilling own , Walkame I Priferingin : 2017/2019		A Neogle Internet		
	the Westman	Professioner: Children III.		New Yorking and the second second		
	11 Vanishin Baran	Assessed Describer				
	10 Description			-		
	Ny Balan	() tan 1 tan 4		C Land Land 1		
	0.545					
	a Annual Information					
	in Waldy Cardinal					
	in Speed					

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.

oxwell.						
	Ny Prantiana	Product Registration				
	1) Registered Products 11 New Registration	"Seld Number:				
	NJ, Mussee					
	11 Update News		Salaria Resal			
	11 Support Talacto					
	Ny Orders					
	11 All Dolars					
	Ny Posta					
	1. Percent Memotion					
	11 RotPassod					
	11 Multh Lise Brud					
	in Sprint					

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.

	Registered establiof Forwell D	- ×
🚺 🖊 🖉 Foxwell	O Stay signed in	Retrieve Password
	Sign in	
	Register	
	13 	

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.

GFoxAssist V1.01.002					-	х
🜈 Foxwell.	Activate					
🛓 Download	Serial Number	۲	Activate			
🌻 Activate 🕨 🕨	Activated					
	index	Serial Number	Product Type	Expiration Time		
오 Complaint	1	0.00057	170Pro	2022-12-13 17:02:24		×
🙃 Uninstall						
 Oninstall 		Please insert the SD ca	ard!			
🔹 Setting						
💄 User information						

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 P 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 *iso to launch the application*.
- 2. Connect the scanner with your PC via USB cable.
- 3. Log in with your Foxwell ID and password.

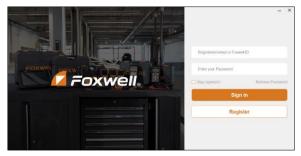


Figure 8-20 Sample Sign in FoxAssist Screen

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.

	Download		SN: NOTBOSSU002	me 🗎 🛗 🖁		\sim	>
- POXWella			SH. NURBOBSUD	3	31GB/7.44GB	45%	
	Upgrade			En	jish	Ŧ	
Lownload	O Name	Current Version	Updatable Versions	Size	State		
	HOME		V1.03.001 🖤	3.12MB	Ready		
Activate	Common Text Library		V1.00.001 💌	37KB	Ready		
	ABARTH		V1.10.009 💌	6.32KB	Ready		
Complaint Complaint	🙁 ALFA		V1.10.009 🔻	6.16KB	Ready		
	S AUTOVIN		V1.00.004 🖤	454KB	Ready		
Uninstall	S BMW		V1.30.002 🐨	17MB	Ready		
	S BWW		V1.10.006 💌	17MB	Ready		
Setting	S DACIA		V1.30.001 🖤	6.2KB	Ready		
	S DACIA		V1.10.007 💌	6.2KB	Ready		
User information	S FIAT		V1.10.009 🖤	36.9MB	Ready		
	🗐 GM		V1.30.001 💌	42.4MB	Ready		
	A 04		un 10 000 📼	42 5340	Doste		

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.

GFoxAssist V1.01.002						-	×
🖬 Foxwell。	Download		SN: N068069	000236 🗎 🗎 😚	31GB/7.44GB	45%	
	Upgrade			Eng	jish	Ψ	
🛓 Download 🛛 🖡	O Name	Current Version	Updatable Versions	Size	State		
	S HOME		V1.03.001 🖤	3.12MB	Ready		
Activate	Common Text Library		V1.00.001 🖤	37KB	Ready		
	O ABARTH		V1.10.009	6.32KB	Ready		
🖻 Complaint	🔮 ALFA		V1.10.009	6.16KB	Ready		
	AUTOVIN		V1.00.004 🛛 🔻	454KB	Ready		
Uninstall	S BMW		V1.30.002 🛛 🔻	17MB	Ready		
	S BMW		V1.10.008 🖤	17MB	Ready		
💿 Setting	O DACIA		V1.30.001 🖤	6.2KB	Ready		
	O DACIA		V1.10.007 🖤	6.2KB	Ready		
Luser information	○ FIAT		V1.10.009 🖤	36.9MB	Ready		
	⊖ GM		V1.30.001 🖤	42.4MB	Ready		
	0.04		1/1 10 000 📼	42 GMB	Doute		

Figure 8-22 Sample Upgrade Check Screen

6. 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.

7 Foxwell。	Download		SN:	N06.06.0012	36 🗎 🖁	31GB/7.44GB	45%
	Return						1/6
Download	🕙 Namo	Current Version	Updatable Ve	rsions	Size	State	
	S HOME		V1.03.001	Ŧ	3.12MB	Decompress	
Activate	S Common Text Library		V1.00.001	Ŧ	37KB	Decompress	_
	S ALFA		V1.10.009	Ŧ	6.16KB	O Done	
Complaint	S AUTOVIN		V1.00.004	Ŧ	454KB	Decompress	_
	S BMW		V1.30.002	Ŧ	17MB	Decompress	
Uninstall	S BMW		V1.10.008	Ŧ	17MB	Download Done	

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.

GFoxAssist V1.01.002					-	×
🗖 Foxwell。	Download		SN: N058069000236	G:/ 3.31GB/7.44GB	455)
🋓 Download 🔹 ►	Return			Size State	1/	
Activate	S DACIA	V1.30.1	001 V	6.2KB Oone		
🕿 Complaint	Download All software downloads a	an an an an fully.				
🖻 Uninstall	installed!	are successionly				
🏟 Setting	ок					
2 User information						

Figure 8-24 Sample Update Completed Screen

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

FoxAssist V1.01.002						-
🗖 Foxwell。	Download	Download		2236 🗎 🗎 🖁	B 3.31GB/7.44GB	
	Upgrade			En	jish	Ŧ
🛓 Download	O Name	Current Version	Updatable Versions	Size	State	
	O BMW	V1.10.008	V1.10.008 🔍	17MB	Ready	
Activate	O BUGATTI	V1.10.007	V1.10.007 🔍	6.26KB	Ready	
	O CHRYSLER	V1.20.008	V1.20.008 🔍	25.5MB	Ready	
🖻 Complaint	O DAEWOO	V1.10.004	V1.10.004 🔍	1.67MB	Ready	
	O DAIHATSU	V1.10.012	V1.10.012	1.22MB	Ready	
Uninstall	O EOBD	V1.10.005	V1.10.005	652KB	Ready	
	О ЕРВ	V1.20.005	V1.20.005	1.44MB	Ready	
Setting	O FERRARI	V1.10.006	V1.10.005 🖤	1.56MB	Ready	
	O FORD	V1.20.007	V1.20.007 🖤	17.1MB	Ready	
User information	O FORDEU	V1.20.007	V1.20.007 ¥	6.3KB	Ready	
	O HONDA	V1.10.011	V1.10.011 🖤	13.7MB	Ready	
		3/1 10 008	2/5 K0 608	SORME	Doste	

Figure 8-25 Sample Software Management Screen

47 NT650Elite Multi-Application Service Tool Manual_English_V1.02

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 support@foxwelltech.com or your local dealer for assistance.

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

FoxAssist V1.01.002		- ×
7 Foxwell。	Complaint	*
🛓 Download	* Subject	
Activate	* Scaner Please Select	~
🖻 Complaint 🕨 🕨	* Serial Number Please Belect	~
Uninstall	* Version	
🔹 Setting	* Car Brand	
2 User information	* VIN	
	* Year	

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.

🖬 Foxwell,	Uninstall		SN:N068069000236	圈	Internal Storogenic 3.5168/7.4468
🛓 Download	Uninstall	Current Version	Size	Status	
Activate	O ABARTH	V1 10 009	26.0468	Ready	
 Activate 	O ACURA	V1.10.011	26.0268	Ready	
👱 Complaint	ALFA	V1.10.009 V1.10.009	26.02KB 5.84MB	Ready Ready	
💼 Uninstall 🕨 🕨	O AUDI	V1.10.007	49.96KB	Ready	
	O AutoVin	V1.00.004 V1.10.006	1.18MB 115.32MB	Ready Ready	
Setting	O BRILBMW	V1.10.008	24.96KB	Ready	
LUSER information	O Bentley	V1 10 007	26.06kB	Ready	
	O Bugatti	V1 10 007	26.06KB	Ready	

Figure 8-27 Sample Software Uninstallation Screen

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

GFoxAssist V1.01.002	– ×
🗖 Foxwell。	Setting
📥 Download	Language Setting Izupan v Confirm
Activate	
오 Complaint	
🔋 Uninstall	
🖨 Setting 🕨	
2 User information	

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.

FoxAssist V1.01.002			-	×
🗖 Foxwell,	User Informatio	'n		
🛎 Download	Edit			
Activate	First Name	He		
	Middle Name			
🖴 Complaint	Last Name	Xin		
	Company			
💼 Uninstall	Telephone	755		
	Fax			
Setting	Address			
	City			
Luser information►	State/Province			
	Country	China		
	Zip Code			

Figure 8-29 Sample User Information Screen