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

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

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consequential damages, so certain of the above limitations or exclusions may not apply to you (the Consumer). This limited warranty gives the Consumer specific legal rights and the Consumer may also have other rights which vary from state to state.

Safety Information

For your own safety and the safety of others, and to prevent damage to the equipment and vehicles, read this manual thoroughly before operating your tool. 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.

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 tool as described in the user's manual, and follow all safety messages.

- 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 tool 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 are the conventions we used in the manual.

1.1 Bold Text

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

Example:

Select Diagnostic from the Home screen of the i53BT application.

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 VIN hotkey is selected, a menu that lists all available options displays. Menu options include:

- Automatic Read
- Scan VIN
- Manual Entry

1.2.2 Arrow Icon

An arrow icon indicates a procedure.

Example:

To connect to wall plug:

- 1. Connect the USB Type-C charge cable to scanner and plug it to the wall socket.
- 2. Press the power switch of the scan tool to power it on; meanwhile the scanner tool starts charging automatically also.

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 scanner as water might find its way into the scanner.

2 Introduction

i53BT is newly developed diagnostic scanner with 5.5 inch TFT touch screen and Android 9.0 operating system that delivers OE-level diagnosis for different car brands and supports the most commonly required service and coding features. Through hardware and software upgrades, technical staff and enthusiasts can now approach problems with greater speed and accuracy.

2.1 Scanner Descriptions

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





- (1) **5.5" TFT LCD Touch Screen** shows menus, test results and operation tips.
- 2 **Power Status Indicator** indicates the power status of the scanner.



Figure 2-2 Top View

- ③ **Power Switch** turns on the scanner, goes to sleep mode or wake up the scanner from sleep mode. Press and hold for 3 seconds for start or emergency shutdown. Double click to screenshot.
- (4) **USB Type-C Port** connects to wall plug to charge the scanner and can be used for data transfer.
- 5 **USB Type-A Port** provides a USB connection for the external storage devices.

IMPORTANT

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

2.2 VCI Dongle Descriptions

i53BT connects to the vehicle and get data through the VCI dongle either by Bluetooth or USB communication.



Figure 2-3 Front View of VCI dongle

- 1 **Running Light** flashes during normal operation, and stays on or off when abnormal.
- 2 **Communication Light** is always on when VCI connect to device via Bluetooth or USB, and flashes when sending data.
- 3 Power Light turns to red when powered on.

2.3 Accessories

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.



Table 2-1 Accessories

2.4 Technical Specifications

Item	Description
Screen	5.5" TFT Capacitive LCD screen; 1280*720 pixel
Operation System	Android 9.0
Processor	Quad-core, 1.3GHz
Memory	1GB
SSD Hard drive	32GB
Communication interface	Built-in WIFI 802.11 b/g/n Wireless LAN USB2.0 OTG/standard USB 2.0 HOST Bluetooth specification v2.1+EDR; Bluetooth 4.0 Low Energy (LE) (10-20 m)
Built-in Battery	4000mAh, Lithium-polymer battery, chargeable via 5V USB power supply
Protocols	ISO9141-2, ISO14230-2, ISO15765-4, K/L lines, Double K Line SAE-J1850 VPW,SAE-J1850PWM,CAN ISO 11898, High-speed, Middle-speed, Lows-peed and Single wire CAN,

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KW81, KW82, GM UART, UART Echo Byte Protocol, Hon Diag-H Protocol, TP2.0, TP1.6, SAE J1939, SAE J1939, S/ J1708,Fault-Tolerant CAN,CAN FD, DOIP	
Working Temperature	-10 to 70°C
Storage Temperature	-20 to 80°C
Operating Humidity	5%-95% Non-Condensing
Dimensions	236*124*38mm (L*W*H)
Weight	0.87kg (Main unit)

Table 2-2 Technical Specifications

3 Getting Started

This section describes how to power on/down the scanner, provides brief introductions of applications loaded on the scanner and display screen layout of the scan tool.

3.1 Powering up the Scanner

Before using the i53BT applications (including updating the scanner), please make sure to provide power to the scanner.

The unit operates on any of the following sources:

- Internal Battery Pack
- External Power Supply

3.1.1 Internal Battery Pack

The tablet scanner can be powered with the internal rechargeable battery. The fully charged battery is capable of providing power for 5 hours of continuous operation.

NOTE

Please turn off the tablet to save power when not use.

3.1.2 External Power Supply

The tablet can also be powered from a wall socket using the USB charging adapter. The tablet also charges its internal battery pack through USB Type-C cable.

3.2 Shutting Down the Scanner

All vehicle communication must be terminated before shutting down the scanner. Exit the Diagnostic application before powering down.

To shut down the scanner:

- 1. Press and hold the Power button of the scanner for 3 seconds.
- 2. Click the **Power off** to shut down or **Reboot** to restart.

3.3 Screen Layout of Home Screen

After the scanner turning on, the screen show main menu of the application.



Figure 3-1 Sample Home Screen

3.3.1 Application Menu



Figure 3-2 Sample Main Menu of Application

This section briefly introduces the applications that are preloaded into the scanner:

- **Diagnostic** leads to test screens for diagnostic trouble code information, freeze frame, live data and ECU information.
- Update leads to screens for Foxwell ID registration and updating the scanner.
- Data Manager leads to screens for saved screenshots, pictures and test reports, and playing back live data, as well as debug logging data.

- **My Account** displays your Foxwell ID information like registered products and personal information and allows for sending us feedbacks about the scanner.
- Settings leads to screens for adjusting default settings to meet your own preference and view information about the scanner.
- **Remote Control** leads to TeamViewer to get remote support from Foxwell team or remote vehicle diagnostic.
- Functions Query the functions of model supported by the scanner.
- Firmware Update VCI firmware update.
- VCI Manager VCI manage (VCI binding, unbinding, re-scan vehicle software).

3.3.2 Diagnostic Menu

Touch **Diagnostic** at the i53BT application menu, and the Diagnostic menu will display. The operations of the buttons of Diagnostic menu are described in the below table.



Figure 3-3 Sample Diagnostic Menu Screen

No.	Name	Description
1	Back	Back to the previous screen.
2	Home	Back to the Application Menu.
3	VIN	Shortcut for VIN reading menu, which typically includes Automatic Read, Scan VIN and Manual Entry.
4	Search	Lets you search a vehicle make quickly.
5	History	Displays the tested vehicle records.

6	Area	Displays car makes from different origins like America, Asia, Europe and Chinese.
7	Quick Location	Allows you to find a vehicle by initials.

Table 3-1 Title Bar of Diagnostic Menus

4 My Account

This section introduces user account registration, login, device activation and other information.

When **My Account** application is selected, a menu with available options displays.

My Account Menu options typically include:

- My Account
- My Products
- Feedback and Suggestions

	My Account	VC6 🛜 100% 🗃 08:02
My Account		>
My Products		>
U Feedback and Sugges	stions	>
	Sign In	

Figure 4-1 Sample My Account Screen

4.1 Registration

You are allowed to create a Foxwell ID with the built-in client.

To register with built-in client:

1. Press **My Account** or **Update** from home screen of i53BT diagnostic application, the user login page will show, then press **Free registration** button to register an account.

•			VC6 奈 100% 🔒 08
	R Email or Foxwell ID		
	Password		
	Stay signed in	Forget password	
	Sig	n In	
	Free reg	istration	

Figure 4-2 Sample Update Client Main Screen

 Enter the User Name (use one of your existing mail addresses as user name), and press Send Code button for get a verification code, Foxwell will send a 4-digit verification code to the email you just entered.

	Register User	KC 🖗 🛜 100% 🖬 08:11
User Name•	@foxwelltech.com	
	The email is available for registration!	
Verification Code•	2914	Sent(10S)
	0	
Password*		
	The password contains at least one letter and a number, and is 6-16 bits long.	
	Password Strength: Weak	
Confirm Password		
	0	
	By creating an account, you agree to Eoxwell's Conditions of Use and Privacy Notice.	
	Free registration	

Figure 4-3 Sample ID Registration Screen

3. Get the security code in your mailbox, input the code as verification code. Then create a password and click **Free Registration** to complete.

•	Register User	ሥር¦ 奈 100% 🕯 08:11
User Name*	@foxwelltech.com	
	The email is available for registration!	
Verification Code*	2914	Sent(10S)
	0	
Password*		
	The password contains at least one letter and a number, and is 6-16 bits long.	
	OPassword Strength: Weak	
Confirm Password*		
	0	
	By creating an account, you agree to Foxwell's Conditions of Use and Privacy Notice.	
	Free registration	

Figure 4-4 Sample ID Registration Screen

4. "The account has been created successfully" message will appear if you registered successfully.

		KG 🛜 100% 🗟 08:15
User Name-	lianghua@foxwelltech.com	
Verification Code•	Completed	Send code
Password	The account has been created successfully!	
Confirm Password-	ОК	
	O By creating an account, you agree to <u>Foxwell's Conditions of Use and Privacy Notice</u>	L.
	Free registration	

Figure 4-5 Sample Registration Done Screen

5. The serial number will show after registration. Click **Submit** to activate the product or press **S** to back.

	My Pro	oducts	KC 🕫 🕫 06:30
S/N	Activation	S/N Management	
	· · · · · · · · · · · · · · · · · · ·		
	Sut	omit	

Figure 4-6 Sample Product Activation Screen

4.2 Sign in

Press **My Account** or **Update** from home screen of i53BT diagnostic application, the user login page will show, enter your FOXWELL ID and password, and press **Sign in** button to sign in.



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4.2.1 Product activate

If you are logging in for the first time, it will prompt and guide you to activate the current device while sign in successfully.

▶ To activate product

1. Press OK button to activate product and press Cancel to back.



Figure 4-8 Sample Product Activation Screen

2.Click Submit to continue the activation and press So to give up activation.

Activate Serial Number	🛯 🐔 🖘 🕯 04:41
Submit	

Figure 4-9 Sample Product Activation Submit Screen

3. "Product is activated successfully" message will appear if activate successfully.



Figure 4-10 Sample activate success Screen

4.3 My Account

My Account option allows you to check and modify or complete your account information including user name, e-mail, telephone, address and so on.

	My Account	100% 🖗 100% 🔒 08:40	
My Account	•	My Account	VC6
My Products	User Name		lianghua@foxwelltech.com
Push Message	First Name		
Feedback and Suggestions	Last Name		
	Email		lianghua@foxwelltech.com
_	Phone		
	Address		
			Modify Back

Figure 4-11 Sample My Account Screen

4.4 My Products

This option let you activate a new product and manage activated products including serial number and expiration date.

•	My Ac	count	🖋 🧟 🕫 🕸 دوني 🖉 🖉
	S/N Activation	S/N Management	
	Serial Number		
	Sub	mit	

Figure 4-12 My Product Screen

4.5 Feedback and Suggestions

This option allows you to log on your e-mail and send feedback and suggestions about Foxwell products.

▶ To send feedback and suggestions about Foxwell products:

- 1. Press My Account from home screen of the i53BT diagnostic application.
- 2. Press **Feedback and Suggestions** option to show Feedback page, there are two options--Diagnosis Feedback and General Feedback.

	Feedback and Suggestions	KC 🛜 100% 🖻 08:45
Diagnosis Feedback General Feedback	All the time	 Input key words Q
Diagnosis Feedback 🕒		
	Select All	Deselect Delete Cancel

Figure 4-13 Sample feedback record Screen

3. Select **Diagnosis Feedback** or **General Feedback** for creating a feedback. Select the type of error and some necessary content and problem description or attachments. Press **Save** button to save the feedback. Or press Email button to send if you have an email account.



Figure 4-14 Sample Feedback Edit Screen



Figure 4-15 Sample Email Select Screen

5 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. You can register both on Foxwell website or by the built-in update client.

NOTE

Before registration and updating, please make sure your network works correctly and the tablet is fully charged or connect to external power supply.

5.1 Automatic Update

When the automatic update is enabled, an update symbol is displayed in the upper right corner if any software version is released.

• • •)	Q Search	VC6 🛜 100% 🔮 08:51		
History	History		ABARTH	ACURA	
All 🕨	DEMO	OBDII	ADARTH	ACURA	
America	ALFA	ASTONMARTIN	AUDI	BAICHUANSU	
Asia	<				
Europe		BAICSENOVA	BAICWEIWANG	BENTLEY	
China					
	BJEV	BMW	BRILBMW	BRILLIANCE	

Figure 5-1 Sample Automatic Update Screen

- To automatic update or refer to 12.7 Automatic Update:
 - 1. Press **Settings** from home screen of the i53BT diagnostic application.
 - 2. Select Automatic Update, then set automatic update notice enable.

5.2 Manual Update

To update the diagnostic application:

- 1. Press **Update** of i53BT diagnostic application, and the update client starts up automatically.
- 2. The available updates display. Click the check box(s) in front of the software you wish to update and then click the **Update** button to download.
- 3. When all the items are updated, an "Update Done" message displays.

NOTE

Please make sure your network works correctly and the tablet is fully charged or connect to external power supply.

•		Update		VC4 *	후 ४५% 🗳 ०९:०
ASTONMARTIN	V1.40.003 🔻	2MB	2021/06/12	Update content >	Upgrade successful
2 AUTOVIN	V1.10.005 🔻	1MB	2021/06/12	Update content >	Upgrade successful
FERRARI	V1.40.005 🔻	3MB	2021/06/12	Update content >	Latest
4 LEXUS	V1.45.001 🔻	10KB	2021/06/12	Update content >	Latest
MASERATI	V1.40.005 🔻	3MB	2021/06/12	Update content >	Upgrade successful
	V1 21 002 💌	OMP	2021/06/12	Undate content >	Upgrade
0 software updates Serial number:005011000231			Re	efresh Upgrade All	Back

Figure 5-2 Sample Update Screen

6 VCI Manager

VCI Manager is used to unbind and bind the VCI. When the VCI needs to be replaced, you need to use this function to unbind the old VCI and re-bind the replaced VCI.

Even if the VCI is not replaced, the existing VCI device will be automatically unbound when unbinding, then the existing VCI will be automatically bound, and the software of all vehicles in the device will be rescanned and refreshed, and finally the APP will be restarted.

VCI unbind & rebind:

1. Click VCI Manager application on the i53BT home screen.

2. After clicking Unbind a VCI dongle, it will display whether to unbind the current VCI. When clicking OK, it will execute unbind, rebind, and refresh the vehicle.



Figure 6-1 Sample Unbind a VCI dongle



Figure 6-2 Sample Unbinding Confirmation Prompt



Figure 6-3 Sample Unbinding Current VCI



Figure 6-4 Sample Bind New VCI Successfully



Figure 6-5 Sample Rescan Vehicle Software

7 Firmware Update

This application allows you to update the firmware of i53BT.

▶ To update the firmware:

- 1. Click the Update application on the i53BT home screen.
- 2. Check and download the firmware package.
- 3. After the download is completed, it will automatically jump to the **Firmware Update** function module.
- 4. Check the battery level to ensure that the battery level should be greater than 20%.
- 5. It will start update automatically if there is an update available. If update failed, please follow the on-screen instructions to troubleshoot and repeat the update.



Figure 7-1 Sample Firmware Update Screen

6. "VCI firmware successfully message" will appear if update successfully.



Figure 7-2 Sample Firmware Update Successfully Screen

NOTE

If there is a firmware update available, the update file will be downloaded and saved automatically when you try to update the diagnostic software. And you will be prompted to upgrade the firmware.

8 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. 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:

- VIN Reading
- Manual Selection

NOTE

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

8.1 Vehicle Connection

- To connect to vehicle:
- 1. Locate the data link connector (DLC). The DLC is generally located under the dash on the driver side of the vehicle.



Figure 8-1 Sample Vehicle Connection Screen

- 2. Plug the VCI to the vehicle DLC directly.
- 3. Switch the ignition key to the ON position.
- 4. Boot up the scanner, launch the diagnostic APP and make Bluetooth pairing of the VCI dongle and tablet.
- 5. Check if the connection indicator turns to green. If yes, it means the scanner is ready to start diagnosis.



Figure 8-2 Sample Scanner Connection Ready Screen

8.2 VIN Reading

VIN button **(P)** on the title bar is a shortcut for VIN reading menu, which includes **Automatic Read**, **Manual Entry**, eliminating the need for navigating through complicated car identification process.

		VIN	VC6 🛜 100% 🗿 08:58
1 Auto	matic Read		
2 Man	ual Entry		

Figure 8-3 Sample VIN Hotkey Screen

8.2.1 Automatic Read

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

- To identify a vehicle by Automatic Read:
 - 1. Select **Diagnostic** from home screen of the i53BT application.
 - 2. Click VIN and choose Automatic Read from the option list.
 - 3. When the scan tool builds connection with the vehicle, the VIN number displays. If the Vehicle Specification or VIN code is correct, press the **OK** to continue.

			VC' 🛜 100% 🛿 08:59
1	Automatic Read		
2	Manual Entry		-
		Scanning protocol:TP2.0(500K)	
		Cancel	

Figure 8-4 Sample Automatic Read Screen

4. 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.

\$	VIN	VC 🛜 100% 🗋 09:00
Automatic Read		
Manual Entry	Manual Entry	
	The VIN number of the vehicle is not identified. Please input the VIN manually.	
	VIN	
	OK Cancel	

Figure 8-5 Sample Manual Entry Screen

8.2.2 Manual Entry

Manual Entry allows to identify a vehicle by inputting VIN manually.

- To identify a vehicle by Manual Entry:
 - 1. Select **Diagnostic** from home screen of the i53BT application.
 - 2. Click VIN and choose Manual Entry from the option list.
 - 3. Press Keyboard button to input a valid VIN code and press **OK** to continue.

\$				VC' 😤 100% 🛍 09:06
Automatic Read				
Manual Entry	Manual Entry			
	VIN			
		ок	Cancel	

Figure 8-6 Sample Manual Entry Screen

8.3 Manual Selection

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

- Smart VIN
- Manual Selection

	BMW V2.30.009	0.0V	A	•	ē	-	KC 🛜 100% 🖁 09:07
Start Nei	v Session						
Small	artVIN						
2 Mar	ual Sele	ction					

Figure 8-7 Sample Vehicle Entry Screen

8.3.1 Smart VIN

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

▶ To identify a vehicle by Smart VIN:

- 1. Select **Diagnostic** from home screen of the i53BT application.
- 2. A screen with vehicle manufacturers displays. Select the area where the vehicle manufacturer from. A menu of all vehicle manufacturers displays. Or tap the Search box to search the car you are to test.

• • •		Q Search	VC¦ 奈 100% 🖻 09:08		
History	DEMO	OBDII	ABARTH	ACURA	
All 🕨	DEMO	OBDI	ABARTH	ACORA	
America	ALFA	ASTONMARTIN	AUDI	BAICHUANSU	
Asia	<				
Europe	BAICMOTOR	BAICSENOVA	BAICWEIWANG	BENTLEY	
China					
	D IEV	DMM		DUILLIANCE	
	BJEV	BMW	BRILBMW	BRILLIANCE	

Figure 8-8 Sample Vehicle Selection Screen

3. Choose SmartVIN option to start reading the VIN automatically.

			0.0V		ŧ.				VC 🛜 🗇 100% 🖁 09:12
		Session							
٥	Sma	irtVIN							
2	Man	ual Selec	ction			Read			
	$\frac{N^{1}\mathcal{L}}{\mathcal{P}_{1N}}$ Reading VIN number								

Figure 8-9 Sample Smart VIN Screen

4. After the scan tool builds connection to the vehicle, the VIN number displays. If the Vehicle Specification or VIN code is correct, press the **OK** to continue. If incorrect, please enter a valid VIN number manually.

8.3.2 Manual Vehicle 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. Select **Diagnostic** from home screen of the i53BT application.
 - 2. A screen with vehicle manufacturers displays. Select the area where the vehicle manufacturer is from. A menu of all vehicle manufacturers displays. Or tap the **Search** box to search the car you are to test.
 - 3. Choose Manual Selection option from the list.
 - 4. On each screen that appears, select the correct option until the complete vehicle information is entered and the menu of controller selection displays.

5 BMW 12.30.009	A	٠	ē	F	2	VC:	🌩 100% 🗎	09:28					
Start New Session	BMW V2.30.009	i	A	٠	8				VC 6 🤗	h 100% 🔒 09:	25		
SmartVIN	Start New Session > Series		BWW		h :	•	ē		2		VC 4 🤤	100% 🔮 09.29	
Manual Selection	Search History :	Start New Sess	sion > Series > Model	setes 🔸	8MW V2.30.009	0.07	•		٠	8	-	2	VC' 🗢 100% 🛙 09:31
	1 Series	Search H	listory :	Start New	w Session > Serie	s > Model series	> Main Groups						
	2 2 Series	E30		🖬 Qu	lick Scan								
	3 Series	2 E36		2 Co	ontrol Moc	lules							
	4 Series	3 E46											
	5 Series	4 E90/E	91/E92/E9	3									

Figure 8-10 Sample Manual Vehicle Selection Screen

8.4 Vehicle History

Vehicle History keeps records of tested vehicles and allows restarting the diagnosis of a vehicle without the need to do vehicle identification again.

- To identify a vehicle by Vehicle History:
 - 1. Select **Diagnostic** from home screen of the i53BT application.
 - 2. Select **History** button at the top of the diagnostic page and the diagnostic records will display.



Figure 8-11 Sample History Record Screen

- 3. Choose the vehicle model you want to test from the list.
- 4. Click the Diagnostic button at the bottom bar to go to vehicle test page.

	Vehicle History	Ki 🛜 100% 🖬 09:52
Title		
3 Series_E36		
Customer Information		
First Name :	Last Name :	Client
Vehicle Information		
Year :	VIN :	
Brand : BMW	Mileage :	
Model : 3 Series_E36	Area :	
Sub-Model :	Plate Number :	
	Diagnostic	Edit Delete Back

Figure 8-12 Sample History Record Screen

9 Diagnosis

This section illustrates how to use the scanner to read and clear diagnostic trouble codes, view live data readings and ECU information on controllers installed, perform special functions such as actuation and coding, and perform vehicle services on Asia, European, China and USA vehicle brands.

9.1 Vehicle Identification

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

		DEMO V1.10.010	0.0V	A	\$ 8	•	Z	VC 🛜 🖘 100% 🖬 09:55
Select A	pplicat	tion > Diag	nosis					
1 Qu	lick	Scan						
2 Co	ontro	ol Moc	lules					

Figure 9-1 Sample Diagnosis Screen

NOTE

Not all identify options listed above are applicable to all vehicles. Available options may vary by the year, model, and make of the test vehicle.

9.1.1 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 a few minutes to complete the test.

To perform an automatic system scan:

- 1. Press Quick Scan option to start.
- 2. To pause the scan, press the **Pause** button on the screen.

DEM0 V1.10.010	* =	•	KC 🗧 🕫 100% 🖬 09:56
Select Application > Diagnosis > Quick Scan	66%		
System Name	00%	Status/Count	
AIRCON(Air conditioner)		Fault 4	
EPS(Motor driven power steering)		Fault 8	
BCM(Body control module)		Fault 12	•
ABS/ESP(ABS/ESP)		Scanning	
VIN : Car Information : DEMO		Pause Sav	e Report Erase

Figure 9-2 Sample Quick Scan Screen

3. At the end of successful automatic controller scan, a menu with a list of **DTC** displays and click ▼ button to the right to view DTC descriptions.

	DEMO V1.10.010	i.	*		Ē	-		VC ' 🧟	° 100% 🖻 09:58	
Select Applic	cation > Diagnosis	i > Quick Scan								
System N	lame			Status/Count						
Engine(Engine control)					•					
2 Airl	2 Airbag(Airbag control)									
ID	Sta	atus		Description						
B1651	Act	ive		Crash recorded i	n driver side airb	ag(Replace SR	SCM)			
B1490	His	tory		OCS(Occupant classification system) defect						
B1388	His	tory		STPS(Seat track	position sensor)-Driver open or	short to battery			
VIN : Car Informati	on : DEMO						Save	e Repo	rt Erase	

Figure 9-3 Sample Quick Scan Complete Screen

 Press Report to create an overview of installed control units and their system status, or press Save to save the report. Press Erase to clear the information.
		Ō						6				00% 📓 09:59
		is> Quick	Scan									
1 Eng	gine(Engi	ne c									_	-
2 Airl	bag(Airba	ag co		e Num	ber							*
ID		tatus	Colo	or								
	A	ctive	Stat	us			U	nset status			•	
B1490	н	istory							ок	Can	ncel	
B1388	н	istory			STP	S(Seat trad	k position ser	nsor)-Driver	open or sho	rt to batte	N.	

Figure 9-4 Sample DTC Save Screen

◆ DEMO		\$ 100% 🖻 10:06
Select Application > Diagnosis > Quick Scan		
System Name	Status/Count	
Engine(Engine control)	Fault 5	•
 Airbag(Airbag control) 	Fault 3	•
In AIRCON(Air conditioner)	Fault 4	•
EPS(Motor driven power steering)	Fault 8	•
BCM(Rody control module) VN: Car Information : DEMO	Fault 12 Save R	eport Erase

Figure 9-5 Sample Report Screen

DEM0 V1.10.010	# 🖶		VC 🛜 100% 🖬 10:05
Select Application > Diagnosis > Quick Scan			
System Name		Status/Count	
Engine(Engine control)		Pass No Fault	
Airbag(Airbag control)		Pass No Fault	
3 AIRCON(Air conditioner)		Pass No Fault	
EPS(Motor driven power steering)		Pass No Fault	
BCM(Body control module) Vin: Garliformation - DEMO		Pass I No Fault	Report Erase
Car intormation : DEMO			

Figure 9-6 Sample Erase Screen

5. When running auto scanning, you can press **Pause** and select the system you would like to test. When the scanner has established connection with the vehicle, the Function Menu displays.

DEMO 000	٠	ē	*		VC	奈 100% 🔒 1	0:07		
Select Application > Diagnosis > Quick Scan		DEMO V1.10.010	0.07	A	٠	8	-	Z	VC' (😤 100% 🛢 10:09
System Name	Select App	lication > Function I	Vienu						
Engine(Engine control)	1 Rea	d Codes							
2 Airbag(Airbag control)	2 Cle	ar Codes							
AIRCON(Air conditioner)	3 Live	e Data							
EPS(Motor driven power steering)	d ECU	J Informati	on						
VN : Cer Information : DEMO									

Figure 9-7 Sample System's Function Menu Screen

9.1.2 Control Modules

Control Modules displays all controllers available of the vehicle manufacturer. The controllers listed on the menu do not mean that they are installed on the vehicle. It is useful for technicians who are familiar with the vehicle specifications.

► To select a system to test:

1. Press **Control Modules** from the menu and a controller menu displays.

¢	DEM0 V1.10.010	0.0V	A	•	ē	•	VC ? 1009	10:10
Select Applie	cation > Diagnos	is > Control N	lodules					
Search	History :						Search	٩
Engi	ne							
Airba	ag							
3 AIRC	CON							
4 EPS								
5 BCN	1							

Figure 9-8 Sample Control Modules Screen

2. Select a system to test. When the scanner has established connection with the vehicle, the **Function Menu** displays.

	DEMO V1.10.010		A	•	8	-	VC¦ 奈 100% 8 10:11
Select Appli	cation > Diagnos	iis > Control Modul	ies > Engine > Fun	ction Menu			
Read	d Codes						
2 Clea	r Codes						
3 Live	Data						
4 ECU	Informat	tion					

Figure 9-9 Sample Function Menu Screen

9.2 Diagnostic Operations

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

- Read Codes
- Clear Codes
- Live Data
- ECU Information

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.

9.2.1 Read Codes

Read Codes menu lets you read trouble codes found in the control unit. There are 4 types of code status:

- Present/Permanent/Current
- Pending
- History

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

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

History codes are also referred to as past codes that indicate intermittent DTCs that are not currently active. Code history is number of engine starts since DTC(s) were first detected (to see if they are current or intermittent).

To read codes from a vehicle:

 Press Read Codes from Select Diagnostic Function menu. A code list including code number and its description displays. The red icon ⁽²⁾ means there is help information available for the code. The green icon ⁽³⁾ means there is freeze frame available.

	DEMO V1.10.010	0.0V	÷ •	📑 🎦 🖉 VC6 😤 100% 🛱 10:12
Select Appli	ation > Diagnos	is > Control Modules :	> Engine > Function Menu > Troubl	e Codes
ID			Status	Description
1 <u>P00</u>	<u>30</u> *	0	Active	HO2S heater control circuit bank 1 sensor 1
2 <u>P20</u>	96 *	0	History	Post catalyst fuel trim system too lean bank 1
3 <u>P01</u>	<u>30</u> *	0	Active	02 sensor circuit bank 1 sensor 1
4 <u>P06</u>	<u>16</u> *	0	History	Starter relay circuit low
5 PO3 VIN : Car Informati		0	Active	Orankshaft position sensor A circuit Freeze Frame Help Save

Figure 9-10 Sample Trouble Code Screen

• Freeze Frame - select one fault code from the code list and click Freeze Frame button at the bottom bar. The screen will display freeze frame detail 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.

► DEMO V1.30.010 000 ● ●	•	KC 🕫 100% 🖬 10:14
Select Application > Diagnosis > Control Modules > Engine > Function Menu > Trouble Codes > 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 Vin: car information: DEMO	90	ka/h Save

Figure 9-11 Sample Freeze Frame Screen

• **Help** - select one fault code from the code list and click **Help** button on the screen. The screen will display the detailed descriptions about the fault code and repair guide.

•	DEM0 V1.10.010	0.0V	Â.	•	Ē		Ø		VC₀	∞ 🖬 10:15
Select Applie	ation > Diagno	sis > Cor	rol Markiles - Engine - En	notion Manu > Tra	ebla Padar					
ID					P0030					
1 <u>P00</u> :	<u>30</u> \$: 0	[General Infor The normal o	perating te					1 sensor	1
P20	96 \$	• @	Oxygen Sense 1562°F). The of time requir	HO2S hea red for fue	iter greatly I control to	decrease become	s the amou active. The	e 1	o lean bar	nk 1
3 <u>P01</u> :	<u>30</u> \$	• @	PCM provides adjust current When the HO	t through t 2S is cold,	he heater. the value	of the resi	stance is		1	
4 <u>P06</u>	16 \$	• ⑦	low and the c if the tempera				or rises, th	e		
L							ок	-1		
5 P03	15 9	0	Active	2	Cranks	shaff nosif	ion sensor	A circ	auti	
VIN : Car Informati	an : DEMO						Freeze F	rame	Help	Save

Figure 9-12 Sample DTC Help Screen

- 2. Slide up and down to view additional information when necessary.
- 3. Press **Save** to store DTC information. Press 🖻 to print the information if

need be. Press 🕥 to exit.

9.2.2 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. Press Clear Codes from Select Diagnostic Function menu.

	ł	DEMO V1.10.010	v	A	•	Ð	F	Z	₩℃ 奈 100% 🖬 10:22
Se	lect Appl	ication > Diagno	osis > Control Mo	dules > Engine > Fur	ction Menu				
٥	Rea	d Codes							
2	Clea	ar Codes							
3	Live	Data							
4	ECU	I Informa	ition						

Figure 9-13 Sample Function Menu Screen

Follow the on-screen instructions and answer questions about the vehicle being tested to complete the procedure. 3. Check the codes again. If any codes remain, repeat the Clear Codes steps.

9.2.3 Live Data

Live Data menu lets you view real time PID data in text and plot formats, learn good sensor data and compare them with faulty data, and record live data from a selected vehicle electronic control module.

There are two ways to select the PID data of control module:

- All Data
- Custom List

		DEMO V1.10.010	0.07	A	•	8	-	VC's 🛜 100% 🖻 10:23
Se	lect Applic	ation > Diagnos	is > Control Mod	ules > Engine > Functio	on Menu			
٥	Read	Codes						
2	Clear	Codes						
3	Live	Data						
4	ECU	Informat	tion					

Figure 9-14 Sample Function Menu Screen

9.2.3.1 All Data

All Data menu lets you view all live PID data from a selected control module.

- To view all live PID data:
 - 1. Press **Select ALL** for select all live PID data and press **Deselect ALL** to deselect all items.

		DEMO V1.10.010	0.00		٠	Ð	F	Z	VC'	⁰⁵ 🖻 10:25
0	Jelect Appli	cation > Diagnos	iis > Control Mo	dules > Engine > Funct	ion Menu > Custor	n list				
1	MIL	status in	dicator(N	/IL by DTC)						0
2	Batt	ery voltaç	je							0
3	Engi	ne coolir	ng fan-Lo	w						0
4	Boo	st pressu	re senso	r						0
5	Air n	nass flov	/							0
	VIN : Car Inform	ation : DEMO							Select All	ок

Figure 9-15 Sample Function Menu Screen

2. Press **OK** to complete the selection and all readings will be displayed in text format by default.

🔊 DEMO 👬 🚔 🚔 🖼 🗳	VC 🖗 100	10:26
Select Application > Diagnosis > Control Modules > Engine > Function Menu > Custom list		
MIL status indicator(MIL by DTC)	1	0
Battery voltage	2	۰
Engine cooling fan-Low	3	•
Boost pressure sensor	4	۰
Air mass flow	5	0
VN : Car Information : DEMO	Deselect	ок



	DEMO V1.10.010	= 2	VC¦ 奈 100% ∎ 10:27
Select Applica	tion > Diagnosis > Control Modules > Engine > Function Menu > Custom li	st > Live data	
-	None	None	•
Text	Name	Value	Unit
	MIL status indicator(MIL by DTC)	OFF	
1.	Battery voltage	12.4	V
Graph	Engine cooling fan-Low	ON	
	Boost pressure sensor	3019	hPa
VIN : Car Informatio	Help	To Top History Record	d Save Pause

Figure 9-17 Sample Live Data Screen

Name	Description
Help	To provide help information of a PID
То Тор	To move a data line to the top of Data List screen
History	To view the previous live data records or test reports
Record	To make record of live data
Save	To save live data of current frame
Pause	To stop recording live data

Table 8-1 Live Data Screen Button Screen

• Learn Mode: gives you the ability to learn good live sensor data values during idle, KEKO, acceleration, deceleration, part load and heavy load on each vehicle comes into your shop and records them for future reference. Click the dropdown list at the upper left of the screen to enter to choose a working condition to learn.

	DEMO V1.10.010 就 🖨	•	VC(🛜 100% 🛙 10:28
Select Applic	ation > Diagnosis > Control Modules > Engine > Function Menu > Custom list > Uve	data	
	None	None	•
-	Learn - Idle		
Text	Learn - KOEO	Value	Unit
	Learn - Acceleration	OFF	
	Leam - Deceleration	10.4	V
l	Learn - Part Load	12.4	v
Graph	Learn - Heavy Load	ON	
	Boost pressure sensor	3019	hPa
VIN : Car Informatic	n : DEMO Help 1	To Top History Record	d Save Pause

Figure 9-18 Sample Learn Mode Screen

• **Compare Mode** - If that vehicle comes in is with a problem, you can easily compare the faulty sensor and parameter readings to the good readings, and you will be alarmed when a faulty sensor reading is detected.

	DEMO 0000	•	VC's 🛜 100% 🖬 10:29				
Select Applica	tion > Diagnosis > Control Modules > Engine > Function Menu > Custom list > Live	data					
	None	None					
Ē		Compare - Idle					
Text	Name	Compare - KOEO					
	MIL status indicator(MIL by DTC)	Compare - Acceleration					
	Dout on the second s	Compare - Deceleration					
1.0	Battery voltage	Compare - Part Load					
Graph	Engine cooling fan-Low	Compare - Heavy Load					
	Boost pressure sensor	3005 hPa					
VIN : Car Information	на невра т	o Top History Record	Save Pause				

Figure 9-19 Sample Live Data Screen

- 3. Swipe the screen up and down to view additional information when necessary.
- 4. To move a data line to the top of Data List screen, just tap the line to select and then press the button **To Top**. To view data records or test reports, and press the button **History**. To make records of live data, just tab the button **Record**, and press **Pause** to stop recording at any time. To save the data, tap the **Save** icon.
- 5. To view live PID in graph format, press the tab **Graph**, and the plot displays. To view another PID plot, tab the name of a plot and a list of available PIDs display. Select one from the dropdown box and the plot changes to the newly selected PID.



Figure 9-20 Sample PID Graph Screen

• **Multi-graphs:** displays the parameters in waveform graphs, giving you the 'real picture' of what's going on in the vehicle. You can view up to 4 parameter graphs simultaneously.



Figure 9-21 Sample Multi-graphs Screen

• **Merge Graph:** merges multiple PID plots into one coordinate, so you can easily see how they affect each other, providing you with the most comprehensive and functional look at live data possible.



Figure 9-22 Sample Merge Graph Screen

9.2.3.2 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. Press **Custom List** from the menu to display all available parameters from the selected control module.
- The custom data stream selection screen displays. Tap the lines you wish to select. The numbers showing on the right side indicates the order of selection and the live data will show as this order.

		DEM0 V1.10.010	0.0V		٠	Ð	F	2	VC6	100%	10:36
Se	lect Applic	ation > Diagnos	is > Control Mor	dules > Engine > Fun	tion Menu > Cu	ustom list					
٠	MIL	status in	dicator(N	IIL by DTC)						3	•
2	Batte	ery voltaç	le							1	•
3	Engir	ne coolir	g fan-Lo	w						2	0
4	Boos	t pressu	re sensor								0
5	Air m	ass flow									0
	'IN : ar Informa	tion : DEMO							Select #	JI	ок

Figure 9-23 Sample Custom List Selection Screen

- To deselect an item, tap the line again. Alternatively, tap SELECT ALL or Deselect ALL to select or deselect all items at once.
- 4. Press **OK** to complete the selection, and all selected items display.



Figure 9-24 Sample Live Data Screen

9.2.3.3 Record data

Data Record is for recording the running data of the current control module.

To Record Data

1. Press **Record** button to record all selected live data, then it will show the record time and frames.

	DEMO V1.10.010		VC'a 🛜 100% 🛢 10:43
Select Applica	tion > Diagnosis > Control Modules > Engine > Function Menu > Custom list >	Live data	
	None	▼ None	•
Text	Name	Value	Unit
	MIL status indicator(MIL by DTC)	ON	
1	Battery voltage	12.5	V
Graph	Engine cooling fan-Low	OFF	Time: 00:00:11
	Boost pressure sensor	3047	Frame: 23 hPa
VIN : Car Informatio	Help		Stop Save Pause

Figure 9-25 Sample Live Data Record Screen

2. Press **Stop** button to create a record, then press **OK** to save the record into Data Playback of Data Manager.

	DEM0 V1.10.010	. + 10V								10:44
Select Application > Diagnosis > Control Modules > Engine > Function Menu > Custom list > Live data										
A III	None									•
Text										
	MIL statu	i au	DEMO-20210626-104305							
	Battery v	olt	-	reset it in "Setting	gs>General"				V	
Graph	Engine co	00				ок	Ca	ncel		
	Boost pressure sensor						8019		hPa	
										Pause

Figure 9-26 Sample To Stop Live Data Record Screen

9.2.4 ECU Information

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

To read ECU information:

1. Press ECU Information from Select Diagnostic Function menu.

		DEMO V1.10.010	0.0V	A	*	8	 Z	KC 🗧 🕫 100% 🖬 10:45
Se	elect Applic	ation > Diagnos	is > Control Mod	ules > Engine > Fu	action Menu			
1	Read	Codes						
2	Clear	Codes						
3	Live	Data						
4	ECU	Informat	ion					

Figure 9-27 Sample Function Menu Screen

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



Figure 9-28 Sample ECU Information Screen

- 3. Press \blacksquare to print the information if need be. Press \bigcirc to exit.
- 4. Press **Save** to store ECU information screen and Press **OK** to complete save or Press **Cancel** to give up.



Figure 9-29 Sample ECU Information save Screen

9.3 Complaints

This function lets the customers sending back the complaints or feedback to Foxwell server with one touch during the diagnostic process and allows for quicker and more accurate fixes for diagnostic troubles and bugs.

To make a complaint:

1. Click 🖄 during the diagnostic process when face a failure.

◆ DEMO V1.10010 05V	8 8		VC'o 🛜 10% 🗋 08:28
Select Application > Diagnosis > Quick Scan			
System Name		Status/Count	
Engine(Engine control)		Fault 5	•
Airbag(Airbag control)		Fault 3	•
AIRCON(Air conditioner)		Fault 4	•
EPS(Motor driven power steering)		Fault 8	•
BCM(Body control module)		Fault 12	
Car Information : DEMO		Save	Report Erase

Figure 9-30 Sample Compliant Button Screen

2.Input the necessary information in the complaint sheet. And the data logging file will be collected automatically.

		Complair	nts		VC' ? 93	08:28
Error Type Selectior	n					
2021-07-01_08-28-03[VIN reading error]					
VIN reading error	Make / Model error	Decoding VIN error	Active Test error	System Comm	unication error	
Reading Codes error	Clearing Codes error	Data Stream error	Special Function	n error Trans	lation error	
Any other error						
Description & Rema	irks					
failed to read						
_						_
			Save Upload	Email	PDF	Back

Figure 9-31 Sample Compliant Sheet Screen

3.Press **Upload** to send to Foxwell server directly when connecting with Wifi or Press **Save** to save the complaint and send to us later.(The saved complaint can be found at **Data Manager--Data Record** menu.) Press **Email** to share or **PDF** to print. And press **Back** to cancel.

10 Data Manager

Data Manager menu let you review stored screenshots and test reports, playback recorded live data and other saved files.

Typical menu options include:

- Image
- PDF
- Data Playback
- Data Record
- Report

•	Data Manager	K 🕫 🖘 100% 🖬 10:59
Image		>
PDF		>
Data Playback		>
Data Record		>
Report		>

Figure 10-1 Sample Data Manager Screen

10.1 Image

Image option leads to screens for review of stored screenshots. In case a failure of i53BT application or the Android system occurs, please just take a screenshot and send it to our team to help with the troubleshooting.

Typical menu options include:

- Diagnostic Screenshot
- System Screenshot

	Image	KC6 🛜 100% 🖻 11:00
Diagnostic Screenshot		>
System Screenshot		>

Figure 10-2 Sample Screenshots type

10.1.1 How to Save an Image

To take a screenshot:

1. If want to save data of current screen, press 🖭 at the title bar to take a screenshot.

	DEMO V1.10.010	0.0V	A	٠	8	•	VC'o 🗟 100%	a 11:01
Select Appl	lication > Diagnosi	s > Control Mo	dules					
Search	History :						Search	٩
Eng	ine							
2 Airb	ag							
3 AIR	CON							
4 EPS	6							
5 BCN	И							

Figure 10-3 Sample Screenshot Screen

2. Add a description of the image, and press the OK to save or press cancel button to give up.

DEM0 ++ V1.10.010 000	A D	Ð			VC's 🗟 100%	1 1:02
Select Application > Diagnosis > Contr	rol Modules					
Search History :					Search	٩
Engine		Rename				
Engine						
Airbag	Screenshot_20210626	_110242				
Anbag	O Don't ask me again					
3 AIRCON	You can reset it in "Setting	gs>General"				
			ок	Cancel		
4 EPS			UK	Cancel		
5 BCM						

Figure 10-4 Sample Screenshot Screen

10.1.2 Review Image

- ► To review the screenshots:
 - 1. Press Data Manager from home screen of i53BT diagnostic application.
 - 2. Press Image from Data Manager.
 - 3. Press **Diagnostic Screenshot** for application menu screenshot or Press **System Screenshot** for system menu screenshot, then all available pictures will be displayed.

Figure 10-5 Sample Browse Picture Screen

- 4. Press any available picture for review.
- 5. To delete a picture, tap button **Delete** and answer **OK** to delete. Press **Print** to print the pictures and press **Rename** to change the picture name.

•	Diagnostic S	Screenshot	KC6 후 100% 🖬 11:
обмо V1.10.010	A 4 8	1	<i>VC</i> ₀
Select Application > Diagnosis > Quick Scan	55	_	
System Name		Status/Count	
Airbag(Airbag control)		Fault 3	*
AIRCON(Air conditioner)		Fault 4	•
EPS(Motor driven power	steering)	Fault 8	*
BCM(Body control modu	le)	Scanning	
VIN : Car Information : DEMO		Pause Save	e Report Erase
		Print	Rename Delete Bacl

Figure 10-6 Sample Edit Picture Screen

6. Long press one of the pictures to edit all pictures like Rename or Delete.

•		Diagnosti	c Screensho	ot		VC6 🗟 100	11:05
Community (1925), 110242 prg	Respective and the second seco	Control (Control (Contro) (Contro) (Contro) (Contro) (Contro) (Contro) (Contro) (Contro)					
			Select All	Rename	Delete	Cancel	Back

Figure 10-7 Sample All Pictures Edit Screen

10.2 PDF Report

PDF option leads to screens for review of the vehicle test reports. You just need to press the PDF icon on the test screen, add a description and press **OK** button to save.

10.2.1 How to Create a PDF Report

- To create a PDF report:
 - 1. Press Data Manager from home screen of i53BT diagnostic application.
 - 2. Press Report from Data Manager.
 - 3. Press any reports saved.

		Report	K 🕫 🕫 100% 🖬 11:06
		All the	time 🔻 🔍
DEMO	VIN:null	Version information: Vehicle manufacturer EC.	
DEMO	VIN:null	Version information:Vehicle manufacturer EC.	
DEMO	VIN:null	Automatic scanning results:Engine(Engine cor	26.06.2021 10:00:36
			Back

Figure 10-8 Sample of Reports Screen

4. Press Save to save changes. Press PDF to create PDF file.

	Report	KC6 🗟 100% 🖬 11:0
Vehicle Information	VIN:	Plate Number:
Model:	Mileage:	Color:
Year:	Capacity:	Status: Pre Scan
Engine:	Reference:	Date: 26.06.2021
Automatic scanning results	Reference:	
System Name		Status/Count Save PDF Cance

Figure 10-9 Sample of Report edit Screen

5. If press PDF, the PDF review screen will be displayed. Press **Print** to print the report or press **Email** to share the report.

•	DEMO-Autos	Scan-202	10626-110909.pc	lf	VC¦ 奈 100% 8 11:09
		Vehicle Diagnost	ic Report		
	Vehicle Inform	ution 10	Free lander		
	Vest.	Mi saic	Color:		
	The second	Chiefly.	1010 Pre Man		
	inter-	Tester.	0m20010636		
	Automatic sca	owing results			
	Space Name		Sana Coast		
	El Orginstrupor o		Read (S		
	D-Mitegliolog o		Back (7		
	D-RCPQD-104		Bash (A		
	to Official data		Read (1)		
	0.0000-0-00		test 2		
	0.4009400	n	tut at		
	di Andrea Care		ter a		
	the model of the		fact ()		
	Engine(Engine				
		Salux Description			
	100		anurbanti amari		
	7.09%		n spanen-ine kun hank i		
	N2.26	Actual Colorest Actual Inc.			
				Print	Email Back

Figure 10-10 Sample of Report edit Screen

10.2.2 Review PDF Report

- To review the PDF reports:
 - 1. Press Data Manager from home screen of i53BT diagnostic application.
 - 2. Press PDF and all available PDF files will be displayed.

	PDF	KC 🕫 100% 🖬 11:10
DEMO-AutoScan-20210626-110909.pdf		2021-06-26 11:09:12
DEMO-VersionInfo-20210626-110745.pdf		2021-06-26 11:07:46
DEMO-VersionInfo-20210626-110714.pdf		2021-06-26 11:07:18
		Back

Figure 10-11 Sample Browse PDF Screen

3. Long press the screen to edit all PDF files like Rename or Delete the files.



Figure 10-12 Sample Edit PDF Screen

10.3 Data Playback

The **Data Playback** option leads to screens for review of recorded live data. Playing back a recording is just like using the scan tool on a live vehicle. It let you review live data in text, graph and graph merging formats. Playback speed and direction (forward or reverse) can also be controlled.

To review recorded live data:

- 1. Press Data Manager from home screen of i53BT diagnostic application.
- 2. Press Data Playback and all available records display.

	Data Playback	KC 🗧 🕫 100% 🕯 11:13
DEMO-20210626-104305.txt		2021-06-26 10:44:29
		Back

Figure 10-13 Sample Data Playback Records Screen

3. Press any records to view the details.

•	Data Playback	KC 🛜 🕫 100% 🛙 11:14
MIL status indicator(MIL by MIL status indicator)	y DTC)	0
Battery voltage		0
Engine cooling fan-Low		0
Boost pressure sensor		0
Air mass flow		0
6 Accelerator pedal position	sensor	0
	Select All	Deselect OK Back

Figure 10-14 Sample Data Playback Selections Screen

 To view parameter graphs, press the Graph tab. And to merge the graphs, press the tab Merge Graph or press the tab Multi Graph to view multiple plots.



Figure 10-15 Sample Graph Screen

- 5. To move forward or reverse back of the playing, just drag the progress bar forward or reverse. Press the II button to stop.
- 6. Long press the record to Rename or Delete the records.



Figure 10-16 Sample Edit Data Playback Screen

11 Settings

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

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

- Unit
- Language
- Font Size
- Module Sorting
- Sort Tiles
- Remote control
- Automatic Update
- System Settings

- General
- Uninstall Vehicle Software
- Clear app data
- Print Settings
- About

11.1 Unit

Selecting **Unit** opens a dialog box that allows you to choose between Imperial customary or metric units of measure.

- To change the unit setup:
 - 1. Press Settings from home screen of the i53BT diagnostic application.
 - 2. Press Unit and available unit system display.
 - 3. Select a unit system.

11.2 Language

Select Language opens a screen that allows you to choose system language.

- To configure system language:
 - 1. Press **Settings** from home screen of the i53BT diagnostic application and select **Language**. Then all available language options display.
 - 2. Select your preferred language to change.

11.3 Font Size

This option allows you to change the font size of application.

- To change font size:
 - 1. Press Settings from home screen of the i53BT diagnostic application, and then select Font Size.
 - 2. Select your preferred font size, then press **Confirm** to change, or press **Back** to give up.

11.4 Module Sorting

This option allows you to modify the display order of other modules except the diagnostic module in the home screen of i53BT diagnostic application.

To change module sorting:

1. Press **Settings** from home screen of the i53BT diagnostic application, and then select **Module Sorting**.



Figure 11-1 Sample Before the modification,

the Update Module is displayed behind the Maintenance module

		Module Sorting	//℃6 * 6% 🗄 04:31
	Diagnostic		\equiv
û	Update		\equiv
â	Data Manager		\equiv
2	My Account		\equiv
٠	Settings		\equiv
8	Remote Control		\equiv
	Firmura Undata		

Figure 11-2 Sample Before the modification,

the Data Manager is displayed behind the Update module

2.Long press the icon \equiv on the right side of the module that needs to be modified for about 2 seconds, and then drag it up and down. The final position of the module is the same as the display order of the home screen.

	Module Sorting	VC6 * 7% 🗄 07:28
	Diagnostic	=
6	Undate	=
Ē	Data Manager	≡
*	My Account	\equiv
٠	Settings	=
8	Remote Control	=
	Firmura Undete	

Figure 11-3 Sample Drag the Data Manager module to the front of the Update module

	Module Sorting	VC4 🕸 7% 🔁 07:28
Diagnosti	ic	\equiv
😑 Data Man	ager	=
• Update		\equiv
🗶 Му Ассон	unt	\equiv
Settings		=
Remote C	Control	=
E Firmura	Undata	

Figure 11-4 Sample Release and Dwell Data Manager Module

3. Click S to display whether to apply the current settings interface, click OK to apply the current changes, click Cancel to discard the current changes.

÷		Module Sorting	VC6 ≈ 6% 🖻 04:31
	Diagnostic		=
â	Data Manage		=
۵	Update	Apply current settings?	
*	My Account	OK Cancel	=
*	Settings		=
8	Remote Cont	rol	≡
	Circulate Un	date	

Figure 11-5 Sample Click OK to apply the current changes





the Data Manager module is displayed in front of the Update module

11.5 Sort Tiles

This option allows you to change the sort for Brand of vehicles. There are two sorting methods available by alphabet or by frequency of use.

- To change sort
 - 1. Press **Settings** from home screen of the i53BT diagnostic application, and select **Sort Tiles**.
 - 2. Select your preferred sort order.

11.6 Remote Control

This option allows you to select a tool of remote control. There are two remote tools available TeamViewer QuickSupport or AnyDesk.

- To change remote control
 - 1. Press **Settings** from home screen of the i53BT diagnostic application, then select **Remote control**.
 - 2. Select your preferred tool.

11.7 Automatic Update

This option allows you to enable/disable automatic update notice. If it is enabled, an orange update mark will show on the upper right of the diagnostic software icon whenever there is a new version available.

11.8 System Settings

This option provides you a direct access to the Android system settings, like sound, display, system security and etc. Refer to Android documentation for more information.

11.9 General

This option lets you to turn on/off the prompt when saving a file or login & registration when started the scanner.

11.10 Uninstall Vehicle Software

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

To uninstall a vehicle software:

- 1. Tap Settings application on home screen of i53BT.
- 2. Tap the Uninstall Vehicle Software option on the option list.
- 3. Choose the vehicle software you want to delete or choose Select All.

	Uni	VC 🗇 🛊 37% 🖻 04:22		
ABARTH	ACURA	Ø ALFA	ASTONMARTIN	AUDI
BAICHUANSU	BAICMOTOR	ØBAICSENOVA	Ø BAICWEIWANG	BENTLEY
© BJEV	BMW	BRILBMW	BRILLIANCE	BUGATTI
			Settings Select All	Delete Back

Figure 11-7 Sample Uninstall Vehicle Software Screen

4. Press Cancel to quit or and press OK to uninstall.



Figure 11-8 Sample Uninstall Vehicle Software Screen

11.11 Clear App Data

Generally, after the application running for a period of time, some cache data will be generated. As time goes by, the cached data will become larger and larger, which will affect the operation of the device. This option allow you to clear the cache data of the app.

11.12 Print Settings

This option allows you to print any data or information anywhere and anytime either via PC network or Wi-Fi.

To setup the printer connection:

- 1. Tap the Settings application on home screen of i53BT.
- 2. Tap the **Printing Settings** option on the option list.

	Settings	VC 🗧 🖘 🕯 04:30
System Settings		>
General		>
Uninstall Vehicle Software		>
Clear app data		2.38 MB >
Print Settings		>
(i) About		>

Figure 11-9 Sample Print Settings Screen

3. Tap **Print Plugin Manager** and turn on the Mopria Print Service, then i53BT will search for available printers automatically.

×	Print Service Manager	?
You nee	ed a Print Service Plugin installed & enabled to print.	
moprie	Mopria Print Service Mopria Alliance	Enabled
(hp	HP Print Service Plugin HP Inc.	<u>+</u>
brother	Brother Print Service Plugin Brother Industries, Ltd.	<u>+</u>
SAMSUN	Samsung Print Service Plugin Samsung Electronics Co., Ltd.	<u>+</u>
Canon	Canon Print Service Canon Inc.	<u>+</u>
EPSON	Epson Print Enabler Seiko Epson Corporation	<u>+</u>

Figure 11-10 Sample Print Service Manager Screen

4. Select Mopria Print Service. Press ○ for return.



Figure 11-11 Sample Setting of Print Service Manager Screen

5. Choose the right printer. Press \bigcirc for return.

÷	Mopria Print Service	۹ :
	On	•
•	HP LaserJet MFP M227fdw (6239A9) 192.168.6.107	0
•	HP LaserJet Pro M329 [F72A0B] 192.168.14.24	Ô
•	DIRECT-0C-HP M329dw LJ fa:0d:ac:f7:2a:0c	0

Figure 11-12 Sample of Printer Screen

6. Select a available printer, then press **PRINT TEST PAGE** button at the right-bottom. Press ○ for return.

← HP LaserJet Pro M329 [F72A0B]	1
Printer Name HP Laser.Jet Pro M329 [F72A0B] Model HP Laser.Jet Pro M329 IP Address 192.168,14.24	
Status Low on toner	PRINT TEST PAGE

Figure 11-13 Sample of Printer test

7. Choose the file or report you want to print and press the print icon⁶. Click on the red marked part to select an available printer. Click the blue marked part to make more settings for the printer, such as paper size, number of copies, etc.

HP Lase	rJet Pro M	329 [F	72A0B]									
192.168.14	24											
192.100.14												
oies: 1	Paper size:	SU A4	1									
												_
				_	_							
Webble Day	patchpat @Apover.		Which Imports Report	A Powert			which Illigrants Report	A POXWEE			With Departs Aport	d Power.
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		-			644				5.00			
			No. And and Address		644				-			
		100	the manipulation are		662				-			
		50			100				100			
			Max. State or state of		644				1.00	-		
					553				-	-		
		enqueur d	the pow mang		100				100	-		
		100			100							
		-			-	-			100		ALC: 11.1.1	
Instruction to second		123	The second starter		-	-	_		THE			
and the second se	-	100			10		being and grings		1000			
the state of the s	and a second second	1.00			1.0				58			
		5.82			1.0				5.08			
		528			68				6.00			
	/0											
	/8 🥑											

Figure 11-14 Sample of File Printing Screen

NOTE

- 1. Please make sure the printer and the i53BT in the same Wi-Fi or Network when printing.
- 2. If Mopria Print Service driver can't workable for your printer, please download the driver to work for your printer on Print Service Manager.

11.13 About

Selecting **About** option opens a screen that shows information about the i53BT, such as serial number, hardware and software version and etc.

To view information of your scan tool:

- 1. Press About from home screen of the i53BT diagnostic application.
- 2. A screen with detailed information of the scanner displays.

	About	VC ຈົ 67% 🖥 06:11
Product Model		NT650EliteII
Hardware Version		V2.01.002
Software Version		V1.08.018
Operating System Version		1.0.5
Serial Number		i0050
Production Date		2021-06-22

Figure 11-15 Sample Tool Information Screen

12 Remote Support

Remote Control enables you to get remote support from Foxwell with TeamViewer when you have issues with Foxwell products.

There are two remote control tools TeamViewer QuickSupport and AnyDesk. About how to set the tool of default, please refer to 11.6 Remote control.

To use QuickSupport for to remote control:

1. Click the **Remote Control** icon on the main menu of the i53BT to start TeamViewer QuickSupport. Press O for return.



Figure 12-1 Sample QuickSupport Screen

2. Send your ID to us to let our team to take control your tablet.