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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.

#### **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 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.

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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 home screen of the GT90 Max 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  $\bullet.$ 

Example:

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

- Automatic Read
- Manual Entry

## 1.2.2 Arrow Icon

► An arrow icon indicates a procedure.

Example:

To connect to wall plug:

- 1. Connect the 12V power adapter 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

The latest Windows tablet scanner GT90 Max delivers faster and smarter diagnosis for workshops and technicians. Through hardware and software upgrades, technical staff can now approach problems with greater speed and accuracy and produce comprehensive, professional reports.

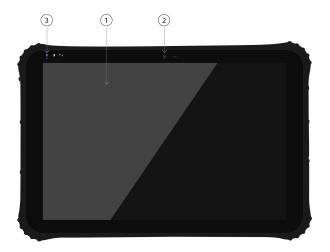
There are two main components:

• GT90 Max Tablet - displays menus, test results and operation procedures and tips.

• VCI Dongle - the device that communicates with the vehicle and transmits data the tablet.

## 2.1 Scanner Descriptions

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



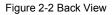


1 **12.2**" **LED IPS Capacitive Touch Screen** - shows menus, test results and operation tips.

#### 2 Front-Facing Camera

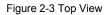
3 Power Indicator - indicates the power status of the scanner.





4 **Rear-Facing Camera** - takes pictures of VIN number, faulty parts and plates and shoots test videos.





- 5 P1/P2 shortcuts for Windows setting menu.
- 6 VOL + / VOL press to adjust the volume.
- 7 **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 emergency shutdown.

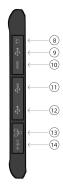


Figure 2-4 Left View

#### 8 Headset Port

- 9 Mini USB Port provides USB connection with other devices.
- 10 HDMI (high-definition multimedia interface) Port outputs display of the scanner for demonstration and training.
- 11 **USB 3.0 Port** provides USB connection with VCI dongle, oscilloscope, video scope and other external storage devices and be used to transfer data.
- 12 **USB 2.0 Port** provides USB connection with VCI dongle, oscilloscope, video scope and other external storage device and be used to transfer data.
- 13 Ethernet Port connects with Ethernet cable.
- 14 **Power Port** connects to wall plug to charge the scanner.



15 **USB 2.0 Port** - provides USB connection with VCI dongle, oscilloscope, video scope and other external storage device and be used to transfer data.

16 COM 2 - serial port for connecting other devices.

17 COM 1 - serial port for connecting other 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

GT90 Max connects to the vehicle and get data through the VCI dongle either by Bluetooth or USB communication.



Figure 2-5 Front View of VCI dongle

- 1 Error Light illuminates constantly when serious hardware failure occurs.
- 2 **USB Light** turns green when the VCI dongle is properly connected and communicating with the GT90 Max tablet via USB cable.
- 3 **Bluetooth Light** turns green when the VCI dongle is properly connected with the GT90 Max tablet via Bluetooth communication.
- 4 **Power Light** turns to green when powered on.



5 **Vehicle Data Connector** - provides connection between vehicle and the VCI dongle through the 16 pin diagnostic cable.



Figure 2-7 Bottom View of VCI

6 **USB Port** - provides USB connection between the VCI dongle and GT90 Max tablet.

## 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
Touch Screen	12.2" diagonal, daylight readable color LCD screen, 1920*1200 pixel
Dustproof and Waterproof Level	IP65
Operation System	Windows 10 Home 64bit
Processor	Skylake M3-6Y30 (4M Cache, up to 2.60 GHz)
Memory	4GB
SSD Hard drive	128GB
Communication interface	Built-in WIFI 802.11 a/b/g/n/ac Wireless LAN USB2.0/USB3.0/Type C Bluetooth 4.2 (10m)
Camera	2 megapixels front-facing and 5 megapixels rear-facing
Built-in Battery	6300mAh/7.4V, 1000mAh/7.4V (dual Lithium-polymer battery), chargeable via 12V/4A AC/DC 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, KW81, KW82, GM UART, UART Echo Byte Protocol, Honda Diag-H Protocol, TP2.0, TP1.6, SAE J1939, SAE J1939, SAE J1708, Fault-Tolerant CAN
Working Temperature	-10 to 50℃
Storage Temperature	-30 to 70°C
Humidity	95% Non-Condensing
Dimensions	319.6*216*23.4 mm (L*W*H)
Weight	Net Weigh: 1.5KG

Table 2-2 Technical Specifications

# **3 Getting Started**

This section describes how to power on/off 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 GT90 Max 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 GT90 Max tablet can be powered with the internal rechargeable battery. The fully charged battery is capable of providing power for 6 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 AC/DC power supply. The tablet charges its internal battery pack through AC/DC power connector.

## 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. Swipe the rightmost side of the display and you will see the Settings icon of the Windows system.
  - 2. Press the Settings icon and you will see the Power switch.
  - 3. Press the Power switch and select the shut down option to power the scanner off.

### NOTE

In case of emergency, press and hold the Power button of the scanner for 5 seconds to force shutdown.

# 3.3 Establishing Vehicle Communication

To establish communication with GT90 Max:

- 1. Connect the VCI dongle to the vehicle's DLC for both communication and power source.
- 2. Connect the VCI dongle to the GT90 Max tablet via Bluetooth or USB connection.

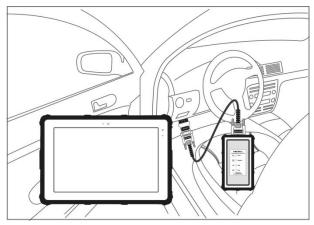


Figure 3-2 Sample Bluetooth Communication Screen

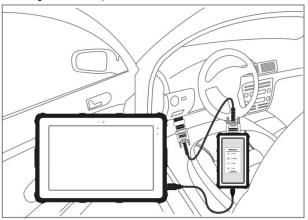


Figure 3-3 Sample USB Communication Screen

Please refer to **Chapter 3.3.1.1** about the details of how to connect via Bluetooth and **Chapter 3.3.1.2** about the details of how to connect via USB cable.

3. Check the VCI Indicator status at the toolbar. If the button turns to green, the GT90 Max is ready to start vehicle diagnosis.

### 3.3.1 VCI Connection

The VCI dongle supports two ways of communication with the GT90 Max tablet:

- Bluetooth Communication
- USB Communication

### 3.3.1.1 Bluetooth Communication

Bluetooth communication is recommended. The working range for Bluetooth communication is about 10m, providing easy connection to vehicles in any location throughout the shop.

- To build Bluetooth connection:
  - 1. Power up the tablet.
  - 2. Go to VCI Manager and then Bluetooth. Click **Connect** and the VCI dongle will connect to the tablet automatically.



Figure 3-4 Sample VCI Manager Screen

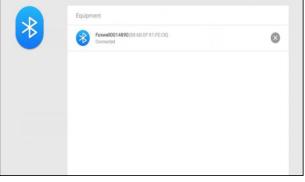


Figure 3-5 Sample Bluetooth Connection Screen

3. Check if the button at the toolbar turns to green. If yes, it means it's ready to start diagnosis.

### NOTE

If the VCI Indicator isn't green, it indicates that the signal strength of the transmitter is too weak to be detected. In this case, try to get closer to the device, or check the connection of VCI dongle, and remove all possible objects that cause signal interference.

### 3.3.1.2 USB Communication

The USB connection is a simple and quick way to establish communication between the tablet and the VCI dongle. Connect the dongle and tablet with the USB Type B cable, and the VCI Indicator will turn green, indicating the dongle has connected to the tablet.

## 3.4 Screen Layout of Home Screen

When the tablet boots up, press the **GT90 Max** desktop icon to launch the diagnostic application.



Figure 3-6 Sample Home Screen

- 1. Application Menu
- 2. Navigation Toolbar

## 3.4.1 Application Menu



Figure 3-7 Sample Application Screen

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

- **Diagnostic** leads to test screens for diagnostic trouble code information, live data, active tests, coding and etc.
- **Maintenance** leads to screens for the most commonly used service functions like Oil light reset, EPB, BRT, DPF and etc.
- Data Manager leads to screens for saved screenshots, pictures and test reports, and playing back live data, as well as debug logging data.
- Tutorials leads to some training videos and guides.
- VCI Manager leads to screens for making Bluetooth pairing of VCI dongle and tablet, updating the VCI firmware and binding/unbinding VCI dongle.
- Update leads to screens for Foxwell ID registration and updating the scanner.
- Shop Manager allows the technicians to manage the workshop information and vehicle test records.
- Settings leads to screens for adjusting default settings to meet your own preference and view information about the scanner.
- My Account displays your Foxwell ID information like registered products and personal information and allows for sending us feedbacks about the scanner.
- Functions leads to the function search screen.
- Oscilloscope leads to oscilloscope software to perform electrical and electronic circuit tests.
- **Videoscope** leads to videoscope software connecting GT90 Max to videoscope with an Image head cable for close vehicle inspection.
- **Remote Control** leads to TeamViewer to get remote support from Foxwell team.
- Technical Data provides access to repair data like HaynesPro.

## 3.4.2 Diagnostic Menu

Touch **Diagnostic** at the GT90 Max application menu, and the Diagnostic menu will display. The operations of the buttons on Diagnostic menu are described in the below table.

		4		
	AMERICA	EUROPE ASIA	CHINA	
DEMO	OBDII	MERCEDES	ASTONMARTIN	BANW
JAGUAR	ABARTH	ALFA	AUDI	BENTLEY
BUGATTI	CITROEN	DACIA	FERRARI	FIAT
				1

Figure 3-8 Sample Diagnostic Menu Screen

No.	Name	Description				
1	Back	Back to the Application Menu or last page.				
2	VIN	Shortcut for VIN reading menu, which typically includes Automatic Read and Manual Entry.				
3	Area	Displays car makes from different origins like America, Asia, Europe and Chinese.				
4	Search	Lets you search a vehicle make quickly.				

Table 3-2 Diagnostic Menu Title Bar

## **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. 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.

## 4.1 VIN Reading

VIN button which includes Automatic Read and Manual Entry, eliminating the need for navigating through complicated car identification process.

ŧ		VIN	奈 🖻 🖿 🔗 下午 04:10:16
	Automatic Read		
	Manual Entry		

Figure 4-1 Sample VIN Hotkey Screen

## 4.1.1 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 GT90 Max application.
  - 2. Click VIN and choose Automatic Read from the option list.



Figure 4-2 Sample Automatic Read Screen

24 Windows Diagnostic Platform GT90 Max User's Manual V1.01

- 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 **Confirm** to continue.
- 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.

			d	The VIN		f the vehic ut the VIN	le is not ide manually.	ntified.				
					ок		Cance	el				
1	1	2	3	4	5	6	7	8	9	0	•	
	Q	W	E	R	Т	Υ	U	1	0	Р		
	А	S	D	F	G	Н	J	К	L	Caps		
	Ζ	Х	С	٧	В	Ν	М	_	_	+	-	

Figure 4-4 Sample Manual Entry Screen

## 4.1.2 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 GT90 Max application.
  - 2. Click VIN and choose Manual Entry from the option list.
  - 3. Press Keyboard button to input VIN and press **Confirm** to continue.



Figure 4-5 Sample Manual Entry Screen

## 4.2 Manual Selection

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

- Smart VIN
- Manual Selection

DEMO V1.10.005	â	¢	•	T	
Diagnosis					
SmartVIN					
Manual Selection					

#### Figure 4-6 Sample Vehicle Entry Screen

Name	Button	Description
Home	企	Back to the Application Menu.
Settings	Φ	A shortcut for Settings menu.
Data Logging	0	Records the communication data between the scan tool and the vehicle to help with troubleshooting of diagnostic failures.
Print	Ē	Print the test data and report.
Screenshot	2	Takes screenshot of test data or report and save them for later analysis.

Table 4-1 Title Bar

## 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 Smart VIN:
  - 1. Select Diagnostic from home screen of the GT90 Max 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.

DEMO ORDII MERCIDES ASTONMARTIN BMW	
	1
JAGUAR ABARTH ALFA AUDI BENTLEY	
BUGATTI CITROEN DACIA FERMARI FIAT	

Figure 4-7 Sample Vehicle Selection Screen

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

DEMO V1.10.005	â	٥	•	T	5	
Diagnosis						
SmartVIN						
Manual Selection						

Figure 4-8 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.

## 4.2.2 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 GT90 Max 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.

N	A718704	ant .		•	0	•		-	6			
martVIN	terre	VI.12.004										
	Search History :	Hou The MA WILLIA	074L V118.00				0		0	. W.	- 0	
Variual Selection	(A) 2010	Search History :	time )	10.0 10.0 100	tatale )	mint Ma	i ras					
	(9) 2009	Astra-H	Diagra	ala								
	(8) 2008	Corsa-C	Speck	il function	6							
	(7) 2007	Corsa-D										
	(6) 2006	Meriva-B										
	(5) 2005	Meriva										
	107 20 20	Zafra-B										

Figure 4-9 Sample Manual Vehicle Selection Screen

# **5** 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 and maintenance on Asia, European and USA vehicle brands.

When you have completed the identification of vehicle, the main menu displays. Menu options typically include:

- Diagnosis
- Special Functions



Figure 5-1 Sample Main Menu Screen

## **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

<b>DEMO</b> v1.10.007	â	0	0	T	2	≈ @ ∎ ø	下午 04:35:27
Select Application Diagno	sis						
Quick Scan							
Control Modules							

Figure 5-2 Sample Diagnosis Screen

### 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 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.

◆ DEMO v1.10.007	
Select Application Diagnosis	
55%	
System Name	Status/Count
1.Engine(Engine control)	Fault   5 🛛 🗸
2.Airbag(Airbag control)	Fault   3 🛛 🗸
3.AIRCON(Air conditioner)	Fault   4 🗸 🗸
4.EPS(Motor driven power steering)	Fault   8 🗸 🗸
5.BCM(Body control module)	Scanning
	Pause Save Report Erase

Figure 5-3 Sample Quick Scan Screen

At the end of successful automatic controller scan, a menu with a list of DTC displays and click <sup>∨</sup> button to the right to view DTC descriptions.

<b>DEMO</b> v1.10.007	<b>a</b> C	• •	2	6 🖿 🔗	下午 04:36:47
Select Application Function	on Menu				
System Name			Status/Count		
1.Engine(Engine cont	rol)		Fault   5		~
ID	Status	Description			
P0030	Active	HO2S heater control circuit b	ank 1 sensor 1		
P2096	History	Post catalyst fuel trim system	too lean bank 1		
P0130	Active	O2 sensor circuit bank 1 sens	or 1		
P0616	History	Starter relay circuit low			
P0335	Active	Crankshaft position sensor A	circuit		
2.Airbag(Airbag cont	rol)		Fault   3		$\sim$
			Save	E Report	62 Erase

Figure 5-4 Sample Quick Scan Complete Screen

4. 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.

DEMO v1.10.007	ô ()	•	Ŧ		ê 🖬 🕯	
Select Application Function Me	nu					
System Name	Save			unt		
1.Engine(Engine control)	Name	:MO-AutoScan	-20200522-1	53725		
ID St	Plate Number					
P0030 A	Flate Number			_		
P2096 H	Color			: 1		
P0130 A				_		
P0616 H	Status	Unset status				
P0335 A	ОК		Cancel			
2.Airbag(Airbag control)			Carreer	_		
				6	Ð	Ø
				Save	Report	Erase

Figure 5-5 Sample DTC Save Screen

	EMO .10.007	合	O	•	Ŧ	2	\$ @ C	∍ ⊘	下午 05:10:12
Select Applicat	tion Diagno	sis							
4 system	s found								
1.Engine(I	Engine cont	trol)				Fault   5			
2.Airbag(/	Airbag cont	rol)				Fault   3			
3.AIRCON	I(Air conditi	ioner)				Fault   4			
4.EPS(Mo	tor driven p	oower steerir	ng)			Fault   8			
Engine(E	ngine cont	rol) [5]							
P0030 Active HO2S heater control circuit bank 1 sensor 1					OWS 語 Windows。				

#### Figure 5-6 Sample Report Screen

► DEMO v1.10.007	🛛 🗟 🖬 🔗 下午 04:40:30
Select Application Diagnosis	
System Name	Status/Count
1.Engine(Engine control)	Pass   No Fault
2.Airbag(Airbag control)	Pass   No Fault
3.AIRCON(Air conditioner)	Pass   No Fault
4.EPS(Motor driven power steering)	Pass   No Fault
5.BCM(Body control module)	Pass   No Fault
6.ABS/ESP(ABS/ESP)	Pass   No Fault
	Save Report Erase

Figure 5-7 Sample Erase Screen

### **5.1.2 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.

◆ DEMO v1.10.007	🖻 🖸 🔗 下午 05:11:35
Select Application Diagnosis Control Modules	
Engine	
Airbag	
AIRCON	
EPS	
BCM	
ABS/ESP	
TPMS	
4WD	激活 Windows 時间間間12週5 Windows
SPAS	and many a most a most and any

Figure 5-8 Sample Control Modules Screen

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

► DEMO v1.10007 ▲ ○ 〒 図 ≈ 6	) 🕞 🔗 下午 05:13:28
Select Application Diagnosis Control Modules Engine Function Menu	
Read Codes	
Clear Codes	
Live Data	
Active Test	
ECU Information	
Special Functions	
	激活 Windows 和行政第10805 Windows,

Figure 5-9 Sample Function Menu Screen

## 5.2 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
- Active Test
- ECU Information
- Special Functions

#### NOTE

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

## 5.2.1 Read Codes

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

- Present/Permanent/Current
- Pending
- History
- Self-diagnostic

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).

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

To read codes from a vehicle:

1. Press Read Codes from Select Diagnostic Function menu. A code list

including code number and its description displays. The red icon

means there is help information available for the code. The green icon  $\textcircled{\begin{subarray}{c} \mbox{means}}$  means there is freeze frame available.

DEMO v1.10.007	â 0	● 〒 🛛 奈 🖨 🗗 🔗 下午 05:14:34
Select Application Diagnosis	Control Modules Engin	Function Menu
ID	Status	Description
P0030	Active	HO2S heater control circuit bank 1 sensor 1
P2096	History	Post catalyst fuel trim system too lean bank 1
P0130	Active	O2 sensor circuit bank 1 sensor 1
P0616	History	Starter relay circuit low
P0335	Active	Crankshaft position sensor A circuit
		Freeze Frame Helo Save

Figure 5-10 Sample Trouble Code Screen

• Freeze Frame- select one fault code from the code list and click Freeze Frame button on the screen. The screen will display 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.

• DEMO v1.10.007	ô ()	<ul> <li>●</li> <li>●</li> <li>●</li> <li>●</li> <li>▼ + 05:14:34</li> </ul>
Select Application Diagnosis	Control Modules Engin	Function Menu
ID	Status	Description
P0030	Active	HO2S heater control circuit bank 1 sensor 1
P2096	History	Post catalyst fuel trim system too lean bank 1
P0130	Active	O2 sensor circuit bank 1 sensor 1
P0616	History	Starter relay circuit low
P0335	Active	Crankshaft position sensor A circuit
		Freeze Frame Help Save

Figure 5-11 Sample Trouble Code Screen

DEMO 11.10.007	• • •	🛜 向 🖸 🔗 下午 05:15:25
Select Application Diagnosis Control Modules En	ngine Function Menu	
Name	Value	Unit
Barometric pressure sensor	988	hPa
Intake air temperature	26	°C
Water temperature	79	°C
Clutch switch (M/T only)	ON	
A/C ON signal switch	ON	
Gearbox neutral position status signal	ON	
Brake switch 2	OFF	
		200番 Window Restricted
		Save

Figure 5-12 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.

• DEMO v1.10.007	☆     ☆     ☆     ○     □    □    □    □    □    □    □    □    □    □    □    □    □    □	奈 🖻 🗗 ♂ 下午 05:16:08
Select Application Diagnosis	[General Information]	
ID	The normal operating temperature of the HO2S(Heated Oxygen Sensor) ranges from	
P0030	350 to 850°C(662 to 1562°F). The HO2S heater greatly decreases the amount of time required	ank 1 sensor 1
P2096	for fuel control to become active. The PCM provides a pulse width modulated control circuit to adjust current through the heater.	too lean bank 1
P0130	When the HO2S is cold, the value of the resistance is low and the current in the circuit	or 1
P0616	is high. On the contrary, if the temperature in the resistor of the sensor rises, the current	
P0335	drops gradually. [DTC Information]	circuit
	The PCM determines if a front HO2S heater fault has occurred and sets DTC P0030 if the	
	ОК	
	Freeze Fr	rame Help Save

Figure 5-13 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.

## 5.2.2 Clear Codes

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

### NOTE

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

### ▶ To clear codes:

1. Press Clear Codes from Select Diagnostic Function menu.

• DEMO v1.10.007	ô	•	Ŧ	저	寮 🔓 🗗 🔗 下年 05:17:02
Select Application Diagnosis	Control Modu	les Engine	unction Menu		
Read Codes					
Clear Codes					
Live Data					
Active Test					
ECU Information					
Special Functions					
					激活 Windows 和空记用口题话 Wedges,

- 2. 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.

## 5.2.3 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.

### ▶ To view all live PID data:

1. Press **Live Data** from Select Diagnostic Function menu to display the live data menu.

► DEMO v1.10007 ▲ ○ 〒 図 常 値	) 🕑 🔗 下午 05:23:58
Select Application Diagnosis Control Modules Engine Function Menu	
Read Codes	
Clear Codes	
Live Data	
Active Test	
ECU Information	
Special Functions	
	激活 Windows 和PFIRECUBSE Windows,

Figure 5-15 Sample Function Menu Screen

2. Press **Select All** or choose some lines to display the data stream screen. The readings will be displayed in text format by default.

	DEMO v1.10.007 🔷 O	T R	奈 🖻 🗈 🔗 下午 05:27:56		
Select Application Diagnosis Control Modules Engine Function Menu					
	Name	Value	Unit		
Ē	MIL status indicator(MIL by DTC)	ON			
Text	Battery voltage	12.5	V		
	Engine cooling fan-Low	OFF			
	Boost pressure sensor	3047	hPa		
Graph	Air mass flow	125	kg/h		
	Accelerator pedal position sensor	100	%		
		?			
		Help Save	Pause Record		

Figure 5-16 Sample Live Data Screen

Name	Button	Description
Help	?	To provide help information of a PID
Record		To make record of live data
Save		To save live data of current frame
Pause		To stop recording live data

Table 5-1 Live Data Screen Button Screen

- 3. Swipe the screen up and down to view additional information when necessary.
- 4. 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.

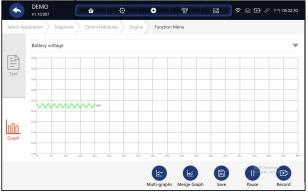


Figure 5-17 Sample PID Graph Screen

• **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 5-18 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.

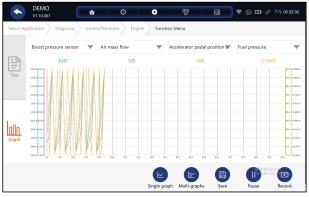


Figure 5-19 Sample Merge Graph Screen

#### 5.2.4 ECU Information

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

#### To read ECU information:

1. Press ECU Information from Select Diagnostic Function menu.

► DEMO v1.10007 ▲ ○ 〒 図 ※ @	) 💌 🔗 下午 05:34:54
Select Application Diagnosis Control Modules Engine Function Menu	
Read Codes	
Clear Codes	
Live Data	
Active Test	
ECU Information	
Special Functions	
	激活 Windows 455112町13855 Windows,

#### Figure 5-20 Sample Function Menu Screen

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

← DEMO v1.10.007	T \$\hlow\$ → \$\sigma\$ \to\$ \$\hlow\$ \to\$ \$\hlow\$ \$\to\$ \$\to\$ \$\hlow\$ \$\to\$ \$\t
Select Application Diagnosis Control Modules Engine Function Met	nu
Vehicle manufacturer ECU hardware number	Hyundai_EU_01032
ECU ROM ID	Hyundai_D1.7TCU2
	部語 Windows Refront Case

Figure 5-21 Sample ECU Information Screen

3. Press **Save** to store ECU information. Press To print the information if need be. Press to exit.

#### 5.2.5 Active Tests

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

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

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

#### IMPORTANT

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

#### NOTE

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

#### To start a test:

1. Press Active Test from the menu and a list of available options displays.

DEMO         ๔         ○         〒         ⊠         ≈         ⊨           v1.10007         ๔         ○         〒         ⊠         ≈         ⊨	) 🖸 🔗 下午 05:38:15
Select Application Diagnosis Control Modules Engine Function Menu	
Read Codes	
Clear Codes	
Live Data	
Active Test	
ECU Information	
Special Functions	
	調査 Windows 税留 記書に加加 Windows。

Figure 5-22 Sample Function Menu Screen

2. Select an option to start the test and live data of the selected test displays.

DEMO         Image: Image	🗃 💽 🔗 下午 05:38:44
Select Application Diagnosis Control Modules Engine Function Menu Active Test	
A/C compressor relay (M/T only)	
MIL lamp	
PTC heater relay	
Fan motor control-High speed	
Cruise control main lamp(Connected by wire)	
Cruise control SET lamp(Connected by wire)	
Glow control lamp(Connected by wire)	
Glow relay	激活 Windows
Immobilizer lamp(Option)	TV25-4KBE AABUS VEEDANIN,

Figure 5-23 Sample Active Test Screen

- Follow on-screen instructions to make proper selections and operations to complete the tests.
- 4. Press 🔄 to exit.

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

#### 5.2.6 Special Functions

These functions perform various component adaptations of the control module under test, allowing you to recalibrate or configure certain components after making repairs or replacement.

### **5.3 Special Functions**

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

Generally the menu options are:

- Service
- Programming
- Hot Function

#### 5.3.1 Service

The **Service** section is specially designed to provide you quick access to the vehicle systems for various scheduled service and maintenance performances.

- To start a service function:
  - 1. Select Special Functions from main menu and press ENTER to confirm.

DEMO V1.10.004	â	¢	0	T	8	
Menu The 10th VIN character	Vehicle Ma	in menu				
Diagnosis						
Special functions						

Figure 5-24 Sample Main Menu Screen

2. Select **Service** option from the Special Functions menu. A list of available services display.

DEMO V1.10.004	â	¢	•	9	
Menu > The 10th VIN character	) Vehicle ) Mair	menu Special	functions		
Service					
Programming					
Hot function					

Figure 5-25 Sample Special Functions Screen

Select the service you want to perform. Follow on-screen instructions to make proper selections and operations to complete the tests.

OPEL V1.10.009	<b>^</b>	¢	•	8	8	
Menu > The 10th VIN character	Vehicle	Main menu 📏 Spe	cial functions Se	irvice		
Maintenance						
Powertrain						
Chassis						
Body						

Figure 5-26 Sample Service Function Screen

#### 5.3.2 Coding and Programming

GT90 Max allows for the coding and programming of a replacement control module or changing previously stored incorrect coding.

Coding also is known as Teach-in Program or Component Adaptation. It is the process of selecting and activating one program for a specific vehicle from a set of programs that the factory installed in the control module. This allows one control module to be used for different models, countries, and emission applications.

Programming is the process of taking a blank control module and then adding the correct vehicle program to memory.

To start a coding & programming test:

1. Select Special Functions from main menu and press ENTER to confirm.

DEMO V1.10.004	â	ø	•	T	8	
Menu The 10th VIN character	Vehicle Ma	ain menu				
Diagnosis						
Special functions						

Figure 5-27 Sample Main Menu Screen

2. Select **Programming** option from the Special Functions menu. A list of available services display.

DEMO V1.10.004	â	o	•	٦	8	
Menu > The 10th VIN character	🔪 Vehicle 🔪 Main	menu Special	functions			
Service						
Programming						
Hot function						

Figure 5-28 Sample Special Functions Screen

3. Select the function you want to test. Follow on-screen instructions to make proper selections and operations to complete the tests

#### 5.3.3 Hot Functions

It is designed for most common used functions like battery configuration, oil light reset and provides quick access to service functions for the technicians.

#### To start a test:

- 1. Select Special Functions from main menu and press ENTER to confirm.
- 2. Select **Hot Functions** option from the Special Functions menu. A list of available services display.

DEMO V1.10.004	•	٥	0	T	8			3.2V
Menu > The 10th VIN characte	r 🔪 Vehicle 🔪 Mai	n menu Special	functions					
Service								
Programming								
Hot function								
$\langle \rangle$	6		Þ	Õ	(M)	ŝ	$(\uparrow)$	æ

Figure 5-29 Sample Special Functions Screen

Select the function you want to test. Follow on-screen instructions to make proper selections and operations to complete the tests

OPEL V1.10.009	â	ø	0	T	6		15.8V
Menu > The 10th VIN character	Vehicle A	ain menu 🔪 Special	functions Ho	function			
Oil Reset							
TPMS							
Immo & Keys							
Injector							
Throttle							
Odometer							
Headlamp							
			Þ	0	(1)	с <del>у</del>	 °OOO

Figure 5-30 Sample Hot Functions Screen

### 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/TBA
- SAS Calibration
- CVT

- Gear Learn
- TPMS Relearn
- Odometer
- Injector Coding
- ABS Bleeding
- Key Programming/Immobilizer

# 6.1 Oil Light 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. Depending on the vehicle being tested, any of the following means displays:

- 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

**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, provides 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 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.
- 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 let 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 saves 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 TPMS Relearn

After the tire pressure MIL turns on and maintenance is performed, the tire pressure resetting function must be performed to reset tire pressure and turn off the tire pressure MIL.

#### 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.

### 6.12 ABS Bleeding

Anytime the brake system is opened to replace components such as calipers, wheel cylinders, the master cylinder, or brake lines or hoses, air gets inside. The air has to be removed by bleeding the brakes if you want a firm brake pedal. Air trapped in the lines, calipers or wheel cylinders will make the pedal feel soft and spongy. Air is compressible, so when the brakes are applied any air bubbles in the system must first be compressed before the hydraulic fluid will transmit pressure to apply the brakes.

#### 6.13 Key Programming/Immobilizer

The transponder key is an aftermarket option that can be programmed for a number of vehicles. Also known as a chip key or ignition key, this key offers a level of convenience and security for your car. If your car is equipped with a chip key system, only a programmed key can turn on the ignition in your vehicle.

## 7 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
- Reports
- Data Playback
- Data Record

	Data Manager	⑦ □ ■      ⑦ 上午 10:50:23
Image		>
Reports		>
Data Playback		>
Data Record		>

Figure 7-1 Sample Data Manager Screen

### 7.1 Image

**Image** option leads to screens for review of stored screenshots. In case a failure of GT90 Max application or the Android system occurs, please just take a screenshot and send it to our team to help with the troubleshooting.

#### 7.1.1 How to Save an Image

To take a screenshot:

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

<b>DEMO</b> v1,10.007		0 • T	🛯 🛜 🖨 🖸 🔗 下午 05:10:12
Select Application Diag	gnosis		
4 systems found			
1.Engine(Engine co	ontrol)		Fault   5
2.Airbag(Airbag co	ontrol)		Fault   3
3.AIRCON(Air cond	ditioner)		Fault   4
4.EPS(Motor driver	n power steering)		Fault   8
Engine(Engine co	ntrol) [5]		
P0030	Active	HO2S heater control circu	it bank 1 sensor 1

Figure 7-2 Sample Screenshot Screen

#### 7.1.2 Review Image

- To review the screenshots:
  - 1. Press **Data Manager** from home screen of GT90 Max diagnostic application.
  - 2. Press Image and all available pictures will be displayed.



Figure 7-3 Sample Browse Picture Screen

3. 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.

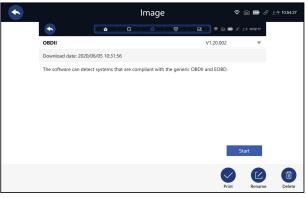


Figure 7-4 Sample Edit Picture Screen

4. Press Edit to edit all pictures like Rename or Delete.



Figure 7-5 Sample All Pictures Edit Screen

### 7.2 Reports

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

#### 7.2.1 How to Create a Report

- ▶ To create a report:
  - 1. If need be, press the Save icon on the test screen to save the data.

DEMO v1.10.007	ô ()	● 🐨 🗷 🛜 🖻 🖉 上午 11.00.12
Select Application Diagnosis	Control Modules Engin	Function Menu
ID	Status	Description
P0030	Active	HO2S heater control circuit bank 1 sensor 1
P2096	History	Post catalyst fuel trim system too lean bank 1
P0130	Active	O2 sensor circuit bank 1 sensor 1
P0616	History	Starter relay circuit low
P0335	Active	Crankshaft position sensor A circuit
		Freeze Frame Help Save

Figure 7-6 Sample of DPF Screen

2. Add a description to the DPF report, and press the OK to save.

#### 7.2.2 Review Report

- ▶ To review the PDF reports:
  - 1. Press **Data Manager** from home screen of GT90 Max diagnostic application.
  - 2. Press Reports and all available files will be displayed.

	PDF	⑦  ⑦  ⑦  ⑦  ⑦  ⑦  7  9  11:19
DEMO-AutoScan-20200608-105847.pdf		2020/6/8 10:59
LANDROVER-DataStream-20200606-135314.pdf		2020/6/6 13:53
LANDROVER-VersionInfo-20200606-135116.pdf		2020/6/6 13:51
LANDROVER-DTC-20200606-135101.pdf		2020/6/6 13:51
LANDROVER-FreezeFrame-20200606-135004.pdf		2020/6/6 13:50
		80 C Windows Correct Case View of the Correct

Figure 7-7 Sample Browse PDF Screen

52 Windows Diagnostic Platform GT90 Max User's Manual V1.01 3. Press Edit icon to edit all files like Rename or Delete the files.

	PDF		<pre>\$&lt; 6</pre>	⊘ 上午 11:02:11
DEMO-AutoScan-20200608-105847.pdf		202	20/6/8 10:59	
LANDROVER-DataStream-20200606-135314.pdf		202	20/6/6 13:53	
LANDROVER-VersionInfo-20200606-135116.pdf		202	0/6/6 13:51	
LANDROVER-DTC-20200606-135101.pdf		202	0/6/6 13:51	
LANDROVER-FreezeFrame-20200606-135004.pdf		202	0/6/6 13:50	
	Select All	Deselect	Rename Dele	

Figure 7-8 Sample Edit PDF Screen

### 7.3 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 GT90 Max diagnostic application.
- 2. Press Data Playback and all available records display.
- Select one record and press Select All button or choose some parameters, then press the OK button to review. All recorded parameters display in text format by default.

		Data Playback	ŝ	ြ 🔜 🔗 上午 11:03:06
	Name	Reference	Value	Unit
Ē	Short term fuel trim sensor 2 bank 2		5.00	%
Text	Engine input 2 - E-box fan monitor.		4.62	
	Engine input 3 - default terrain		On	
	Engine output 1 - starter relay.		Inactive	
	Engine output 1 - diagnostics module -	tank leak	Off	-
Graph	Engine output 2 - kick down.		Off	
	Sensor power supply monitor	Frame: 11	Off	• V 11

Figure 7-9 Sample Data Playback Screen

4. 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.

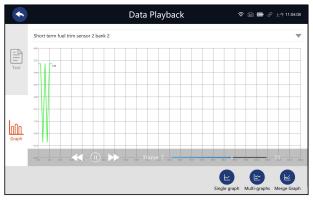


Figure 7-10 Sample Graph Screen

5. Press Edit icon to Rename or Delete the records.

## 7.4 Data Logging & Data Record

Data Logging collects the communication data between the scanner and the vehicle under test to help with troubleshooting of diagnostic failures. The logs will be saved to the tablet. The logging icon displays on the title bar of the diagnostic screen whenever the scanner builds communication with the vehicle.

#### To create a debug data log:

1. When connected to a car, click the Data Logging icon to start record the communication data between the tablet and the vehicle.

CEMO V1.10.007	â	٥	0	Ŧ	교	≈ 6 <b>B</b>	⊘ 上午 11:07:03
Select Application							
Diagnosis							
Special Functions							

Figure 7-11 Sample Data Logging Screen

- 2. Click the Data Logging icon again to stop the recording and data log record will be saved automatically.
- 3. Go to Data Manager -- Data Record to view the stored logs.

## 8 VCI Manager

**VCI Manager** allows you to make Bluetooth pairing between the tablet and the VCI dongle, update VCI firmware and unbind a VCI dongle.

	VCI Settings	帝      命      ●      ◆ 上午 11:10:01
VCI VCI Information		>
Bluetooth		>
Unbind a VCI dong	gle	>

Figure 8-1 Sample VCI Manager Screen

### 8.1 VCI Information

This menu will let you view the details of VCI Information.

	VCI Information	
VCI Name		Foxwell0015601
VCI Bluetooth Address		88:6B:0F:92:D6:3D
VCI Serial Number		N80001M003709
VCI Firmware Version		V1.0
VCI Production Date		20190122

Figure 8-2 Sample VCI Information Screen

### 8.2 Bluetooth

During the Bluetooth pairing process, make sure the VCI dongle is correctly powered by either connected to a vehicle or connect to the tablet with the USB Type-B cable.

To make Bluetooth pairing of the VCI dongle and the tablet

- 1. Connect the VCI dongle with a vehicle via diagnostic cable or connect to the tablet with the USB Type-B cable.
- 2. Click the VCI Manager application on the GT90 Max Menu.
- 3. Select Bluetooth option from the list.
- 4. Select the right device with the GT90 Max serial number from the list.
- 5. When paring is successfully done, the status is shown as Paired.
- 6. Wait a few seconds, and the button at the toolbar illuminates green, indicating the tablet is connected to the VCI dongle via Bluetooth.

NOTE

A VCI dongle can be paired with ONE tablet each time.

### 8.3 Unbind a VCI dongle

This option allows you to unbind a VCI dongle when the VCI dongle is defective or stolen.

- To unbind a VCI dongle:
  - 1. Click the VCI Manager application on the GT90 Max Menu.



Figure 8-3 Sample VCI Manager Screen

2. Select **Unbind a VCI dongle** option from the option list and press **OK** to confirm.

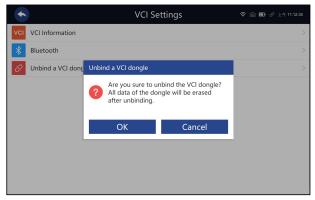


Figure 8-4 Sample Unbind Prompt Screen

- ► To bind a new VCI dongle:
  - 1. Connect the VCI dongle with GT90 Max tablet via USB cable.

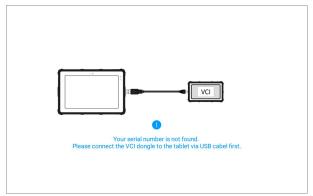


Figure 8-5 Sample Bind Prompt Screen

2. When system database initialization finished, you can use the tablet normally.

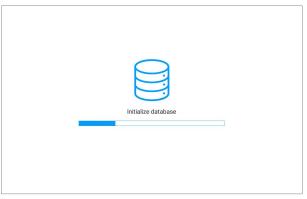


Figure 8-6 Sample Data Initialization Screen 57 Windows Diagnostic Platform GT90 Max User's Manual V1.01

# 9 Registration and 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.

### 9.1 Registration

If you are new to FOXWELL, please get a FOXWELL ID first either by

- Registering with the built-in update client;
- Or registering through our website with the URL:

http://www.foxwelltech.us/register.html

#### 9.1.1 Register with Built-in Update Client

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

- To register with built-in update client:
  - 1. Press **Update** from home screen of GT90 Max diagnostic application, and the update client starts up automatically.

R Email or Foxwell ID	
₽assword	¥
Stay signed in	Forget password
Sig	n In
Free reg	istration

Figure 9-1 Sample Update Client Main Screen

2. Click Free Registration button, and the registration window will pop up.

	Register User
User Name*	Email address
Verification Code*	Verification Code Send code
Password*	Password
Confirm Password*	The password contains at least one letter and a number, and is 6-16 bits long. Confirm Password
	O By creating an account, you agree to Foxwell's Conditions of Use and Privacy Notice.
	Free registration

Figure 9-2 Sample ID Registration Screen

3. Enter one of your email addresses as your user ID and click the **Send Code** button. We will send a 4-digit verification code to the email you just entered. Find the security code in your mailbox, input the code, create a password and click **Free Registration** to complete.

	Register User
User Name*	e Dioxwelltech.com
Verification Code*	4704 Send code
	0
Password*	
	The password contains at least one letter and a number, and is 6-16 bits long. Password Strength: Weak
Confirm Password*	
	By creating an account, you agree to Foxwell's Conditions of Use and Privacy Notice.
	Free registration

Figure 9-3 Sample ID Registration Screen

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

	Register User
User Name*	elva liu@foxwelltech.com
Verification Code*	91 Completed Send code
Password*	The account has been created successfully!
Confirm Password*	ок
	By creating an account, you agree to Foxwell's Conditions of Use and Privacy Notice.
	Free registration

Figure 9-4 Sample Registration Done Screen

5. The serial number will be recognized automatically and click **Submit** to activate the scanner.

Activate Serial Number			
	i070P4e000057		
	Submit		

Figure 9-5 Sample Product Activation Screen

6. The product is registered successfully.

Activate Serial Number			
Completed Product is registered successfully! OK			

Figure 9-6 Sample Activation Done Screen

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#### 9.1.2 Register through Website

To register through our website:

1. Visit Foxwell official website www.foxwelltech.us and press **Register** icon, or go to the registration page by selecting **Support** from home page and then click **Register**.



Figure 9-7 Sample Website Register Screen

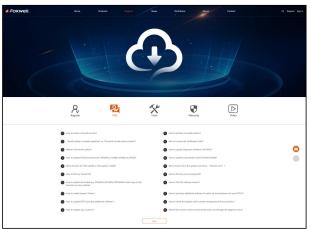


Figure 9-8 Sample Website Register Screen

2. Enter one of your email addresses as your user ID and click the **Send Code** button. We will send a 4-digit verification code to the email you just entered. Find the security code in your mailbox, input the code, create a password and click Free Registration to complete.

	CREATE AN	I ACCOUNT	
	Email address		
	Verification code	Send code	
	Password		
· · · · · · · · · · · · · · · · · · ·	Confirm password		
	By creating an account, you agree Privacy Notice.	to Foxwell's Conditions of Use and	
	Free reg	istration	

Figure 9-9 Sample Create Account Screen

3. Sign in to the **Member Center**, click **New Registration**, input the right serial number and click **Submit** to activate the product.

* Serial Number :	please input your serial number please input your serial number	۲
	Submit Reset	
	Submit Reset	

Figure 9-10 Sample Product Register Screen

### 9.2 Update

To update the diagnostic application:

- 1. Press **Update** from home screen or press update shortcut **(D)** at the tool bar, 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		) چ	🗟 🎟 🖉 L4	11:16:24
Home Update					
OName	Current Version	Updatable Versions		Size	
⊖ GT90MaxAPP	V1.01.034	V1.01.034		152.9MB	$\sim$
O Common Text Library	V1.10.003	V1.10.003		36.84KB	
⊖ A/F	V1.10.003	V1.10.003		496.1KB	$\sim$
Oabarth	V1.40.101	V1.40.101		8.75KB	$\sim$
OACURA	V1.30.036	V1.30.036		9.076KB	
OAIRBAG_RESET	V1.10.001	V1.10.001		518.6KB	$\sim$
0 software updates Serial number: N80001M003709		(S) Update	Refre		)

Figure 9-11 Sample Update Screen

# **10 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
- Push Message
- Automatic Update
- Show Disclaimer
- Full Screen Mode
- System Settings
- Storage Path Selection
- Uninstall Vehicle Software
- Print Settings
- About

## 10.1 Change 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 GT90 Max diagnostic application.
- 2. Press Unit and available unit system display.
- 3. Select a unit system.

## 10.2 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 GT90 Max diagnostic application and select **Language**. Then all available language options display.
  - 2. Select your preferred language and click Yes to confirm.

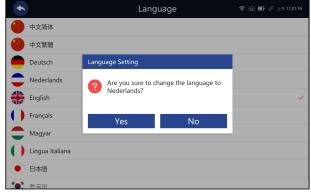


Figure 10-1 Sample Language Setting Screen

### 10.3 Push Message

This option allows you to enable/disable **Push Message** function. Software updates and technical information will be delivered to you automatically. It is highly recommended to enable it all the time, so you won't miss out any new updates from Foxwell.

- To enable/disable Push Message:
  - 1. Press Settings from home screen of the GT90 Max diagnostic application.
  - 2. Click the button on the right side. If turned to green, the Push Message function is enabled. If turned to grey, the function is disabled.

	Settings	중 @ ■ ♂ 上午 11:22:47
L Unit		Metric >
Eanguage		English >
Push Message		
(     Automatic Update		
i Show Disclaimer		
Full Screen Mode		
System Settings		>
Storage path selection		>
Uninstall Vehicle Softwa	ire	>
Print Settings		>

Figure 10-2 Sample Push Message Setting Screen

### **10.4 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.

DEMO	EOBD	вмш	ABARTH	ALFA
AstonMartin	CITROEN	Ferrari	FIAT	LANCIA
LANDROVER	MERCEDES	MINI	OPEL	PEUGEOT

Figure 10-3 Sample Update Remark Screen

#### **10.5 Show Disclaimer**

This option allows you to turn on/off Disclaimer notice. If it is enabled, the Disclaimer will show on when open the diagnostic program.

#### 10.6 Full Screen Mode

This option allows you to enable/disable Full Screen Mode.

## 10.7 System Settings

This option provides you a direct access to the Windows system settings, like sound, display, system security and etc.

### **10.8 Storage Path Selection**

This option lets you to choose the file storage path when saving a file or data.

### 10.9 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 GT90 Max.
  - 2. Tap the Uninstall Vehicle Software option on the option list.
  - 3. Choose the vehicle software you want to delete or choose Select All.

		Settings		중 □ ■ Ø 上午 11:28:06
		I Vehicle Software		
LEXUS	MAPLE	MASERATI	МАУВАСН	MAZDA
Mazdachina	MERCEDES	MINI	MITSUBISHI	NISSAN
OBDII	OPEL	PERODUA	PEUGEOT	PORSCHE
99 softwares Serial number: N80	0001M003709			Deselect Delete

Figure 10-4 Sample Uninstall Vehicle Software Screen

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

•	Settings	⑦ □ □ ♂ 上午 11:28:43
Home Settings	Uninstall Vehicle Software	
8 8	8	8
LEXUS	MARIE MASERATI MAYBACH Uninstall Vehicle Software	MAZDA
× ×	? Are you sure to uninstall this software?	NISSAN
8 8	OK Cancel	8
OBDII	OPEL PERODUA PEUGEOT	PORSCHE
99 softwares Serial number: N80001M	003709	Deselect Delete

Figure 10-5 Sample Uninstall Vehicle Software Screen

### **10.10 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 GT90 Max.
- 2. Tap the Printing Settings option on the option list.

	Settings	⑦ □ ■
L Unit		Metric $\geq$
🖨 Language		English $\geq$
Push Message		
(     Automatic Update		
(i) Show Disclaimer		
Full Screen Mode		
System Settings		>
Storage path selection		>
Uninstall Vehicle Software		>
Print Settings		>

Figure 10-6 Sample Print Settings Screen

3. Choose the right printer.

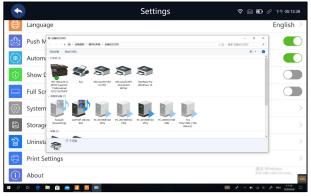


Figure 10-7 Sample of Printer Screen

#### NOTE

Please make sure the printer and the GT90 Max in the same Wi-Fi or Network when printing.

#### 10.11 About

Selecting **About** option opens a screen that shows information about the GT90 Max, 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 GT90 Max diagnostic application.
- 2. A screen with detailed information of the scanner displays.

•	About	京
Hardware Version		V1.0
Software Version		V1.01.034
Operating System Version		Windows 10
Serial Number		N80001M003709
Production Date		20190122
Disclaimer		>
Copyright©,	2020 Foxwell Technology Co., Ltd.	All rights reserved.

Figure 10-8 Sample Tool Information Screen

# 11 Shop Manager

This section illustrates how to manage the workshop information, vehicle test records and customer information.

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

- Vehicle History
- Workshop Information

Shop Manager			
	Vehicle History	>	
æ	Workshop Information	>	

Figure 11-1 Sample Shop Manager Screen

### **11.1 Vehicle History**

This function keeps records of tested vehicles, including vehicle information and the fault codes from previous diagnostic sessions etc. Besides, **Vehicle History** also allows you to start a new test of tested vehicle without the need to do vehicle identification again by pressing the **Diagnostic** in the record.

Vehicle History		
Title : Vios		
Diagnostic >		
Customer Information		
First Name :	Last Name :	
Vehicle Information		
Year:	VIN :	
Brand : TOYOTA	Mileage :	

Figure 11-2 Sample Vehicle History Screen

### **11.2 Workshop Information**

The **Workshop Information** allows you to edit, input and save the detailed workshop information, such as shop name, slogan, address, phone number and more. It will show as the header of the printed documents when printing vehicle diagnostic reports and other test files.

Workshop Information			
	Shop Name : Slogan : Address :		
City :		Zip/Post Code :	
State/Province		Email :	
Telephone :		Website :	
Fax			

Figure 11-3 Sample Workshop Information Screen

# 12 My Account

This section displays the information related to your account and product.

When **My Account** application is selected, a menu with available options displays. Menu options typically include:

- My Account
- My Products
- Complaints

	My Account	奈 🕞 판 🔗 下午 05:14:28
A My Account		>
My Products		>
① Complaint		>
	Log out	激活 Windows
ब 🔎 🗷 🔁 🛤 🏦 💼 🙆 🖬		R 등* 12.815 Windows, 10.000 W

Figure 12-1 Sample My Account Screen

#### 12.1 My Account

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

		My Account	⑦ □ ■      ⑦ 上年 11:34:56
First Name	w		
Last Name	w		
Company	foxwell		
Telephone	131		
Fax	ok		
Address			
City	@123		
State/Province			
Country	China		
Zip/Post Code			
		Modify	

Figure 12-2 Sample My Account Screen

#### **12.2 My Products**

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

<ul> <li>Image: A set of the set of the</li></ul>		S/N Activation	S/N Management	奈 🗇 🎟 🔗 上午 11:35:45
Oltem	Part Number	Serial Number	Expiry Date	
O 1	GT90Max	N80001M003709	2023/6/6	11:24
O 2	NT644Elite	N644Eb3000009	2853/1/2	3 9:18
O 3	NT644Elite	N644E1c000011	2853/2/1	16:32
O 4	i70Pro	i070P6f000046	2021/11/	1 15:07
05	i70Pro	i070P71000011	2022/6/1	1 19:19

Figure 12-3 Sample My Products Screen

#### **12.3 Complaints**

This option allows you send your compliant or feedback about Foxwell products.

	Complaint	⑦ □ □ ∂ 上午 11:37:49
Sal Made		
* 101		
"Ter		
* Engan flor		
* Descriptori		
Lylond Generics		
		Refresh Stop

Figure 12-4 Sample Feedback & Suggestions Screen

# **13 Remote Support**

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

If you need our team to remote control your GT90 Max,

1. Click the **Remote Control** icon on the main menu of the GT90 Max to start TeamViewer.

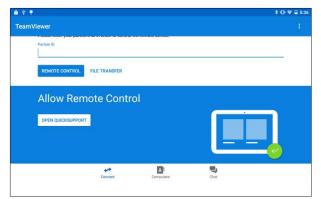


Figure 13-1 Sample Remote Control Screen

2. Press QuickSupport icon and the TeamViewer ID will show.

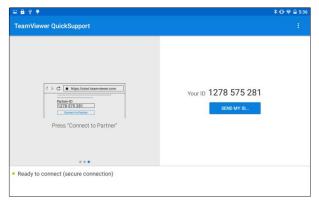


Figure 13-2 Sample QuickSupport Screen

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

# 14 Technical Data

This option provides you with the quick access to technical data like wiring diagram and repair tips provided by HaynesPro, AutoData or others.

	Technical Data	⑦ □ ●       ● ↓ + 11:43:22
ALLDATA		>
Autodata		>
Auto Database		>
AutoInfo		>
HaynesPro		>
HaynesPro-Australia		>
ब 🕫 🖻 🖶 🏛 💼 🙆		■ A へ 10 A 中 日 1140 □

Figure 14-1 Sample Technical Data Screen

## **15 Tutorials**

This option provides you with training videos and guides about how to use this scanner like registration and update issue etc.

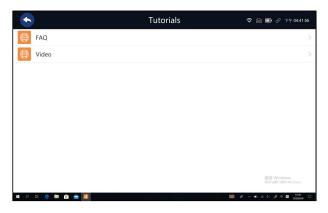


Figure 15-1 Sample Tutorials Screen

### **16 Functions**

This option links to function search page which lets you search the supported vehicle models, systems and functions.

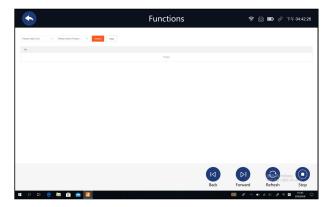


Figure 16-1 Sample Functions Screen