### Trademarks

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

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

### **Copyright Information**

©2024 Shenzhen Foxwell Technology Co., Ltd. All rights reserved.

### Disclaimer

The information, specifications and illustrations in this manual are based on the latest information available at the time of printing. Foxwell reserves the right to make changes at any time without notice.

#### Visit our website at

www.foxwelltech.us

For Technical Assistance, send us email at

support@foxwelltech.com

# **One-Year Limited Warranty**

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

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

### **Terms and Conditions**

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

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

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

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

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

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

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

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

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

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

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

5 ANY IMPLIED WARRANTY OF MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE OR USE, SHALL BE LIMITED TO THE DURATION OF THE FOREGOING LIMITED WRITTEN WARRANTY. OTHERWISE, THE FOREGOING LIMITED WARRANTY IS THE CONSUMER'S SOLE AND EXCLUSIVE REMEDY AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. FOXWELL SHALL NOT BE LIABLE FOR SPECIAL, INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOSS OF ANTICIPATED BENEFITS OR PROFITS, LOSS OF SAVINGS OR REVENUE, LOSS OF DATA, PUNITIVE DAMAGES, LOSS OF USE OF THE PRODUCT OR ANY ASSOCIATED EQUIPMENT, COST OF CAPITAL, COST OF ANY SUBSTITUTE EQUIPMENT OR FACILITIES, DOWNTIME, THE CLAIMS OF ANY THIRD PARTIES, INCLUDING CUSTOMERS, AND INJURY TO PROPERTY, RESULTING FROM THE PURC HASE OR USE OF THE PRODUCT OR ARISING FROM BREACH OF THE WARRANTY, BREACH OF CONTRACT, NEGLIGENCE, STRICT TORT, OR ANY OTHER LEGAL OR EQUITABLE THEORY, EVEN IF FOXWELL KNEW OF THE LIKELIHOOD OF SUCH DAMAGES. FOXWELL SHALL NOT BE LIABLE FOR DELAY IN RENDERING SERVICE UNDER THE LIMITED WARRANTY, OR LOSS OF USE DURING THE PERIOD THAT THE PRODUCT IS BEING REPAIRED.

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

# **Safety Information**

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

# **Table of Contents**

ONE-YEAR LIMITED WARRANTY	2
SAFETY INFORMATION	
Safety Message Conventions Used	4
Important Safety Instructions	
1 USING THIS MANUAL	9
1.1 BOLD TEXT	9
1.2 Symbols and Icons	9
1.2.1 Solid Spot	9
1.2.2 Arrow Icon	9
1.2.3 Note and Important Message	9
2 INTRODUCTION	10
2.1 Scanner Descriptions	
2.2 Accessories	11
2.3 TECHNICAL SPECIFICATIONS	12
3 GETTING STARTED	13
3.1 Powering up the Scanner	
3.1.1 Internal Battery Pack	
3.1.2 External Power Supply	
3.2 Shutting Down the Scanner	
3.3 Screen Layout of Home Screen	
3.3.1 Application Menu	15
3.3.2 Diagnostic Menu	
4 MY ACCOUNT	16
4.1 Registration	
4.2 Sign in	
4.2.1 Product activate	
4.3 My Account	
4.4 My Products	
4.5 Feedback and Suggestions	21
5 UPDATE	
5.1 Automatic Update	23
5.2 Manual Update	
6 VCI MANAGER	24
7 FIRMWARE UPDATE	26

8 VEHICLE IDENTIFICATION	27
8.1 Vehicle Connection	28
8.2 Vehicle History	29
9 DIAGNOSIS	
9.1 VEHICLE IDENTIFICATION	31
9.1.1 Quick Scan	32
9.1.2 Control Modules	33
9.2 DIAGNOSTIC OPERATIONS	
9.2.1 ECU Information	35
9.2.2 Read Codes	36
9.2.3 Clear Codes	37
9.2.4 Live Data	
9.2.4.1 All Data	
9.2.4.2 Custom List	42
9.2.4.3 Record data	42
9.2.5 Active Test	43
9.3 Service	46
10 OBD	47
10.1 QUICK SCAN	47
10.2 DIAGNOSTIC OPERATIONS	49
10.2.1 ECU Information	49
10.2.2 Read Codes	50
10.2.3 Clear Codes	50
11 ABS	51
11.1 VEHICLE IDENTIFICATION	
11.2 DIAGNOSTIC OPERATIONS	53
11.2.1 ECU Information	53
11.2.2 Read Codes	54
11.2.3 Clear Codes	55
11.2.4 Live Data	55
12 LIMIT	56
13 DPF	58
14 INJECTOR CUTOFF	61
15 AUXILIARY TOOLS	64
15.1 File BROWSER	
15.2 Pin detection	
16 DATA MANAGER	65

16.1 IMAGE	
16.1.1 How to Save an Image	
16.1.2 Review Image	
16.2 PDF REPORT	
16.2.1 How to Create a PDF Report	
16.2.2 Review PDF Report	70
16.3 ДАТА РІАУВАСК	
17 SETTINGS	
17.1 UNIT	
17.2 LANGUAGE	
17.3 Font Size	73
17.4 Module Sorting	73
17.5 Sort Tiles	74
17.6 Remote Control	74
17.7 Automatic Update	75
17.8 System Settings	75
17.9 GENERAL	75
17.10 UNINSTALL VEHICLE SOFTWARE	75
17.11 Clear App Data	
17.12 Print Settings	
17.13 Авоит	
18 SHOP MANAGER	79
18.1 Vehicle History	80
18.2 Workshop	
18.3 Customer	
19 REMOTE SUPPORT	

# **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 i50HD 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:

**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

## 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

i50HD 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 truck brands and supports the most commonly required service. 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.





- **5.5" TFT LCD Touch Screen** shows menus, test results and operation tips.
- **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.

6 **Diagnostic Port** -provides connection between vehicle and the scanner.

#### IMPORTANT

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

# 2.2 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.

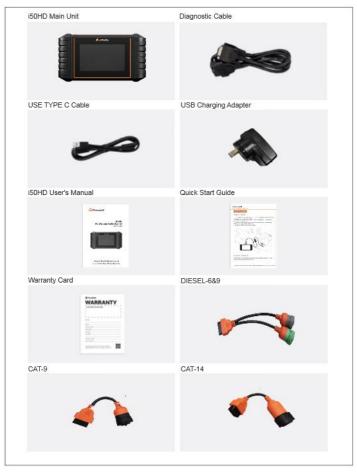


Table 2-3 Accessories

# 2.3 Technical Specifications

Item	Description	
Screen	5.5" TFT Capacitive LCD screen; 1280*720 pixel	
Operation System	Android 9.0	
Processor	MT8167 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, KW81, KW82, GM UART, UART Echo Byte Protocol, Honda Diag-H Protocol, TP2.0, TP1.6, SAE J1939, SAE J1708,Fault-Tolerant CAN,CAN FD, DOIP, J1939,J1708,ISO27145	
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 2-4 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 i50HD 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

Auxilia	ry tools	9 Update	<b>Data Manager</b>	My Account
Settings	Remote Control	VCI Manager	<b>Firmware Update</b>	<b>Shop Manager</b>

Figure 3-2 Sample Home Screen

## 3.3.1 Application Menu

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.
- **OBD** OBD refers to the on-board diagnostic system used to monitor and diagnose the working status and fault information of the vehicle.
- **ABS** -Give full play to the effectiveness of the brakes and shorten braking time and distance.
- Limit -Check and set the engine speed and the vehicle road speed limit when the vehicle is stationary.
- DPF -View diesel emissions levels with brake data.
- Injector cutoff -When idling, manually stop any cylinder and observe whether the working status of the engine changes to analyze whether the working performance of the cylinder is normal.
- Auxiliary tools -File storage and pin detection.
- 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 feedback 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.
- VCI Manager VCI manage (VCI binding, unbinding, re-scan vehicle software).
- Firmware Update VCI firmware update.
- Shop manager Allow technicians to manage shop information and vehicle test records.

## 3.3.2 Diagnostic Menu

Touch **Diagnostic** at the i50HD 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	Home	Back to the Application Menu.	
2	History	Displays the tested vehicle records.	
3	All	Displays all vehicles can be tested.	

Table 3-4 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		>
Feedback and Sugges	stions	>
	Sign In	

Figure 4-1 Sample My Account Interface

## 4.1 Registration

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

- To register with built-in client:
  - Press My Account or Update from home screen of i50HD diagnostic application, the user login page will show, then press Free registration button to register an account.

		VC6 🛜 100% 🕅 08:05
R Email or Foxwell ID		
Password		
Stay signed in	Forget password	
Sigi	n In	
Free reg	istration	

Figure 4-2 Sample Update Client Interface

2. 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	<b>ሥር¦</b> 🛜 100% 🖬 08:11
User Name*	@foxwelitech.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*		
	By creating an account, you agree to Foxwell'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	🛚 🖉 🧟 🕫 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 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.

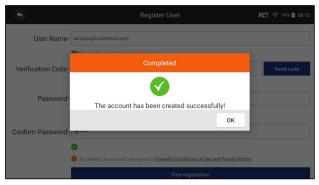


Figure 4-5 Sample Registration Done Screen

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



Figure 4-6 Sample Product Activation Screen

## 4.2 Sign in

Press **My Account** or **Update** from home screen of i50HD diagnostic application, the user login page will show, enter your FOXWELL ID and password, and press **Sign in** button to sign in.

•			ون 🕲 🛠 🖒 🖉 ۲۰۵۴ کې 🖉 ۲۰۵۴
	R Email or Foxwell ID		
	Password		
	🥏 Stay signed in	Forget password	
	Sign In		
	Free registrat	ion	

Figure 4-7 Sample Log in Screen

### 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.

•		<b>VC¦</b> 奈∦37% 🖬 04:41
	Warning	
	•	
	Your serial number has not been activated yet! Please activate first!	
	OK Cancel	
	Free registration	

Figure 4-8 Sample Product Activation Screen

2.Click Submit to continue the activation and press  $\circ$  to give up activation.

Activate Serial Number	KC 🛜 37% 🗟 04:41
Submit	

Figure 4-9 Sample Product Activation Submit Screen

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

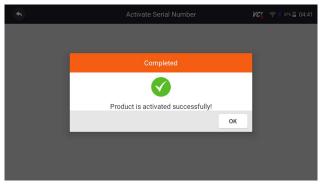


Figure 4-10 Sample Activate Success Screen

## 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.

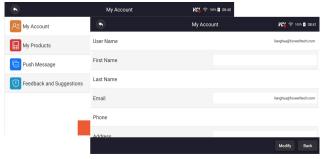


Figure 4-11 Sample My Account Screen

## 4.4 My Products

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

Му	My Account 🛛 🔀 🧟 🛙					
	S/N Manag	ement				
Serial Number						
	Submit					

Figure 4-12 Sample 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 i50HD diagnostic application.
- 2. Press **Feedback and Suggestions** option to show Feedback page, there are two options--Diagnosis Feedback and General Feedback.

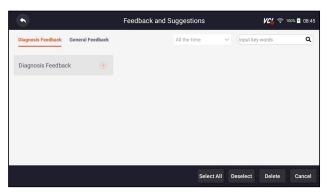


Figure 4-13 Sample Feedback Record Screen

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.

	Complaints 🛛 🔀 🧟						
Error Type Selectio	'n						
VIN reading error/							
VIN reading error	Make / Model error	Decoding VIN error	Active Test error	System Commun	lication error		
Reading Codes error	Clearing Codes err	or Data Stream erro	r Special Functio	n error Translat	tion error		
Any other error							
Description & Rema	arks						
Please accurately des	cribe the nature and de	tails of the problem.					
			Save Upload	l Email	PDF Cancel		

Figure 4-14 Sample Feedback Edit Screen



Figure 4-15 Sample Email Select Screen

<sup>22</sup> i50HD User's Manual V1.3

# 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.

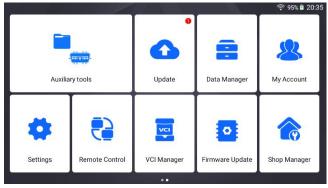


Figure 5-1 Sample Automatic Update Screen

**•** To automatic update:

- 1. Press Settings from home screen of the i50HD 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 i50HD 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.

i50HDOS	V1.3.2	▼ 765.25MB	2024/01/22	Update content >	Update
ISOHDAPP	V1.19.003	▼ 77.40MB	2024/01/11	Update content >	Latest
VCI200	V1.06.011	▼ 114.17КВ	2022/07/27	Update content >	Latest
Common Text Library	V1.38.001	▼ 96.27KB	2023/11/29	Update content >	Latest

Figure 5-2 Sample Update Screen

# 6 VCI Manager

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

Even if the VCI is not replaced, the existing VCI device will be automatically unbound when unbinding, and 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.

#### NOTE

This function cannot be bound to an external VCI, but can only be bound to a built-in VCI.

VCI unbind & rebind:

1. Click VCI Manager application on the i50HD 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.

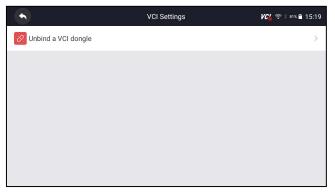


Figure 6-1 Sample Unbind a VCI dongle

•					
Unbind a VCI o	longle				
	Warning				
	Are you sure to unbind the VCI dongle? All data of the dongle will be erased after unbinding.				
	OK Cancel				

Figure 6-2 Sample Unbinding Confirmation Prompt

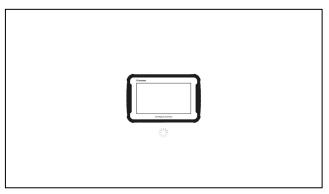


Figure 6-3 Sample Unbinding Current VCI

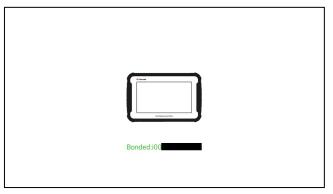


Figure 6-4 Sample Bind New VCI Successfully

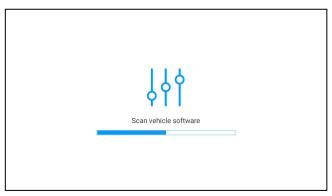


Figure 6-5 Sample Rescan Vehicle Software

# 7 Firmware Update

This application allows you to update the firmware of i50HD.

To update the firmware:

- 1. Click the **Update** application on the i50HD 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.

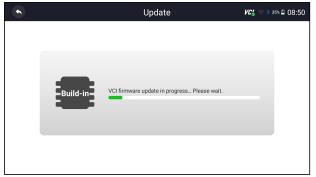
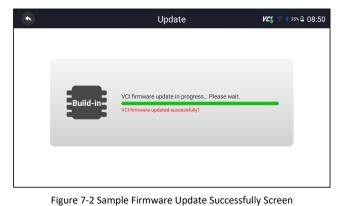


Figure 7-1 Sample Firmware Update Screen

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



## 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.

### 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. Attached the diagnostic cable to the scanner and tighten the captive screws to ensure good connection.
- 3. Connect a correct adapter to the data cable according to the vehicle being serviced and plug it into the vehicle DLC.
- 4. Switch the ignition key to the ON position.

The following are instructions for the two connection methods:

 Connection Of Standard OBD-II Interface: Vehicles connected using the standard OBD-II interface only need to use the integrated main test line OBD connector and no other connectors are required:

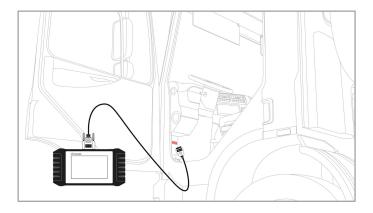


Figure 8-2 Sample Connection Of Standard OBD-II Interface Screen

Connection Of Non OBD-II:

Vehicles with non-standard OBD-II interface need to connect the main test line to the corresponding dedicated connector:

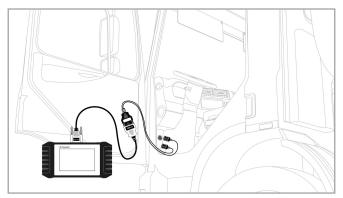


Figure 8-3 Sample Connection Of Non OBD-II Interface Screen

# 8.2 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 i50HD application.

2. Select **History** button at the top of the diagnostic page and the diagnostic records will display.

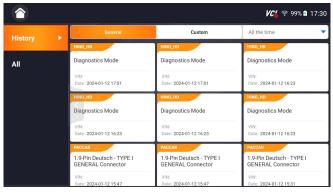


Figure 8-4 Sample History Record Screen

- 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	🛚 🖉 🛜 99% 🛍 17:30			
Title					
Diagnostics Mode					
Customer Information					
First Name :	Last Name :	Client			
Vehicle Information					
Year :	VIN ;				
Brand : HINO_HD	Mileage :				
Model : Diagnostics Mode	Area : HINO HD	Area : HINO HD			
Sub-Model :	Plate Number :				

Figure 8-5 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 Engine, ABS, Transmission, perform special functions such as DPF regeneration, Injector Cutoff, Limits and ABS, and perform vehicle services and maintenance on multiple brands.

The menu consists of two parts:

- Diagnosis
- Service



Figure 9-1 Sample Diagnostic Menu Screen

# 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 truck:

- Quick Scan
- Control Modules





#### 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.

← HIN0_HD	™ ∠	🔏 ବି 100% 🖻 07:40
Vehicle Test > HINO HD > Diagnostics Mode > 16 PIN > Diagnosis > Quick So	can	
System Name	Status/Count	
Engine system	Fault   3	•
2 AT system	Fault   2	Υ.
3 ABS	Fault   3	•
EBS Electronic Braking System	Fault   1	
VIN : CarInformation : HINO HD	Save	Report Erase

Figure 9-3 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.

	HINO_HD ++ V1.01.003 23.9V	* * 8	<b>•</b>	<b>/උ ි</b> 🗟 100% 🗎 07:41
Vehicle Test	> HINO HD > Diagnostics Mod	e > 16 PIN > Diagnosis > Quick Scan		
System Na	ime		Status/Count	
1 Engin	e system		Fault   3	•
2 AT sy	stem		Fault   2	•
3 ABS			Fault   3	•
4 EBS E	Electronic Braking Sys	tem	Fault   1	
ID	Status	Description		
P1E14		2-1-1 Malfunction of ABS va	alve (30-20)	
VIN : Car Information	h:HINO_HD		Save	Report Erase

Figure 9-4 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.

•	HINO_HD -+ V1.01.003			ê 🖬		<b>// ୍ପ</b> ି ବି 91	% 🗎 08:20
Vehicle Te System N			s	ave			
Engi	Title: Vehicle Dia	ignostic Repor					•
2 AT s	Vehicle Informatio	on					•
EBS	E Make:		VIN:		Plate Numb	er:	-
4 Mete	Model: Diagnostics	Mode	Mileage:		Color:		•
	Year:		Capacity:		Status: Uns	et status 🔹 🔻	
		Save and Prin	nt Save a	and Email	Save	Cancel	
VIN : Car Informati							

Figure 9-5 Sample DTC Save Screen

	HINO_HD					<b>୮୯</b> % ବି 91	% 🗎 08:21
Vehicle Test System Na			Save				
Engin	Engine system						•
2 AT sy	ID	Status D	escription				-
	P2002	D	iesel Particulate Filter	Efficiency below T	'hreshold Ba	nk 1	_
3 EBS E	P229F	N	Ox Sensor Circuit Ran	ge/Performance B	lank 2		
4 Meter	B2799	A	bnormal immobilizer	communication			•
	AT system						
		Save and Print	Save and Ema	iil Sav	e	Cancel	
VIN : Car Information	: HINO_HD				Sa	ave Report	Erase

Figure 9-6 Sample Save 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.

### 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.



Figure 9-7 Sample Control Modules Screen

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

		PACCAP V1.00.0	04	•	٠	ē	•		VC's A	₽ 100% 角 10	:04
Vehick	Tes	st - PACC	AR Engine >	2.9-Pin Deutsch - 1	TYPE II GREE	N Connector >	Control Module	2			
D P	CII	UDS									
12 E.	AS-	4  Emi	ssion Aft	ertreatment	System						
				A PACCAR	2 04		٠	8		2	<b>VC¦</b>
			Ve	hicle Test - PACC		9-Pin Deutsch	- TYPE = GREE	N Connector -	Control Module	ns - PCI UDS	
			8	ECU Inform	ation						
			8	Read Code	s						
			8	Clear Code	s						
			8	Live Data							
			8	Active Test							

Figure 9-8 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:

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

#### NOTE

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

## 9.2.1 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.

		PACCAR V1.00.004	19.0V	A	•	8	-	Z	<b>VC/</b> 🧟 100% 🖬 10:04
Vehicl	e Tes	t > PACCAR	Engine > 2.9	-Pin Deutsch -	TYPE II GREEN	Connector > Co	ontrol Modules	> PCI UDS	
<b>1</b> E	CU	Informat	ion						
<b>2</b> R	lead	Codes							
3 C	lea	Codes							
4 L	ive	Data							
5 A	ctiv	e Test							
_									

Figure 9-9 Sample Function Menu Screen

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

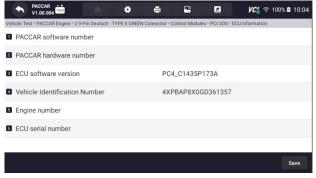


Figure 9-10 Sample ECU Information Screen

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

A	00.004	o	ē	G 🛛	VC' 🗢 100% B	
Which Tens						
PACCA	Title: Vehicle Dia	agnostic Report				
ECU so	Vehicle Information	on				
Vehicle	Make	SVIN		Plate Nun	sber:	
Engine	Model: Diagnostics	Mode Mile	eage	Color:		
ECU se	Year:	Cat	acity:	Status: U	nset status	
		Save and Print	Save and Email	Save	Cancel	
					s	ave

Figure 9-11 Sample ECU Information Save Screen

### 9.2.2 Read Codes

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

## 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 <sup>⑦</sup> means there is help information available for the code. The green icon <sup>ℜ</sup> means there is freeze frame available.



Figure 9-12 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.
- 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.

- 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 **S** to exit.

### 9.2.3 Clear Codes

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

#### NOTE

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

### To clear codes:

1. Press Clear Codes from Select Diagnostic Function menu.

	+	PACCAR ++ V1.00.004	1					KC 🛜 100% 🛢 10:05
Vet	nicle Te:		ine > 2.9-Pin Deu		EN Connector >	Control Module	s > PCI UDS	
٦	ECU	Information						
2	Read	d Codes			Clear Cod			
3	Clea	r Codes	Kev on a	nd engine of	f.			
4	Live	Data		d freeze data		eted,Do you	want to	
5	Activ	ve Test				No	Yes	

Figure 9-13 Sample Function Menu Screen

- 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.

### 9.2.4 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

A PACCAR V1.00.004	•	٠	ē			VC	🗢 100%	10:05		
Vehicle Test > PACCAR Engine > 2.9	Pin Deutsch - 1	TYPE II GREEK	N Connector	Control Modu	les > PCI UDS >	Live Data				
Search History :	•	PACCAR V1.00.004	15.74	<b>^</b>	٠	8			<b>VC</b> 🗟 🗟 10	00% 🖻 10:05
Start/running/stop	Vehicle T	est - PACCAR	Engine = 2.9	Pin Deutsch - 1	TYPE II GREEN	Connector > 0	Control Modul	ies * PCI UDS * L	ive Data > Start/run	ning/stop
Intake and exhaust	Search	History :							Search	٩
Cooling	Cyli	nder cont	tribution							
Emissions	Cra	nkshaft ro	otation							
Fuel	Cyli	nder 1 co	ontribution	i (engineer	level)					
General engine	d Cyli	nder 2 co	ontribution	ı (engineer	level)					
Z Lubrication	Cylinder 3 contribution (engineer level)									
	Cyli	nder 4 co	ontribution	ı (engineer	level)					
	Cyli	nder 5 co	ntribution	(engineer	level)					

Figure 9-14 Sample Function Menu Screen

#### 9.2.4.1 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.

	PACCAR -+ V1.00.004	*	•	8	•		<b>VC</b> (\$	100% 🖻 10:05
ACCAR Eng	gine > 2.9-Pin Deutsch - T	YPE II GREEN Con	nector > Contro	ol Modules >	PCI UDS > Live	Data > Start/ru	inning/stop > C	linder contribution
1 Eng	ine speed							0
2 Fue	l temperature							0
3 Coo	lant temperature							0
4 Acc	elerator pedal pos	sition						0
5 Fue	l pressure (Relativ	re)						0
6 Fue	l quantity (Actual)							0
7 Am	bient temperature							0
VIN : Car Inform	nation : PACCAR						Select A	п 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.

← PACCAR	🗷 🖊 Kanga 🖉 🖉 🖉	% 🖻 10:06
ACCAR Engine > 2.9-Pin Deutsch - TYPE II GREEN Connector > Control Modules > PCI UDS	> Live Data > Start/running/stop > Cylinder	contribution
Engine speed	1	0
Fuel temperature	2	0
Coolant temperature	3	0
4 Accelerator pedal position	4	0
S Fuel pressure (Relative)	5	0
Fuel quantity (Actual)	6	0
2 Ambient temperature	7	0
VIN : Car Information : PACCAR	Deselect	ок

Figure 9-16 Sample Live Data Selection Screen

	HINO_HD 👬	•	<b>//ር/   ଼ି 91% 🗎 08:22</b>
Vehicle '	Test > HINO HD > Diagnostics Mode > 16 PIN > Diagnosis > Quick Scan > Funct	tion Menu > Live Data > Live I	Data
	None None		•
	Name	Value	Unit 🔻
Text	Calculated load value	100.00	%
	Engine coolant temp.	87	°C
	Engine speed	712.0	rpm
Graph	Vehicle speed	50	km/h
orapii	Air flow rate from MAF sensor	326.39	g/s
VIN : Car Inform	Help To Top Batch top	History Record	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 9-18 Live Data Screen Button Table

• 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.

	None	None	•
	Learn - Idle	Value	Unit
Text	Leam - KOEO	100.00	%
	Learn - Acceleration		
	Learn - Deceleration	87	°C
	Learn - Part Load	712.0	rpm
	- Learn - Heavy Load		
	Vehicle speed	50	km/h
Graph	Air flow rate from MAF sensor	326.39	g/s

Figure 9-19 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.

	HINO_HD 👬	•	VC 🛜 90% 🖹 08:25			
Vehicle 1	Test > HINO HD > Diagnostics Mode > 16 PIN > Diagnosis > Quick Scan	Function Menu > Live Data > Live D	ata			
	Learn - Idle 🔹	None				
Ē	Name	Compare - Idle				
Text	Calculated load value	Compare - KOEO				
		Compare - Acceleration				
	Engine coolant temp.	Compare - Deceleration				
	Engine speed	Compare - Part Load				
lana	Mehtele an e d	Compare - Heavy Load	- Lune /h			
	Vehicle speed	50	km/h			
	Air flow rate from MAF sensor	326.39	g/s			
VIN : Car Inform	ation : HINO_HD Help To Top Batc	h top History Record	Save Pause			

Figure 9-20 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.

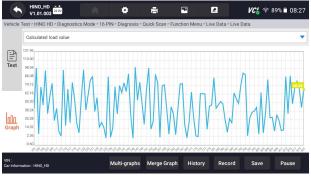


Figure 9-21 Sample PID Graph Screen

• **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 9-22 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.

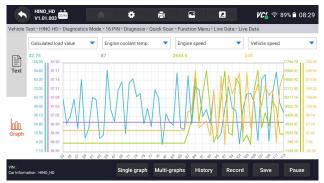


Figure 9-23 Sample Merge Graph Screen

<sup>41</sup> i50HD User's Manual V1.3

#### 9.2.4.2 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.
  - 2. 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.



Figure 9-24 Sample Custom List Selection Screen

- 3. 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.

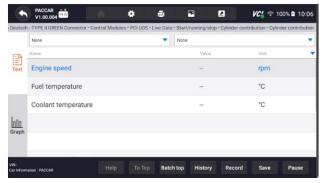


Figure 9-25 Sample Live Data Screen

#### 9.2.4.3 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.

Jeutsch	TYPE II GREEN Connector > Control M	odules > PCI UDS > Live	Data > Start/running/stop > C	linder contribution > Cylinder c	ontribution
	None		▼ None		-
-	Name		Value	Unit	
Text	Engine speed		-	rpm	
	Fuel temperature		-	°C	
	Coolant temperature			°C	
<u>nnn</u> Graph					
арп				Time: 00.00 Frame: 23	

Figure 9-26 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.

### 9.2.5 Active Test

To make a Active Test:

1. Please click "Active Test" in the Diagnostic Functions menu.

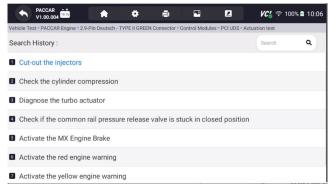
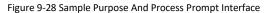


Figure 9-27 Sample Active Test Search History Interface

2. It will displays an interface for prompting the operation purpose and process of the selected control module.

PACCAR V1.00.004	Cut-out the injectors	<b>VCC</b> 🗟 100	0% 🛱 10:07
Search History :	Purpose This test procedure is used to disable an individual	Search	٩
Cut-out the injecto	cylinder by disabling the corresponding injector. The test procedure can help isolating:		
2 Check the cylinde	* A mechanical malfunction of a cylinder (piston-cylinder, valve train, MX Engine Brake) * A malfunction on an injector (mechanical)		
Diagnose the turb			
Check if the comr	Preparation There are no special preparations required.		
Activate the MX E	During the test procedure, the engine runs at idle speed.		
Activate the red e	The test consists of the following phases: Cancel OK		
Activate the yellow	w engine warning		



A PACCAR ++	A 0 8			100	0% 🛍 10:07				
Vehicle Test > PACCAR Engi	ne > 2.9-Pin Deutsch - TYPE II GREEN Connector > Co	ntrol Modules > P	CI UDS * Actu	uation test					
Search History :	Cut-out the injec			Search	٩				
Cut-out the inject	Make sure that the entry conditions	are fulfilled.							
Check the cylind	1.Vehicle speed0 kph 2.Park brakeEngaged 3.TransmissionNeutral								
Diagnose the tur	4.Accelerator pedalReleased 5.Engine speed500~2000 rpm	4.Accelerator pedalReleased							
Check if the com	6 Air propours sireuit 1 - 0 hor	6.Air pressure circuit 1>8 bar							
Activate the MX	E	Cancel	ок						
6 Activate the red	engine warning								
Activate the yello	ow engine warning								

#### Figure 9-29 Sample Checking Vehicle Information Interface

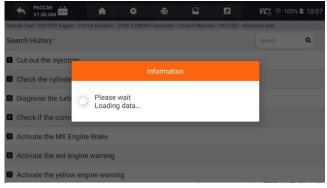


Figure 9-30 Sample Data Loading Interface

3. Test according to the selected module and output the final test results.

	PACCAR	* 4	• 8	<b>•</b>	2 VC	奈 100% 🖻 10:08
Vehicle Tes	t > PACCAR Engine > 2.9-	Pin Deutsch - TYPE II (	GREEN Connector > C	ontrol Modules > PCI	UDS > Actuation test	> Cut-out the injectors
Curre	ent values:					
2 Vehi	cle speed(Refere	nce=0 kph)			0	kph
Park	brake(Reference	Engaged)			Disengaged	
Trans	smission(Referen	ce=Neutral)			In gear	
5 Acce	lerator pedal pos	ition(Reference=	Released)			
6 Engir	ne speed(Referen	ce=500~2000 гј	om)		1	rpm
VIN : Car Informatic	n : PACCAR				Cont	inue Back

Figure 9-31 Sample Test Results Interface

4. Please click the **Continue** on the interface to obtain further test data.

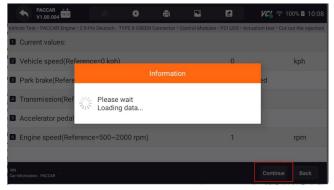


Figure 9-32 Sample Further Testing Data of The Interface

### 5.Get further test data on the interface.

	PACCAR -+ V1.00.004			<b>6</b>	8	-	2	/C¦ 후 10	0% 🖻 10:08
Vehicle Tes	t > PACCAR Engin	ie > 2.9-Pin De	utsch - TYPE	II GREEN Conr	ector > Contro	l Modules > Cu	t-out the injecto	rs	
1 Curre	nt values:								
2 Engir	ne speed						1		rpm
3 Actu	al fuel						0.1		
4 Acce	leration Cylir	nder 1					1		us
5 Acce	leration Cylir	nder 2					1		us
6 Acce	leration Cylii	nder 3					1		us
7 Acce	leration Cylii	nder 4					1		us
VIN : Car Informatic	n : PACCAR	injector1	injector2	injector3	injector4	injector5	injector6	Restore	Back

Figure 9-33 Sample Test Result Interface

## 9.3 Service

The Service section is specifically designed to provide you with quick access to various scheduled service and maintenance features of your vehicle's systems.

## To make a Service:

1.Please enter the diagnostic page, select the truck model, and click the Service option below.



Figure 9-34 Sample Diagnostic Menu Selection Interface

- 2.Please select the service that needs to be performed. Follow the on-screen instructions to make the correct selections and actions to complete the test.
- Ash Service Regeneration
- DPF Regeneration

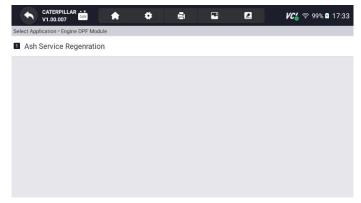


Figure 9-35 Sample Service Selection Interface

lefect Application * Service M	100	DETRO	- 44								-		
DPF Regeneration	_	V1.06.00	(	•			٠	•	2		<b>VC</b> <sup>4</sup> ♀ 99	¥ 🛙 17:34	
			Service Merk	DPF Rog	toeration :								
	CPC	2			4	101T							
	CPC	02T			CARLING	1 Territo	Ministra	n hegenete	ije.				
	B CPC	04T											
		302T		- 8	CPC02T								
				CPC04T Information									
					CPC3021		Please wait Dealing data						

Figure 9-36 Sample Service Selection Interface

# 10 OBD

OBD refers to the on-board diagnostic system used to monitor and diagnose the working status and fault information of the vehicle. It can help car owners and technicians to quickly locate and solve vehicle faults and improve vehicle performance and reliability.



Figure 10-1 Sample OBD Entry Interface

# 10.1 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:

<sup>47</sup> i50HD User's Manual V1.3

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

◆ DieselOBD ன		<b>Cia</b> 🛜 82% 🖬 18:15		
Quick Scan				
System Name	Status/Count			
(J1939)61 Exhaust Emission Controller	Fault   15	•		
VIN : Car Information : Diesel08D	Save	Report Erase		
Carimonnadon ; Dieserood				

Figure 10-2 Sample Quick Scan Interface

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

Juick Scan								
System Nan	18		Status/Coun	t				
1 (J1939	)61 Exhaust Emissi	on Controller	Fault   15	*				
ID	Status	Description						
OEOD	Active	SPN3597 ECU Power Out FMI2 Data Erratic, Interm	SPN3597 ECU Power Output Supply Voltage #1 FMI2 Data Erratic, Intermittent Or Incorrect					
0C9A	Active	SPN3226 Aftertreatment FMI9 Abnormal Update F						
06E1	Active		1 Diesel Exhaust Fluid Tank Lev nal, Or Shorted To High Source	el				
08D7	Active		SPN3031 Aftertreatment 1 Diesel Exhaust Fluid Tank Temperature FMIS Voltage Above Normal, Or Shorted To High Source					
10EF	Activo	SPN4334 Aftertreatment	1 Diesel Exhaust Fluid Doser Ab	solute Pressure				

Figure 10-3 Sample Quick Scan Interface

4. When the scanner has established connection with the vehicle, the Function Menu displays.

	DieselOBD ••• V1.01.001		•	ē	 2	<b>VC's</b> 후 82% 🖬 18:16
(J1939)61	Exhaust Emission Con	troller				
ECU	Information					
Rea	d Codes					
3 Clea	r Codes					
4 Live	Data					

Figure 10-4 Sample Function Menu displays Interface

## **10.2 Diagnostic Operations**

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

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

### 10.2.1 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.

## **D** To read ECU information:

1. Press ECU Information from Select Diagnostic Function menu.

	DieselOBD	<b>*</b> =	· 2	<b>VC's</b> 🎅 82% 🖻 18:16
(J1	939)61 Exhaust Emission Controller > Veh	cle general information		
1	ECU	Exhaust Emission Control	ller	
2	Make	NA		
3	Model	NA		
4	Serial Version	NA		
5	Chassis ID	*****		
6	Software Identification1	04354329		
7	Software Identification2	00054081		
				Save

Figure 10-5 Sample ECU Information Screen

<sup>49</sup> i50HD User's Manual V1.3 2. Press 🖻 to print the information if need be. Press 🕥 to exit.

3.Press **Save** to store ECU information screen and Press **OK** to complete save or Press **Cancel** to give up.

### 10.2.2 Read Codes

Read Codes					
ID	Status	Description			
1 <u>0E0D</u>	Active	SPN3597 ECU Power Output Su FMI2 Data Erratic, Intermittent C			
2 0C9A	Active	SPN3226 Aftertreatment 1 Outle FMI9 Abnormal Update Rate	et NOx		
3 <u>06E1</u>	Active	SPN1761 Aftertreatment 1 Dies FMI3 Voltage Above Normal, Or			
4 <u>0BD7</u>	Active	SPN3031 Aftertreatment 1 Dies FMI3 Voltage Above Normal, Or			Jre
5 <u>10EE</u>	Active	SPN4334 Aftertreatment 1 Dies FMI4 Voltage Below Normal, Or			Pressure
6 <u>0D23</u>	Active	SPN3363 Aftertreatment 1 Dies FMI3 Voltage Above Normal, Or			
VIN : Car Information : DieselORD			Freeze Fi	ame Help	Save

Figure 10-6 Sample Read Codes Screen

### 10.2.3 Clear Codes

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

## To clear codes:

1. Press Clear Codes from Select Diagnostic Function menu.

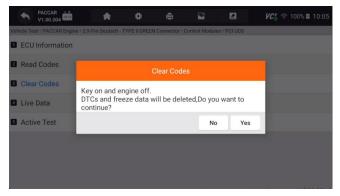


Figure 10-7 Sample Clear Codes Screen

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

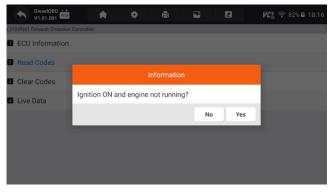


Figure 10-8 Sample Ask For Confirmation Screen

+	DieselOBD V1.01.001	*					<b>VC¦</b> 奈 82% ⊠ 18:16
(J1939)6	i1 Exhaust Emission (	Controller					
D EC	U Information						
2 Rea	ad Codes						
Cle	ear Codes			Informatio	n		
4 Liv	e Data	Codes cleare	d!				
						ок	

Figure 10-9 Sample Codes cleared Screen

# **11 ABS**

ABS is also called anti-lock braking system. Its function is to prevent the wheels from completely locking. ABS will connect a speed sensor to each wheel. When the sensor detects that the wheel is about to lock, the modulator will immediately release the brake pads of some wheels. , so that the wheels will be allowed to rotate indirectly during braking.



Figure 11-1 Sample ABS Entry Interface

# 11.1 Vehicle Identification

When you completed the identification of vehicle, you have to identify the control modules installed in the vehicle.

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:

Enter the ABS page, select the truck model, and select the control modules in sequence according to the page prompts.



Figure 11-2 Sample Control Modules 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.

# **11.2 Diagnostic Operations**

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

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

#### 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.

### 11.2.1 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.



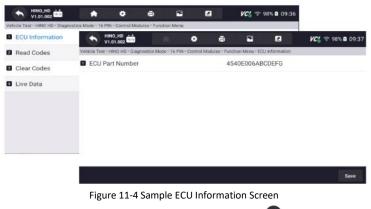
To read ECU information:

1. Press ECU Information from Select Diagnostic Function menu.

	•	HINO_HD -	R.TV	*	٠	8	-	VC' 🧟	98% 🗋 09:36
Vehi	cle Te	st > HINO HD >	Diagnostics Mo	de > 16 PIN > (	Control Module	es > Function N	lenu		
1	ECU	Informatio	on						
2	Read	d Codes							
3	Clea	r Codes							
٥	Live	Data							

#### Figure 11-3 Sample Function Menu Screen

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



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

## 11.2.2 Read Codes

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

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 \* means there is freeze frame available.

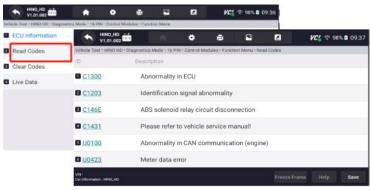


Figure 11-5 Sample Trouble Code Screen

• 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.

- 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.
- 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.

## 11.2.3 Clear Codes

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

#### NOTE

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

To clear codes:

1. Press Clear Codes from Select Diagnostic Function menu.

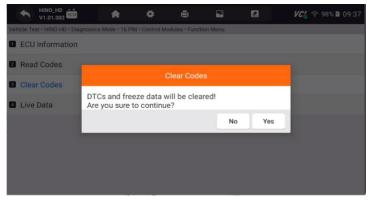


Figure 11-6 Sample Clear Code Screen

- 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.

### 11.2.4 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

PACCAR V1.00.004	•	٠	ē	*	2	VC	🕈 100% i	10:05		
Vehicle Test > PACCAR Engine > 2.9	Pin Deutsch - T	YPE II GREEN	Connector >	Control Modul	les > PCI UDS >	Live Data				
Search History :	•	PACCAR V1.00.004	5 72	A	٠	0	•	2	<b>VC</b> 🗧 🕫 10	0% 🛢 10:05
Start/running/stop	Vehicle Te	est > PACCAR E	Engine > 2.9-	Pin Deutsch - 1	TYPE II GREEN	Connector > (	Control Modul	es - PCI UDS - L	ive Data > Start/run	sing/stop
Intake and exhaust	Search	History :							Search	٩
Cooling	Cylin	nder contri	ibution							
Emissions	Crar	nkshaft rot	ation							
5 Fuel	Cylin	nder 1 con	tribution	(engineer	level)					
General engine	Cylin	nder 2 con	tribution	(engineer	level)					
Z Lubrication	Cylin	nder 3 con	tribution	(engineer	level)					
	🖪 Cylii	nder 4 con	tribution	(engineer	level)					
	Cylin	nder 5 con	tribution	(engineer	level)					

Figure 11-7 Sample Function Menu Screen

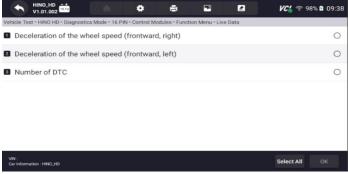


Figure 11-8 Sample Data Selection Screen

# **12 LIMIT**

Speed limit setting Check and set the engine speed and the vehicle road speed limit when the vehicle is stationary.



Figure 12-1 Sample LIMIT Function Entry Interface

▶ To select a system to test:

1.Enter the LIMIT page, select the truck model, and select the control modules in sequence according to the page prompts.

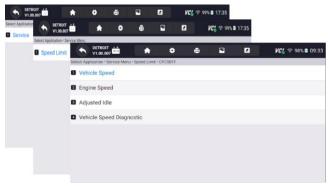


Figure 12-2 Sample Control Modules Screen

2.After the speed limit setting test is completed, the test results are displayed.

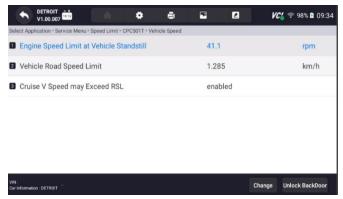


Figure 12-3 Sample Test Result Screen

57 i50HD User's Manual V1.3

#### 3. Click "Change" in the lower right corner to modify the standard.

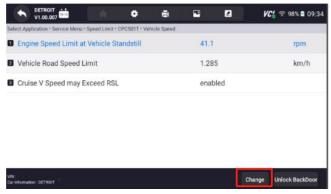


Figure 12-4 Sample Modifying The Standard Operation Entry Interface

#### 4.Speed limit standard modification interface.

◆ DETROIT ++ V1.00.007 ++	8		<b>VC</b> 🦈 98% 🖬 09:34
Select Application > Service Menu > Speed Limit > CPC501T > I	Input New Value	9	
Engine Speed Limit at Vehicle Standstill(0-8000rpm)	41.1		
Vehicle Road Speed Limit(0-150km/h)	1.285		
pmc2_p_VehConf.EtpVlimT hreshVehSpd_u8(0-250km/ h)	1		
pmc2_p_VehConf.CpIEtpVlimThreshVehSpo _u8	d		
Cruise V Speed may Exceed RSL	enabled		•
19. a. a. a.			ок

Figure 12-5 Sample Editing Interface

#### 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.

# **13 DPF**

The flow resistance calculated by judging the DPF pressure difference is lower than the calibrated limit. The low DPF pressure difference causes this fault. Check the speed setting and set the engine speed and vehicle road speed limit when the vehicle is stationary.

The purpose of this test procedure is to remove soot from the diesel particulate filter and monitor the regeneration process. This testing process is fully automated.

Hot exhaust gases generated during the regeneration process may cause an explosion, cause a fire or injure bystanders, resulting in serious injury. Make sure vehicles have adequate (at least 5 feet (1.5 meters)) clearance.



Figure 13-1 Sample DPF Function Entry Interface

# ▶ To select a system to test:

1.Please enter the DPF page, select the truck model and select the control module in sequence according to the prompts.



Figure 13-2 Sample Control Modules Screen

2. Please according to the pop-up message to understand the purpose and process.

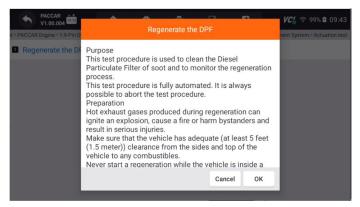


Figure 13-3 Sample Purpose And Process Interface

3.To Check whether the vehicle meets the conditions based on the pop-up message.

A PACCAR 1010		<b>VC'_</b> 🧟 99% 🖬 09:43								
st > PACCAR Engine > 1.9-Pin D	t > PACCAR Engine > 1.9-Pin D Regenerate the DPF									
Regenerate the Df	Make sure that the entry conditions are fulfilled. 1.Park brake—Engaged 2.Accelerator pedal position—0.0% 3.Brake pedal—Released 5.Soot level—Normal—High 6.Coolant temperature—60~120 °C 7.Vehicle speed—0 kph 8.Engine operating state—Idling 9.Accelerator pedal kick-down status—Not active 10.Engine brake—Not applied 11.DPF regeneration inhibit switch position—Not active Cancel OK									

Figure 13-4 Sample Checking Whether The Vehicle Meets The Conditions Interface

4. The test is completed and the test results are output.

	ACCAR 📩		<b>Cii</b> 🗟 99% 🖻 09:44
PACCAR Engi	ne > 1.9-Pin Deutsch - TYPE I GENERAL Connector > Control Modules > EAS	-3  Emission Aftertreatment S	System > Actuation test >
Curren	t values:		
2 Park b	rake(Reference=Engaged)		
3 Accele	rator pedal position(Reference=0.0%)	25.7	%
4 Brake	pedal(Reference=Released)	Pressed	
5 Clutch	pedal(Reference=Released)	Applied	
6 Soot le	evel(Reference=Normal~High)	Normal	
Coolar	nt temperature(Reference=60~120°C)	-247.3	°C
VIN : Car Information :	PACCAR	5	Start Back

Figure 13-5 Sample Test Results Interface

#### 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.

# 14 Injector cutoff

Principle of cylinder cut-off: When the engine is idling, the fuel injection or ignition line of a certain cylinder is cut off, and then the performance of this cylinder is judged by the working status of the engine to see whether the performance of this cylinder is cylinder is normal.

The purpose of this test procedure is to disable individual cylinders by disabling the corresponding injector.



Figure 14-1 Sample Break Cylinder Test Entry Interface

# ▶ To select a system to test:

1.Enter the Injector cutoff page, select the truck model and the control module in sequence according to the prompts.

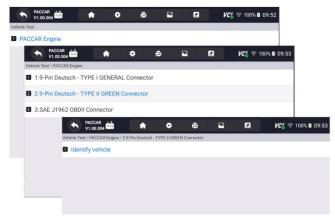


Figure 14-2 Sample Control Modules Screen

<sup>61</sup> i50HD User's Manual V1.3

#### 2. Waiting to collect loading data.

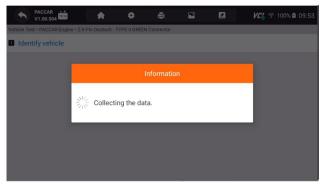


Figure 14-3 Sample Waiting Information Loading Interface

3.Please select the corresponding module according to the prompts.



Figure 14-4 Sample Control Modules Screen

4.To understand the purpose and process based on the pop-up message.



Figure 14-5 Sample Purpose And Process Interface

5. Check whether the vehicle meets the conditions based on the pop-up message.

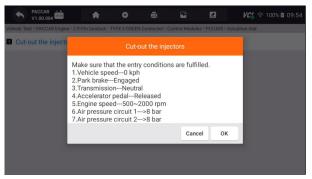


Figure 14-6 Sample Checking Whether The Vehicle Meets The Conditions Interface

6.After test completed, the test results will output.

ACCAR 📩	VC'	হু 100% 🖻 09:55
Vehicle Test > PACCAR Engine > 2.9-Pin Deutsch - TYPE II GREEN Connector > Control M	lodules > Cut-out the injectors	
Current values:		
2 Engine speed	1	rpm
Actual fuel	0.1	
Acceleration Cylinder 1	1	us
S Acceleration Cylinder 2	1	us
Acceleration Cylinder 3	1	us
Acceleration Cylinder 4	1	us
VIN: Car Information: PACCAR injector1 injector2 injector3 injector4 in	njector5 injector6 Res	tore Back

Figure 14-7 Sample Output Results Interface

#### 7.Click on the bottom injector1-6 to output the results.

◆ PACCAR 24.1V		<b>/උ</b>
Vehicle Test > PACCAR Engine > 2.9-Pin Deutsch - TYPE II GRI	EN Connector > Control Modules > Cu	out the injectors
Current values:	injector1	
2 Engine speed	577	rpm
Actual fuel	158.6	
Acceleration Cylinder 1	1586	US
S Acceleration Cylinder 2	1586	us
6 Acceleration Cylinder 3	1586	US
Acceleration Cylinder 4	1586	us
VIN : 2XPBAP8X0JD460243 Car Information : PACCAR injector1 injector2 injector3	injector4 injector5 injector6	Restore Back

Figure 14-8 Sample Output Results Interface

#### 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.

# **15 Auxiliary tools**

Auxiliary tools : It's mainly to store files and perform pin testing.

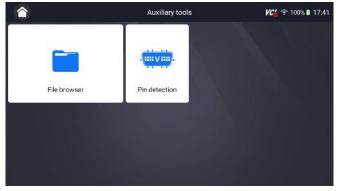


Figure 15-1 Sample Auxiliary Tools Interface

## 15.1 File browser

File storage mainly stores music, movies, APPs, images and other information in the system, and records storage operations.



Figure 15-2 Sample File Storage Interface

## 15.2 Pin detection

This function mainly measures the 16-pin voltage diagnostic interface of the OBD and determines the pin positions of the K line and CAN line.

After connecting the vehicle OBD interface, click the main interface interface File browser to select pin detection. As shown below:

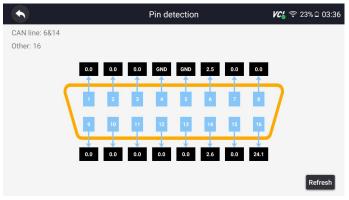


Figure 15-3 Sample Pin Test Interface

# 16 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



Figure 16-1 Sample Data Manager Screen

# 16.1 Image

**Image** option leads to screens for review of stored screenshots. In case a failure of i50HD 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	Ki 🕫 100% 🖬 11:00
Diagnostic Screenshot		>
System Screenshot		>

Figure 16-2 Sample Screenshots Type

## 16.1.1 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.

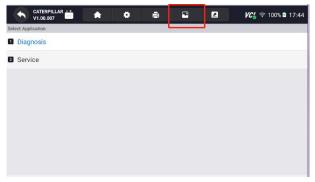


Figure 16-3 Sample Screenshot Screen

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

	•	CATERPILLAR V1.00.007	0.99	<b>A</b>					VC.	奈 100% 🛿 17	7:44
Sele	ct Appl	lication									
1	Diag	nosis									
2	Serv	ice			R	ename					
				O Don't ask	20240129_17 ne again it in "Settings>G				I		
							ок	Cancel			

Figure 16-4 Sample Screenshot Screen

### 16.1.2 Review Image

- To review the screenshots:
  - 1. Press Data Manager from home screen of i50HD 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.

	Diagnostic	🏹 🛜 100% 🗈 17:44	
2220 A G G M Constanting of the second	na <mark>hijing k k a B M</mark> irotan Arangen	Notation Notation Notation Notation   Analysis Analysis Analysis Analysis   Analysis Analysis Analysis Analysis   Analysis Analysis Analysis Analysis   Analysis Analysis Analysis Analysis	No constant and a con
Screenshot, 20231115, 083306, prg	Screenshot, 20231115, 083301.prg	Screenshot, 20231115, 083251, png	Screenshot, 20231115, 083247.png
A 2000 A A A B B)	na Alexandro de Constant Francisco	National A A B D Mitorian National Region	A ANIA A A A B RELevice Indentities Report Report Report
Screenshot, 20231115, 083243 png	Screenshot. 20231115.083238.prg	Screenshot.20231115.083220.png	Screenshot.20231115.083204.png

Figure 16-5 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.

	Di	agnostic	Screensh	ot	y	🔏 🗟 100	% 🖻 17:45
DETROIT	<b>^</b>	٠		2	<b>VC</b> ' 🕈 5	3% 🔒 08:33	
Select Application * Service Menu * D	PF Regeneration						
CPC02T							
CPC04T							
CPC2							
CPC302T							
				-			1
				Print	Rename	Delete	Back

Figure 16-6 Sample Edit Picture Screen

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

	Diagnosti	c Screenshot	🏹 😤 100% 🕯 17:45
N 2004 A 2 D PR YORK Andra Series Andra Se	In the second seco		Image: Control of the state of the
Screenshot,20231115,083306,png	Screenshot_20231115_0683301.png	Creenshot_20231115_083251 png	Streenshot_20231115_089247 png
Screenshot_20231115_083243.png	Screenshot_20231115_083238 png	Screenshot_20231115_083220 png	Screenshot_20231115_083204 png
		• 1812	lete Cancel Back

Figure 16-7 Sample All Pictures Edit Screen

## 16.2 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.

## 16.2.1 How to Create a PDF Report

**•** To create a PDF report:

- 1. Press Data Manager from home screen of i50HD diagnostic application.
- 2. Press Report from Data Manager.
- 3. Press any reports saved.

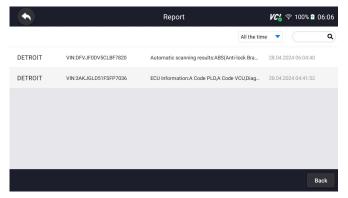


Figure 16-8 Sample of Reports Screen

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

	Report	🔏 🕫 100% 🖬 06:05
Vehicle Information		
Make:	VIN: DFVJF0DV5CLBF7820	Plate Number:
Model: Freightliner	Mileage: 62140miles	Color:
Year: 2014	Capacity: 12.8L	Status: Unset status
Engine: DETROIT	Reference:	Date: 28.04.2024 06:04:40
$\oplus$		
Automatic scanning results		
Car Information : DETROIT Current Version : V1.00.015		Save PDF Cancel

Figure 16-9 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.



Figure 16-10 Sample of Report Edit Screen

## 16.2.2 Review PDF Report

To review the PDF reports:

- 1. Press **Data Manager** from home screen of i50HD diagnostic application.
- 2. Press PDF and all available PDF files will be displayed.

6	PDF	VC4 🗢 100% 🛢 11:10
DETROIT-AutoScan-202312	230-110909.pdf	2023-12-30 11:12:41
		Back

Figure 16-11 Sample Browse PDF Screen

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



Figure 16-12 Sample Edit PDF Screen

# 16.3 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 i50HD diagnostic application.
- 2. Press Data Playback and all available records display.



Figure 16-13 Sample Data Playback Records Screen

3. Press any records to view the details.

	Data Playback	🖊 🌈 🛜 100% 🖻 11:14
MIL status indicator(MIL b	y DTC)	0
2 Battery voltage		0
Engine cooling fan-Low		0
Boost pressure sensor		0
S Air mass flow		0
6 Accelerator pedal position	sensor	0
	Select Al	ll Deselect OK Back

Figure 16-14 Sample Data Playback Selections 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.

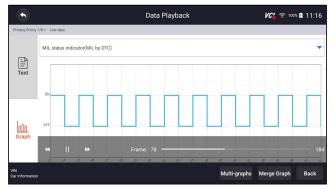


Figure 16-15 Sample Graph Screen

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



Figure 16-16 Sample Edit Data Playback Screen

# **17 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

# 17.1 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 i50HD diagnostic application.
- 2. Press Unit and available unit system display.
- 3. Select a unit system.

# 17.2 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 i50HD diagnostic application and select Language. Then all available language options display.
- 2. Select your preferred language to change.

# 17.3 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 i50HD diagnostic application, and then select Font Size.
- 2. Select your preferred font size, then press **Confirm** to change, or press **Back** to give up.

# **17.4 Module Sorting**

This option allows you to modify the display order of other modules except the diagnostic module in the home screen of i50HD diagnostic application.



To change module sorting:

1. Press Settings from home screen of the i50HD diagnostic application, and then select Module Sorting.



Figure 17-1 Sample Before the modification,

the Injector cutoff Module is displayed behind the OBD module

2.Long press the icon \_\_\_\_\_ 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.

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.



Figure 17-2 Sample After the modification, The Injector cutoff module is displayed in front of the OBD module

# 17.5 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 i50HD diagnostic application, and select Sort Tiles.
- 2. Select your preferred sort order.

# 17.6 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 i50HD diagnostic application, then select Remote control.
- 2. Select your preferred tool.

# 17.7 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.

# 17.8 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.

# 17.9 General

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

# 17.10 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 i50HD.
- 2. Tap the Uninstall Vehicle Software option on the option list.
- 3. Choose the vehicle software you want to delete or choose Select All.



Figure 17-3 Sample Uninstall Vehicle Software Screen

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

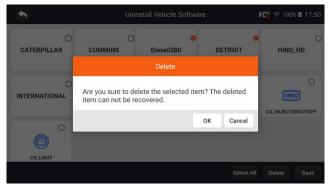


Figure 17-4 Sample Uninstall Vehicle Software Screen

# 17.11 Clear App Data

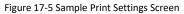
Generally, after the application running for a period of time, some cache data will be generated. As time goes by, the cached data will become larger and larger, which will affect the operation of the device. This option allow you to clear the cache data of the app.

# 17.12 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 i50HD.
  - 2. Tap the Printing Settings option on the option list.

	Settings	VC 🛜 100% 🛚 17:50
Sort Tiles		By alphabetical order >
🛜 Remote Control		QuickSupport >
System Settings		>
🗃 General		>
📔 Uninstall Vehicle Software		×
🚳 Clear app data		107.34 MB >
Print Settings		×
0 About		>



3. Tap **Print Plugin Manager** and turn on the Mopria Print Service, then i50HD will search for available printers automatically.

×	Print Service Manager	?
You need	d a Print Service Plugin installed & enabled to print.	
moprio	Mopria Print Service Mopria Alliance	Enabled
(IP)	HP Print Service Plugin HP Inc.	<u>+</u>
brother	Brother Print Service Plugin Brother Industries, Ltd.	<u>+</u>
SAMSUNG	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 17-6 Sample Print Service Manager Screen

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

÷	Printing	۹
	Print services Mopria Print Service On	
Ð	Default Print Service On	0

Figure 17-7 Sample Setting of Print Service Manager Screen

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



Figure 17-8 Sample of Printer Screen

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



Figure 17-9 Sample of Printer test

7. Choose the file or report you want to print and press the print icon<sup>2</sup>. 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 Las	serJet	t Pro M	1329 (F	-72	A0B]	- T-	7							
192.168.	14.04													
192.108.	14.24													
pies: 1	Dan	er size:	ISO A.	4										
pies.	гар	el size.	100 4	-										
							/							
														_
	topit thought they	d Powert			which Degrade Aport	Accessed.			Notes Import Import	d Poxwet			White Reports Report	@ Poowett.
			100	-	larie was during		1.00				6.00	-	Wardpet and its R start of	termine instantion
Twittick Information			-					_	Res was home of he					
5-mil 2000 VI		to function Alexand												
where the	tage in	in Ma	Artingford	(erime pr			KAQueye	-			1.00			
1m. 0		tion (Presidentes	100				100				10			
terr in		IN STREET MADE	100				100							
			100				111	-			6.00			
Advention and the second			10				552				5.00			
Server Trans		Summer Street		unditional			100				-	-		
			Alcoup	and here			101				6.88		Water (10), and a new	
			1000		Receptor.		100				5.00			
			-				100				1.00		the party of the bolt has been	
			540	4/144	-	our Particul	100	-			6.65			
			100				500	-			5.85			
			-	10.000				-			100			
			Pilling .	-	and a		100				100			
			1000					_	the starts of second all		100			
						_					100			
			5.0				ABUTEPUM	-			100700			
Explodinghe control			548				100							
a			644	-			-				12		And the second s	
			1.00				6.00	1000	War and may be a probe			_		
	for endpotential speeches with	ar ben'	1.00				5.0				1.00			
10 Hora 1														

Figure 17-10 Sample of File Printing Screen

#### NOTE

- 1. Please make sure the printer and the i50HD 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.

## 17.13 About

Selecting **About** option opens a screen that shows information about the i50HD, 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 i50HD diagnostic application.
- 2. A screen with detailed information of the scanner displays.

	About	<b>VC</b> 🛜 100% 🛢 17:52
Product Model		150HD
Hardware Version		V1.06.038(VCI200)
APP Version		V1.19.003
OS Version		V1,3.0
Serial Number		i005(
Production Date		2024-01-19
Disclaimer		>

Figure 17-11 Sample Tool Information Screen

# **18 Shop Manager**

Allows technicians to manage shop floor information and vehicle test records. Menu options typically include:

- Vehicle History
- Workshop
- Customer

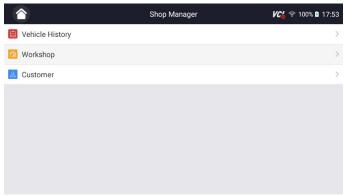


Figure 18-1 Sample Shop Manager Screen

## **18.1 Vehicle History**

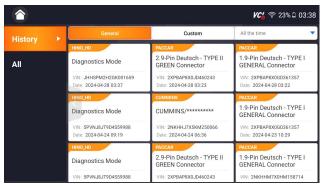


Figure 18-2 Sample Workshop Screen

	Vehicle I	History	<b>୮୯%</b> ବି 23% 🗅 03:36
Title			
Diagnostics Mode			
Customer Information			
First Name :	Last Name		Client
Vehicle Information			
Year :		VIN : 5PVNJ8JT9D4S59988	1
Brand : HINO_HD		Mileage :	
Model : Diagnostics Mode		Area : HINO HD	
farmer.		DIMAN	
		Diagnostic E	dit Delete Back

Figure 18-3 Sample Workshop Screen

## 18.2 Workshop

Vehicle History	🛚 🖓 🛜 100% 🖻 17:53
Last Name :	Client
VIN :	
Mileage :	
Area : HINO HD	
Plate Number :	
	Last Name : VIN : Mileage : Area : HINO HD

Figure 18-4 Sample Workshop Screen

<sup>80</sup> i50HD User's Manual V1.3

## 18.3 Customer

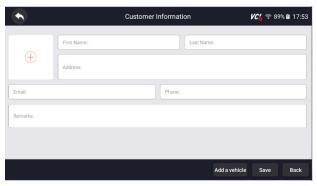


Figure 18-5 Sample Customer Screen

# **19 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 i50HD to start TeamViewer QuickSupport.

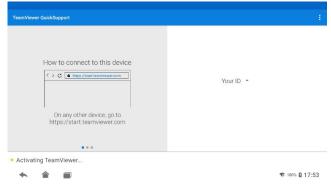


Figure 19-1 Sample Quick Support Screen

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