



User's Manual

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! IMPORTANT

Before operating or maintaining this unit, please read this manual carefully, paying extra attention to the safety warnings and precautions.

For Services and Support



www.anceltech.com



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Safety Information

For your own safety and the safety of others, and to prevent damage to the device and vehicles upon which it is used, it is important that the safety instructions presented throughout this manual be read and understood by all persons operating or encountering the device.

There are various procedures, techniques, tools, and parts required for servicing vehicles, as well as the skills of the person doing the work. Because of the vast number of test applications and variations in the products that can be tested with this equipment, we cannot possibly anticipate or provide advice or safety messages to cover every circumstance. It is the automotive technician's responsibility to be knowledgeable of the system being tested. It is crucial to use proper service methods and test procedures. It is essential to perform tests in an appropriate and acceptable manner that does not endanger your safety, the safety of others in the work area, the device being used, or the vehicle being tested.

Before using the device, always refer to and follow the safety messages and applicable test procedures provided by the manufacturer of the vehicle or equipment being tested. Use the device only as described in this manual. Be sure to read, understand, and follow all safety messages and instructions in this manual.

Safety Messages

Safety messages are provided to help prevent personal injury and equipment damage. All safety messages are introduced by a signal word indicating the hazard level.

DANGER

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

WARNING

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

Safety Instructions

The safety messages herein cover situations ANCEL is aware of at the time of publication. ANCEL cannot know, evaluate or advise you as to all of the possible hazards. You must be certain that any condition or service procedure encountered does not jeopardize your personal safety.

 DANGER

When an engine is operating, keep the service area WELL VENTILATED or attach a building exhaust removal system to the engine exhaust system. Engines produce carbon monoxide, an odorless, poisonous gas that causes slower reaction time and can lead to serious personal injury or loss of life.

 SAFETY WARNINGS

- Always perform automotive testing in a safe environment.
- Wear safety eye protection that meets ANSI standards.
- Keep clothing, hair, hands, tools, test equipment, etc. away from all moving or hot engine parts.
- Operate the vehicle in a well-ventilated work area, for exhaust gases are poisonous.
- Put the transmission in PARK (for automatic transmission) or NEUTRAL (for manual transmission) and make sure the parking brake is engaged.
- Put blocks in front of the drive wheels and never leave the vehicle unattended while testing.
- Be extra cautious when working around the ignition coil, distributor cap, ignition wires and spark plugs. These components create hazardous voltages when the engine is running.
- Keep a fire extinguisher suitable for gasoline, chemical, and electrical fires nearby.
- Do not connect or disconnect any test equipment while the ignition is on or the engine is running.
- Keep the test equipment dry, clean, free from oil, water or grease. Use a mild detergent on a clean cloth to clean the outside of the equipment as necessary.
- Do not drive the vehicle and operate the test equipment at the same time. Any distraction may cause an accident.
- Refer to the service manual for the vehicle being serviced and adhere to all diagnostic procedures and precautions. Failure to do so may result in personal injury or damage to the test equipment.
- To avoid damaging the test equipment or generating false data, make sure the vehicle battery is fully charged and the connection to the vehicle DLC is clean and secure.
- Do not place the test equipment on the distributor of the vehicle. Strong electro-magnetic interference can damage the equipment.

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1 Using This Manual

This manual contains device usage instructions.

Some illustrations shown in this manual may refer to modules and optional equipment that are not included in your system. Contact your sales representative for availability of other modules and optional tools or accessories.

1.1 Conventions

The following conventions are used:

1.1.1 Bold Text

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

Example:

- Tap **OK**.

1.1.2 Notes and Important Messages

1.1.2.1 Notes

A **NOTE** provides helpful information such as additional explanations, tips, and comments.

1.1.2.2 *Important*

IMPORTANT indicates a situation which, if not avoided, may result in damage to the test equipment or vehicle.

1.1.3 Hyperlink

Hyperlinks are available in electronic documents. Blue italic text indicates a selectable hyperlink; blue underlined text indicates a website link or an email address link.

1.1.4 Illustrations

Illustrations used in this manual are samples; the actual testing screen may vary for each vehicle being tested. Observe the menu titles and on-screen instructions to make correct option selection.

1.1.5 Procedures

An arrow icon indicates a procedure.

Example:

➤ **To power down the tablet**

1. Long press the **Power/Lock** button.
2. Tap **Power Off**. The tablet will turn off in a few seconds.

2 General Introduction

There are two main components of the ANCEL X6:

- ANCEL X6 Tablet — the central processor and monitor for the system.
- ANCEL X6 VCI — a vehicle communication interface. Used for accessing vehicle data.

This manual describes the construction and operation of both devices and how they work together to deliver diagnostic solutions.

2.1 ANCEL X6 Tablet

2.1.1 Power Sources

The tablet can receive power from any of the following sources:

- Internal Battery Pack
- External Power Supply

2.1.1.1 *Internal Battery Pack*

The tablet can be powered with the internal rechargeable battery, which if fully charged can provide sufficient power for about 5 hours of continuous operation.

2.1.1.2 *External Power Supply*

The tablet can be powered from a wall socket using the included Mini USB cable and the external power adapter. The external power supply also charges the internal battery pack.

2.1.2 Technical Specifications

Table 2-1 *Specifications*

Item	Description
Processor	A133 ARM Cortex-A53, Quad Core at 1.5 Ghz
GPU	IMG PowerVR GE8300
Operating System	Android 10
Memory	2GB LPDDR4 RAM & 32GB EMMC ROM
Display	10.1 inch IPS Multi-touch Capacitive Touch Screen with 1280*800 resolution
Connectivity	<ul style="list-style-type: none">● Wi-Fi : 802.11 b/g/n/ac Support Hot spot/ 2.4/5GHz● Bluetooth: 2.1/4.0● Type-C
Audio Input/Output	<ul style="list-style-type: none">● Input: N/A● Output: buzzer
Power and Battery	<ul style="list-style-type: none">● 3.7 V/6000 mAh lithium-polymer battery● Charges via 5V DC power supply
Tested Battery Life	Around 5 hours of continuous use
Input Voltage	5V/2A
Power Consumption	Approx. 800 mA (Screen on with default brightness, Wi-Fi on) @3.7 V
Operating Temp.	-10 to 50 °C (14 to 122 °F)
Storage Temp.	-20 to 60 °C (-4 to 140 °F)
Operating Humidity	5% to 95% non-condensing
Dimensions (W x H x D)	261 mm(10.28 in) x 182 mm(7.17 in) x 24 mm(0.94 in)
Weight	NW: 780 g (1.72 lb)

2.2 ANCEL X6 VCI

X6 VCI is a vehicle communication interface (VCI) that connects to the tablet and the vehicle's data link connector (DLC) for vehicle data transmission

2.2.1 Function Description



Figure 2-2 VCI Front View

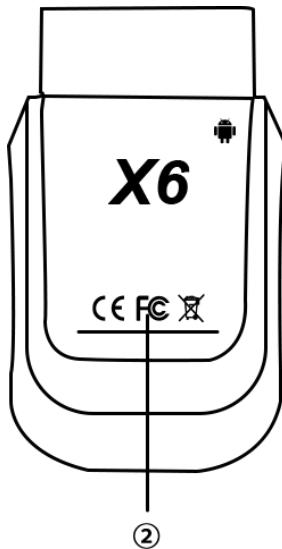


Figure 2-2 VCI Back View

1. Power and Connection LED
 - lights solid red when powered on
 - lights solid blue when the Bluetooth connected
 - lights flashes blue when the VCI is communicating with the vehicle
2. Certification — CE, FCC, RoHS certification.

2.2.2 Technical Specifications

Table 2-2 *Specifications*

Item	Description
Communications	Bluetooth
Input Voltage	DC 8V-30V
Supply Current	150 mA @ 12 V DC
Operating Temp.	-10 to 50 °C (14 to 122 °F)
Storage Temp.	-30 to 60 °C (-22 to 140 °F)
Protocols	ISO9141-2, ISO14230-2, ISO15765, K/L-Line, Flashing Code, SAE-J1850 VPW, SAE-J1850 PWM, ISO11898 (High-speed, Middle-speed, Low-speed and Single-wire CAN, fault-tolerant CAN), SAE J2610, GM UART, UART Echo Byte Protocol, Honda Diag-H Protocol, TP2.0, TP1.6, SAE J1939, SAE J1708

3 Getting Started

Ensure the tablet is sufficiently charged or is connected to an external power supply.

 **NOTE**

The images and illustrations depicted in this manual may differ slightly from those in the most recent product.

3.1 Powering Up

Long press the **Power/Lock** button on the top-right side of the tablet to power on the unit. The power LED will illuminate green. The system boots up and displays the lock screen. Slide the screen up to enter the Ancel APP home screen.

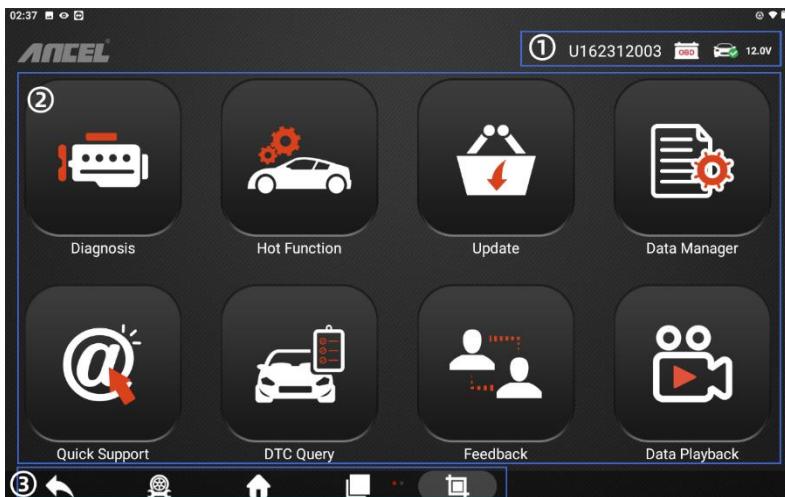


Figure 3-1 Ancel APP Home Screen

1. Shows the product series number, the button for reading OBDII voltage and the connection state and the voltage of vehicle power supply.
2. Application Buttons
3. Navigation buttons at the bottom - it is automatically hidden and needs to be swiped up from the bottom of the screen to be called out

3.1.1 Application Buttons

Descriptions of the tool applications are displayed in the table below:

Table 3-1 Applications

Button	Name	Description
	Diagnosis	Accesses diagnostic functions menu. See Diagnosis for details.
	Hot Function	Accesses Hot Function menu. See Hot Function for details.
	Update	Checks for the latest update and installs new software. See Update for details.

	Data Manager	Accesses the organization system for saved data files. See Data Manager for details.
	Quick Support	Configures the unit to receive remote support using the TeamViewer application. See Quick Support for details.
	DTC Query	Common fault code query.
	Feedback	Provide feedback on software issues and propose requirements and suggestions. See Feedback for details.
	Data Playback	Replay the record of data list.
	Function List	Review the function coverage list for different vehicle brand.
	Settings	Accesses the Ancel APP settings menu and general tablet menu. See Settings for details.
	User	View and edit the user information.

3.1.2 Navigation Buttons

Operations of the navigation buttons at the bottom of the screen are described in the table below:

 **NOTE**

By default, the navigation buttons are automatically hidden and needs to be swiped up from the bottom of the screen to be called out.

Table 3-2 Locator and Navigation Buttons

Button	Name	Description
	Back	Returns to the previous screen.
	Ancel APP Shortcut	Returns to the Ancel APP Home screen.
	System Home	Returns to the Android system's Home screen.
	Recent Apps	Displays a list of applications that are currently in use. Tap an app icon to launch. Close a running application by swiping it to the top. Or close all running applications by tapping Clear All .
	Screenshot	Takes a screenshot when you want to save the displayed information.

3.1.3 System Status Icons

By sliding from the top of the screen, a Shortcut Panel will be displayed, on which you are allowed to adjust various system settings for the tablet. As the tablet is working with Android operating system, you may refer to Android documents for more information.

3.2 Powering Down

All vehicle communications must be terminated before shutting down the tablet. Forcing a shut-down while communicating may lead to ECU problems on some vehicles. Please exit the Diagnostics application before powering down.

➤ **To power down the tablet**

1. Long press the **Power/Lock** button.
2. Tap **Power off**. The tablet will turn off in a few seconds.

3.2.1 Reboot System

Long press the **Power/Lock** button and tap the **Restart** option to restart the system.

4 Diagnosis

The Diagnostics application can retrieve ECU information, read & erase DTCs, view data list, actuation test and special functions. The Diagnostics application can access the electronic control unit (ECU) for various vehicle control systems, including engine, transmission, antilock brake system (ABS), airbag system (SRS), body control, etc.

4.1 Establishing Vehicle Communication

Prior to performing the Diagnostics function, ensure the tablet is connected to the test vehicle through the X6 VCI. To establish a proper vehicle communication between the tablet and the test vehicle, you can perform the following steps:

1. Connect the X6 VCI OBDII connector to the vehicle's DLC for both communication and power supply.
2. Connect the X6 VCI to the tablet via Bluetooth pairing.
3. A BT badge will display at the top-right corner of the VCI state shortcut, which means the communication of X6 VCI and the tablet has been established, and the tablet is ready to start vehicle diagnosis.

4.1.1 Vehicle Connection

To connect the X6 VCI to the test vehicle, insert the vehicle data connector on the X6 VCI into the vehicle's DLC which is usually located under the vehicle dashboard, and the X6 VCI will be automatically powered on.

NOTE

The vehicle's DLC is not always located under the dashboard. Refer to the vehicle's user manual for DLC location.

4.1.2 VCI Connection

The Power LED on the X6 VCI will light on when properly connected to the vehicle and be ready to establish communication with the tablet.

The wireless diagnostic interface X6 VCI only supports Bluetooth communication methods with the tablet.

4.1.2.1 *Bluetooth Connection*

Bluetooth pairing is recommended as the first choice for the communication between the tablet and the X6 VCI. This is because the Bluetooth connection does not need to repeat the plugging and unplugging procedure which is unavoidable when using traditional wired connection, saving more time and providing higher efficiency. The working range for Bluetooth communication is about 33 feet (about 10 m), enabling remote vehicle diagnostics.

4.2 Getting Started

4.2.1 Vehicle Menu

When the tablet is properly connected to the vehicle, the platform is ready to start vehicle diagnosis. Tap the **Diagnosis** application button on the Ancel APP Job Menu to access the Vehicle Menu.

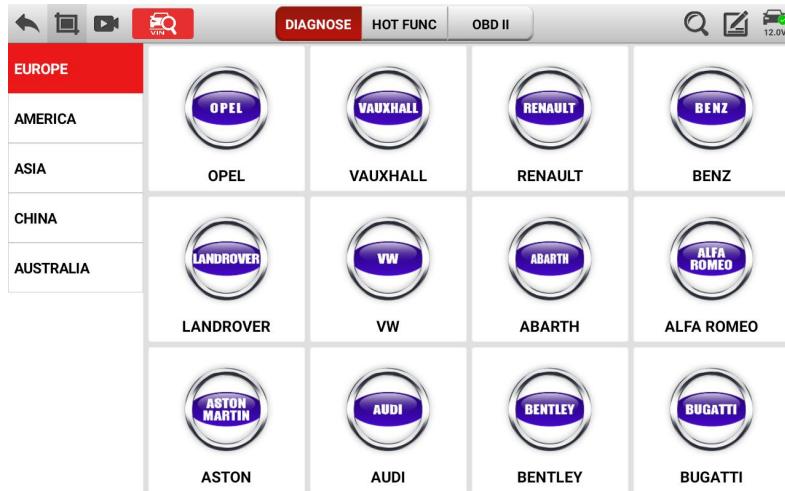


Figure 4-1 Vehicle Menu

4.2.1.1 *Top Toolbar Buttons*

The operations of the toolbar buttons at the top of the screen are listed and described in the table below:

Table 4-1 Top Toolbar Buttons

Button	Name	Description
	Back	Returns to the previous screen.
	Screenshot	Takes a screenshot when you want to save the displayed information.
	Screen Record	Records the process of screen operation and changes.
	Search	Tap the search field to show a virtual keyboard and enter a vehicle manufacturer name.
	Feedback	Provide feedback on software issues and propose requirements and suggestions. See Feedback for details.
	AutoVIN	Tap to identify vehicle by Auto Detect or Manual Input VIN Code.

4.2.1.2 *Vehicle Manufacturer Buttons*

The vehicle manufacturer buttons list the vehicle brands available for testing. Select the manufacturer button after the tablet is properly connected to the test vehicle to start a diagnostics session.

4.3 Vehicle Identification

The diagnostics system supports four methods for vehicle identification:

1. Auto Detect by AutoVIN
2. Manual Input by AutoVIN
3. Vehicle Auto Scan
4. Vehicle Manual Select

4.2.1 AutoVIN

The AutoVIN function features the latest VIN-based Auto Detect or Manual Input to identify vehicles and scan all the diagnosable ECUs and run diagnostics on the selected system. This function is compatible with 2006 and newer vehicles

➤ To perform AutoVIN for vehicle Identification

1. Tap the  button from the vehicle menu, the AutoVIN menu show:

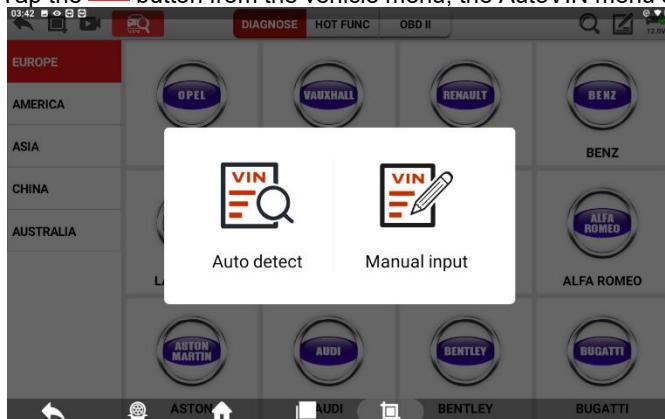


Figure 4-2 AutoVIN menu

2. To get VIN Code by Auto Detect or Manual Input.

- Auto Detect will auto read the VIN Code by communicating with vehicle

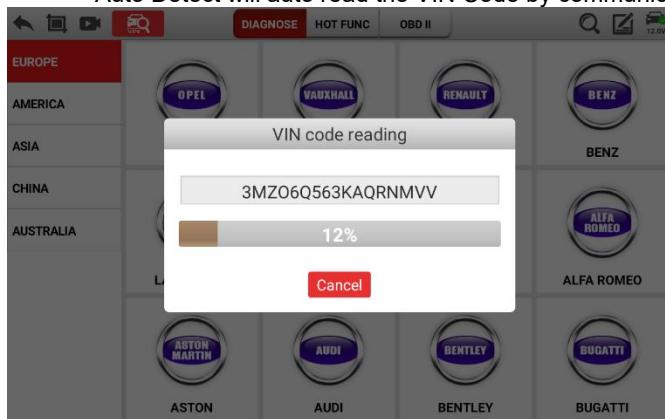


Figure 4-3 Auto Detect

- Manual Input the VIN Code

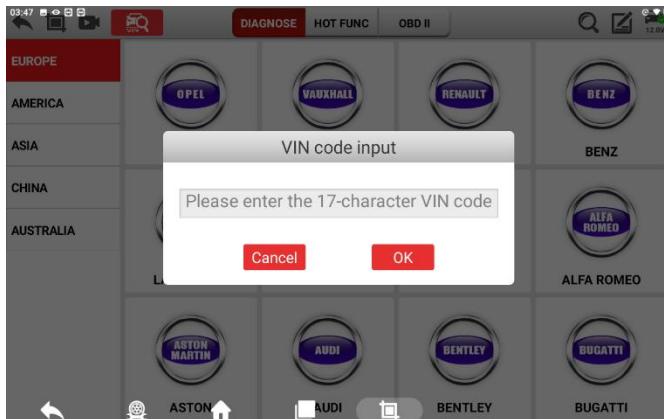


Figure 4-4 Manual Input

3. After obtaining the VIN Code, the corresponding vehicle software will automatically start and recognize the corresponding vehicle model.

BMW V16.93 ● BMW > Vehicle Auto Scan	
VIN code	LBV8W3103HMH30801
Model series	3'
Development code	F35
Sales designation	320Li
Driving form	LL
Engine	B48
Production date	2017/04

Figure 4-5 Vehicle model Information

4.3.2 Vehicle Auto Scan

The vehicle identification can also be automatically acquired after a vehicle manufacturer is selected. Vehicle Auto Scan will auto read the vehicle information (VIN Code etc.) to identify the vehicle model, then confirm the model information (see Figure 4-5).

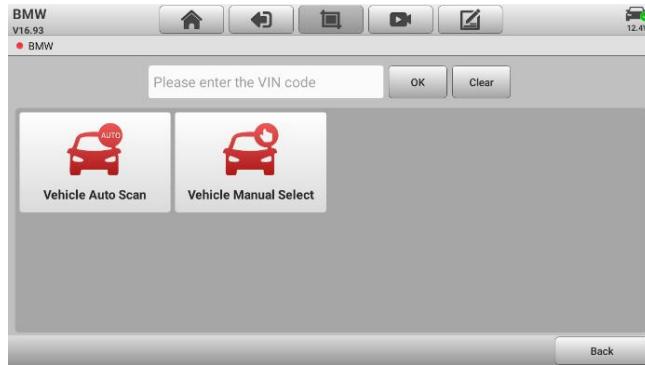


Figure 4-6 Vehicle Home Screen

4.3.3 Vehicle Manual Select

This mode of vehicle selection is menu-driven, step by step to select the vehicle information (Model, Year, Engine Type etc.), finally confirm the model information (see Figure 4-5).

4.4 Diagnosis

Tap one test vehicle and enter the Diagnostic Menu screen. This section consists of various commonly used functions, including Vehicle Auto Scan, Vehicle Manual Select, System Diagnose, Hot Function. The available functions displayed vary depending on the test vehicle.

4.4.1 Diagnostic Screen

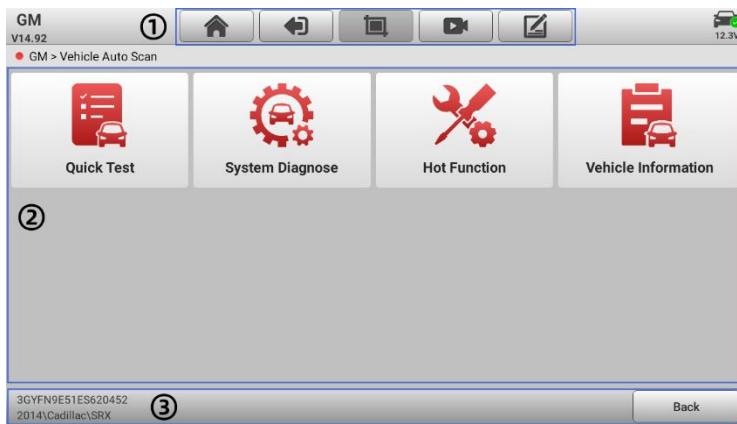


Figure 4-7 Diagnostic Menu Screen

The Diagnostic Menu screen typically includes four sections:

1. Diagnostics Toolbar
2. Main Section
3. Function Buttons

4.4.1.1 *Diagnostics Toolbar*

The Diagnostics Toolbar contains several buttons such as print and save. The table below provides a brief description for the operations of these buttons:

Table 4-2 *Diagnostics Toolbar Buttons*

Button	Name	Description
	Home	Returns to the Ancel APP homepage.
	Exit Diagnosis	Exits the current vehicle diagnosis and returns to the Vehicle Menu screen.
	Screenshot	Takes a screenshot when you want to save the displayed information.
	Screen record	Records the process of screen operation and changes.
	Feedback	Provide feedback on software issues and propose requirements and suggestions. See Feedback for details.

4.4.1.2 *Main Section*

The Main Section of the screen varies according to the stage of operations, which may display vehicle identification selections, the main menu, test data, messages, instructions, and other diagnostic information.

4.4.1.3 *Function Buttons*

The model information of the current test vehicle shows in the left area, the button in the right area. The displayed Function Buttons vary depending on the stage of operations. These buttons can be used to navigate menus, to save or clear diagnostic data, to exit scanning, and to perform a number of other control functions. The use of these buttons will be discussed in detail in the following sections of the corresponding test operations.

4.4.2 Making Selections

The Diagnostics application is a menu-driven program that presents a series of choices. As a selection is made, the next menu in the series displays. Each selection narrows the focus and leads to the desired test. Tap the screen to make menu selections.

4.5 Diagnostic Function Entrance

The Diagnostics application enables a data link to the electronic control system of the test vehicle for vehicle diagnosis. The application performs function tests, retrieves vehicle diagnostic information such as trouble and event codes, and data list from various vehicle control systems such as engine, transmission, and ABS.

Normally, there are several options available when accessing the Diagnostic section:

1. Quick Test — starts auto scanning for all the available systems on the vehicle.
2. System Diagnose — displays a selection menu for all available control units of the test vehicle.
3. Hot Function — common service function.
4. Vehicle Information — show the vehicle information.

After a selection is made and the tablet establishes communication with the vehicle, the corresponding function menu or selection menu will display.

4.5.1 Quick Test

The Quick Test function performs a comprehensive scanning over all the ECUs in the vehicle to locate systems faults and retrieve DTCs. An example of Quick Test interface is pictured as below:

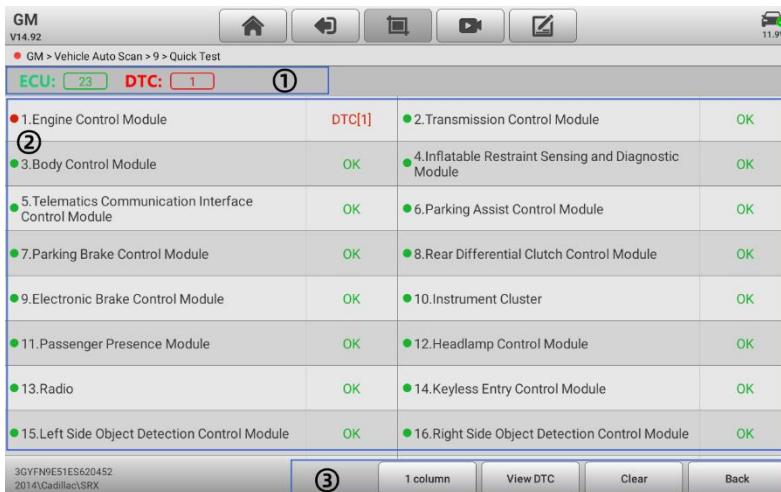


Figure 4-8 Quick Test Screen

1. Test Result
2. Main Section
3. Function Buttons

4.5.1.1 Test Result

Shows the number of equipped ECUs and the number of all existing DTCs.

4.5.1.2 Main Section

Shows all equipped ECUs of the test vehicle and their status.

These statuses are defined as follows:

- ⇒ **DTC[s]:** Indicates the ECU equipped and there is/are detected fault code(s) present.
- ⇒ **OK:** Indicates the ECU equipped and no fault has been detected.

4.5.1.3 Function Buttons

The table below provides a brief description of the Function Buttons:

Table 4-3 Function Buttons in Quick Test

Name	Description
1 column	Shows the ECU list in one column.
View DTC	Shows the description of all DTCs.

Clear	Tap Clear to execute clear DTC command for all ECU one by one.
Back	Exit the quick test function.

4.5.2 System Diagnose

The System Diagnose function allows you to manually locate a required control system for testing through a series of choices. Follow the menu-driven procedures and make proper selections; the program will guide you to the proper diagnostic function menu based on selections.

4.6 Diagnostic Functions

The Diagnostic Functions are listed on the Function Menu screen. The Function Menu options vary slightly for different vehicles, which may include:

- ECU Information — provides the retrieved ECU information in detail. An information screen opens upon selection.
- Trouble Codes — contains Read Codes and Erase Codes. The former displays detailed DTC information retrieved from the vehicle control module, the latter allows you to erase DTCs and other data from the ECU.
- Data List — retrieves and displays data list and parameters from the vehicle's ECU.
- Active Test — accesses vehicle-specific subsystem and components tests.
- Special Function — performs various component adaptations.

4.6.1 ECU Information

This function retrieves and displays the specific information for the tested control unit, including unit type, version numbers, and other specifications.

Vehicle Identification Number (VIN)	LSGGH55L7ES173182
Date Programmed	4C534747
Diagnostic Data Identifier	4C53
End Model Part Number	1280526151
Base Model Part Number	1280526151
Software Module 1 Identifier	1280526151
Software Module 1 Identifier Alpha Code	LS

3GYFN9E51ES620452
2014\Cadillac\SRX

Generate report View report Back

Figure 4-9 ECU Information Screen

4.6.2 Trouble Codes

a) Read DTCs

This function retrieves and displays the DTCs from the vehicle's control system. The Read Codes screen varies for each vehicle being tested. On some vehicles, freeze frame data can also be retrieved for viewing.

P0101-00 Current
Mass Air Flow (MAF) Sensor Performance - - -

3GYFN9E51ES620452

Clear Generate report View report Back

Figure 4-10 Read DTCs Screen

b) DTC Freeze Data

If a DTC has freeze data, a button will appear on the corresponding right side.

Tap the button to read the corresponding DTC freeze data. The DTC freeze data recorded the vehicle's operating status information at the moment of a DTC occurrence.

c) Clear DTCs

After reading the retrieved codes and making appropriate vehicle repairs, use this function to clear vehicle codes.

4.6.3 Data List

When this function is selected, the screen displays the data list for the selected module. The items available for any control module vary by vehicle. The parameters display in the order that they are transmitted by the ECU, so expect variation among vehicles.

Gesture scrolling allows you to quickly move through the data list. Touch the screen and drag your finger up or down to reposition the parameters being displayed if the data occupies more than one screen. The figure below displays a typical data list screen:

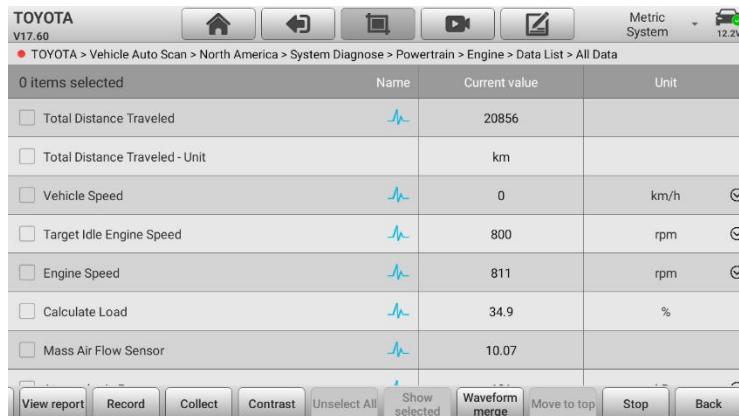


Figure 4-11 Data List Screen

Table 4-4 Function Buttons in Data List

Name	Description
Record	Record the process of data list changes over a period of time.
Collect	Collect data changes over a period of time for data list contrast.
Contrast	Contrast the current data with the history collecting data.
Unselect All	One click to cancel all selections.
Show	Show only selected data items.

Selected	
Waveform Merge	Select 2-4 numeric data items to merge into one waveform for comparison.
Move to Top	Move the selected data items to the top of data list screen.
Stop	Stop the data list reading and flashing.
Back	Exit the data list screen.

4.6.4 Active Test

The Active Test function is used to access vehicle-specific subsystem and component tests. Available tests vary by vehicle.

During an active test, the tablet sends commands to the ECU to activate the actuators. This test determines the integrity of the system or part by reading ECU data, or by monitoring the operation of the actuators. Such tests may include switching a solenoid, relay or switch, between two operating states.

Selecting Active Test displays a menu of test options. Available tests vary by vehicle. Select a test from the menu options, and follow the instructions displayed on the screen to complete the test. Procedures and instructions vary by vehicle.



Figure 4-12 Active Test Screen

The function buttons in the lower-right corner of the Active Test screen manipulate the test signals. Operational instructions are displayed in the main section of the test screen. Follow the on-screen instructions and make appropriate selections to complete the tests. Tap the **Exit** button to exit the test when finished.

4.6.5 Special Function

These functions perform various component adaptations, including the recalibration or configuration of certain components after repairs or replacements have been completed.

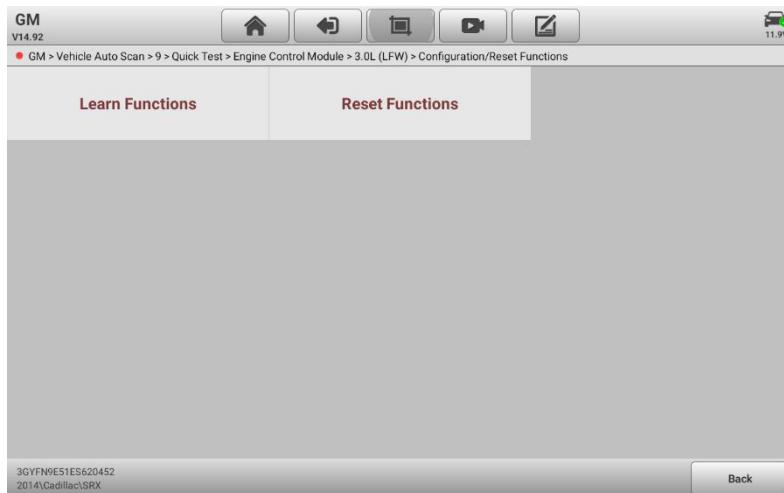


Figure 4-19 Special Function Screen 1

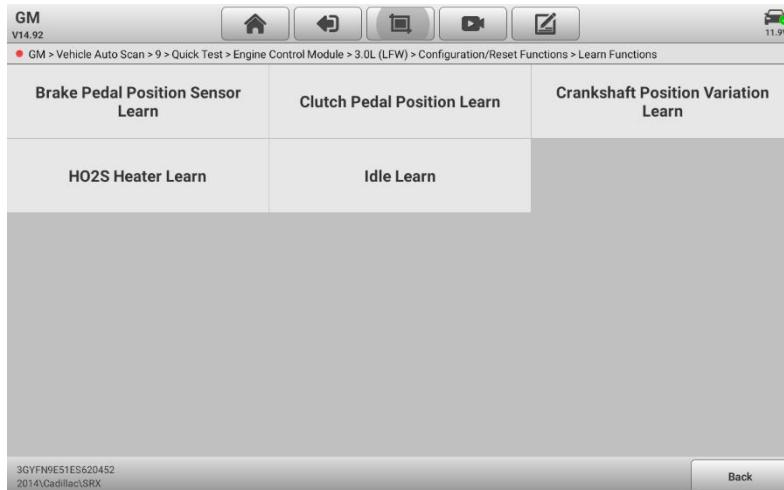


Figure 4-19 Special Function Screen 2

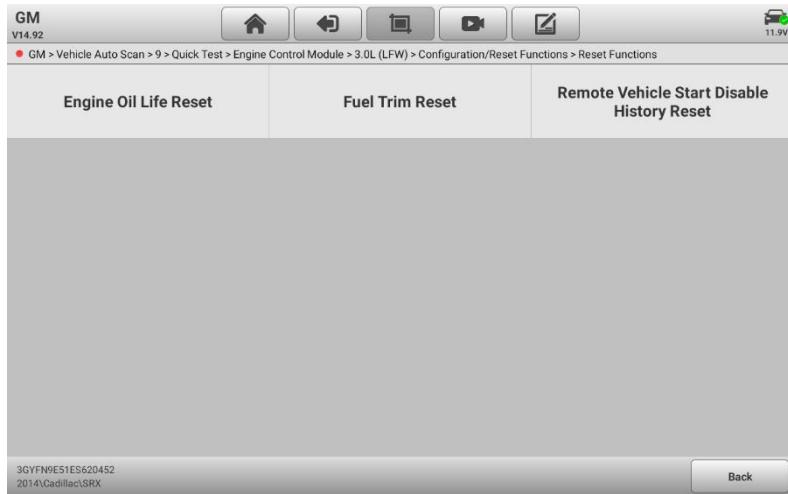


Figure 4-19 Special Function Screen 3

5 Hot Function

The Hot Function is specially designed to provide quick access to the vehicle systems for various scheduled service and maintenance tasks. The typical service operation screen is a series of menu-driven executive commands. Follow on-screen instructions to select appropriate execution options, enter correct values or data, and perform necessary actions. The application will display detailed instructions to complete selected service operations.

After entering a special function, the screen will display two options: Quick Test and Hot Function. The Quick Test option enables the all systems reading and clearing of codes which are sometimes necessary after completing certain special functions. The Hot Functions consists of sub functions of the selected special function.

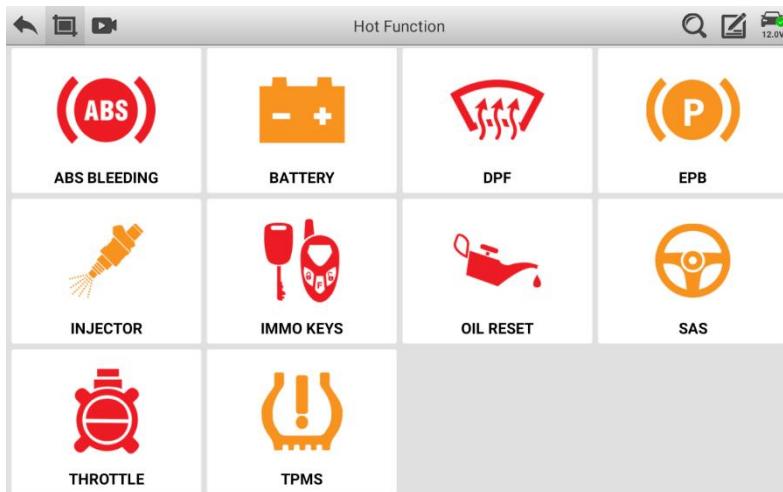


Figure 5-1 Hot Function

6 Data Manager

The Data Manager application allows you to review the saved files, manage the vehicle software, and review the Diagnose History.



Figure 6-1 Data Manager Main Screen

Table 6-1 Buttons in Data Manager

Button	Name	Description
	Images	Tap to review the screenshot pictures.
	Video	Tap to review the screen recording files.
	Apps	Tap to manage the vehicle diagnostic software.
	Report	Tap to review the diagnostic reports.
	Data Playback	Tap to review the data list recording data.
	Datastream Standard	Tap to review the data list reference data.
	Diagnose History	Tap to review the diagnostic testing history.

7 Settings

Access the Settings menu to adjust default settings and view information about the Ancel system. The following options are available for the Ancel system settings:

- **Run Mode**
- **Unit**
- **Search Engine**
- **System Info**
- **Report Title**
- **Version Update**
- **Languages**
- **System Settings**

This section describes the procedures to adjust the device's system settings.

7.1 Run Mode

This option allows you to adjust the running mode for the diagnostic system.

There are two options:

- Diagnosis : default mode, need to connect VCI.
- Demo : demo mode, no need to connect VCI.

7.2 Unit

This option allows you to adjust the measurement unit for the diagnostic system.

There are two options:

- Metric System
- Imperial System

7.3 Search Engine

There are two search engine options for the DTC function:

- Google
- Baidu

7.4 System Info

This option reads the system version, firmware version and serial number, and allows you to force update the VCI firmware software.

7.5 Report Title

This option allows you to edit the diagnostic report title information. The information include: logo, company name, address, Tel. No., email, fax No., post code and inspector. The information filled in will be used in the title of the diagnostic report.

7.6 Version Update

This option allows you to check and update the new Ancel system version.

7.7 Language

This option allows you to adjust the display language for the Ancel system.

7.8 System Settings

This option provides you with direct access to the Android system settings interface, where you can adjust various system settings for the Android operating system, regarding wireless and network settings, various device settings such as sound and display, as well as system security settings, and check related information about the Android system. Refer to your Android documentation for additional information.

8 Update

The Update application on the tablet downloads the latest version of the software. The updates improve the Ancel applications' capabilities, typically by adding new tests, new model coverage or by adding new or enhanced applications.

The tablet automatically searches for available updates for all of the Ancel software when it is connected to the Internet. Any updates that are found can be downloaded and installed on the device. This section describes update procedures in the Ancel system.

➤ **To update the software**

1. Ensure the tablet is connected to a power source and has a stable Internet connection.
2. Tap the **Update** application button from the Ancel APP homepage. The Update application screen displays.
3. On the Update screen, tap the all select button  to select all available

software version, then tap the update button  to update all select software version.

- When the updating process is completed, the software will be installed automatically. The previous version will be replaced.

9 Feedback

When encountering an error during testing and diagnosing, use this function to submit a data logging report. These reports can help engineers repair software errors quickly.

➤ To make a Feedback

- Tap the **Feedback** button  on the APP home screen or tap the **Feedback** button  on the Diagnostic Toolbar which is available throughout the whole diagnostic operations.
- Select an error type.
- Select the corresponding vehicle brand or skip this option.
- Fill the report information, attach the error related images if needed.
- Tap the **Submit** button to submit the report form via the internet.

10 Quick Support

The Quick Support application launches the TeamViewer QuickSupport program, which is a simple, fast, and secure remote-control interface. You can use the application to receive remote support from Ancel's support center, colleagues or friends, by allowing them to control your Ancel tablet on their PC via the TeamViewer software.

Make sure the tablet is connected to the Internet before launching the Remote Desktop application, so that the tablet can receive remote support from a third party. Provide your ID to your partner and wait for him/her to send you a remote-control request. A prompt will appear asking you to allow remote control on your device. Tap **Allow** to accept, or tap **Deny** to reject.

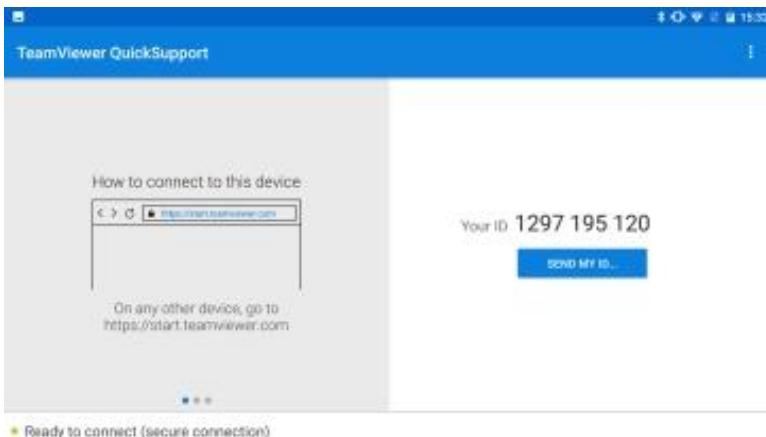


Figure 10-1 Quick Support Screen

11 Warranty

Limited One Year Warranty

This applies only to products purchased from a product dealer that has been authorized by ANCEL. If products are purchased from anyone other than a ANCEL authorized product dealer, buyers will be solely responsible for the cost of product maintenance services and will not be eligible to obtain any warranty from ANCEL.

NOTE

If the warranty period is inconsistent with local laws and regulations, please comply with the relevant local laws and regulations.

The Company shall not be liable for any incidental or consequential damages arising from the use, misuse, or mounting of the device. Some states do not allow limitation on how long an implied warranty lasts, so the above limitations may not apply to you.

This warranty does not apply to:

- 1) Products subjected to abnormal use or conditions, accident, mishandling, neglect, unauthorized alteration, misuse, improper installation or repair or improper storage;
- 2) Products whose mechanical serial number or electronic serial number has been removed, altered or defaced;
- 3) Damage from exposure to excessive temperatures or extreme environmental conditions;
- 4) Damage resulting from connection to, or use of any accessory or other product not approved or authorized by the Company;
- 5) Defects in appearance, cosmetic, decorative or structural items such as framing and non-operative parts;
- 6) Products damaged from external causes such as fire, dirt, sand, battery leakage, blown fuse, theft or improper usage of any electrical source.

IMPORTANT

All contents of the product may be deleted during the process of repair. You should create a back-up copy of any contents of your product before delivering the product for warranty service.



ANCEL TECHNOLOGY CO.,LTD

D03, Block A, No.973 Minzhi Ave, Longhua District.
Shenzhen, Guangdong, China
Email: support@anceltech.com
Web: www.anceltech.com

Federal Communications Commission (FCC) Statement. This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received,

including interference that may cause undesired operation. Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide Reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Warning: Changes or modifications made to this device not expressly approved by OBDSPACE TECHNOLOGY CO., LTD may void the FCC authorization to operate this device. Note: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

RF exposure statement:

This device complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. The device is installed and operated without restriction.

Specific Absorption Rate (SAR) information:

This Automotive OBD2 Scanner Diagnostic Tool meets the government's requirements for exposure to radio waves. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons regardless of age or health. FCC RF Exposure Information and Statement the SAR limit of USA (FCC) is 1.6 W/kg averaged over one gram of tissue. Device types: Automotive OBD2 Scanner Diagnostic Tool has also been tested against this SAR limit. This device was tested for typical body-worn operations with the back of the Automotive OBD2 Scanner Diagnostic Tool kept 0mm from the body. To maintain compliance with FCC RF exposure requirements, use accessories that maintain an 0mm separation distance between the user's body and the back of the Automotive OBD2 Scanner Diagnostic Tool. The use of belt clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.