



MULTI-MANUFACTURING DIAGNOSTIC TABLET

MODEL: SDS1

Thank you for purchasing a Sealey product. Manufactured to a high standard, this product will, if used according to these instructions, and properly maintained, give you years of trouble free performance.

IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS & CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. KEEP THESE INSTRUCTIONS SAFE FOR FUTURE USE.



Refer to
instructions

1. SAFETY

1.1. ELECTRICAL SAFETY

- WARNING!** It is the user's responsibility to check the following:
 - ✓ Check all electrical equipment and appliances to ensure that they are safe before using.
 - ✓ Inspect power supply leads, plugs and all electrical connections for wear and damage.
 - ✓ Ensure that the insulation on all cables and on the appliance is safe before connecting it to the power supply.
 - ✗ **DO NOT** use worn or damaged cables, plugs or connectors.
 - ✓ Ensure that any faulty item is repaired or replaced immediately by a Sealey qualified technician.
 - ✓ If the cable or plug is damaged during use, switch off the electricity supply and remove from use.
 - ✓ Sealey recommend that an RCD (Residual Current Device) is used with all electrical products.
- IMPORTANT:** Ensure that the voltage rating on the appliance suits the mains power supply.
- ✗ **DO NOT** pull or carry the appliance by the power cable.
- ✗ **DO NOT** pull the plug from the socket by the cable.

1.2. POWER CORDS

- WARNING!** When positioning the appliance, ensure the supply cord is not trapped or damaged. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

1.3. GENERAL

- To prevent personal injury or damage to vehicles and/or the diagnostic tool, read this instruction manual first and observe the following safety precautions at a minimum whenever working on a vehicle:
- ✓ Always perform automotive testing in a safe environment.
 - ✓ 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: Exhaust gases are poisonous.
 - ✓ Put blocks in front of the drive wheels and never leave the vehicle unattended while running tests.
 - ✓ Use extreme caution when working around the ignition coils, ignition wires and spark plugs. These components create hazardous voltages when the engine is running.
 - ✓ Put the transmission in PARK (for automatic transmission) or NEUTRAL (for manual transmission) and ensure that the handbrake is applied. Keep a fire extinguisher suitable for petrol/chemical/electrical fires nearby.
 - ✗ **DO NOT** connect or disconnect any test equipment while the ignition is on or the engine is running.
 - ✓ Keep the scan tool dry, clean and free from oil/water or grease. Use a mild detergent, **DO NOT** use solvent or abrasive cleaners.
 - ✓ Operating Temperature 0 to 40°C
 - ✓ Storage Temperature -20 to 60°C
 - ✓ 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 diagnostic 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 the vehicle manufacturer. Read, understand, and follow all safety messages and instructions in this manual.
 - ✓ To prevent personal injury or damage to vehicles and/or the diagnostic tool, read this instruction manual first and observe the following safety precautions at a minimum whenever working on a vehicle: 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: exhaust gases are poisonous. Put blocks in front of the drive wheels and never leave the vehicle unattended while running tests. Use extreme caution when working around the ignition coil, distributor cap, ignition wires, and spark plugs, as these components create hazardous voltages when the engine is running. Put the transmission in PARK (for automatic transmission) or NEUTRAL (for manual transmission) and make sure the parking brake is engaged. Keep a fire extinguisher suitable for gasoline, chemical, or electrical fires nearby when ignition is on or the engine is running. Keep the diagnostic tool dry, clean, and free from oil, water, or grease. Use a mild detergent on a clean cloth to clean the outside of the diagnostic tool when necessary.

2. INTRODUCTION

The SDS1 multi-manufacturer diagnostic tablet is a fast wireless multitasking Android operating system. With a 7" LCD touchscreen, fast quad-core processor, extensive coverage and OE-level diagnosis the SDS1 is built for maximum convenience and efficiency, allowing independent garages to provide a complete diagnostic service for cars, SUVs and vans. Rechargeable Lithium battery providing 30hrs of continuous use. 3 Years free updates with continued use after updates have expired, order Model No. SDS1-U for annual updates.

Software features:	
Maintenance functions; technical information and data management	
Read/Clear codes	Live data (record/playback and print)
Actuation tests	Airbag Reset
Battery Configurations	DPF regeneration
Electronic Parking Brake	ABS Bleeding
Injector Programming	Key Programming
Oil Service reset	Steering Angle Calibration
Throttle Reset	TPMS
DOIP or Diagnostic Over Internet Protocol	FCA gateway by connecting to the 8+12 interface in the car through an 8+12 adaptor cable

3. SPECIFICATION

Model No:	SDS1
Nett Weight:	2.14kg
Central Processing Unit (CPU):	Cortex-A7, RK3128, 1.4GHz
Operating System:	Android 7.1.2
Micro SD Card:	64GB (Supplied) Max 128GB
Screen Size - Resolution:	7" - 1024 x 600
Wi-Fi:	Yes
Wireless VCI:	Yes

Internal Battery:	7200mAh Lithium-ion
Input Voltage	DC/12V 2A
Tablet Weight:	0.88kg
Tablet Size:	240 x 150 x 35mm
Boot-Up Time:	32 Seconds
Auto VIN Recognition:	Some
Subscription Based Online Updates:	First 3-years free.

4. CONTENTS

1	Tablet
2	Universal Charger
3	Universal Charger Adapter
4	OBD2 plug and FCA lead
5	Storage Case



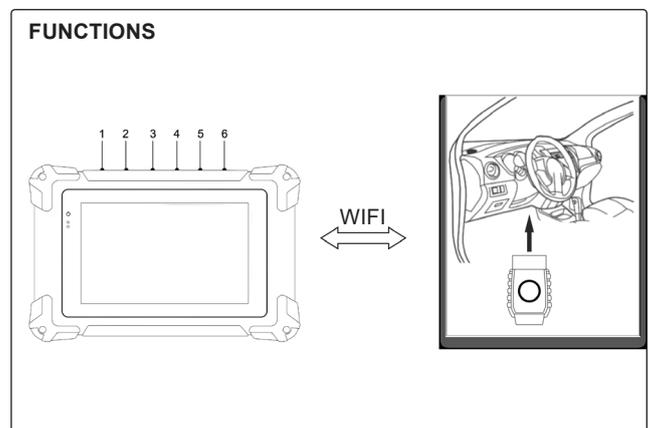
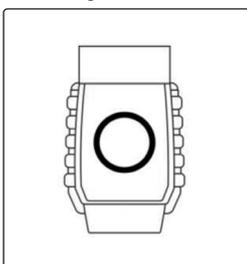
5. FUNCTIONS

1	DC Port
2	TF Card Port
3	USB Port
4	HDMI Port
5	Type-C Port
6	On/OFF Power Button

5.1. VEHICLE COMMUNICATION INTERFACE (VCI) – APPLICABLE TO 12V VEHICLES ONLY

1. The Vehicle Communication Interface (VCI) is used to connect the diagnostic tool to a vehicle's Diagnostic Link Connector (DLC) using an OBDII extension cable.

2. It facilitates communication between the vehicle's Electronic Control Units (ECUs) and the diagnostic Tablet by reading ECU data and transmitting it to the Tablet in real-time.



6. 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 diagnostic tool.

6.1. POWERING UP THE SCANNER

The scanner can operate using either of the following power sources:

- Internal Battery Pack
- 12V AC/DC Power Supply

6.1.1. Internal Battery Pack

The tablet scanner is equipped with a built-in rechargeable battery. When fully charged, the battery provides 10 to 15 hours of continuous operation.

NOTE: If the scanner has not been used for an extended period or the battery is completely discharged, it may not power on immediately even when connected to a charger. In such cases, allow it to charge for approximately 10 minutes before attempting to power it on.

6.2. AC/DC POWER SUPPLY

The scanner can also be powered via a standard wall outlet using the supplied 12V AC/DC adapter. This method also charges the internal battery pack.

To power the scanner using the AC/DC adapter:

1. Connect the 12V power adapter to the scanner.
2. Plug the adapter into a wall socket.
3. Press the power switch on the scanner to turn it on. The internal battery will begin charging automatically.

6.3. POWER ON/OFF THE SCANNER

6.3.1. Power On

- Press and hold the Power button on the top side of the tablet for 5 seconds to turn on the tool.

NOTE: If this is your first time using the tool, or it has remained idle for a long time, it may not power on immediately. In this case, charge the tool for at least 5 minutes, then try turning it on again.

6.3.2. Power Off

- Before shutting down the scanner, terminate all vehicle communications.

Forcing a shutdown during communication may cause ECM (Engine Control Module) issues on certain vehicles.

- Make sure to exit the Diagnostic application before powering off.
- To shut down the scanner:

1. Click the **Windows icon** in the bottom-left corner of the screen.
2. Select **Power**, then choose Shut down.

6.3.3. Lock & Unlock the Screen

- While the scanner is ON, press the Power button once to lock the screen.
- The screen will auto-lock after a period of inactivity based on the preset standby time.

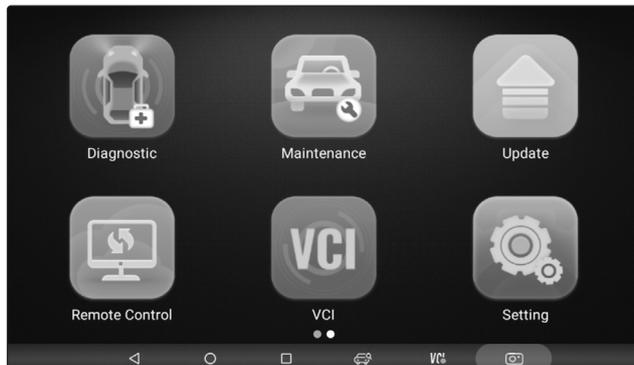
NOTE: In an emergency, press and hold the Power button for 5 seconds to force shutdown.

6.3.4. Reboot System

- If the system becomes unresponsive or crashes, press and hold the Power button for 10 seconds to force a reboot.

6.4. HOME SCREEN LAYOUT

- When the scanner boots up, tap the Device Desktop icon on the home screen to launch the Diagnostic Application.

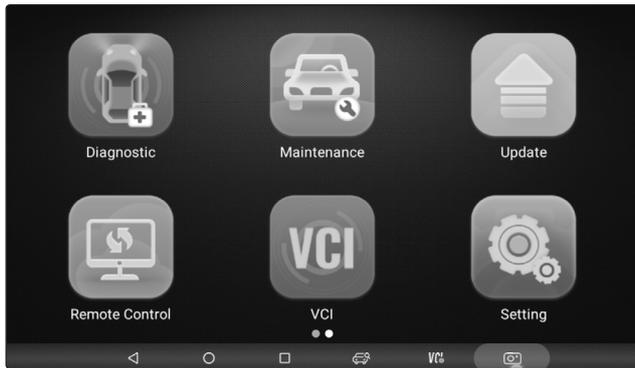


6.5. APPLICATION BUTTONS

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

Name	Button	Description
Diagnostics		Configure the unit to operate as a diagnostic tool.
Maintenance		Common required special services or functions such as ABS bleed, AFS, Adjust Fuel, BRT, DPF, EPB, Gear Box, Gear Learn, Immobilizer, Injector, Odometer, Oil Reset, SAS, Sun Roof, Suspension, TPMS, TPS.
Update		Leads to screens for registration and updating of the scanner and managing your scanner serial numbers and sending us feedback about the scanner.
Data Management		Leads to screens for saved screenshots and pictures and playing back recorded live data stream, as well as stored logging data and uninstallation of software.
About		Leads to screen of product information such as serial number and password, which is required for product registration.
Setting		Leads to screens for adjusting default settings to meet your own preference and view information about the scanner.
Remote Control		Leads to the application Team Viewer for remote control when you need any support from EGMA support team
VCI		Leads to connect to VCI device.
Other Tools		Leads to ES File Explorer and Calculator.
Function List		Leads to the Brand of vehicles menu.

6.5.1. Diagnostics Toolbar



Name	Button	Description
Home		Returns to Windows desktop
Back		Returns to the previous screen
Screenshot		Captures the screens of errors or faults.
Search		Search vehicle brand or model
VCI		The tick icon at the bottom right corner indicates the Display Tablet is communicating with the VCI, while a white icon indicates the connection has not built yet.
Data Logging		Records the communication data between the diagnostic tool and the vehicle under test to help with troubleshooting of diagnostic failures. The logs can be saved and upload to our server via internet.
VINAuto Reading		Reading the VIN of the car under testing automatically.

7. DIAGNOSTICS OPERATION

This section explains how to use the scanner to:

- Read and clear Diagnostic Trouble Codes (DTCs).
- View live data and ECU information.
- Perform special functions such as actuation, coding, and adaptations.
- Carry out vehicle services and maintenance on over 100 vehicle brands.

7.1. ESTABLISH VEHICLE COMMUNICATION

To begin vehicle diagnostics, follow these steps:

Step 1: Connect the VCI Device

- Pair the VCI (Vehicle Communication Interface) with the tablet using either:
 - Bluetooth, or USB cable

Step 2: Launch Diagnostic Software

- Open the diagnostic application on the tablet.
- Check the VCI icon at the bottom of the main screen.
- If a green tick appears in the lower-right corner of the VCI icon, the system is ready for vehicle diagnostics.

7.1.1. Vehicle Connection

The connection method depends on the vehicle's diagnostic system:

Connect to OBD II Vehicles

Most modern vehicles use OBD II systems.

1. Locate the vehicle's DLC (Data Link Connector).
2. Connect the VCI to the diagnostic cable.
3. Attach the OBD II connector to the diagnostic cable.
4. Insert the OBD II connector into the vehicle's DLC port.

- ✓ Power and communication are supplied through the standardized OBD II DLC.

Connect to NON-OBD II Vehicles

Older or special vehicles may require manufacturer-specific OBD I adapters.

1. Find the required OBD I adapter for the vehicle.
2. Connect the adapter's 16-pin jack to the diagnostic cable.
3. Plug the OBD I adapter into the vehicle's DLC.
4. If needed, power the VCI using the vehicle's cigarette lighter receptacle:
 - Plug the DC connector of the lighter cable into the VCI's DC power input.
 - Insert the cigarette lighter plug into the vehicle's socket.

NOTE: Some non-OBD II vehicles may not provide 12V power via the DLC.

7.1.2. VCI Connection

The VCI (Vehicle Communication Interface) connects to the tablet via Bluetooth (default) or USB cable.

Bluetooth Communication

By default, the VCI connects to the tablet via Bluetooth.

If:

- The Bluetooth indicator on the VCI is not green, and
- There is no green tick on the VCI icon in the diagnostic software,

Then the VCI is not successfully connected via Bluetooth.

To establish a Bluetooth connection:

1. Ensure the VCI is connected to the vehicle's DLC (Data Link Connector).
2. Swipe from the right side of the tablet screen to open the Action Center.
3. Check the Bluetooth icon:
 - If it's not blue, tap it to turn Bluetooth on.
 - When it turns blue, check whether the Bluetooth indicator on the VCI turns green.
 - If not, repeat the steps above.
4. If there is no Bluetooth icon, tap the Connect icon in the Action Center:
 - Look for your VCI's name (e.g., X001) in the device list.
 - Tap the name to pair the devices.

The X-series VCI and tablet will usually auto-connect when in range and Bluetooth is active.

Bluetooth communication range is approximately 10–20 meters, depending on the environment.

USB Cable Communication

To use a wired connection:

1. Plug the USB 2.0 end of the cable into the tablet.

2. Connect the other end to the VCI.

If successful, a green tick will appear at the bottom-right corner of the VCI icon, confirming active communication.

7.1.3. No Communication Troubleshooting

If the tablet is not communicating with the VCI, and the error indicator appears on the VCI, check the following:

- ✓ Ensure the VCI is powered (either from the vehicle or external source).
- ✓ For Bluetooth connections:
 - Confirm the tablet is paired with the correct VCI (match the Bluetooth name to the label on the VCI).
 - Check for any objects obstructing the Bluetooth signal.
 - Reduce distance between the tablet and VCI for a stronger signal.
- ✓ For USB connections:
 - Ensure the USB cable is securely connected at both ends.
- ✓ Confirm the Connection Indicator on the VCI is lit:
 - Green for Bluetooth
 - Steady or blinking light for USB (depends on model).

7.2. VEHICLE IDENTIFICATION

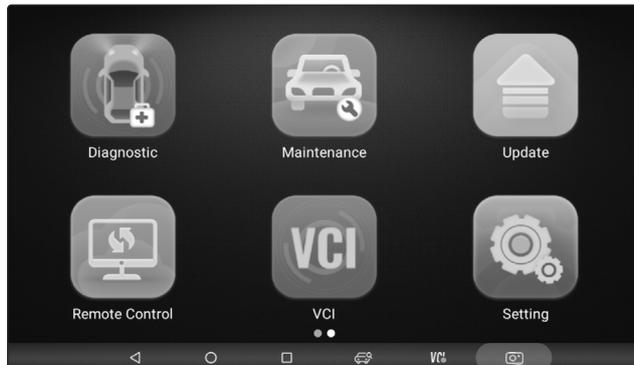
The scanner can identify a vehicle using any of the following methods:

- Automatic VIN Acquisition
- Manual VIN Entry
- Manual Vehicle Selection

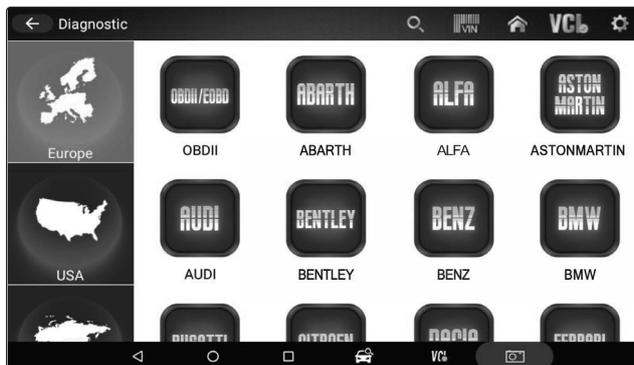
NOTE: Not all methods are supported by every vehicle. Available identification methods vary by manufacturer and vehicle model.

7.2.1. Automatic VIN Acquisition

The device diagnostic system features the latest VIN-based Auto VIN Scan function, allowing technicians to identify CAN vehicles with one touch. This enables quick detection of the vehicle, automatic scanning of all diagnosable ECUs, and immediate access to run diagnostics on the selected system. To perform automatic VIN acquisition, tap Diagnostic from the Home screen of the SDS1 application, then tap the VIN Auto Reading button at the top-left corner of the screen. The scanner will begin scanning, and once the vehicle is successfully identified, the system will guide you directly to the vehicle diagnostics screen.



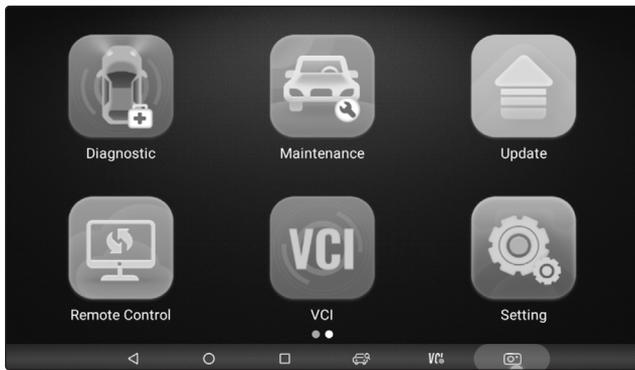
Tap the VIN Auto Reading button at the top-left corner of the screen to start VIN scanning; once the test vehicle is successfully identified, the system will automatically navigate to the vehicle diagnostics screen.



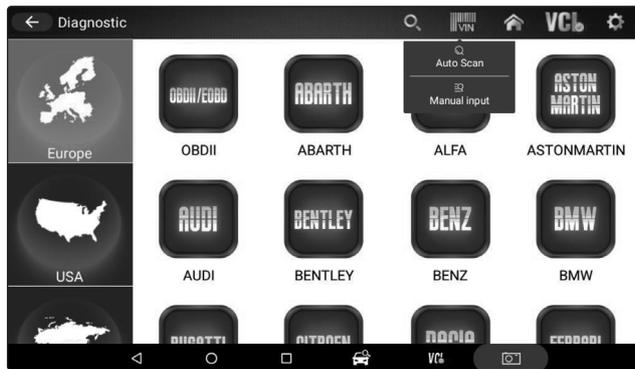
In some cases, when users select the vehicle brand manually instead of using the Auto VIN Reading function initially, the system still offers an option to perform a VIN scan to identify the vehicle automatically.

7.2.2. Manual VIN Entry

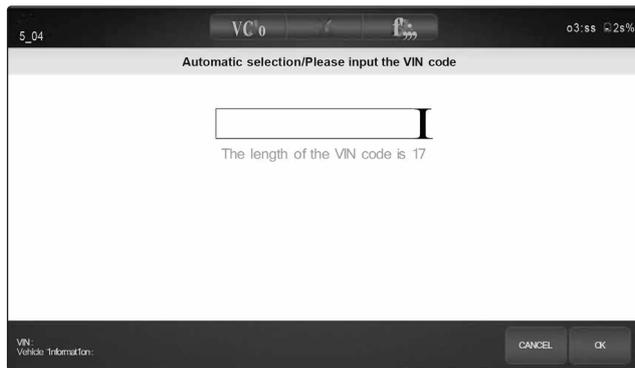
For vehicles that do not support Auto VIN Reading, the device allows manual entry of the 17-digit VIN code. To identify a vehicle using manual VIN entry, tap Diagnostic from the Home screen of the device application and follow the prompts to manually input the VIN.



Tap the VIN Auto Reading button, then select Manual Input to enter the 17-digit VIN code manually for vehicle identification.



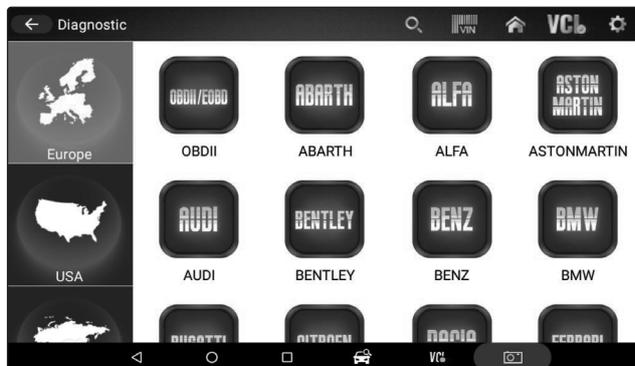
Tap the VIN Auto Reading button, select Manual Input, then tap the input box and enter the correct 17-digit VIN code to identify the vehicle.



7.2.3. Manual Vehicle Selection

When the vehicle's VIN cannot be automatically retrieved through the ECU or the specific VIN is unknown, you can identify the vehicle by manually selecting certain details such as model year and engine type.

1. Tap Diagnostics and select the vehicle manufacturer.
2. On each screen that appears, select the correct option and tap the OK button. Repeat this process until all vehicle information is entered and the controller selection menu is displayed.





7.2.4. System Selection

After identifying the vehicle, a menu for selecting the system to test is displayed. Menu options typically include:

- Auto Scan
- Control Unit

7.2.5. Auto Scan

Auto Scan performs an automatic system test to determine which control modules are installed on the vehicle and provides an overview of diagnostic trouble codes (DTCs). Depending on the number of control modules, it may take a few minutes to complete the test.

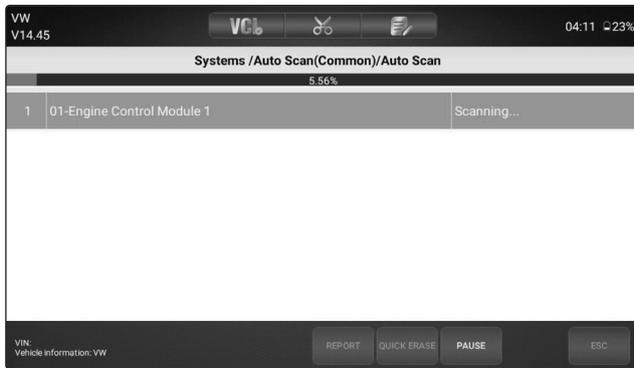
To perform an automatic system scan:

1. Click Auto Scan from the diagnostic menu. The system will start scanning the control modules.



2. To pause the scan, tap the Pause button on the screen.

3. At the end of a successful automatic controller scan, a menu with a list of installed controllers along with their DTC overview will be displayed.



-!-: Indicates that the scanned system may not support the code reading function, or there is a communication error between the tester and the control system.

?-?: Indicates that the vehicle control system has been detected, but the tester cannot accurately locate it.

Fault I#: Indicates there is/are detected fault code(s) present; “#” indicates the number of the detected faults.

Pass I No Fault: Indicates the system has passed the scanning process and no fault has been detected.

4. If there is diagnostic trouble code(s) detected in a control unit, tap the Report button on the screen to view details of code information.

5. Or tap Quick Erase button to clear them.

7.2.6. Control Unit

This option allows you to manually locate a required control system for testing through a series of choices. Simply follow the menu driven procedure, and make proper selection each time; the program will guide you to the diagnostic function menu after a few choices you've made.

To select a system for testing:

1. Select Control Unit from the menu and a controller menu displays.



2. Select the system you would like to test, when the scanner has established connection with the vehicle, the Function Menu displays.



7.3. DIAGNOSTIC OPERATIONS

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

- Read Codes
- Erase Codes
- ECU Information
- 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. A "The selected mode is not supported!" message displays if the option is not applicable to the vehicle under test.

7.3.1. Read Codes

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

To read codes from a vehicle:

1. Select Read Codes from the Diagnostic Function menu. A code list including the code number and its description displays.



2. Slide up and down to view additional information when necessary.

3. Select Save to store DTC information, and tap Print to print the code information. Or use the ESC button to exit.

7.3.2. Erase Codes

After reading the retrieved codes from the vehicle and certain repairs have been carried out, you can erase the codes from the vehicle using this function. Before performing this function, make sure the vehicle's ignition key is in the ON (RUN) position with the engine off.

To clear codes:

1. Select Erase Codes from Select Diagnostic Function menu.



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

3. Click function key Save to store ECU information, and click Print to print the information, or use the ESC button to exit.

7.3.3. Live Data

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

- All Data
- Custom List

7.3.4. Data Stream

Mode All Data menu lets you view all live PID data from a selected control module. The diagnostic system allows you to view live data information in 6 different types of display modes.

- Text Mode - this is the default mode which displays the parameters in texts.
- Graph Mode - displays the parameters in waveform graphs, giving you the 'real picture' of what's going on in the vehicle, you could view up to 4 parameter graphs simultaneously and easily find and zoom in on a particular string of data.
- Merged Graph Mode - merges multiple PID plots into one coordinate to show how they affect each other, providing you with the most comprehensive and functional look at live data possible.
- Gauge Mode - displays the parameters in the form of an analog meter.
- Study Mode - 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.
- Comparison Mode - to compare the faulty sensor and parameter readings to the good readings, you will be notified when a faulty sensor reading is detected.

NOTE:

- Study and Comparison modes are available for viewing of parameter readings in the text mode ONLY.
- In case no learned value is stored in the diagnostic tool, the Comparison Mode will not be available.

Functional Buttons:

To Top: to move a data line to the top of Data List screen.

Page Down: to move a data line to the bottom of the list.

Record: to record live data to memory of the scanner for offline review, just tap the button Record, and tap Stop to stop recording at any time.

Print: to save the data to PDF format and/or print out.

Replay: to replay the recorded data.

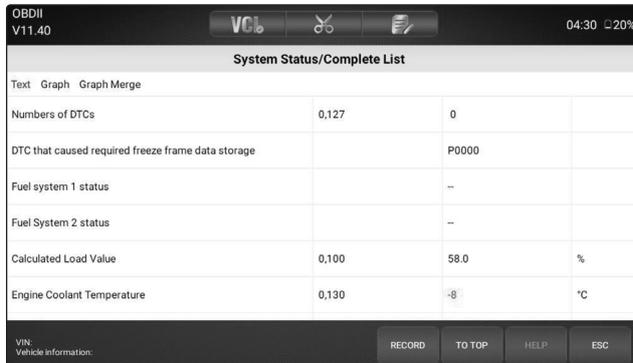
Help: tips on how to use this function.

7.3.5. All Data

To view all live PID data:

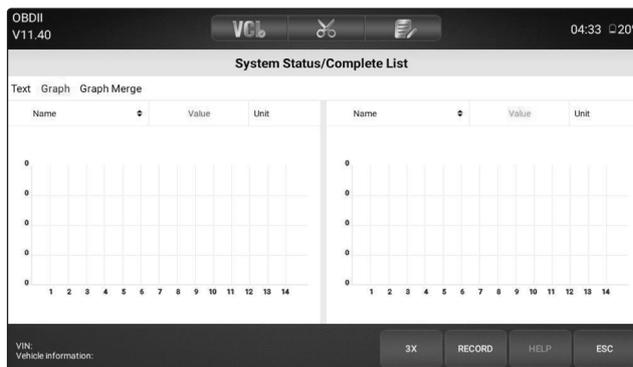
1. Tap Live Data from Select Diagnostic Function menu to display the live data menu.

2. Tap All Data from the menu to display the data stream screen. All readings will be displayed in text format by default.

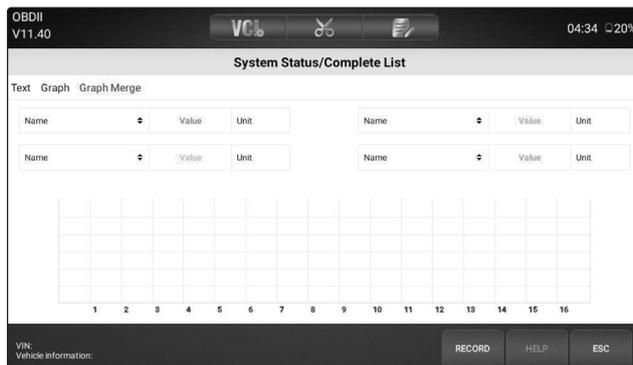


3. Swipe the screen up and down or use the PAGE UP and PAGE DOWN button to view additional information when necessary.

4. To view live PID in graph format, select Graph, and 4 PID plots display. To view another PID plot, tap 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. To view the plots with more details, use the Zoom in button; instead, use the Zoom out button.



5. To see how the PIDs affect each other, select the Graph Merge tab to merge them into one coordinate for easy and intuitive diagnosis.



6. To view parameters in the form of an analog meter, select Gauge.

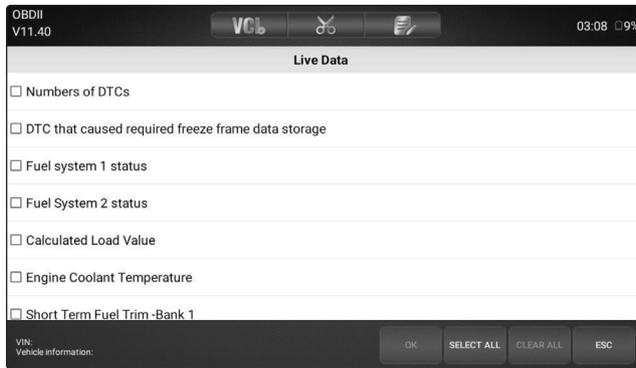
7.3.6. Custom Data List

Custom Data List menu lets you minimize the number of PIDs on the data list and focus on any suspicious or symptom-specific data parameters.

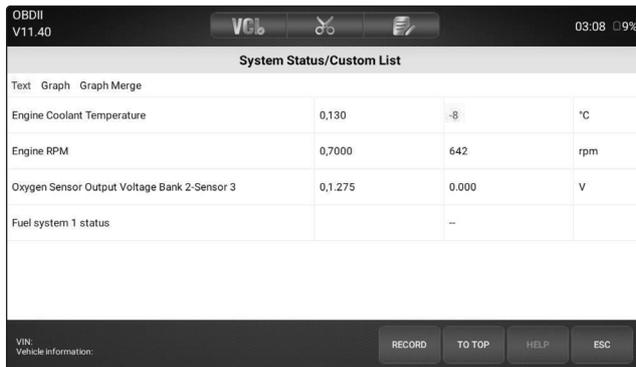
To create a custom data list:

1. Tap 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.



3. Tap the OK button to complete the selection, and all selected parameters are displayed.



4. Select Graph, Graph Merge, Gauge separately to view the parameter in other formats.

7.3.7. Study and Comparison Mode of Live Data

The scanner is able to learn and record good live sensor data values, compare faulty sensor and parameter readings to the good readings, and warn the technician of the faulty sensor data.

To learn and record good sensor values:

1. Connect the scanner to a vehicle that is in good shape.
2. Select Live Data > All Data to display all available parameters from the selected control module. Select Study Mode, a dropdown list of working conditions will display.
3. Select one condition from the list to start studying the good data, when it finishes, tap this again to exit studying.
4. The good reference data will be saved, you can compare the live data on any other car with it for comparison.

8. BI-DIRECTIONAL TEST OPERATIONS

The device allows you to use the diagnostic tool temporarily, activate or control a vehicle system or component. With The device, the check of electronic components such as switches, sensors, relays and actuators are made a simple task. It allows the operator to recalibrate, adapt or configure certain components after making repairs or replacement. It gives you the ability to 'flash' a control unit with new program data, provided that a module can be re-coded, The device allows for the coding and programming of a replacement control module, or changing previously stored incorrect coding as expensive factory tools do. In addition, it lets the operator recode the transponder in a mechanical key or key fob. When a key for a modern vehicle is replaced, the new unit will often turn the mechanical switch but fail to initialize the system or start the vehicle. If this occurs, it is typically because the transponder inside the key has not been coded to that particular system.

8.1. ACTIVE TESTS

Active Tests also known as Actuator Tests are bi-directional diagnostic tests on vehicle systems and component. The tests lets the operator use the scanner temporarily, activate or control a vehicle system or component, when you exit the test, the system/component returns to normal operation, some tests outputs commands to the ECU in order to drive the actuators. This test determines the integrity of the system or parts by reading the engine ECU data, or by monitoring the operation of the actuators, such as switching a solenoid, relay, or switch between two operating states. For example, if 'Press Brake Pedal' displays, the operator has to press and hold the brake pedal and then continue. The sequence, number, and type of tests are dictated by the control module. Selecting Active Test opens a menu of test options that varies by make and model. Selecting a menu option activates the test. Follow all screen instructions while performing tests. The content and pattern of the on-screen information vary according to the type of test being performed.

IMPORTANT

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

To start a test:

1. Select Active Test from the menu and a list of available options will display.
2. Select an option to start the test and follow the on-screen instructions to make proper selections and operations to complete the tests.
3. To exit the test, tap the ESC button or the Close button at the top right of the screen.

NOTE:

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

8.2. ADAPTATION

Adaptation menu let you change adaptation values from the control module and allows you to alter certain values and/or settings in control modules that support it.

NOTE:

You should refer to the Service Manual for your particular car before attempting to use the Adaptation function.

To set an adaptation:

1. Select Adaptation from Function Menu, tap the ENTER key to start.



2. Follow on-screen instructions to make proper selections and operations to complete the tests.

3. To exit the test, tap the Close button at the top right of the screen.

8.3. CODING AND PROGRAMMING

The device allows for the coding and programming of a replacement control module or changing previously stored incorrect coding. Coding also known as Teach-in Program or Component Adaptation. It is the process of selecting and activating one program for a specific vehicle from a set of programs that the factory installed in the control module. This allows one control module to be used for different models, countries, and emission applications. Programming is the process of taking a blank control module and then adding the correct vehicle program to its memory.

9. SERVICE AND MAINTENANCE OPERATION

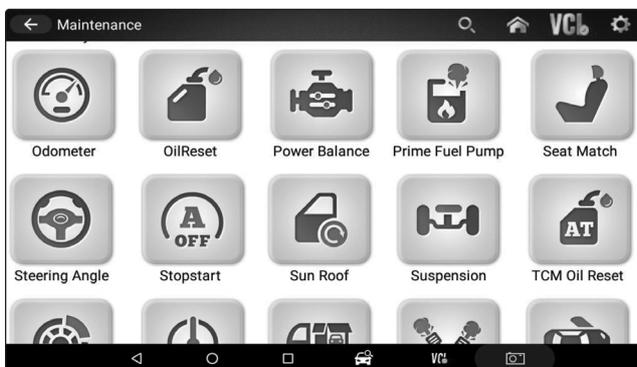
- 9.1. This section gives brief instructions of the most commonly required service and maintenance operations. Typical service operation screens are a series of menu driven executive commands. Follow the on-screen instructions to complete the operation.

Available service and maintenance options include:

- Oil Light Reset.
- BRT (Battery matching).
- EPB Service.
- ABS Bleed.
- DPF Regeneration.
- TPS (Throttle body alignment).
- Steering Angle Sensor Calibration.
- TPMS Adaptation.
- Immobilizer.
- Injector Coding.
- Gear Learning.
- Suspension Match.
- Sunroof Initialization.
- Gearbox Match.
- Adjust Fuel.
- Odometer calibration.
- AFS (Adaptive Front Lighting System).

Please update the software on a regular basis.

Service and maintenance functionalities can be found under the main Maintenance menu, in most cases, they are under the specific control module.



9.2. OIL LIGHT RESET

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

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

There are three methods:

- Oil Reset with One Button.
- Manual Reset.
- Auto Reset.

9.2.1. Oil Reset with One Button

To do the Oil Reset with One Button on a 2016 VW passenger car:

1. Slide the screen to tap the Oil Life Reset from the diagnostic menu. Select the type of reset applicable to your car and tap the function key 'OK' to continue, or Cancel key to return to the Oil Reset menu.
2. Follow the on-screen instructions, send a command to reset the oil service. A screen with 'Success' message will display once the lamp has been reset. Tap any key to return.

9.2.2. Manual Reset

Almost all Asian vehicles and most American and European vehicles have mechanical oil service indicator reset. The service tool does not have to communicate with the vehicle being tested, but guides the operator to complete the service manually by providing step-by-step on-screen instructions.

When the Manual Reset is selected and the vehicle being tested identified, a procedure opens on the screen. Slide the screen to read the entire procedure and perform the necessary steps as directed by the on-screen instructions. The exact order of the test operation steps may vary depending on the test vehicle. Be sure to follow all on-screen instructions.

This manual reset procedure can be interrupted and aborted if the ignition key position is changed.

To do oil reset manually:

1. Select Engine Control Module and follow the on-screen menu to select Oil Interval Reset.
2. The following procedure screen displays.
3. Follow all on-screen instructions to perform the manual mechanical reset.
4. Tap OK key to return.

9.2.3. Auto Reset

Auto Reset is a bi-directional communication procedure directed by the service tool. The service tool displays guides for you through the process. A number of instructions that require a response to continue display, including an option to clear any stored codes once the interval has been reset. Follow the on-screen instructions.

9.3. BATTERY MATCHING

Use the car diagnostic device to reset the car battery monitoring unit to clear original fault information about insufficient battery electric quantity, and match the battery again and monitor battery based on current battery information.

Battery matching must be performed in the following cases:

A) Main battery is replaced. Battery matching must be performed to clear original electric quantity insufficiency information and prevent the related control module from detecting false information. If the related control module detects false information, it will invalidate some electric auxiliary functions, such as automatic start & stop function, sunroof without one-key trigger function, power window without automatic function.

B) Battery monitoring sensor. Battery matching is performed to re-match the control module and monitoring sensor to detect battery electric quantity use information more accurately, which can avoid the instrument panel displaying false information.

9.4. ELECTRONIC PARKING BRAKE (EPB) SERVICE

EPB Service menu allows the operator to perform the service and maintenance of brake systems, including deactivation and activation of the brake control system, bleeding brake fluid, opening and closing brake pads, and setting brakes after disc or pad replacement, on multiple brands of vehicles where electronic brake systems are fitted.

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

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

NOTE:

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

9.5. ABS BLEEDING

When the ABS contains air, the ABS bleeding function must be performed to bleed the brake system to restore ABS brake sensitivity. If the ABS computer, ABS pump, brake master cylinder, brake cylinder, brake line, or brake fluid is replaced, the ABS bleeding function must be performed to bleed the ABS.

9.6. DIESEL PARTICULATE FILTER (DPF) REGENERATION

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

9.7. TPS (THROTTLE BODY ALIGNMENT)

Use the car decoder to initialize the throttle actuation element so that the ECU learning value is returned to the initial status to more accurately regulate throttle (or idle motor) operations to control intake air quantity.

Throttle matching must be performed in the following cases:

A) The ECU is replaced and the ECU does not yet store throttle working features.

B) The ECU is disconnected and the ECU memory is lost.

C) The throttle assembly is replaced.

D) The intake passage is replaced or removed, which affects idle speed control by ECU and throttle body.

E) The throttle is cleaned. Although the idle throttle potentiometer features are not changed, with the same throttle opening, the intake quantity has changed and idle speed control features have changed.

9.8. STEERING ANGLE SENSOR (SAS) CALIBRATION

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

9.9. TPMS ADAPTATION

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

9.10. IMMOBILIZER

To prevent the car being used by unauthorized keys, the anti-theft key matching function must be performed so that the immobilizer control system on the car identifies and authorizes remote control keys to normally use of the car.

When the ignition switch key, ignition switch, combined instrument panel, ECU, BCM, or remote control battery is replaced, anti-theft key matching must be performed.

9.11. INJECTOR CODING

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

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

9.12. GEAR LEARNING

Crankshaft position sensor adaptive learning. The crankshaft position sensor learns crankshaft tooth machining tolerances and saves to the computer to more accurately diagnose engine misfires. If tooth learning is not performed for a car equipped with Delphi engines, the MIL turns on after the engine is started. The diagnostic device detects the OTC P1336 'tooth not learned'. In this case, the operator must use the diagnostic device to perform tooth learning for the car. After tooth learning is successful, the MIL turns off.

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

9.13. SUSPENSION MATCH

This function is used to adjust the car body height.

When the car body height sensor and control module in the air suspension system are replaced, or the car level is incorrect, perform this function to adjust the car body height sensor for horizontal calibration.

9.14. SUNROOF INITIALIZATION

This function is used to set sunroof lockup close, close on rainy days, slide/tilt sunroof memory function, outside temperature threshold, etc.

9.15. GEARBOX MATCH

This function is used to learn the gearbox function to improve shift quality.

After the gearbox is dismantled or repaired (after battery powered off for some car series), shift delay or impact is caused. In this case, perform this function to make the gearbox compensate automatically according to driving conditions so as to reach more comfortable and ideal shift quality.

9.16. ADJUST FUEL

Adjust fuel gauge if fuel type is changed.

9.17. ODOMETER CALIBRATION

Instrument panel mileage calibration is used to copy, write, or rewrite mileages. That is, use the car diagnostic computer and data line to copy, write, or rewrite chip data on the instrument panel to make the instrument panel display actual mileages.

Usually, when the vehicle speed sensor is damaged, or the mileage is incorrect due to instrument panel faults, you must perform mileage calibration after maintenance.

9.18. AFS (ADAPTIVE FRONT LIGHTING SYSTEM)

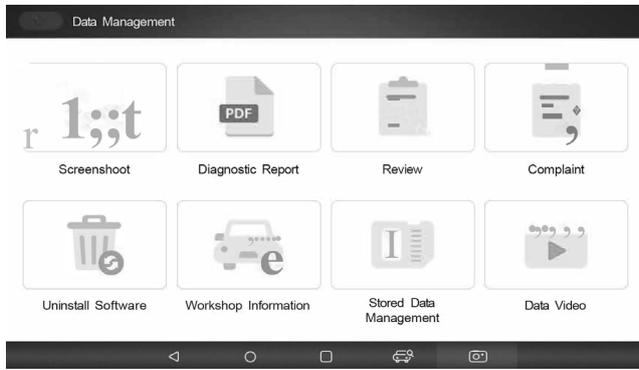
This function is used to initialize the adaptive headlight system. The adaptive headlight system determines whether to automatically turn on the headlight according to ambient light intensity, monitors driving speed and body posture, and adjusts the headlight lighting angle.

9.19. DATA MANAGEMENT OPERATIONS

Data Management menu lets you review stored screenshots, playback saved fault codes, live data and ECU info, and manage recorded/stored data.

Typical menu options include:

- Screen shot.
- Diagnostic report.
- Review.
- Stored data management.
- Uninstall Software.



10.4. BROWSE PICTURE

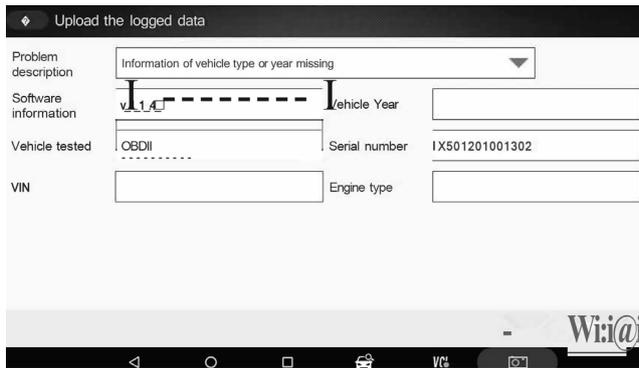
Browse Picture option leads to screens for review of stored screenshots

10.5. How to Take a Screenshot

To take a screenshot:

Tap the Screenshot button  at the title bar of the screen to take capture the error.

1. Add a description of the error, and tap the OK button to save.



10.5.1. Review Screenshot

To review the screenshot:

1. Select the Data Management icon from the home screen of the diagnostic application.
2. Tap Browse Picture and all available pictures will be displayed one by one automatically.



3. To stop the auto display, just tap the Pause button. Use Next or Previous button to review the pictures one by one.

4. To delete a picture, tap button Delete and answer Yes to delete. Or tap Delete All to delete all the pictures.

9.20. PLAYBACK DATA

The Playback option leads to screens for review of saved fault codes, live data, and ECU info. Playing back a recording is just like using the diagnostic tool on a live vehicle. It lets you review live data in text, graph, and graph merging format.

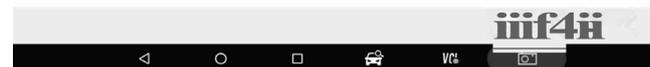
9.20.1. How to record data?

1. Tap the Record button from the functional button bar in the lower side when performing a test.

2. Tap the Stop button when finish recording.

9.20.2. To Playback data:

1. Select Data Management from the Home screen of the diagnostic application.
2. Tap Playback and all available records displays as grouped by each brand.



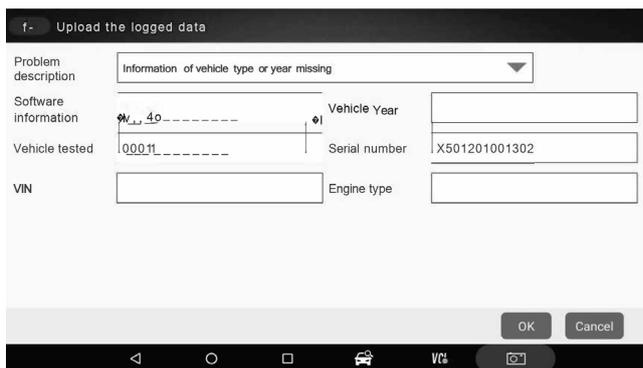
3. Tap a record once and tap the OK button or tap the record twice to review. All recorded parameters display in text format by default.
4. To view parameter graphs, tap the Graph tab. To merge the graphs, tap Graph Merging.
5. To move forward or reverse during playback, drag the progress bar forward or backward. To pause playback, tap the Pause button.
6. To exit playback, press the Back button.
7. To delete a record, tap a record to select and then click the Delete button. Answer Yes to delete or No to quit.

9.21. DATA LOGGING & STORED DATA MANAGEMENT

The logging icon  appears at the upper right of the diagnostic screen whenever the scanner is communicating with the vehicle. Tap the icon to record the communication data between the diagnostic tool and the vehicle under test to assist in troubleshooting diagnostic failures. Logs can be saved to the scanner and sent to the server via internet.

9.21.1. To log data:

To log data, tap the logging button while performing a test. To stop recording, tap the icon again. A form will appear, fill it in and tap the OK button to upload the data to the server if you require assistance from the support team. Alternatively, tap the Cancel button to exit the data upload process. The data will be saved to the device regardless of whether it is uploaded or not.



To manage the logs, select Stored Data Management from the Data Management menu and click the Upload button to send them to our server.

9.22. UNINSTALL SOFTWARE

9.23. After click this icon, undesired software can be uninstalled.



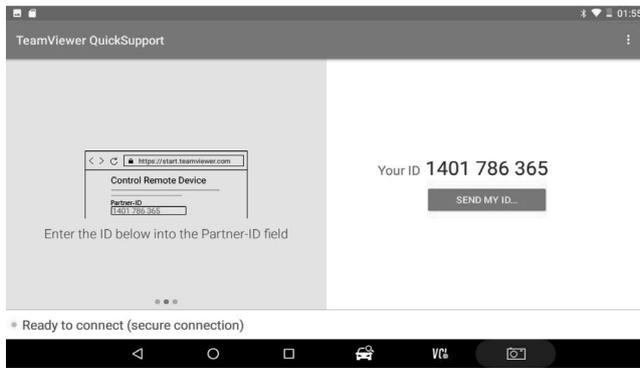
9.24. CLIENT MANAGEMENT

The Client Management allows every workshop to record and manage their clients' vehicle information. When the plate and VIN of a vehicle is recorded, The device will recognise the car automatically so technicians do not have to make a lot of selections to identify the car. It makes it much easier for technicians to determine the car configurations and helps them focus on servicing the car.

9.25. REMOTE CONTROL

Remote Control enables you to start TeamViewer for support from the SDS1 Technical Support Team. If you need the SDS1 Support Team to remotely control your device, please follow these steps:

1. Email with a brief description of the problem you've got, and reserve time for remote control support.
2. Click the Remote Control icon on the main menu to start TeamViewer.



3. Send your ID and password to us to allow our team to take control of your tablet. Make sure the Display Tablet is connected to the Internet before launching the Remote Control application so that it is accessible for remote support.

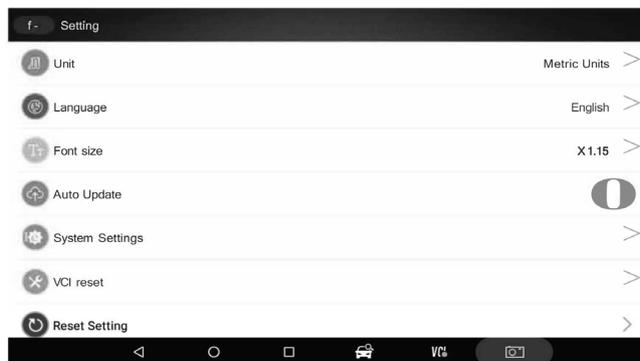
9.26. SETTINGS

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

When Setting is selected, a menu with available service options displays.

Menu options typically include:

- Language.
- Auto update.
- Unit.
- System setting.
- VCI reset.
- Reset Setting.



9.27. LANGUAGE

Selecting Language opens a screen that allows you to choose the system language. The diagnostic tool is set to display English menus by default.

To configure the system language:

1. Select Setting from the Home screen of the diagnostic application and tap Language. All available language options will be displayed.
2. Select your preferred language.

9.28. DISPLAY MODE

Selecting Display Mode opens a screen that allows you to toggle the display between full-screen view and display with the Windows toolbar. The diagnostic tool is set to display in full-screen view by default.

To configure display mode:

1. Select Setting from the Home screen of the diagnostic application.
2. Tap Display Mode. The available display modes will be shown.
3. Select your preferred display mode.

9.29. UNIT

Selecting Unit opens a dialog box that allows you to choose between British customary or metric units of measurement.

To change the unit setup:

1. Select Setting from the Home screen of the diagnostic application.
2. Tap Unit. The available unit systems will be displayed.
3. Select your preferred unit system.

9.30. USER INFORMATION

Selecting the User Information option opens a screen to input and manage your workshop details. Your workshop information will be displayed on the test reports presented to your customers.

To input your workshop information:

1. Select Setting from the Home screen of the diagnostic application.
2. Tap the User Information option.
3. Enter your workshop name, phone number, fax number, and email address using the keypad.

9.31. RESET SETTING

Selecting the Reset Setting option lets you reset your diagnostic tool to factory defaults. This action will also clear all workshop information.

To reset your diagnostic tool to factory defaults:

1. Select Setting from the Home screen of the diagnostic application.
2. Tap the Reset Setting option.

3. Tap the Reset button. The diagnostic tool will reboot automatically to complete the reset.

NOTE:

It is recommended not to press the Save button until all setup steps are completed. The scanner will reboot automatically once the button is pressed.

9.32. REGISTRATION AND UPDATE

1. Connect the device to the Internet.

2. Tap Update on the Home screen of the diagnostic application. Wait until the following screen is displayed.

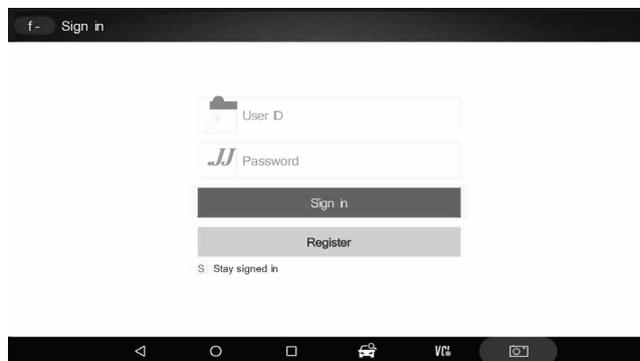


3. Tap Register.

4. Fill out the registration form and tap Register to submit.



5. When registration is finished, the initial login screen will be displayed. Click Log In and enter your ID and password.



6. All available updates will be displayed. Tap Update All or tap the download icon to install updates.

7. When the update is done, the diagnostic software will restart automatically.

9.33. ABOUT

Selecting the About option opens a screen that shows information about your diagnostic tool, such as the serial number and registration password, which may be required for product registration. To view the About page, please make sure the device is powered either by the AC/DC power supply or the vehicle through the Vehicle Communication Interface. Otherwise, the serial number and password won't be shown.

To view information about your diagnostic tool:

1. Connect the VCI to the tablet via Bluetooth or USB cable. Verify the VCI connection by checking if there is a green tick on the VCI icon on the home screen.

2. Tap the About icon.

3. A screen with detailed information about the scanner will be displayed.

4. Tap the Back button to exit. See screen on the next page.



10. MAINTENANCE

- 10.1. To keep your diagnostics tablet working well and lasting longer, handle it carefully to avoid drops or damage. Before cleaning, turn it off and use a soft, slightly damp cloth with water or mild detergent to wipe the outside. Avoid harsh chemicals and don't let moisture get inside the ports.
- 10.2. Clean the screen gently with a microfiber cloth and never spray liquids directly on it. Keep the ports free of dust by using compressed air carefully. Charge the battery properly and don't leave the tablet unused for long periods without charging. Store it in a cool, dry place away from sunlight and use a protective case when carrying it around. Also, keep the software updated and restart the tablet sometimes to keep it running smoothly. Following these steps will help your tablet stay reliable for vehicle diagnostics.
- 10.3. **END OF SERVICE AND DISPOSAL**
When your diagnostic tool reaches the end of its service life, please dispose of it properly according to local electronic waste regulations. Do not throw the device in a regular rubbish bin, as it may contain materials harmful to the environment. Contact your local recycling center or authorised disposal facility to ensure safe and responsible disposal.



ENVIRONMENT PROTECTION

Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. When the product becomes completely unserviceable and requires disposal, drain any fluids (if applicable) into approved containers and dispose of the product and fluids according to local regulations.



REGISTER YOUR PURCHASE HERE



WEEE REGULATIONS

Dispose of this product at the end of its working life in compliance with the EU Directive on Waste Electrical and Electronic Equipment (WEEE). When the product is no longer required, it must be disposed of in an environmentally protective way. Contact your local solid waste authority for recycling information.



BATTERY REMOVAL

Under the Waste Batteries and Accumulators Regulations 2009, Jack Sealey Ltd are required to inform potential purchasers of products containing batteries (as defined within these regulations), that they are registered with Valpak's registered compliance scheme. Jack Sealey Ltd's Batteries Producer Registration Number (BPRN) is BPRN00705.

Note: It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.

Important: No Liability is accepted for incorrect use of this product.

Warranty: Guarantee is 12 months from purchase date, proof of which is required for any claim.

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