

DS100

Bluetooth Vehicle Diagnostic Dongle | User Manual



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Safety First—Always!

- For your safety, the safety of others, and to prevent damage to both the product and your vehicle, read and fully understand all safety instructions in this manual before use. Also review your vehicle's service manual and follow all stated precautions before and during any testing or service.
- Keep yourself, your clothing, and any objects away from moving or hot engine parts. Avoid contact with electrical connections.
- Operate the vehicle only in a well-ventilated area to prevent carbon monoxide poisoning. This gas, produced when the engine runs, is toxic and potentially deadly.
- Always wear approved safety goggles to protect your eyes from debris and corrosive liquids.
- Never smoke or use open flames near the vehicle during testing. Fuel and battery vapors are highly flammable.
- Do not use the device while driving—distraction can cause accidents.
- Turn off the ignition before connecting or disconnecting the device from the Data Link Connector (DLC) to avoid damage to the product or the vehicle's electronics.

Section 1

What's in the Box?



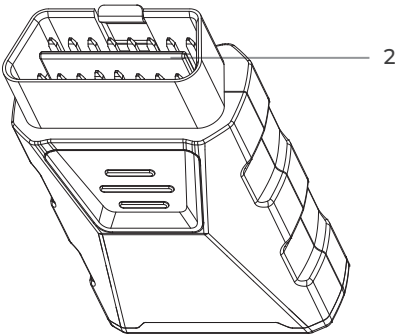
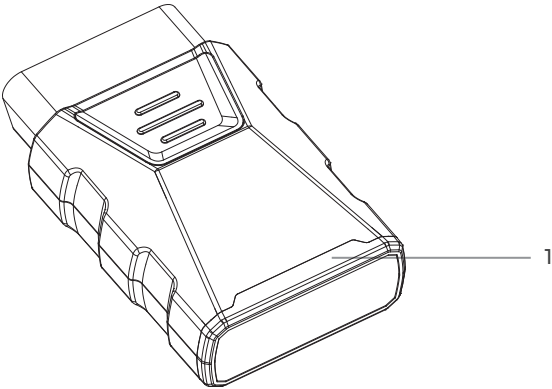
DS100



Quick Reference Guide

Section 2

Product Overview



1. Status Indicators

Solid Green: Powered on

Flickering Blue: Communicating with the vehicle

Solid Blue: Bluetooth connected

2. OBD-II 16 Pin Connector

Connects the DS100 to your vehicle's Data Link Connector (DLC).

Section 3

Getting Started

3.1 Download the App

Search for “GOOLOO OBD” in the App Store (for iOS) or Google Play (for Android).

Download and install the app on your smartphone or tablet.

Note:

Compatible with iOS 11.0 or later and Android 7.0 or later.



Figure 3-1

3.2 Register & Log In

Open the app.

If you already have an account, log in with your email and password.

If you don't have an account, register using your email address.

Enable Wi-Fi, Bluetooth, camera, and location services on your phone to allow the app to function properly.

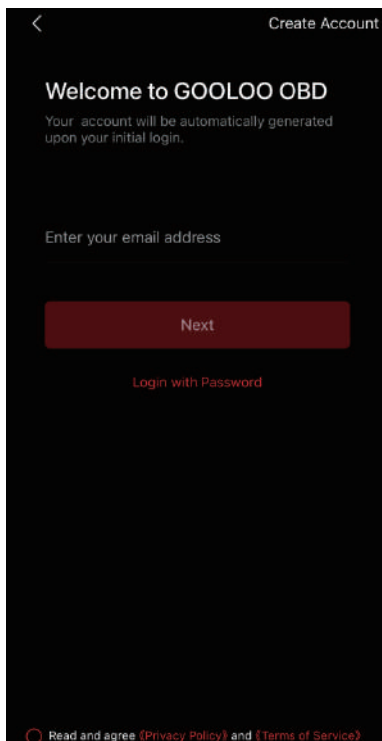


Figure 3-2

3.3 Bind the VCI (Vehicle Communication Interface)

After launching the app, follow the on-screen instructions.

You can bind the VCI in either of the following ways:

3.3.1 Bind the VCI via Code Scanning

Option 1: Code Scanning

Tap Scan to Activate (see Figure 3-3).

The device's serial number and activation code will be detected automatically.

Tap Activate to continue.

Once activated, the app will take you to the home page.

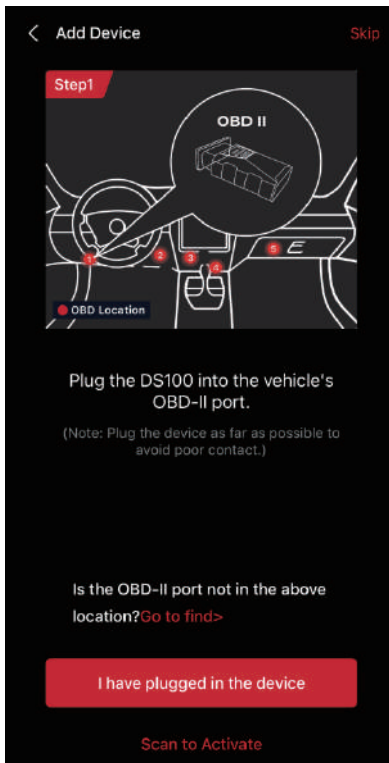


Figure 3-3

3.3.2 Bind the VCI via Bluetooth

1.Insert the DS100 into your vehicle's Data Link Connector (DLC) as shown on-screen.

2.Tap I have plugged in the device (see Figure 3-4) to proceed.



Figure 3-4

3. Start your vehicle's engine when prompted by the app, then tap Next.

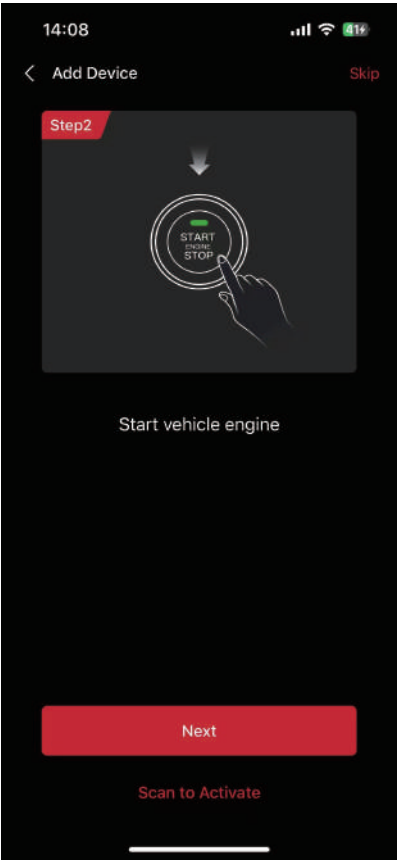


Figure 3-5

4. Confirm the DS100's LED is solid green (powered on).
5. Search for the device in your phone's Bluetooth settings.
6. When paired successfully, the LED will turn solid blue.

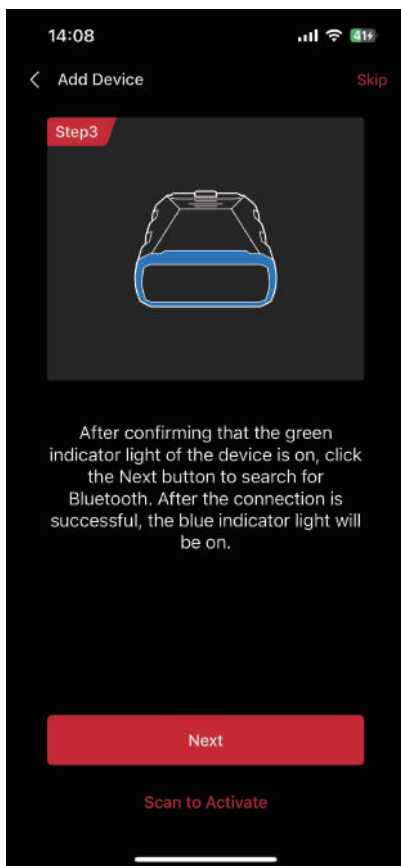


Figure 3-6

7. From the list of available Bluetooth devices, select DS100.
8. Once connected, the device's serial number (SN) and activation code will be read automatically, Tap Activate.

3.4 Download the Diagnostic Software

The first time you use the diagnostic function, you must download the software specific to your vehicle.

Go to Me > Device Management > Select Now> Your Brand> Confirm>Download. Select and download the required software package.

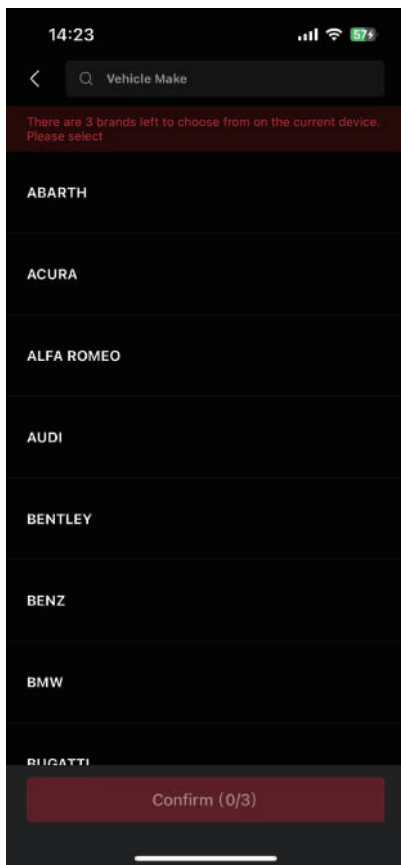


Figure 3-7

3.5 Plug the DS100 into the Vehicle's DLC

To locate the vehicle's DLC, tap Service > DLC Location, select vehicle make, model and year, and tap Next. A picture of DLC location for the selected vehicle will display.

Note: Make sure the ignition is OFF before plugging in the unit.



Figure 3-8

3.6 Turn the Ignition to the “ON” Position

Switch your vehicle's ignition to the ON position (see Figure 3-9).

For vehicles with a keyless start system:

- Press the Engine Start/Stop button without pressing the brake pedal.
- This will put the vehicle into ON mode without starting the engine (see Figure 3-10).

Ignition methods may vary by model—refer to your vehicle's service manual if needed.



Figure 3-9

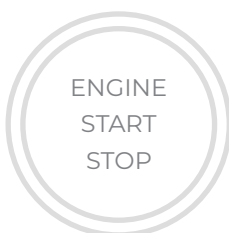


Figure 3-10

3.7 Bluetooth Connection

From the list of available Bluetooth devices, select DS100.
Tap the Bluetooth icon in the top-right corner of the app screen to establish connection.

- Once connected, the icon will change to confirm pairing.

After successful pairing, the app will auto-connect to the DS100 in future sessions.
If not connected automatically, tap the Bluetooth icon again to reconnect.
Note: A firmware update prompt will display. Tap Update to continue.

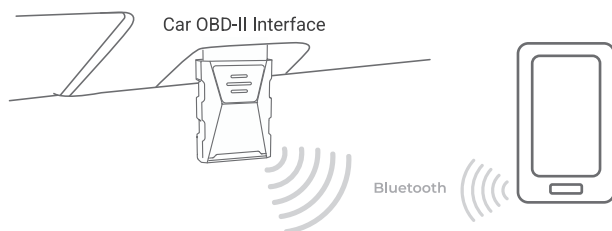


Figure 3-11

Section 4

Using the DS100 via the App

4.1 Home Screen



Figure 4-1

1. Main Functions



Full Vehicle
Health Check

Supports full-vehicle system diagnostics: Engine, Transmission, Airbag, ABS, ESP, TPMS, Immobilizer, Gateway, Steering, Radio, and Air Conditioning.



Engine Inspection

Reads and clears engine DTCs; marks severity as Critical, Minor, or Can Be Ignored; provides fault details and repair recommendations.



Live Data

Combine — View up to four related data streams together to compare trends over time.
Graph — Display data as a line chart or gauge.
Report — Generate a data-stream report.
Record — Record live data streams for playback.



Battery Test

Displays real-time battery voltage with reference values.
Records voltage trend over time.
Records battery cranking data.



Hud

Displays vehicle speed/RPM via HUD. HUD supports Mirror Mode for windshield projection.

2. Other Functions

Maintenance

① Oil Reset

When the vehicle reaches the specified mileage or time interval, the service reminder illuminates. After service, reset the service mileage/interval to zero to turn off the reminder and start a new cycle.

② Throttle Adaptation

After ECU power loss or throttle body replacement/cleaning, use Throttle Adaptation to initialize the throttle actuator and reset ECU learned values to baseline, ensuring accurate air-intake control.

③ EPB Reset

When the brake pads reach the wear threshold, the pad-wear sensor signals the ECU and a warning light turns on. After replacing the pads, perform the brake pad reset to clear the warning.

④ BMS Reset

After replacing the vehicle battery, perform a BMS (Battery Management System) reset to clear stored low-charge DTCs and register the new battery with the control module.

⑤TPMS Reset

When a tire is under- or over-inflated, the TPMS sensor signals the ECU and the TPMS warning light turns on. Adjust the tire to the specified pressure, then perform a TPMS reset to clear the warning.

⑥DPF Regeneration

Uses controlled oxidation to burn off particulates in the diesel particulate filter, restoring optimal performance.

Smog Check

Diagnose in-use vehicles to identify causes of excessive emissions, then perform targeted maintenance to restore and maximize emission-control performance.

Performance Test

Set the start and end speeds, then complete the run in the shortest time. Also records elapsed time over a fixed distance. Typical setting: 0–100 km/h.

3. Toolbar

The toolbar gives you quick access to key sections of the app:



Home

Return to the main screen.



Mall

Purchase or renew diagnostic software licenses.



Service

Access repair guides, DLC location, and other resources.



Me

Manage your account, saved data, and reports.

Note: You can open the in-app online chat tool by tapping the chat icon, then select START CHAT.

4.2 Full Vehicle Health Check

To run an Auto Scan or perform Individual System Diagnostics:
Tap Full Vehicle Health Check from the home screen.
The diagnostic software menu will display.

Identify your Vehicle

To run a full vehicle health check, first identify your vehicle.
Enter the Vehicle Identification Number (VIN) manually, or tap Read to retrieve it, then tap Confirm. The DS100 will automatically decode the VIN to identify the vehicle.

Auto Scan

Auto Scan detects the systems supported by the vehicle and retrieves DTCs for all of these systems, providing a complete health check of your vehicle. Performing Auto Scan before and after repair could help in troubleshooting and validating repairs. Pre and post scan reports can allow you to record the condition of the vehicle before and after repair for comparison.

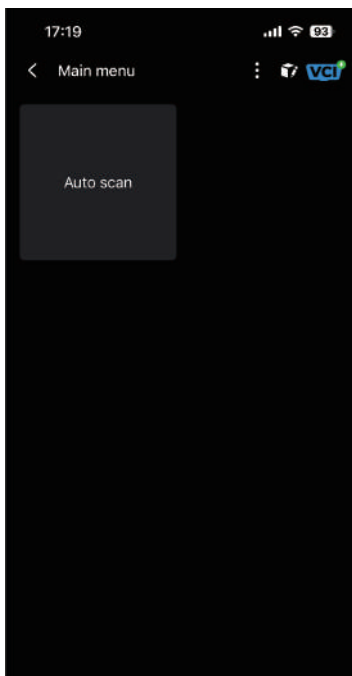


Figure 4-2

To perform an Auto Scan, tap the Scan button. The DS100 will start scanning all the systems supported by the vehicle, and DTC retrieval will be automatically proceeded.

Results are displayed progressively as the systems are scanned.

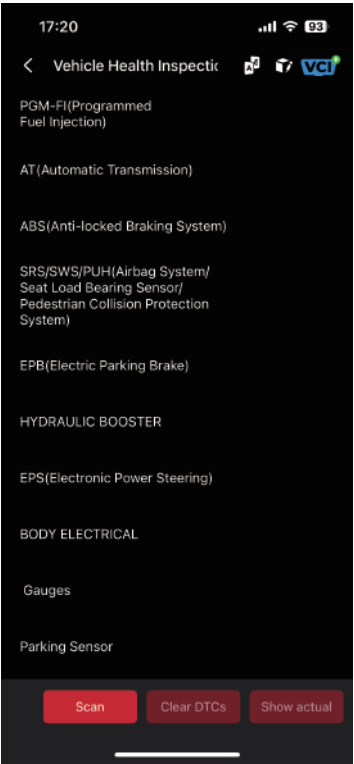


Figure 4-3

Button Description

Report - tap to save the results in report format. (To view the saved reports, go to Me > Diagnostic Report.)

Clear DTCs - tap to clear all the DTCs retrieved.

Show All / Show Actual - tap to toggle between showing all vehicle systems and showing only the supported systems.

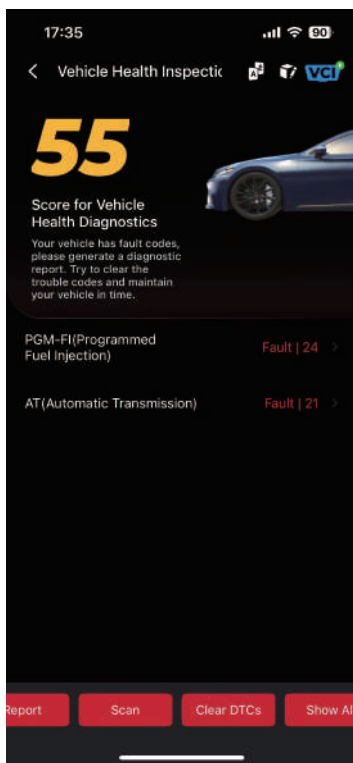


Figure 4-4

4.3 Engine Inspection

Identifying the Vehicle

To perform Engine Inspection, you need to identify your vehicle first.

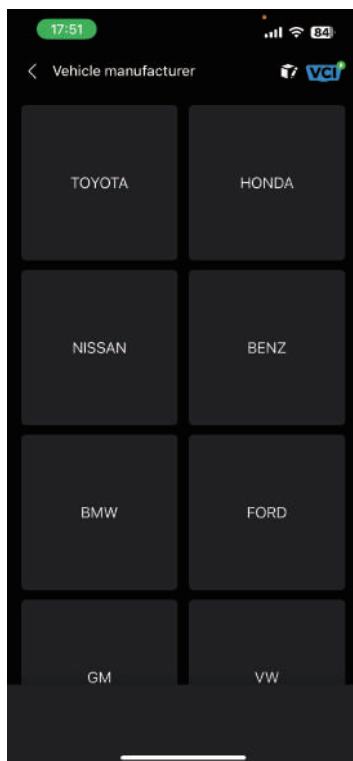


Figure 4-5

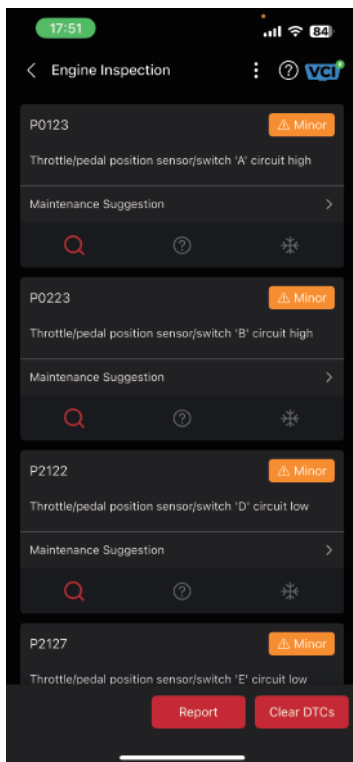


Figure 4-6

Icon Description



Tap to open a window that allows you to search on Google for more information about the DTC.



When the icon lights up, tap to view the detailed description of the DTC.



When the icon lights up, tap to view the freeze frame captured at the time when the DTC occurs.

Button Description

Report - tap to save the results in report format. (To view the saved reports, go to Me > Diagnostic Report.)

Clear DTCs - tap to clear all the DTCs retrieved.

4.4 Live Data

To view data stream for the currently selected system:

Tap Live Data in the function menu.

A data stream list displays.

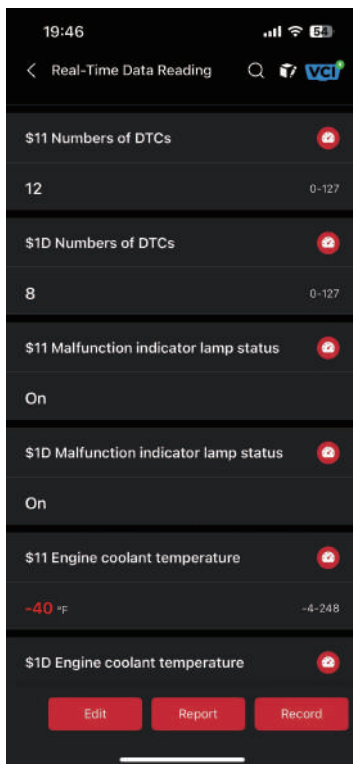


Figure 4-7

Button Functions

- **Edit** — Customize your data stream list. Select the checkboxes for the parameters you want to track, then tap OK.
- **Report** — Save the current data stream values as a diagnostic report. To access saved reports, go to Me > Diagnostic Report.

- **Record** — Record and save live data for comparison or analysis. To view saved data, go to Me > Data Stream.

Viewing Data Streams

- Each item in the list shows the parameter name and its current value.
- Tap the icon next to an item to open its settings screen.
- Data streams can be displayed in three formats:
 - Numeric values
 - Graph view
 - Gauge view

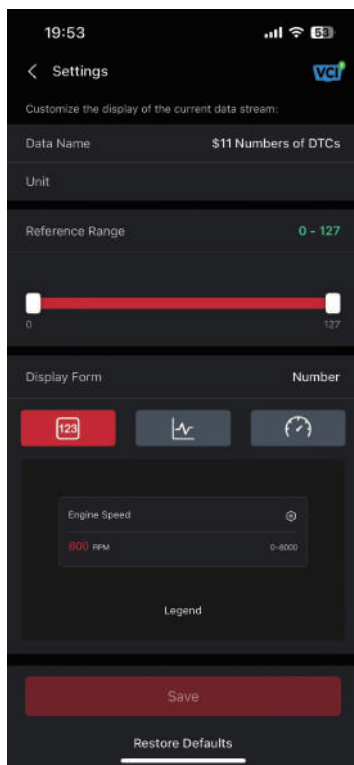


Figure 4-8

Combine Function

- For easier comparison and monitoring, the Combine feature lets you display up to four data streams in a single graph.

How to use Combine:

Tap the display icon to switch the view mode.

Return to the data stream screen.

Select the parameters you want to combine.



Figure 4-9

Tap the Full Screen icon on the right side of the screen.

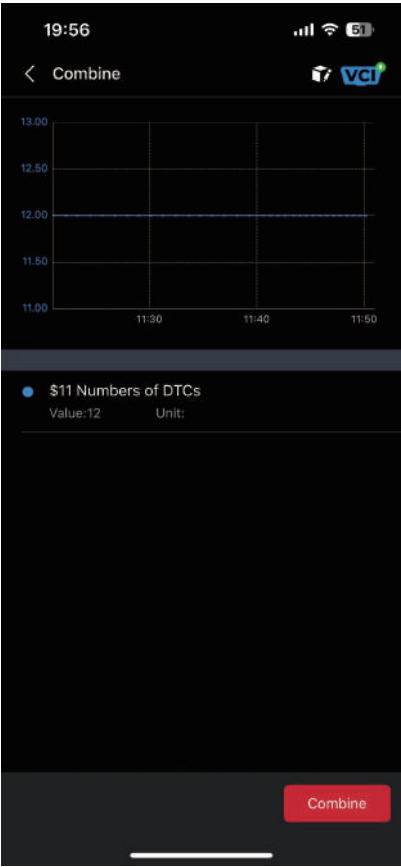


Figure 4-10

On the full-screen display, tap Combine.
Select up to four data streams to view together in a single graph.
Tap OK (or confirm). The selected data streams will be shown together in a combined graph.

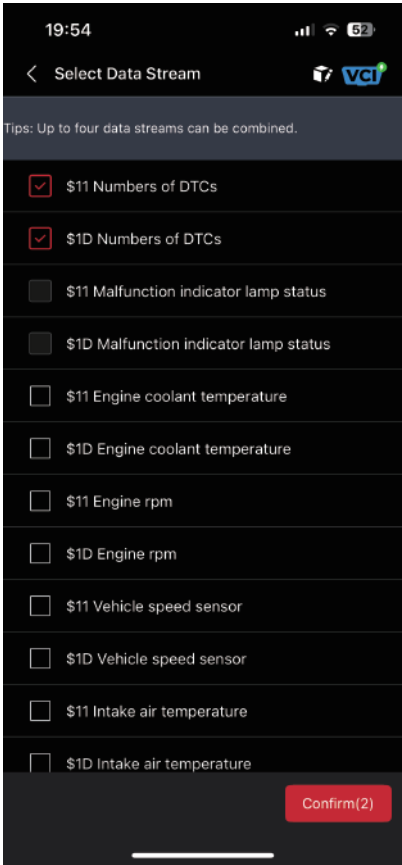


Figure 4-11

Important Safety Note:

If live data must be viewed while the vehicle is moving, always have a second person assist you.

- Do not attempt to watch the data stream while driving.

4.5 Battery Test

Displays real-time battery voltage with reference values.
Logs voltage trend over time.
Records battery cranking data.

Start Testing > Turn off all Systems > Start Vehicle

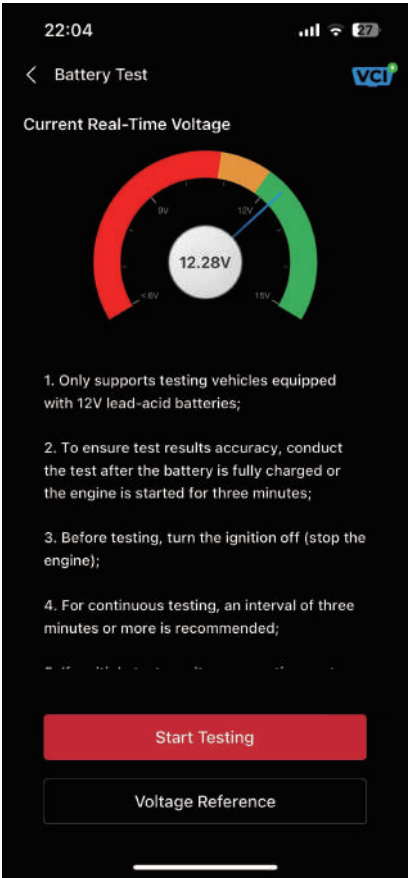


Figure 4-12

4.6 HUD

Displays vehicle speed and RPM via HUD.
HUD supports Mirror Mode for windshield projection.



Figure 4-13

4.7 Maintenance

The DS100 supports 6 special functions, including Oil Reset, Throttle Adaptation, Electronic Parking Brake (EPB) Reset, Battery Management System (BMS) Resets, and Tire Pressure Monitoring System (TPMS) Reset, Diesel Particulate Filter (DPF) Regeneration.

Oil Reset

This function allows you to reset the oil service lamp for the engine oil life system, which calculates an optimal oil life change interval depending on the vehicle driving conditions and weather events. Oil reset is required every time the engine oil is changed.

EPB Reset

This function helps you replace and reset the brake pads.

It needs to be performed in the following cases:

- After the brake pads and brake pad wear sensor are replaced;
- When the brake pad warning light is on;
- After a short circuit in the brake pad sensor is fixed;
- After the servo motor is replaced.

BMS Reset

After the car battery is replaced, the car battery control unit needs to be reset. This will clear fault information (such as low battery level) so that the control unit can match the relevant information of the newly replaced battery.

Throttle Adaptation

If the ECU is disconnected accidentally, or if the throttle is replaced or cleaned, then the throttle actuators need to be initialized via the Throttle Adaptation function. This resets the ECU's data to its initial state so that the throttle can accurately regulate the air intake.

DPF Regeneration

This function is mainly used for the regeneration of diesel particulate filters. To keep the filters performing well it removes particles by means of combustion and oxidation.

TPMS Reset

When a tire is under- or over-inflated, the TPMS sensor sends a signal to the ECU and the warning light turns on. Adjust the tire to the specified pressure, then perform a TPMS reset to clear the warning.

4.8 Smog Check

I/M Readiness (Inspection & Maintenance Readiness)

- Verifies whether emission-related systems are functioning properly and ready for inspection.
- Can also be used to check the running status of system monitors.

Note: Your vehicle should only be considered ready for inspection—and allowed to pass emissions—if all required tests have been successfully completed.



Figure 4-14

4.9 Performance Test

From the home screen, tap Performance Test.

A safety warning will appear. Read the warning carefully, then tap OK to proceed

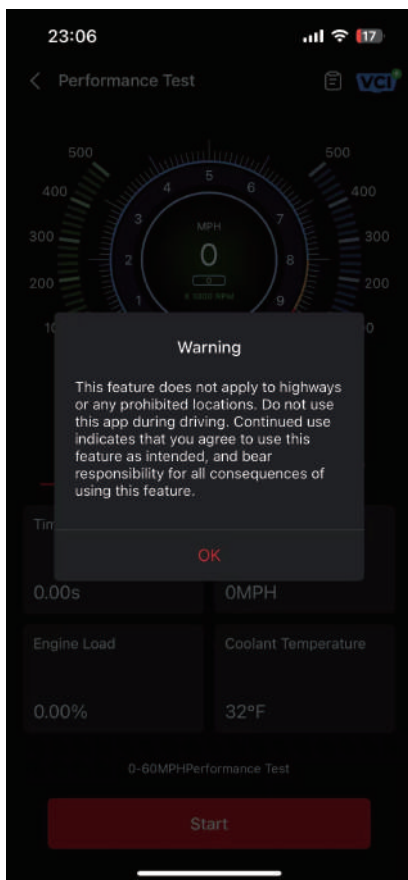


Figure 4-15

By default, the test measures acceleration from 0 to 60 MPH. Accelerate your vehicle to begin the test.

Note:

If the vehicle does not reach the set end speed, the results will reset automatically once the car slows back to the start speed.

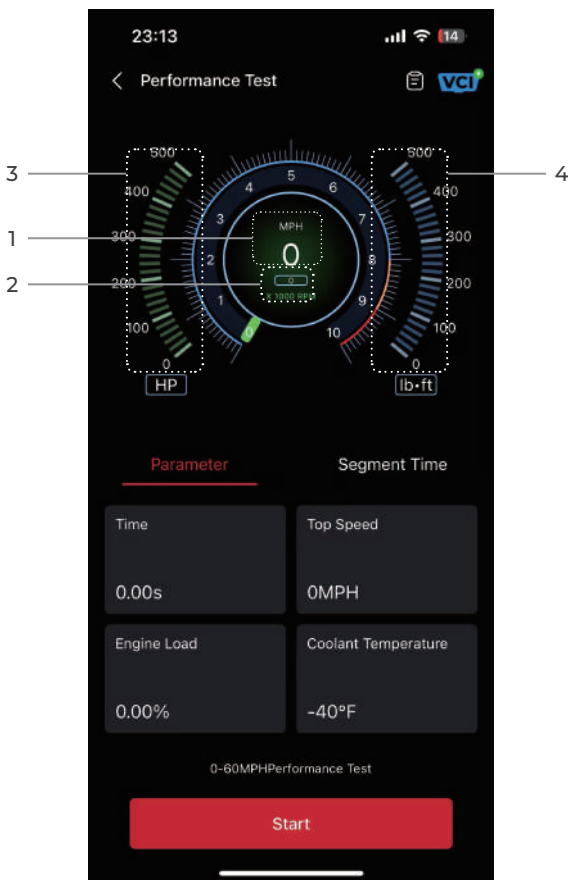


Figure 4-16

- ① Vehicle Speed
- ② Engine Speed
- ③ Horsepower
- ④ Torque

Button Description

Start - tap to reset for the next run

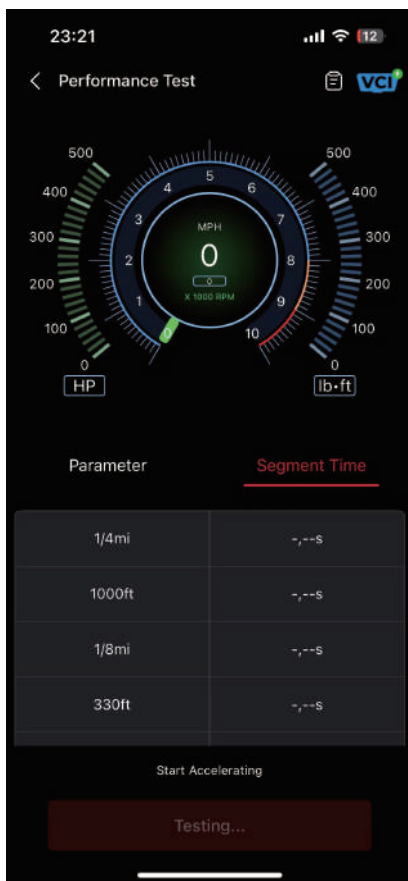


Figure 4-17

1/4 mi Test Results - record the elapsed time for a vehicle to travel a certain distance (60 ft, 330 ft, 1/8 mi, 1000 ft, 1/4 mi), and the instantaneous speed at each point (see Figure 4-18 and Figure 4-17).

0-60 MPH Test Results - record the elapsed time for a vehicle to accelerate from 0 to 60 miles per hour (see Figure 4-16). The values for the start and end speeds can be changed if desired.

5. Service

5.1 DTC Repair Guide

The DTC Repair Guide is an experience-based database of generic OBD-II DTCs, which provides code-specific information, including popular fixes and repair steps for identifying faults.

To use the DTC Repair Guide:

Tap **Service > DTC Repair Guide** . Enter a DTC in the search bar to search.

5.2 Technical Service Bulletins

To view technical service bulletins:

Tap **Service > Technical Service Bulletins** . Select vehicle make, model, year, system and subsystem, and tap **Next**. A list of OEM technical service bulletins issued for the selected vehicle will display. Tap the desired option to view the full content.

5.3 DLC Location

To view DLC location:

Tap **Service > DLC Location** . Select vehicle make, model and year, and tap **Next**. A picture of the DLC location for the selected vehicle will display.

5.4 Warning Light Library

The Warning Light Library provides information on dashboard warning lights, including light descriptions, impacts on driving, typical causes, responsive measures and relevant FAQs.

To use the Warning Light Library:

Tap **Service > Warning Light Library** . A list of warning lights will display. Tap the desired option to view the details.

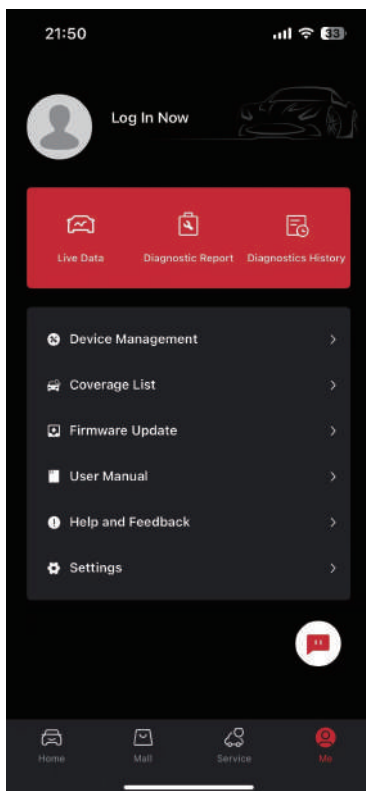


Figure 4-18

6.1 Account Profile

In the Me section, you can:

- View and edit your profile nickname.
- Check your email account and ID.
- Change your login password.
- Delete your account.
- Log out of your account.

6.2 Live Data

View saved data streams for future reference and analysis.

6.3 Diagnostic Report

Access and view saved diagnostic reports from this menu.

6.4 Diagnostics History

Access and view saved diagnostic history from this menu.

6.5 Device Management

Allows you to bind the VCI to your account.

6.6 Coverage List

View the list of vehicle makes and models supported by the DS100.

6.7 Firmware Update

Allows you to update the VCI firmware if a new version is available.

6.8 User Manual

User Manual Allows you to view the user manual of the DS100.

6.9 Help and Feedback

Help and Feedback Allows you to view the frequently asked questions, customer service replies, and submit feedback.

6.10 Settings

The Settings function provides general setting options including language setting, unit setting and cache clearing, and allows you to view the SN, privacy and terms of service, privacy policy, third-party components, and the contact information of technical support. You can also check for updates in this function.

Section 5

Specifications

Bluetooth	Version: Bluetooth 5.0 Range: 33 feet (10 m)
Operating System Supported	iOS 11.0 or later Android 7.0 or later
Storage Temperature	-4° F to 158° F (-20° C to 70° C)
Working Temperature	14° F to 122° F (-10° C to 50° C)
Dimensions	76 × 47 × 28 mm (2.99 × 1.85 × 1.10")
Net Weight	60 g (2.12 oz)

Section 6

FAQ

Q What should I do if a communication error occurs?

A Follow the below steps to identify the problem:

- 1) Check if the ignition is ON.
- 2) Check if the DS100 is securely plugged into the vehicle's DLC.
- 3) Turn the ignition off. Then, turn it on after 10s and continue the operation.
- 4) Check if the vehicle's control module is defective.

Q Why do I need to download the diagnostic software after installing the GOOLOO OBD?

A Since there are various vehicle manufacturers, different diagnostic software is required for different brands.

Q What special functions do DS100 support?

A The DS100 supports 6 special functions, including Oil Reset, Throttle Adaptation, EPB Reset, BMS Reset, TPMS Reset, and DPF Regeneration.

Q Do I need to update the firmware before using it for the first time?

A Yes. Firmware will automatically update to the latest version once the DS100 is connected with your phone via Bluetooth. You can also tap Me > Firmware Upgrade to update the firmware manually.

Q Can multiple devices be bound to one GOOLOO OBD App account?

A Yes.

Q How to activate VCI on automobiles after logging in?

A After logging in to the account, enter Me > Device Management, tap "+" to enter the device addition process, and follow the prompted steps to activate the device.

There are two ways for VCI support: activation via Bluetooth connection and activation via QR code scanning.

Q *How many vehicle makes can be bound to one DS100 device?*

A Up to 3 vehicle makes can be bound to one DS100 device. If you want to replace the previously selected makes, please delete the old makes before adding new ones via Me > Device Management.

Section 7

Warranty

GOOLOO's One Year Limited Warranty

GOOLOO warrants to its original purchaser that the company's products will be free from defects in material and workmanship for 12 months from the date of purchase (Warranty Period).

For the defects reported during the Warranty Period, GOOLOO will either repair or replace the defective part or product according to its technical support analysis and confirmation.

GOOLOO shall not be liable for any incidental or consequential damages arising from the device's use, misuse, or mounting.

If there is any conflict between the GOOLOO warranty policy and local laws, the local laws shall prevail.

This limited warranty is void under the following conditions:

- Misused, disassembled, altered or repaired by unauthorized stores or technicians.
- Careless handling and/or improper operation.

Notice:



All information in this manual is based on the latest information available at the time of publication and no warranty can be made for its accuracy or completeness. GOOLOO reserves the right to make changes at any time without notice.

Regulatory Compliance

FCC ID: 2AVYW-CARPAL

IC: 32511-CARPAL

HVIN: GOOLOO OBD-DS100

FCC & ISED Statement:

This device complies with Part 15 of the FCC Rules [and contains license exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS standard(s)].

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 of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

FCC VOC

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.
- In case this equipment has to subject to FCC/IC SAR (Specific Absorption Rate) exposure test, this equipment is designed to meet the requirements for exposure to radio waves established by the FCC and ICSED. These requirements set a SAR limit of 1.6 W/kg averaged over one gram of tissue. The highest SAR value reported under this standard during product certification for use when properly worn on the body is within regulatory limits.

FCC Caution

The device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.

IC Caution

1. The device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;

2. For devices with detachable antenna(s), the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits specified for point-to-point and non-point-to-point operation as appropriate.

1. les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;

2. le gain maximal d'antenne permis (pour les dispositifs utilisant la bande 5725-5850 MHz) doit se conformer à la limite de p.i.r.e. spécifiée pour l'exploitation point à point et non point à point, selon le cas.

Customer Service



12 Months Limited Warranty Service



Lifetime Technical Service



Feel Free to Contact Us
fiona@gooloo.com



For FAQ and More Information
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