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CanDo HD Mobile II Bluetooth Enabled Handheld Code Reader User Manual

CanDo HD Mobile II Bluetooth Enabled Handheld Code Reader

Contents

Product Overview

The CanDo HD Mobile II transforms your smart device into a powerful code scanner with DPF regeneration capabilities.

This product integrates commercial vehicle OBD standard diagnostic protocols, including SAE J1939, SAE J1708, SAE J1850 PWM, SAE J1850 VPW, ISO 14230-4, ISO 9141-2, ISO 15765-4 and ISO 27145-4. DPF resets or regeneration is supported for multiple models, including Detroit, Cummins, Paccar, Mack/Volvo, Hino, International, Isuzu and Mitsubishi/Fuso. The operation interface is very clear, which makes it convenient for users to diagnose commercial vehicles.

The product includes a VCI device, 6 & 9 pin cables and a CAT 9 cable, along with a mobile diagnostic App.

VCI Structure
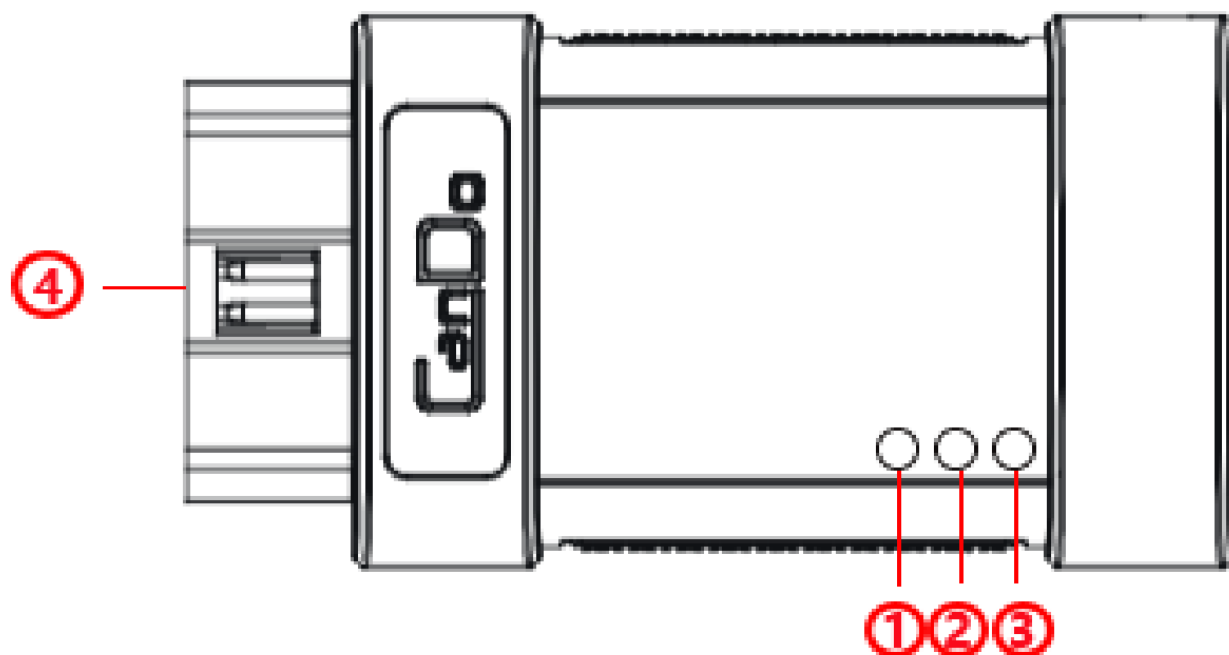
Serial No.	Name	Function Description
①	Light 1	Light on when the VCI get power supply.
②	Light 2	Light on when the Bluetooth/Wi-Fi is connected, and light off when it is disconnected.
③	**Light 3**	Flashes when data transmitted, and is off when no data transmitted.
④	**OBD II**	Connected to vehicles with a OBD II diagnostic interface

Technical Parameter

Flash	256 KB
SRAM	48 KB
Wi-Fi	2.4GHz
Bluetooth	5.0
Diagnose interface	OBD II interface
Operating voltage	DC 9V~36V
Operating temperature	0°C~60°C
Storage temperature	-20°C~80°C

Power Supply

Plug the device into the diagnostic interface of the vehicle, and the device will automatically start up. If it doesn't start up, it may be that there is no power supply for the vehicle diagnostic seat, and the device can be powered by the cigarette lighter or battery clamp.
Note: the voltage of the power supply should be within the scope of application of the product equipment. If it is beyond the scope, the product may be damaged.

Vehicle Diagnostic Preparation

The diagnostic App establishes data connection with a vehicle through the VCI, which can read the vehicle diagnostic information, view the data flow, and perform action test and other functions. To establish good communication between the diagnostic program and the vehicle, the following .

operations need to be performed:

1. Turn off the ignition;
2. Find the diagnostic interface of the vehicle: it is usually located on the driver side; If the diagnostic interface is not found, please refer to the vehicle maintenance manual.
3. Insert the VCI to the vehicle's diagnostic interface.

Note: Before the VCI is connected to the vehicle, it is necessary to judge whether the diagnostic seat of the vehicle is a OBD-II interface. The product is provided with a Diesel OBD interface cable and a CAT-9 interface cable, which are used to connect a vehicle with a corresponding interface.
The following is the operation description of two connection modes

1. OBD-II interface
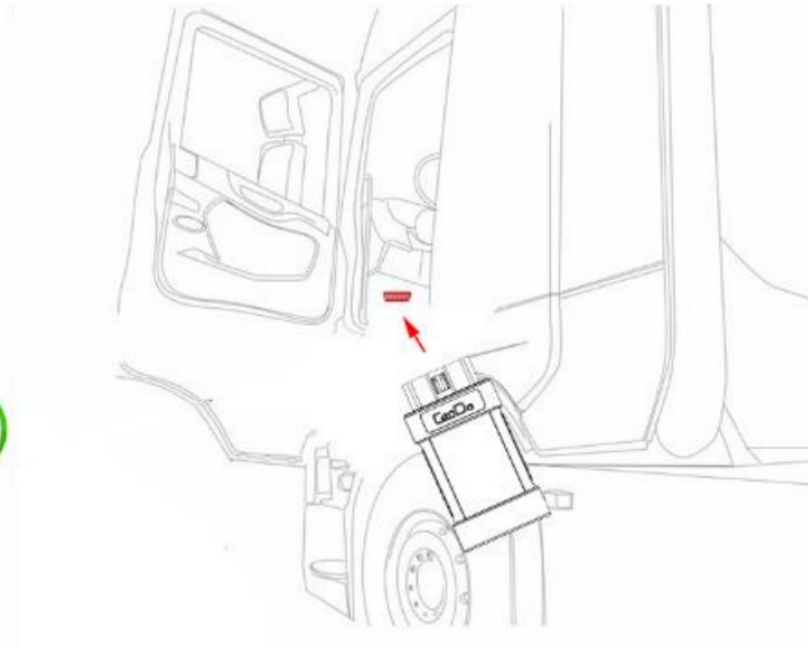
2. Diesel OBD interface
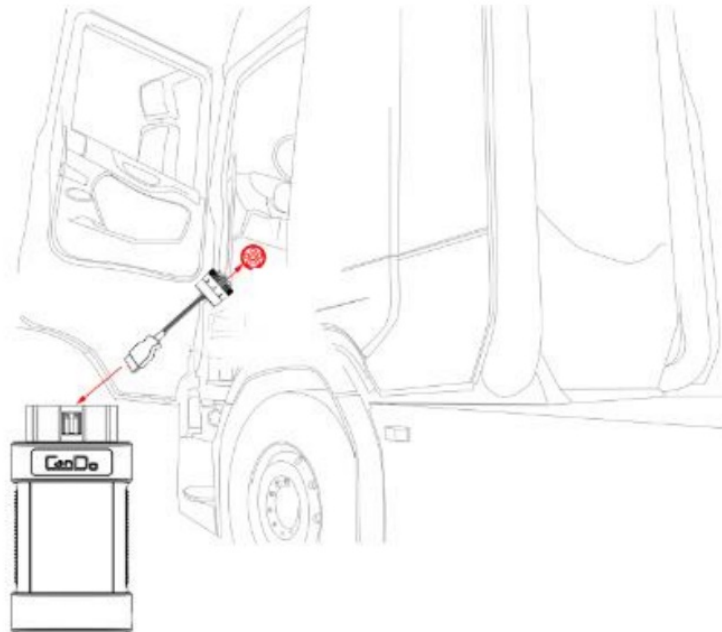
Note: at this time, the device is powered by the vehicle diagnosis seat, and the device starts automatically. If not, it may be that the vehicle diagnosis seat has no power supply, and the equipment can be powered by the cigarette lighter or battery clip.
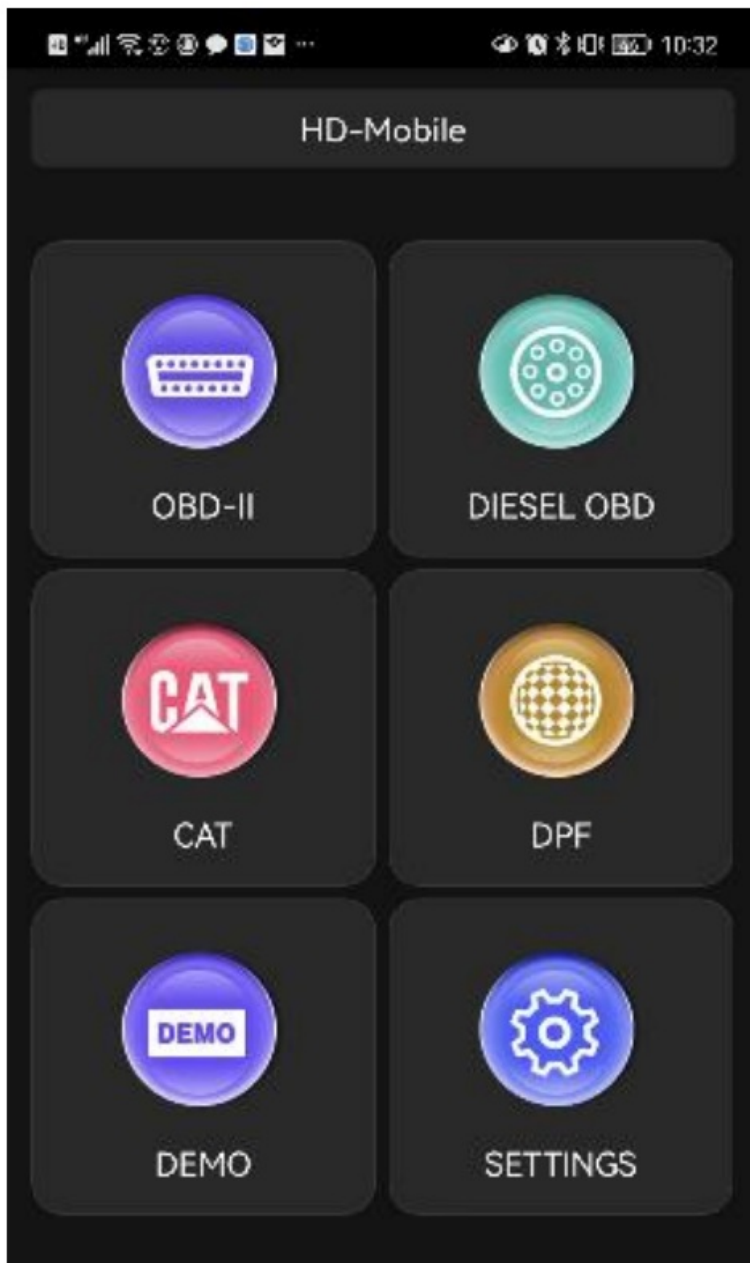
Introduction to App

The Android App runs on the Android 8.0 and above.
The iOS App runs on the iOS 12 and above.

App Download

The Android APK is downloaded from our website **www.candointl.com**. The iOS App will be hosted on both Google Play Store and Apple App Store.

App Homepage

Run the App to enter the homepage as shown in the figure.

Function main menu

Icon	Function name	Function description
OBD-II	OBD II	Diagnostic procedure: OBD II
DIESEL OBD	**Diesel OBD**	**Diagnostic procedure: Diesel OBD**
CAT	**CAT**	**Diagnostic: procedure Caterpillar**
DPF	**DPF**	**DPF :regeneration and maintenance**
DEMO	**Demo**	**Diagnostic :operation demonstration**
SETTINGS	**Settings**	**Set and view system information**

Connection Setting

The system supports the Bluetooth and Wi-Fi connection between the diagnostic App and VCI. The Bluetooth or Wi-Fi name of the VCI starts with letters "HDMII_VCI", and only a connection way selected every time.

1. Select the menu [Setting/VCI] to enter the connection setting page.
2. Select [Bluetooth] and click [Scan], then the system searches the Bluetooth with the name "HDMII_VCI…".
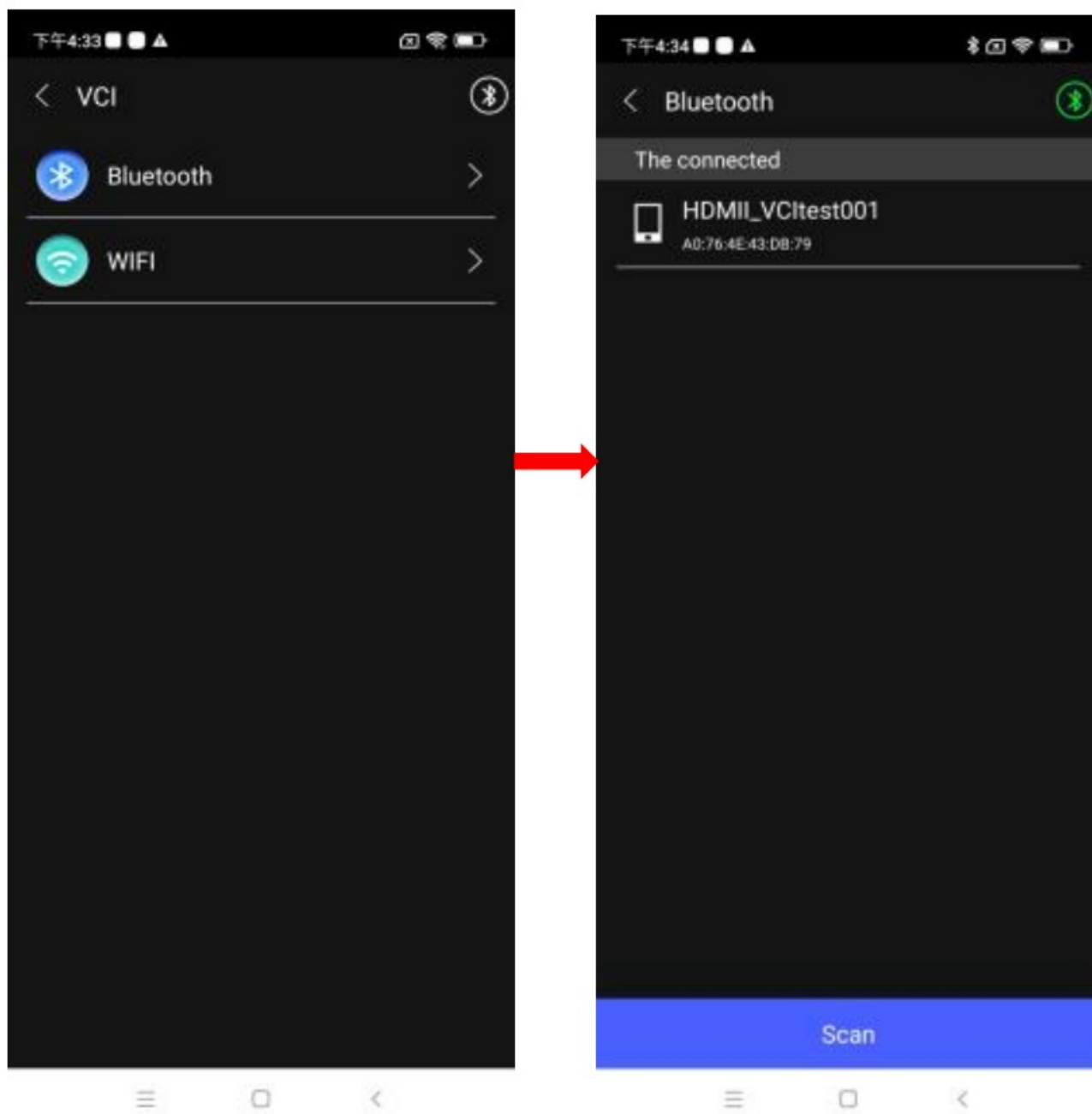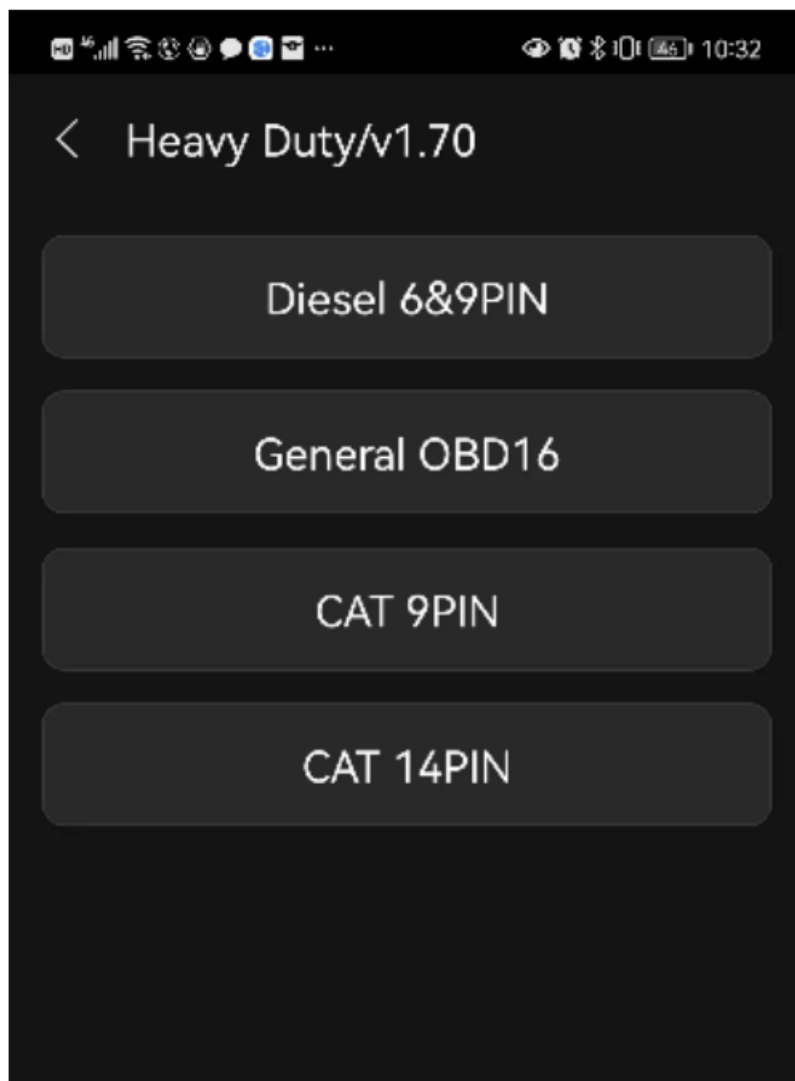
Tips: Please open the position information first before selecting the Bluetooth connection for the Android mobile.
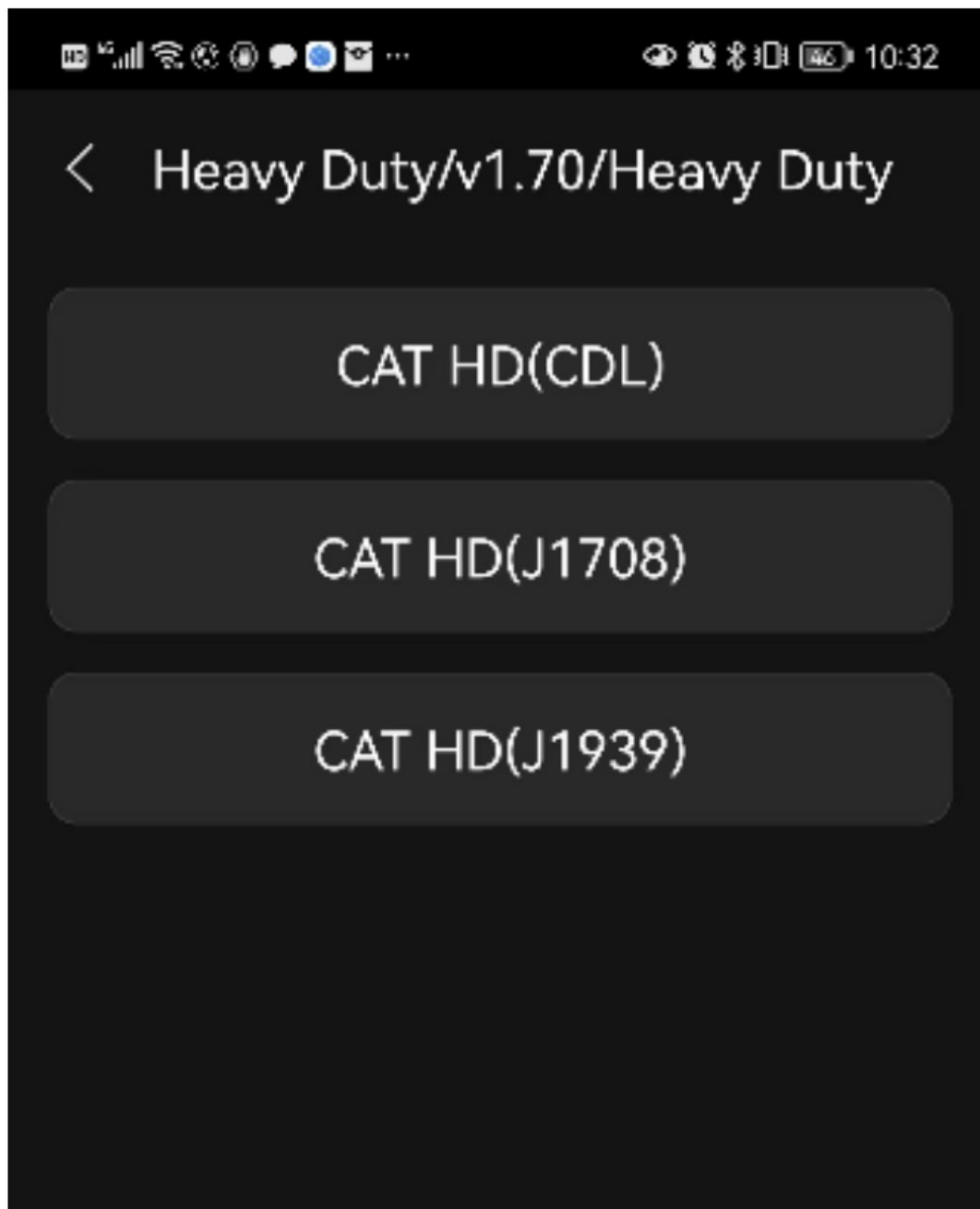
Diagnostic Function

Take the model Caterpillar CAT as an example.

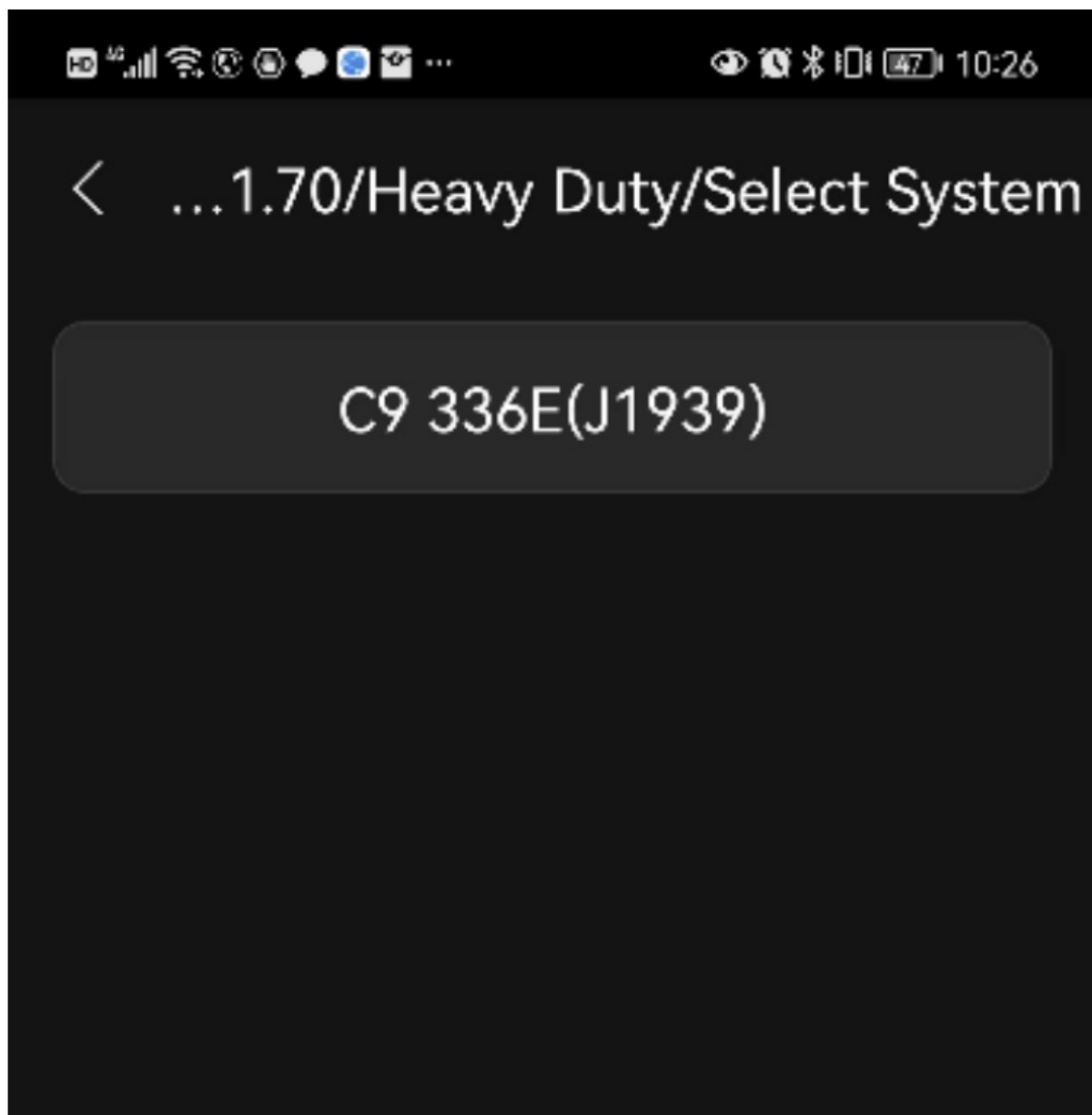1. Click CAT menu and select connector according to the specific situation, such as Diesel6&9PIN ;

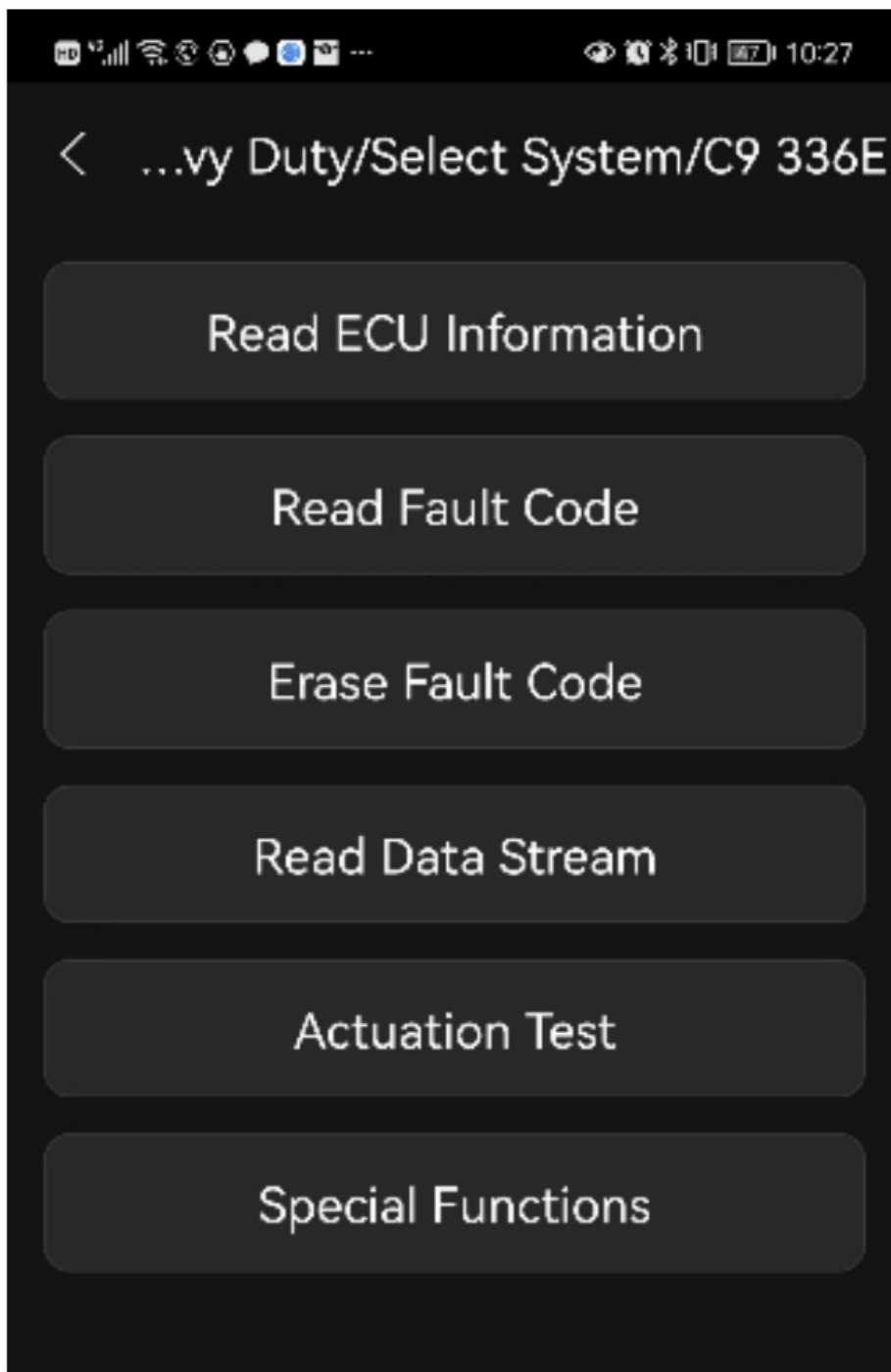2. Select the required diagnostic method, such as CAT HD (1939) ;

CAT HD(CDL)

CAT HD(J1708)
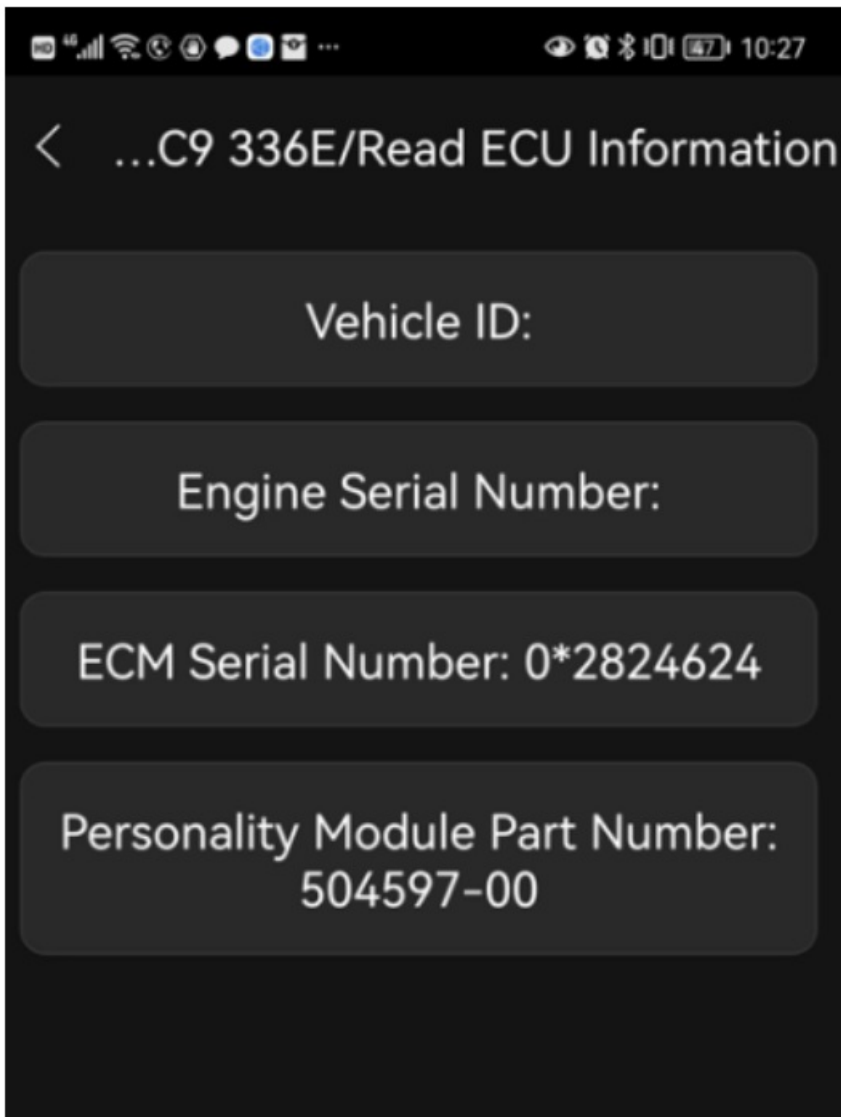
CAT HD(J1939)

3. Select the system;

C9 336E(J1939)

4. Enter the diagnosis home page.

Read ECU Information

Read Fault Code

Erase Fault Code

Read Data Stream

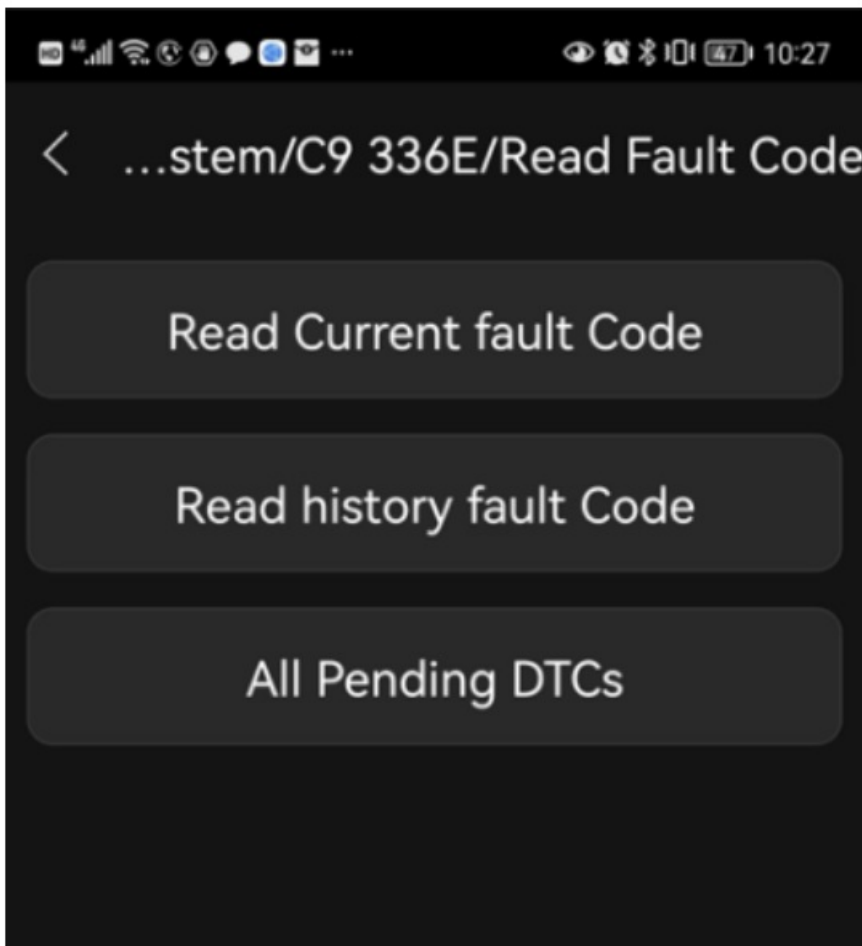Actuation Test

Special Functions

The main diagnostic interface usually includes the following options:

- **Read ECU Information:** Read and display the control system module information detected from ECU.

Vehicle ID:

Engine Serial Number:

ECM Serial Number: 0*2824624

Personality Module Part Number:
504597-00

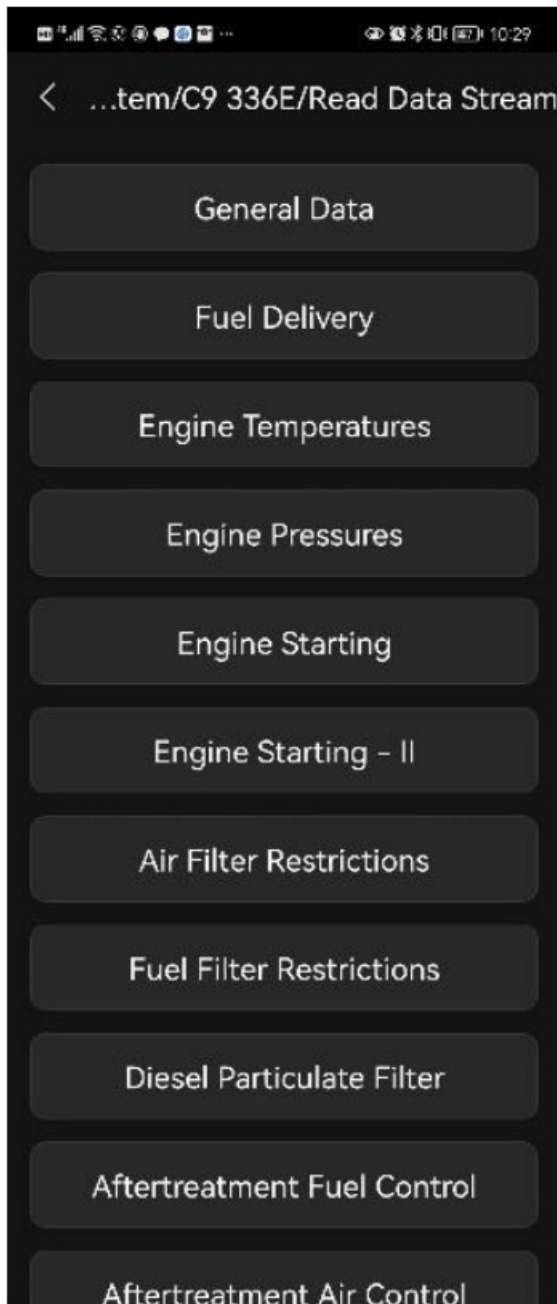- **Read Fault Code:** Read the fault code information retrieved from the vehicle system module.

- **Erase Fault Code**: Clear the fault code and freeze frame data retrieved from the vehicle system module
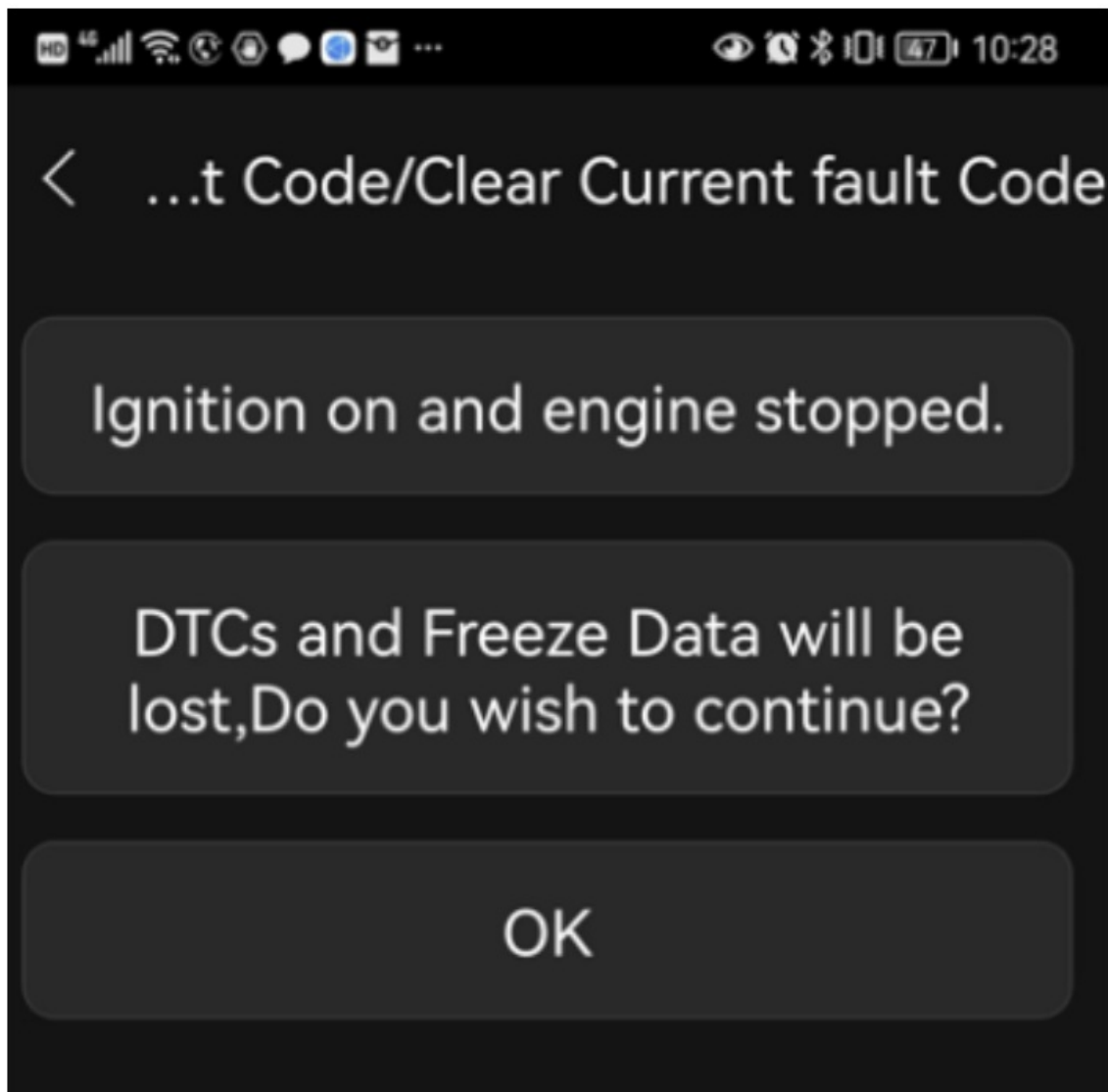
- **Read Data Stream:** Read and display the real-time operation parameters of the current system module

Select parameters and click the icon " ", the system can record the data stream. You can play back the data in the menu **Setting**/**Data playback.**

General Data

Fuel Delivery

Engine Temperatures

Engine Pressures

Engine Starting

Engine Starting – II

Air Filter Restrictions

Fuel Filter Restrictions

Diesel Particulate Filter

Aftertreatment Fuel Control

Aftertreatment Air Control

Name	Current value
☐ Engine Speed	0.00 rpm
☐ Desired Engine Speed	800.00 rpm
☐ Atmospheric Pressure	-2375.46 psi
☐ Boost Pressure	-2374.30 psi
☐ Engine Oil Pressure	-2374.30 psi
☐ Fuel Rail Pressure	0
☐ Turbocharger #1 Compressor Inlet Pressure (absolute)	0
☐ Intake Manifold Pressure (absolute)	0
☐ Crankcase Pressure	-475.09 psi
☐ EGR Intake Pressure (absolute)	0
☐ Fuel Pressure (absolute)	0

- **Actuation Test:** By executing this function, you can access the specific subsystems of the vehicle and perform component tests. When the action test is performed, the diagnostic instrument inputs instructions to the ECU to drive the actuators, and judges whether the actuators of the vehicle's electronic control system and their circuits are normal. Different control systems of different models have different executable test options, please refer to the screen display.

Injector Solenoid Test

Engine Air System Verification Test
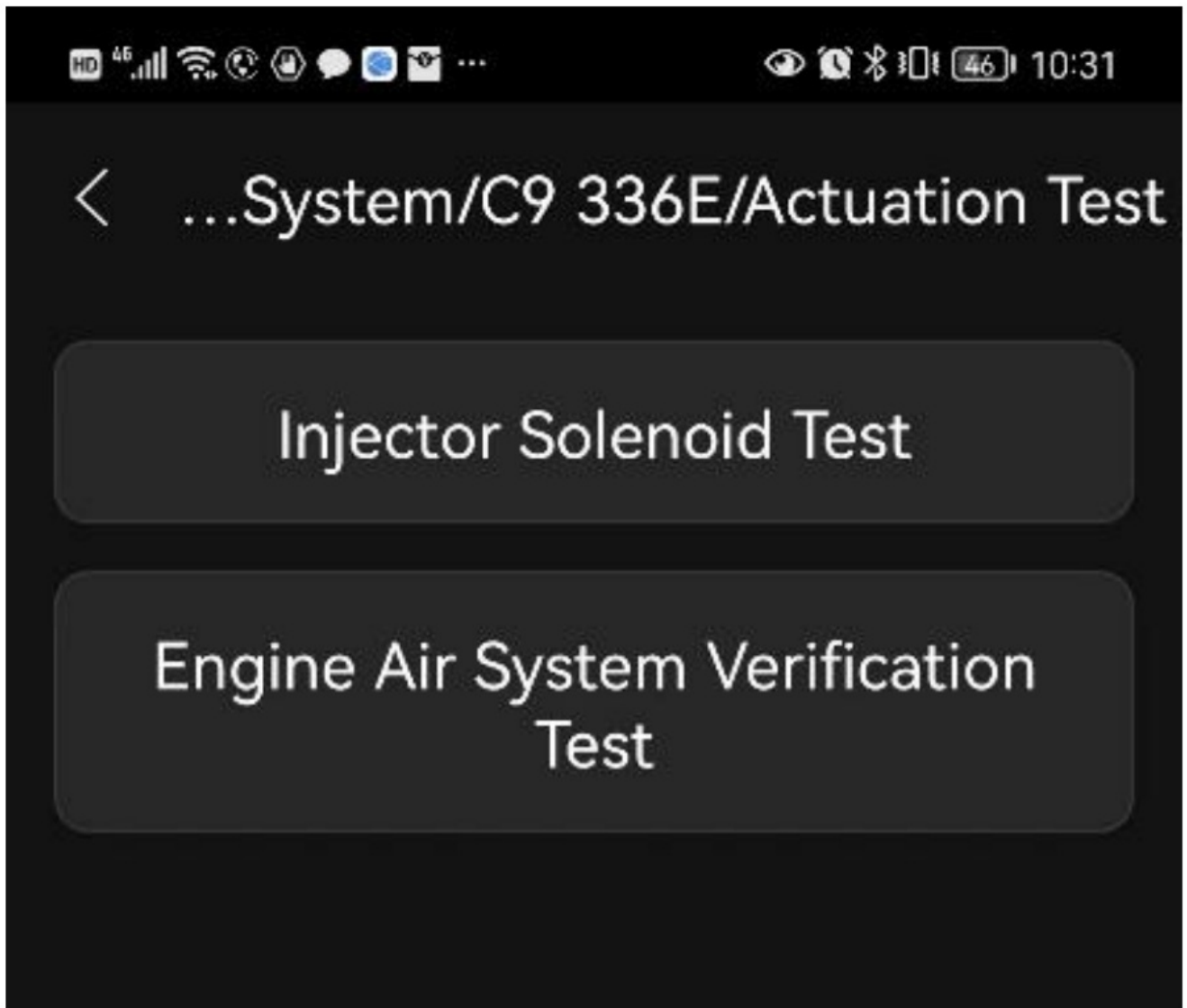
- **Special Function:** By executing this function, you can do self-adapting for each component. It is mainly used to re-calibrate or configure the components after repairing or replacing components, so that the components of the electronic control system can adapt to each other, otherwise the system will not operate normally.

Ash Service Regenration
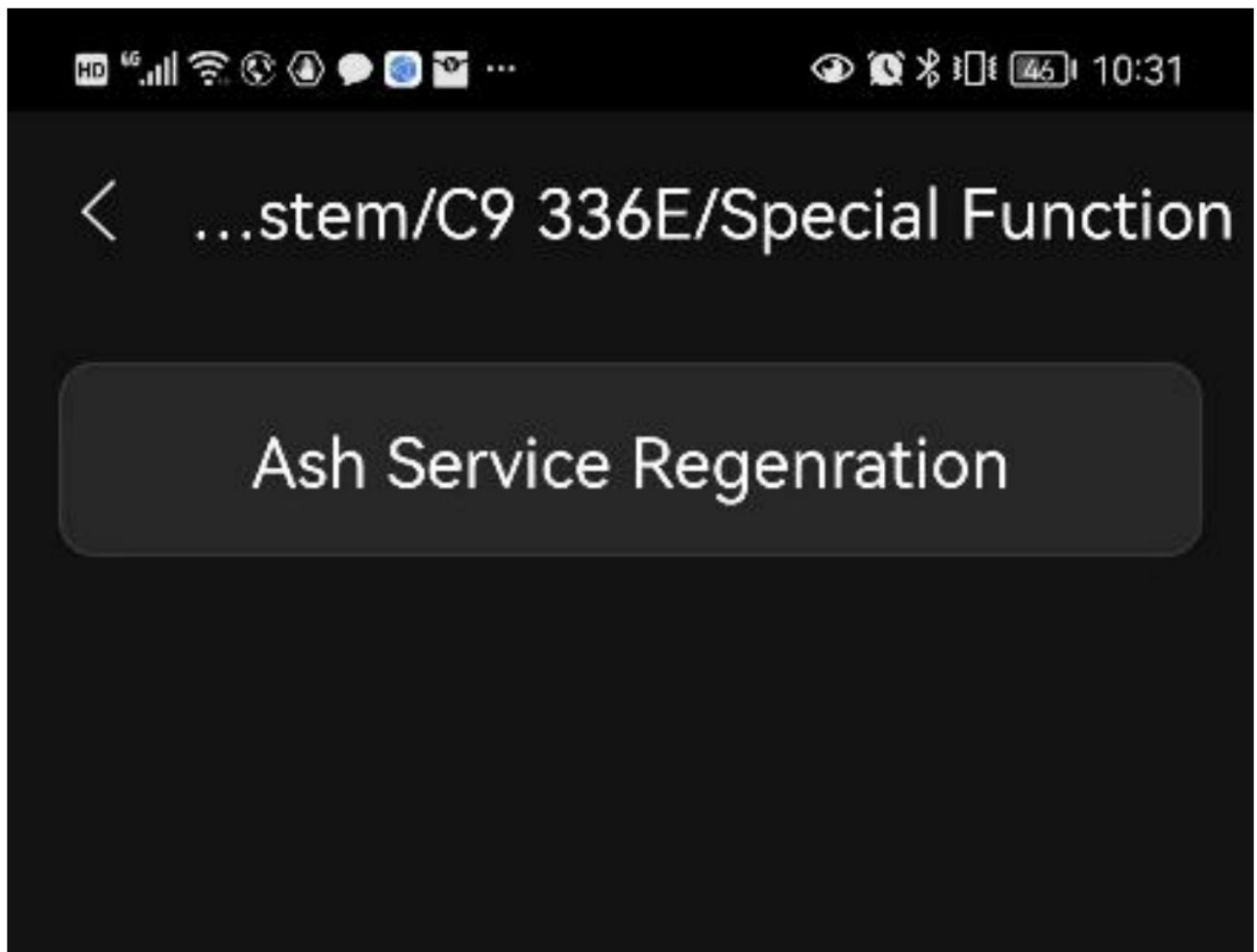
DPF Regeneration

Select DPF in main home page, the system will enter DPF test page. Please select a model and operate according to the prompt.
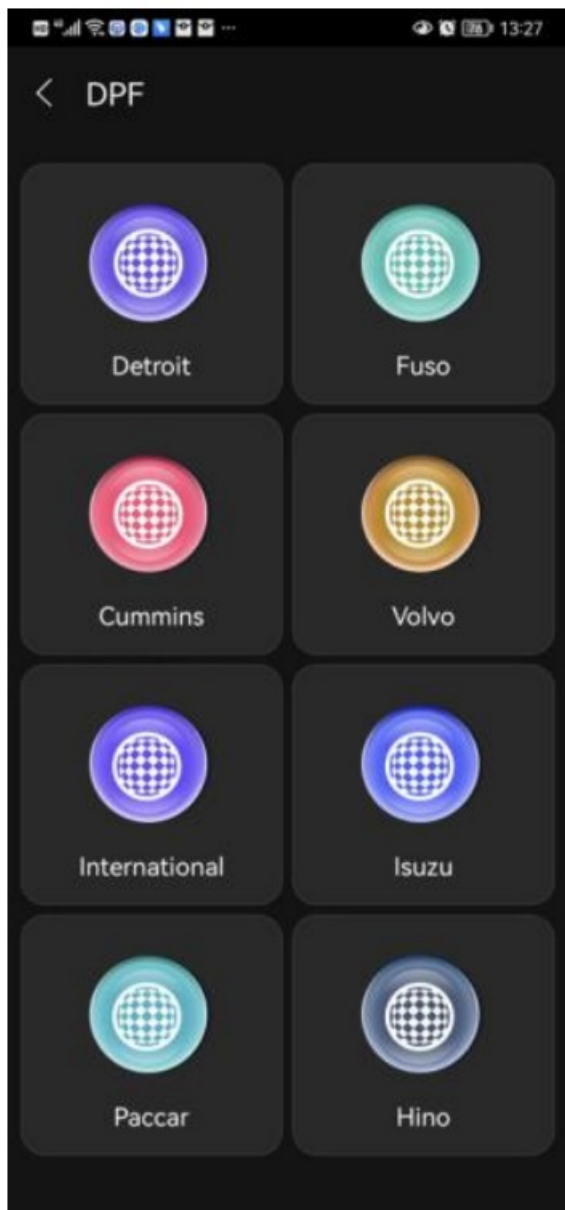
Setting

You can set the following information:

- Language: Change the App language (English, Spanish and Chinese)
- Unit: Set the unit mode (English or Metric)
- VCI: Set the VCI connection (Bluetooth or Wi-Fi)
- Update: Update the model data
- System Information: View the App version and the VCI firmware version
- Log: Send the App operation record
- Data Playback: Play back the saved data stream
- Contact Us: Look up the CanDo contact information

Note: Ensure your mobile can connect the internet for **Update** and **Log** operation.
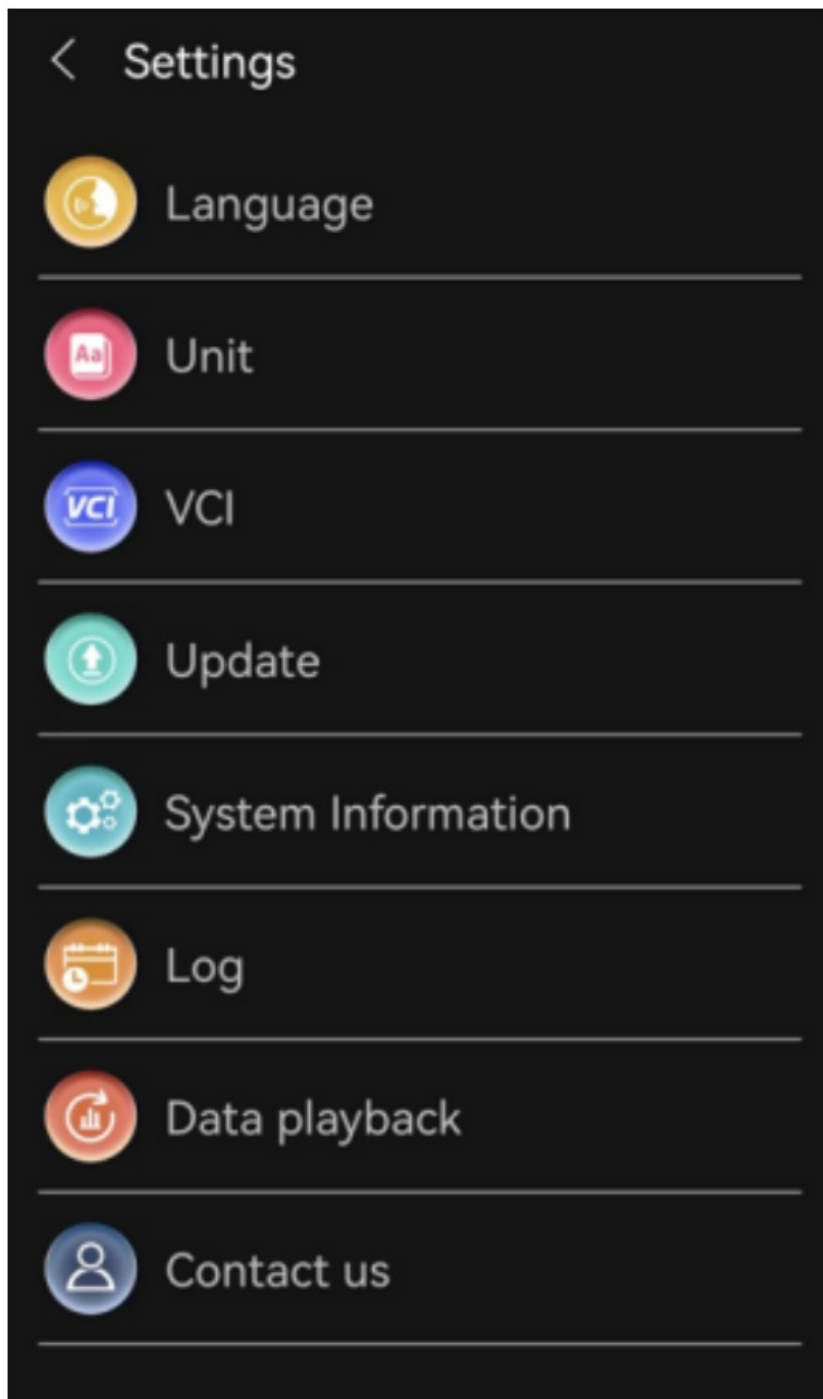
Statement

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.

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

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.

To maintain compliance with FCC's RF Exposure guide lines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body: Use only the supplied antenna.

Documents / Resources

	CanDo HD Mobile II Bluetooth Enabled Handheld Code Reader [pdf] User Manual HDMIIVCI, 2AKNY-HDMIIVCI, 2AKNYHDMIIVCI, HD Mobile II, Bluetooth Enabled Handheld Code Reader, Handheld Code Reader, Bluetooth Enabled Code Reader, Code Reader, Reader

References

- **Heavy Duty | Cando International**