
CONTENTS

1	PRODUCT OVERVIEW	2
2	VCI STRUCTURE.....	3
3	POWER SUPPLY	5
4	VEHICLE DIAGNOSTIC PREPARATION.....	5
5	INTRODUCTION TO APP	9
6	DIAGNOSTIC FUNCTION	14
7	DPF REGENERATION	24
8	SETTING	25

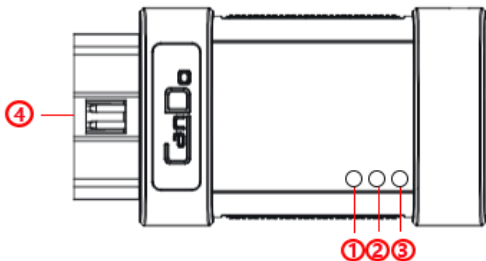
1 Product Overview

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.

2 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
----------------------------	------------

3 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.

4 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:

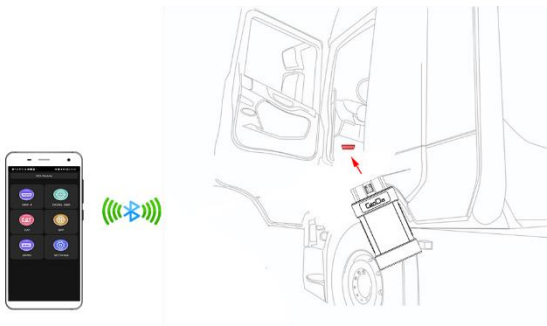
- 1) Turn off the ignition;
- 2) Find the diagnostic interface of the vehicle: it is usually located on the driver side; If the diagnostic interface is not found, please refer to the vehicle maintenance manual.
- 3) Insert the VCI to the vehicle's diagnostic interface.

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

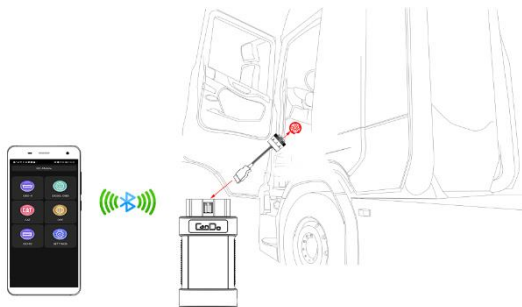
cable, which are used to connect a vehicle with a corresponding interface.

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.

5 Introduction to App

The Android App runs on the Android 8.0 and above.

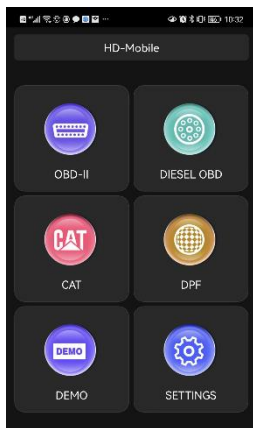
The iOS App runs on the iOS 12 and above.

1) 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.






2) App Homepage

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



Function main menu

Icon	Function name	Function description
	OBD II	Diagnostic procedure: OBD II

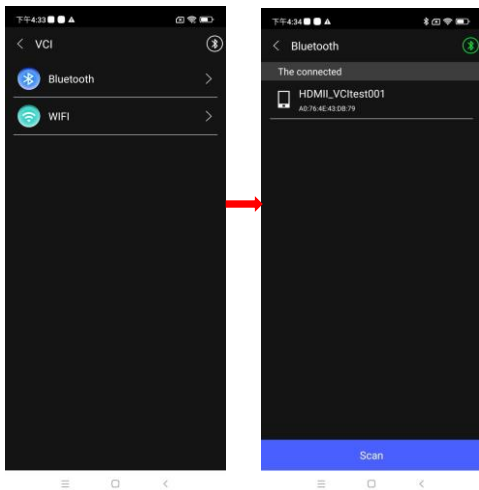
	Diesel OBD	Diagnostic procedure: Diesel OBD
	CAT	Diagnostic procedure: Caterpillar
	DPF	DPF regeneration and maintenance
	Demo	Diagnostic operation demonstration
	Settings	Set and view system information

3) 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...”.

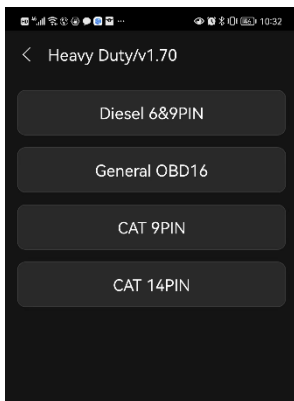


Tips: Please open the position information first before selecting the Bluetooth connection for the Android mobile.

6 Diagnostic Function

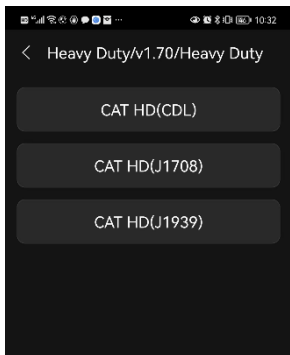
Take the model Caterpillar 【CAT】 as an example.

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

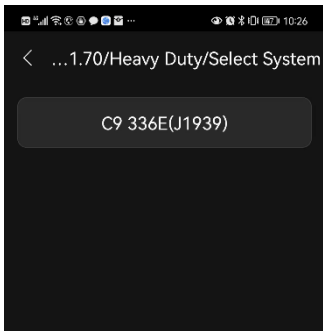


2) Select the required diagnostic method, such as

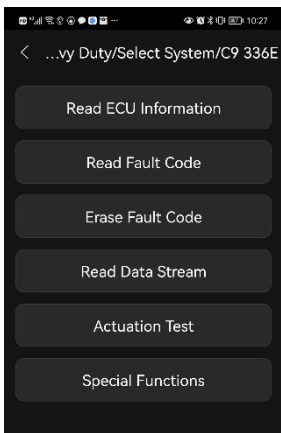
【CAT HD (1939)】;



3) Select the system;

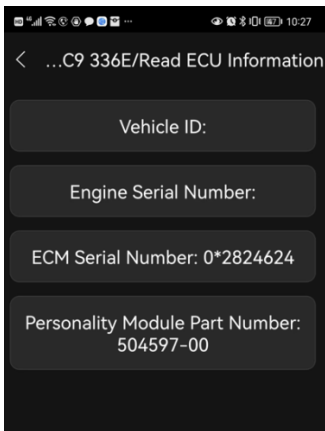


4) Enter the diagnosis home page.

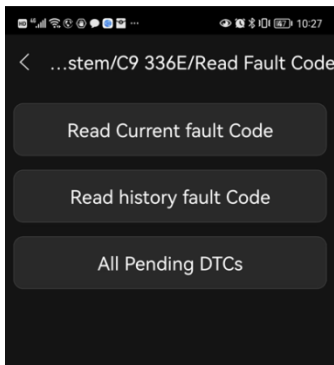


The main diagnostic interface usually includes the following options:

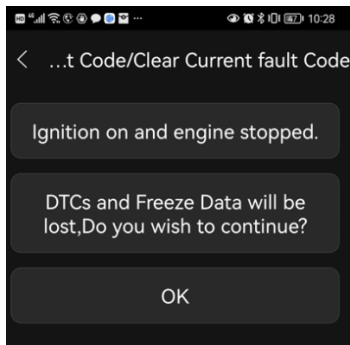
- **Read ECU Information:** Read and display the control system module information detected from ECU.




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

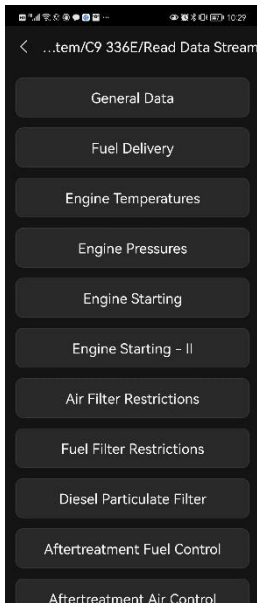


- **Erase Fault Code:** Clear the fault code and freeze frame data retrieved from the vehicle system module



- **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**.

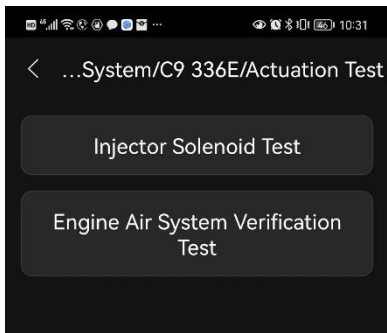


...a Stream/Engine Pressures

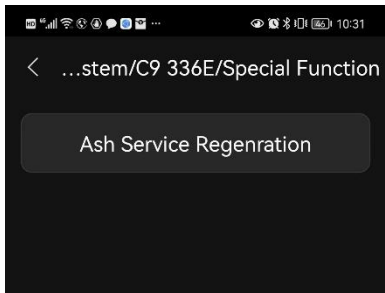
Name	Current value
<input type="checkbox"/> Engine Speed	0.00 rpm
<input type="checkbox"/> Desired Engine Speed	800.00 rpm
<input type="checkbox"/> Atmospheric Pressure	-2375.46 psi
<input type="checkbox"/> Boost Pressure	-2374.30 psi
<input type="checkbox"/> Engine Oil Pressure	-2374.30 psi
<input type="checkbox"/> Fuel Rail Pressure	0
<input type="checkbox"/> Turbocharger #1 Compressor Inlet Pressure (absolute)	0
<input type="checkbox"/> Intake Manifold Pressure (absolute)	0
<input type="checkbox"/> Crankcase Pressure	-475.09 psi
<input type="checkbox"/> EGR Intake Pressure (absolute)	0
<input type="checkbox"/> 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.



- **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.



7 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.

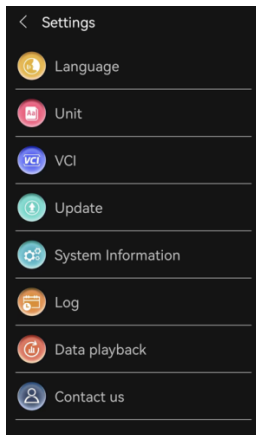


8 Setting

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 guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body: Use only the supplied antenna.



CanDo

CanDo International, Inc.



CanDo

CanDo International, Inc.



Certification

This product has been inspected and certified to meet the company's quality standards.

Product name	HD Mobile II
Product serial number	
Date of production	
Inspector	

Warranty card

Product name	HD Mobile II
Product serial number	
Purchase date	

Company name: _____

User address: _____

Contact person: _____

Contact number: _____