User Manual

HD DIAGNOSTIC TOOL

(HD Code II)





SAFETY PRECAUTIONS

Warning: Read and understand all instructions in this manual. Use appropriate personal safety equipment including hearing and eye protection when using the scanner in or near the vehicle engine compartment. Failure to comply with this manual may result in accidents involving fire, electrical shock, or serious personal injury, etc.

Electrical

* Do not allow any object to be pressed in the cable assembly; Do not allow the cable assembly to be pinched; Keep the cable assembly away from heat, oil, sharp edges, or moving parts; Replace damaged cables immediately; Damaged cables increase the risk of electrical shock; Do not disassemble the scanner; This manual is not for repairing units; Please properly dispose used batteries; Do not incinerate batteries; Consult your local waste authority for available recycling and/or disposal options.

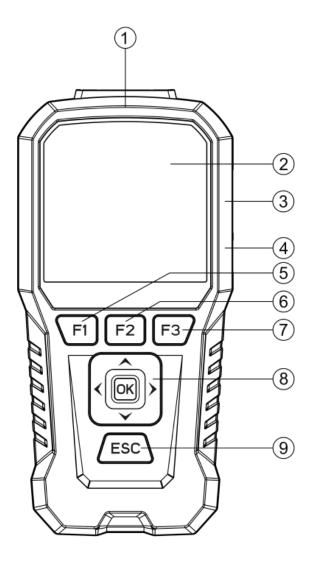
Use and Care

- * Stay alert, and pay attention to what you are doing. Use common sense when the scanner is operated. When some functions are to be tested, the engine should be running. Children and visitors should keep a safe distance from the work area.
- * Keep the scanner dry, clean, and free from oil and grease. Use a mild detergent on a clean cloth to wipe the dirt off when necessary.
- * Use accessories recommended by CanDo International, Inc. Only.

Service

Service must only be performed by repair technicians of CanDo International, Inc. Service & Maintenance by unqualified personnel may result in injury and damage to the unit, and may void your warranty. Refer to the Product Warranty Policy section of this manual.

INTRODUCTION Appearance and Key Descriptions



Serial No.	Name	Application		
1	Main	Connection interface connects		
	Testing	vehicle communication cable		
	Cable	during the vehicle diagnosis.		
2	LCD	Display Interface		
		Installation interface of SD card		
3	SD Card	(vehicle testing diagnosis software		
		is installed in the SD card)		
4	USB Port	Use to connect an external printer		
		(spare).		
(5)	[F1]	Function key, for advanced		
		function menu use		
6	[F2]	Function key, for advanced		
		function menu use		
7	[F3]	Function key, for advanced		
		function menu use		
	[UP]	Buttons: Select up or down		
	[DOWN]	Turn to the previous page or the		
8	[LEFT]	next page		
	[RIGHT]	Confirm a selection of a menu list		
	[OK]	or button.		
9	[ESC]	Button: cancel or return to the		
		previous screen		

Host Parameters

Hardware	Parameter	Type/Unit	
СРИ	120MHZ	LPC1788	
Display	3.5 inch LCD	TFT LCD touch screen	
Resolution Ratio	320x240	Dot matrix	
SD Card	260/460/060	National	
Interface	2GB/4GB/8GB	Standard	
Diagnostic	N de in line	DB15	
Interface	Main line		
Operating	11~28V	V	
Voltage	11 28V		
Operating	< 500MA	МА	
Current	< SOUNIA		
Storage	-30°C~85°C	℃	
Temperature	-30 C 65 C		
Dimension	211*101*28	mm	

Functions

- *Class 4-Class 8 truck coverage featuring "Automatic Protocol Search".
- *HD J1708 and J1939 CAN, Engine, Transmission/ABS coverage, etc.
- *CAT Support: CAT Truck/Bus, CAT Construction,
- *CAT Power Equipment, CAT Agricultural, CAT Industrial, CAT On/Off Highway
- *General Functions (Including Global OBD II coverage):
- Read ECU Information
- Read and Erase Fault codes
- Read Live Data
- Read Freeze Frame
- Graph Live Data
- Screenshot Function
- * Graph live data such as:
- Engine speed
- Engine ECU temperature
- Percent acceleration pedal position
- Engine intercooler temperature
- Engine coolant temperature
- Battery volts
- Alternator volts
- Ambient air temperature
- Air inlet temperature
- *Set measurement units in SAE English/Metric.
- *Internet upgrade

Application

- *Passenger cars and Business vehicles
- *Tow trucks, recreational vehicles, cement trucks, dump trucks, garbage trucks, buses, step vans, municipal vehicles, refrigerated trucks, and conventional trucks.

Heavy-Duty Standard compliant construction, marine, agriculture, and other industrial machinery and equipment.

- *Diesel power plant configurations
- *CAT Support: CAT Truck/Bus, CAT Construction, CAT Power Equipment, CAT Agricultural, CAT Industrial, CAT On/Off Highway
- *SAE J1850PWM, SAE J1850 VPW, ISO 14230-4, ISO 9141-2,ISO 15765-4,SAEJ1708,SAE J1939

NOTE:The purpose of this manual is to guide you to use the scanner successfully. It is not a repair manual for your vehicle. For specific information on troubleshooting your vehicle, please refer to the owner's manual or various other repair manuals.

OPERATION

Connect the scanner to your vehicle: HD Code II communicates with the computer in your vehicle through a main-line connection. One end of the cable is plugged into the connector on DB15 of HD Code II and the other end to the adaptor, which is plugged in to the diagnostic socket on your vehicle.

CAUTION: The operating voltage of HD Code II is within 11V-28V, please make sure the output voltage of the diagnostic socket on your vehicle is 11V - 28V.

Turn the vehicle ignition key to ON or start the engine, and then the HD Code II will automatically start. (Fig. 1& Fig. 2)

DIAGNOSTIC & OPERATING INTERFACE

Diagnose

Select Menu: Select the [DIESEL OBD] and press (OK) button; The HD Code II includes categories of the software: SAE J1939, SAE J1708

Select Menu: Select the [CAT] and press (OK) button; The HD Code II includes categories of software: CAT Truck/Bus, CAT Construction, CAT Power Equipment, CAT Agricultural, CAT Industrial, CAT On/Off Highway Select the [OBDII] and press (OK) button; The HD Code II includes categories of software: ISO 14230, ISO15765, SAE J1850, ISO 9141-2, IOS 15765-4

Operating Interface





(Fig.1: Boot Screen)



(Fig.3: Read ECU Info)

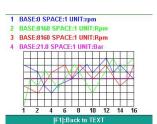
(Fig.2: Main Interface)

Live Data		
1	Torque/Speed Control 1	
2	Electronic Brake Controller 1	
3	Electronic Engine Controller 2	
4	Electronic Engine Controller 1	
5	Engine Temperature 2	
6	Fan Drive #1	

(Fig.4: Live Data View)

Read Current fault Code Property Fault Code Read history fault Code Property Fault Code University Fault Code University Fault Code	Clear Current fault Code	
2 DICS allu Fleeze	engine stopped.	
	e Data will be lost,Do yo ue?	
3 ОК		

(Fig.5: Read Fault Code) (Fig.6: Read Current Fault Code)



1 Engine Override Control M ode skisting control commanded by the source of thing s command Control Conditions 2 Engine Requested Speed Control Conditions 2 Zed for driveline disengaged and non-lockup co

(Fig.7: Live Data View)

(Fig.8: Graph Live data)



(Fig.9: Setting Interface)



(Fig.10: Beeper On/Off)



(Fig.11: Unit sitting)

(Fig. 12: Device Self-test)

CAUTION

Make sure the connector is firmly attached.

Keep the vehicle ignition key ON or the engine running.

Accessories connector:

OBD-16 pin connector supports J1708/J1587 or J1939 protocol.

DIESEL-9 pin connector supports J1708/J1587 protocol and J1939 protocol.

DIESEL-6 pin connector supports only J1708/J1587 protocol.

CAT-9 pin connector supports J1708/J1587 or J1939 protocol.

TROUBLESHOOTING GUIDE

If the HD Code II fails to connect to the vehicle:

- Make sure the vehicle ignition key is in the ON position;
- 2. Make sure pins in connectors are not bent and contacted;
- Make sure the cable connectors are plugged in firmly;
- 4. Make sure the diagnostics connector is clean.

How to self-test the HD Code II:

Connect the power interface of the main test line, and then connect it to the 12V DC power supply. The HD Code II starts and then enters the system settings/SELF-TEST to test if the HD Code II is normal or abnormal (refer to Fig.12).

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Certification

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

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

Warranty card

Product name	HD Code II
Product serial number	
Purchase date	
Company name:	
User address:	
Contact person:	
Contact number:	