AUTO-i 100

User Manual

Ver. 160501A

Contents

Precautions For Use

Do not drop the product.
It may cause damage to the product.

Do not put the product on a distributor.
Although manufactured to prevent interference of internal electromagnetic wave, any strong interference beyond the set limit may result in damage to the product.

Do not attempt to repair, disassemble, or alter the product yourself.
It may cause damage to the product.

Avoid air-vent plugged by foreign substances.
This may cause fire or damage of product.

Upgrade

Never attempt to disassemble the power supply unit or adaptor.
It may cause damage to the product.

Storage and carriage

Avoid storage in a humid place.
It may cause damage to the product.

Use the carrier bag provided with this product when carrying.
It will protect the product from external impacts.

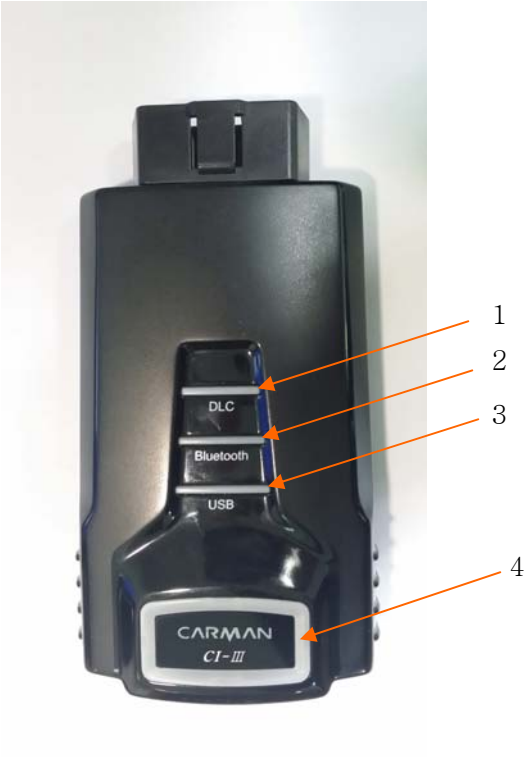
Long hour battery charging may cause shorten battery life or damage it.
Avoid battery charging over two (2) days.

● Product Specification

Item	Specifications	
OS And Recommended PC specification	Windows XP, VISTA, 7 support (32bit) 1 gigahertz (GHz) or faster 32-bit (x86) or 64-bit (x64) processor. **1 gigabyte (GB)** RAM (32-bit) or 2 GB RAM (64-bit). 16 GB available hard disk space (32-bit) or 20 GB (64-bit). DirectX 9 graphics device with WDDM 1.0 or higher driver.	
Connecting Method		
	Bluetooth	2.0
	USB	USB 2.0 (Compliant)
Protocol	- CAN Bus (capable of ISO 15765, GMLAN, J1939, and ISO14229) - 2nd CAN (Dual or Single Wire) - Ford SCP (J1850PWM) - GM Class2 (J1850VPW) - KWP2000 (ISO9141/14230) - Chrysler SCI (J2610) - K-line - L-line - 5V SCI	
J2534	Support	
Vehicle Diagnosis	- Korea, Japan, Europe, USA Vehicle	
	- OBD - II	
	- Trouble code and Current data dual display	
	- Maximum 14 current data one screen display	
Operating Temperature	0℃ ~ 40℃	
Operating Voltage	7 ~ 35 [V]	

Main Body

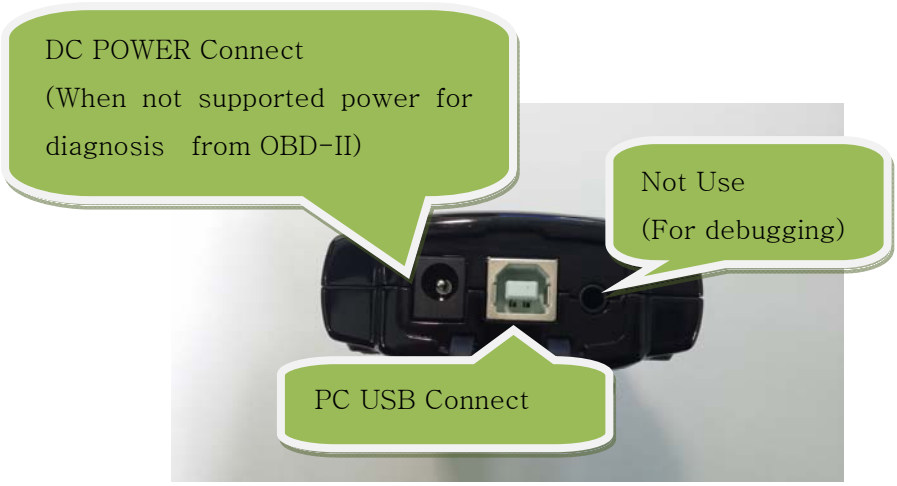
Front View of Main Body



1. DLC LED : Communication with a vehicle
2. Bluetooth LED : Bluetooth communication
3. USB LED : Communication with a USB port
4. PWR LED : External power supply. (12V DC, DLC power supply)

Main Body

Upper part of Main Body



Component Pictures

AUTO-i 100 Carrier Bag

Figure 1.3 AUTO-i 100 Carrier Bag

Adapters and cables for vehicle diagnosis are included in AUTO-i 100.

Store product in carrier bag if not in use in order to prevent loss and protect against impact.

USB cable

Figure 1.6 USB cable

The USB cable connects the USB port of AUTO-i 100 and that of your PC and is used when you want to download the diagnosis software or save captured files to your PC.

Be sure to use a dedicated USB cable only.

A dedicated USB cable of AUTO-i 100 is not allowed to use for other purpose.

Component Pictures

Cigar Light Power Cable

Figure 1.7 Cigar Light Power Cable

The Cigar Light Cable connects the AUTO-i 100 to the cigar jack for power supply.

Battery Extension Cable

Figure 1.8 Battery Extension Cable

This battery extension cable make AUTO-i 100 to get power from battery of a vehicle directly by connecting to a cigarette cable.

Component Pictures

OBD-II Extension Cable

Figure 1.9 OBD-II Extension Cable

The DLC cable is also called the OBD-II cable. All vehicles released recently have built-in OBD-II connectors compatible to the OBD-II specification.

It is possible to diagnose new model vehicles by directly connecting the DLC cable. It is not necessary to connect any additional power source as power is feed through the diagnostic connector.

Separate adapter is needed to diagnose old vehicles.

Component Pictures

DLC ADAPTER

The DLC Adapter is used to diagnose vehicles by connecting to the main connector. Do check name of brand written on adapter before use since shape of DLC Adapters are similar.

Some products of the same brand include more than one adapter. Therefore do check form and number of pin of the diagnostic connector which is attached to the vehicle.

Some vehicles do not supply power through the diagnostic connector. Do not connect any power supply if power can be supplied through the diagnostic connector.

1) Asian kit

Figure 1.11 MITSUBISHI ADAPTOR (12P)

Figure 1.12 MAZDA ADAPTOR

Figure 1.13 KIA ADAPTOR 20P (BLUE)

Figure 1.14 DAEWOO,GM ADAPTOR (12P)

Figure 1.15 Ssangyong 14P

Figure 1.16 Ssangyong 20P

Component Pictures

Figure 1.17 DAEWOO LPG

Figure 1.18 SAMSUNG/NISSAN 14P

Component Pictures

3) Japanese Kit

Figure 1.21 TOYOTA (17R)

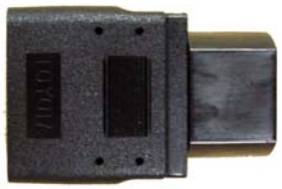


Figure 1.22 TOYOTA (17C)

Figure 1.23 HONDA 3P

Figure 1.24 HONDA 5P

Figure 1.25 MITSUBISHI 12+16 P

Figure 1.26 SUBARU 9P

Figure 1.27 MAZDA (17C)

Figure 1.28 MAZDA 6+1 P

Component Pictures

Figure 1.29 MITSUBISHI 12P

Figure 1.30 NISSAN 14P

Component Pictures

4) European kit

Figure 1.31 PSA 30P

Figure 1.32 PSA 2P

Figure 1.33 Fiat 3P

Figure 1.34 Renault 12P

Figure 1.35 Mercedes Benz Board (38P)

Figure 1.36 Opel 10P

Figure 1.37 Mercedes Benz Cable (3 liners)

Figure 1.38 Audi / VW Cable (2+2P)

Figure 1.39 BMW Adapter (20P)

5) USA/ Australian kit

Figure 1.40 Holden 6P

Figure 1.41 Ford 20P

Menu Configuration

1. Before using the product

1-1. Confirm the power supply before using the product.
Note that power can be supplied through the vehicle's diagnostic connector if it is connected to the vehicle.

⚠ DANGER

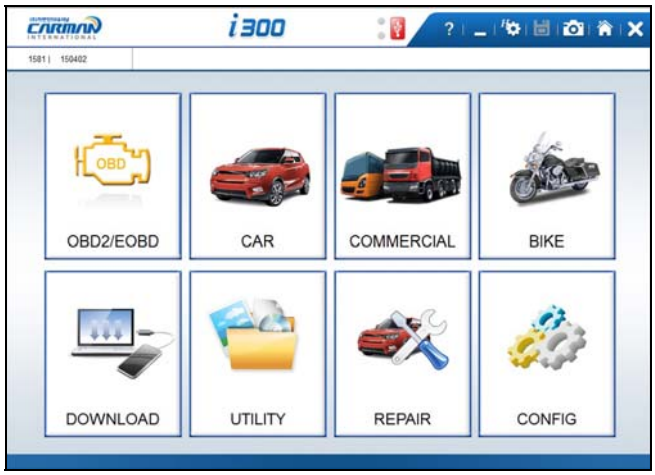
When power is not supplied through the vehicle diagnostic connector, Connect cigar cable for power supply before communicating with the vehicle. If voltage levels are not matched between ECU and AUTO-i 100, it may disable communication

1-2. Before using the product, make sure to download the latest diagnostic program.
Before using the product, confirm whether the diagnostic program is compatible with the option purchased.
Latest diagnostic data can be updated through our homepage(www.carmanit.com) or confirmed through regional retailers.

Main Screen

Menu Description

This is the description for each menu displayed on the initial screen when AUTO-i 100 is program on.



01. OBD2/EOBD

- This menu is to diagnose and test some parts that are related with exhaust gas only if user`s vehicle has OBD 2/EOBD

02. CAR, COMMERCIAL, BIKE

- This menu provides scanner's own functionality such as vehicle diagnosis, service data search, actuator activation, etc.
- Depending on your option, you can perform diagnosis on Korean, Japanese, European, Australian and USA vehicles.

03. DOWNLOAD

- In this menu, AUTO-i 100 can connect to PC so that it can upgrade software and download saved files etc. in AUTO-i 100 to PC.

04. UTILITY

- In this menu, you can check the system display unit, favorite maker setting, screen setting, time setting and system information

05. REPAIR

- To use Repair Information, you should install “Repair Information” in the installation DVD.
- This function provides repair service information and wiring diagrams.

06. CONFIG

- This menu provides setting function of System Display Unit, Maker, Display, Time, and System and User information.

Diagnosis Menu

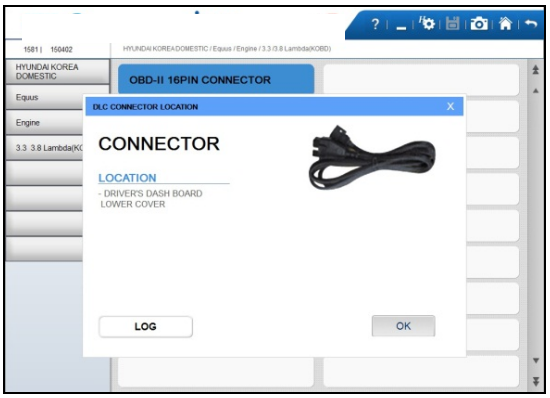
1. How To Connect Diagnostic Connector and Select Diagnosis Program

1. Locate the diagnostic connector in the vehicle.

- Most vehicles released after year 2002 conform to the OBD-II Protocol and have OBD-II diagnostic connectors.

- Most OBD-II vehicles have their diagnostic connectors on the section over the brake pedal under the steering wheel.

- If an additional adaptor is required, the scanner display shows the type of the necessary adaptor and the location of the diagnostic connector.



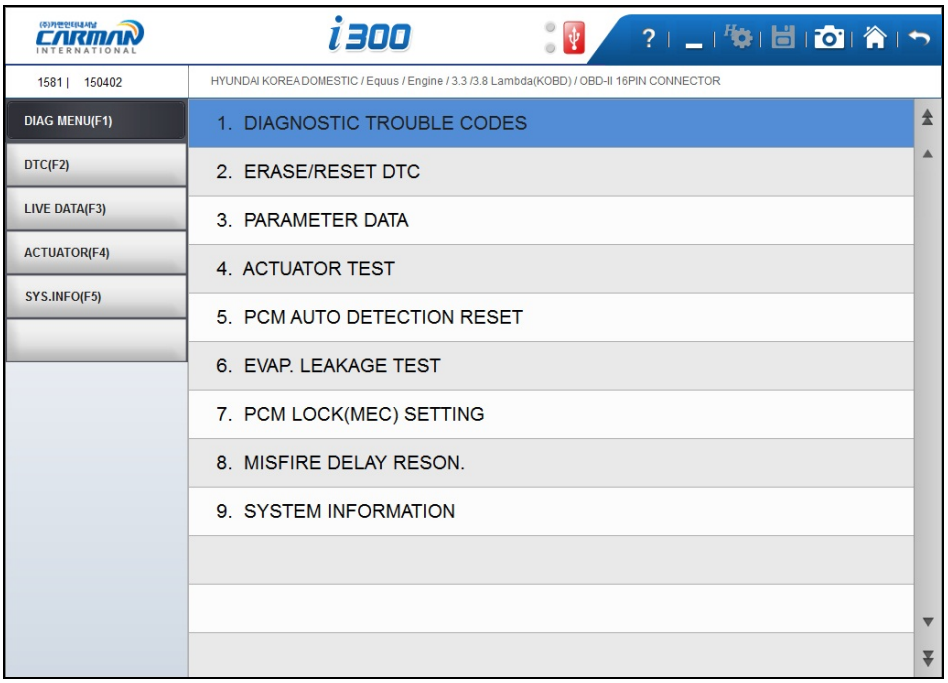
2. Use the DLC main cable to connect the vehicle's diagnostic connector and AUTO-i 100.

Diagnosis Menu

1. Diagnostic Trouble Codes

- In this menu, it is possible to check for any malfunction of the selected vehicle system through the communication with the ECU in the vehicle. As AUTO-i 300 displays DTCs (Diagnostic Trouble Codes), you can easily check where malfunction occurs. Also, the description for DTCs is displayed as well to help you service your vehicle.

In order to diagnose DTC correctly, please check the connection between connector and AUTO-i 100. Please refer to Chapter4: Diagnosis menu and check details such as Vehicle maker, model and displacement etc.



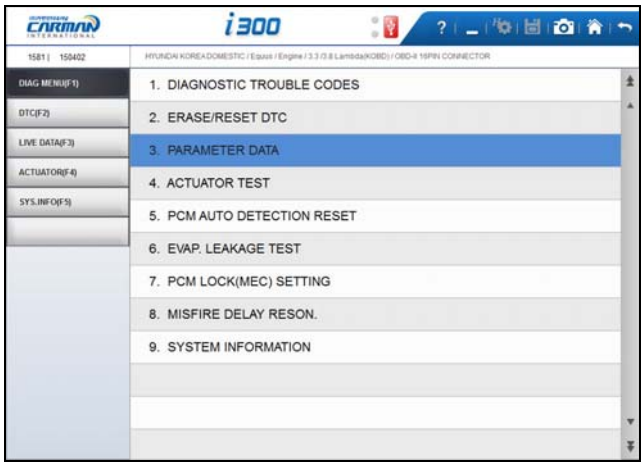
- Diagnostic Trouble Codes -

Note - Items of Diagnostic Trouble Codes may differ from depending on makers and models.

3. Parameter Data

- In the PARAMETER DATA menu, the module can communicate with the vehicle ECU to check data and control values of each sensor of the selected system and to check conditions of various switches and actuators.

It is important to select the vehicle specifications correctly for accurate sensor data measurement.
Make sure to set the vehicle displacement, manufactured year, fuel, etc. correctly. The live data list can differ even with the same vehicle models.



- Parameter Data -

NOTE) The menu for Parameter data selection, shown in the above picture, can differ by vehicle makers and models.

1. When selecting the correct vehicle model and system from the menu and communication with the vehicle is properly established, the menu appears as the picture above.
Select Parameter DATA and press the ENTER key

If the message indicating a communication error is displayed instead of the menu like the figure above or communication cannot be established, check the vehicle condition and the connection status of the diagnostic connector again..

ETC.

Certification Specification

- Model Name : AUTO-i 100

- Manufacturer : Carman International Co., Ltd.

FCC RULE

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.

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

FCC RF Radiation Exposure Statement:
This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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.