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## **I Statement**

This manual is designed for the use of CANDO products; it cannot be copied or stored in any form (electronic, mechanical, photocopying, recording or otherwise) without prior written permission being secured from CanDo International, Inc.

- This manual is intended for professional vehicle repair technicians.
- This manual provides the operation methods for CANDO products only, and the company accepts no responsibility for the consequences caused by attempting to use the operation methods on other equipment.
- This manual is written in accordance with the existing configuration and functions of the product, and is subject to change without notice if the product adds new configurations and functions.

If you have any questions, please contact us by the following ways:

CanDo International, Inc.

Phone: 1-909-CanDo-11(226-3611)

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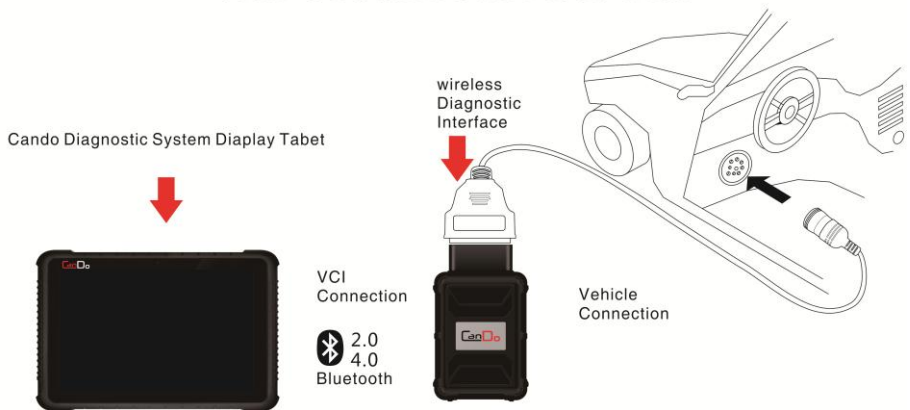
[www.candointl.com](http://www.candointl.com)

## II Introduction

The Wireless Diagnostic Interface is a multi-brand device which comes with the CANDO tool kit. It is designed to connect wirelessly with the CANDO Display Tablet, as a vehicle communication interface (VCI) for vehicle data transmission. Thanks to the wireless BT technology, with which you are allowed to work freely around the vehicle.

This interface device can communicate with vehicles' electronic control units (ECUs), guaranteeing performance and speed that redefine multi-brand diagnostics. The development of this interface has been focused on reducing the communication time, and ensuring the tool is practical to use.

### CANDO DIAGNOSTIC PLATFORM



The CANDO diagnostic platform combines the VCI device and the display tablet with technical information into ensuring quick and simple access to the vehicle to perform comprehensive diagnostics applications.

## **2.1 Wireless Communication**

The Wireless Diagnostic Interface supports BT communication. It can transmit vehicle data to the CANDO Display Tablet without a physical connection. The working range of the transmitter through BT communication is about 300 feet (about 100 m). A signal lost due to moving out of range automatically restores itself when the display unit is brought closer to the VCI unit.

For detailed information about VCI connection with the CANDO display tablet, please refer to the CANDO User Manual.

## **2.2 USB Connectivity**

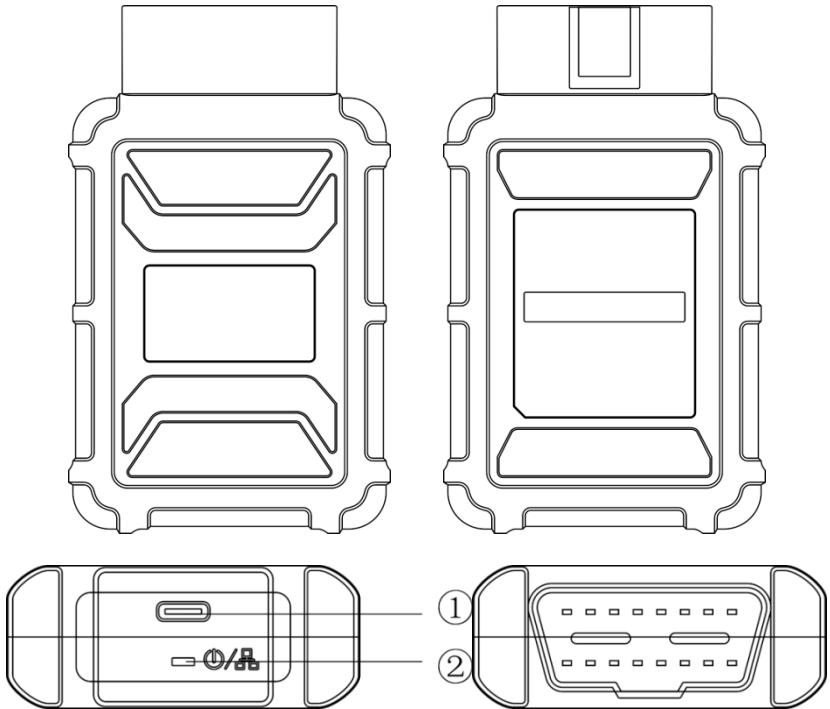
The VCI device also provides a direct connection to the CANDO display tablet or a PC via a USB 2.0 full-speed connection. All of the electronics are contained in the device shell, making it a compact and rugged vehicle communication tool.

## **2.3 Power Source**

The Wireless Diagnostic Interface operates on 12-volt vehicle power, which it receives through the vehicle data connection port. The unit powers on whenever it is connected to an OBD II/EOBD compliant data link connector (DLC).

### III Functional Description

The Wireless Diagnostic Interface device includes the cable and user manual. Please refer to the CANDO User Manual for additional information.



No.	Name	Description
①	USB interface	Connect to tablet PC or upgrade VCI box
②	Diagnostic light	Lights up when connected to vehicle Lights up when connected to tablet PC

## Vehicle Data Connector

The vehicle connector connects the device to the vehicle's DLC via a standard DB15 - Pin OBD II cable.

## Status LEDs

The status LEDs of the VCI device, which indicates its working status as well as the hardware conditions, and are very useful for troubleshooting the device's communication or connection to the Vehicle, display tablet and/or the PC.

## USB Port

The USB port provides the easiest connection between the device and the display tablet via a USB cable, and is used to control the device from the software application running on the HD Diagnostic System Display Tablet, as HD Pro Tab.

## Technical Specifications

Item	Description
Communications	BT V4.0
Processor	Cortex-M3 Microcontroller
Frequency	72MHz
Processor Model	STM32F103CBT6
Flash Memory	128KB
RAM	20KB
Wireless Frequency	2.4 GHz
Input Voltage Range	8 V-36VDC
Supply Current	500 mA @ 12 VDC
Operating Temperature	0°C to 40°C (ambient)
Storage Temperature	-20°C to 70°C (ambient)
Bluetooth	Supports Bluetooth 2.0, Bluetooth 4.0

## Capabilities

When used in conjunction with the display table, the Wireless Diagnostic Interface device is able to perform the following functions:

- Auto diagnostics to read and clear the error memory, to display system parameters and the status of the ECU;
- Activation, adjustments and configurations that are essential for ensuring a complete repair;
- Resetting the service lights or the airbag systems;
- Configuration of the ECUs, keys and remote controls, etc.



## **IV Product Troubleshooting**

This part describes problems that you may encounter while using the VCI device.

### **4.1 Vehicle Linking Error**

A communication error occurs if the interface device fails to communicate with the vehicle's control module when performing diagnostic procedures.

You need to do the following check-ups:

1. Verify that the ignition is ON.
2. Check if the interface device's OBD II connector is securely connected to the vehicle's DLC.
3. Turn the ignition off and wait for about 10 seconds. Turn the ignition back to on and continue the operation.

Verify the control module is not defective.

If these issues have been addressed, verified, and you are still having trouble, please contact technical supports for assistance. Refer to the CANDO User Manual for additional information.

## **4.2 Firmware Update**

CANDO periodically releases updates to the device's drivers. Updates are necessary to solve specific problems and to ensure the VCI device is working properly with the OEM software. If you are experiencing any problems during use, always make sure that you have the latest device software and drivers.

## **4.3 Update Online**

This function allows you to update the software for the device through the CANDO Display Tablet. Make sure the Display Tablet is connected to the VCI device.

## **V Compliance Information**

**FCC COMPLIANCE**

**FCC ID: 2AKNY-IDMINIVCI**

### **FCC 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.

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.

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

## **VI Warranty And Service**

### **Limited One Year Warranty**

CANDO warrants to its customers that this product will be free from all defects in materials and workmanship for a period of one (1) year from the date of the original purchase, subject to the following terms and conditions:

- 1) The sole responsibility of CANDO under the Warranty is limited to either the repair or, at the option of CANDO, replacement of the device at no charge with Proof of Purchase.

- 2) This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our Service Center or facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance.
- 3) CANDO shall not be liable for any incidental or consequential damages arising from the use, misuse, or mounting of the device. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.
- 4) 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. CANDO reserves the right to make changes at any time without notice.

### **Service Information**

If you have any questions, please contact your local distributor or visit our website at [www.candointl.com](http://www.candointl.com)

If it becomes necessary to return the tool for repair, contact your local distributor for more information.