

**GEARWRENCH**

**USER MANUAL**

**Wireless Diagnostics Module, Vehicle  
Communication Interface  
V209**

**GWV209**

Apex Tool Group, LLC

Please read this user manual carefully before using the V209. When reading the manual, please pay attention to the words “Note” or “Caution” and read them carefully for appropriate operation.

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## Declaration

This manual is designed for the usage of the V209 and provides operating instructions and product descriptions for users of the V209.

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## **Operation Instructions**

For safe operation, please follow the instructions below:

- Keep the device away from heat or fumes when you are using it.
- If the vehicle battery contains acid, please keep your hands and skin or fire sources away from the battery during testing.
- The exhaust gas of the vehicle contains harmful chemicals, please ensure adequate ventilation.
- Do not touch the cooling system components or exhaust manifolds when the engine is running due to the high temperatures reached.
- Make sure the car is securely parked, Neutral is selected or the selector is at P or N position to prevent the vehicle from moving when the engine starts.
- Make sure the (DLC) diagnostic link connector is functioning properly before starting the test to avoid damage to the Diagnostic Tablet.
- Do not switch off the power or unplug the connectors during testing, otherwise, you may damage the ECU and/or the Diagnostic Tablet.

## **Cautions!**

- Avoid shaking or dismantling the unit as it may damage the internal components.
- Do not use hard or sharp objects to touch the LCD screen;
- Do not use excessive force;

- Do not expose the screen to strong sunlight for a long period.
- Please keep it away from water, moisture, high temperature, or very low temperature.
- If necessary, calibrate the screen before testing to ensure the accuracy of LCD performance.
- Keep the main unit away from strong magnetic fields.

## Aftersales-Services

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 Official Website: [www.xtooltech.com](http://www.xtooltech.com)

 Please provide your device serial number, VIN code, vehicle model, software version, and other details when seeking technical support.

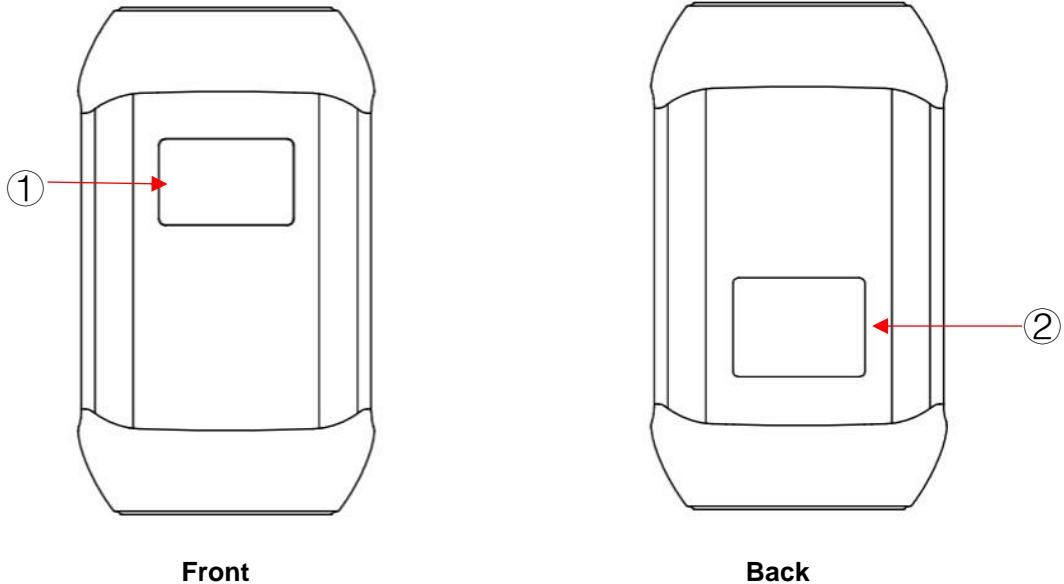
If there are screenshots or videos, it will better help us locate your problem.

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# 1 GENERAL INTRODUCTION

## Front/Back View of VCI BOX



- ① **Display Screen:** Show status of the V209 like battery voltage, Wi-Fi connection, and car communication status.
- ② **Nameplate:** Show basic information about the V209, like the serial number.
  - ① Make sure that you're using the V209 that is paired with the tablet, or it will not communicate. The serial number of the VCI box must be the same as the serial number of the tablet.

## Top/Bottom View of V209



- ① **DB15 Port:** Used to connect the V209 to the OBDII port on the vehicle.
- ② **USB-B Port:** Used to connect the V209 to the tablet.

## 2 TECHNICAL SPECIFICATIONS

Specification	
Item	Description
Display	1.54-inch, 128×64 resolution
Connectivity	<ul style="list-style-type: none"><li>● USB</li><li>● Wi-Fi</li></ul>
Ports	<ul style="list-style-type: none"><li>● USB type-B</li><li>● DB15</li></ul>
Input Voltage	12V DC
Operating Temperature	-10~50°C
Relative Humidity	< 90%
Dimensions	91.0×157.0×35.0 (mm)

## 3 DIAGNOSIS

The V209 connect to the vehicle through the main test cable. And V209 can connect the tablet via Wi-Fi and the USB Type-B

### VEHICLE Connection

The V209 should establish communication with the vehicle, and Wi-Fi should be connected between the tablet and the V209. Please follow the steps below.

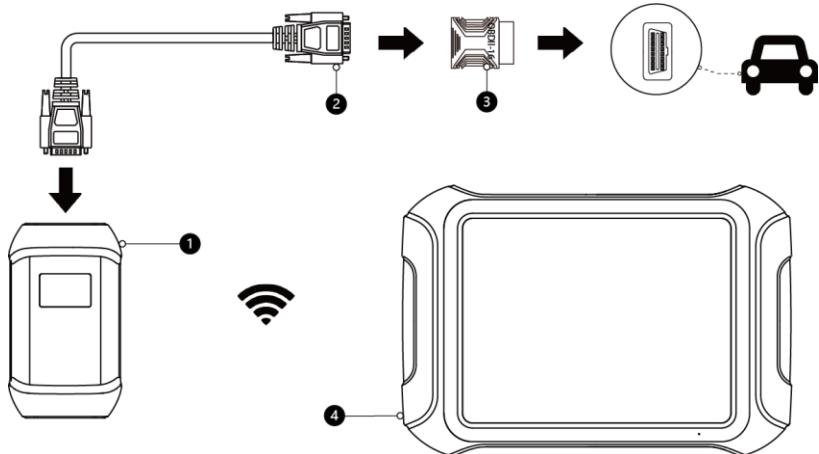
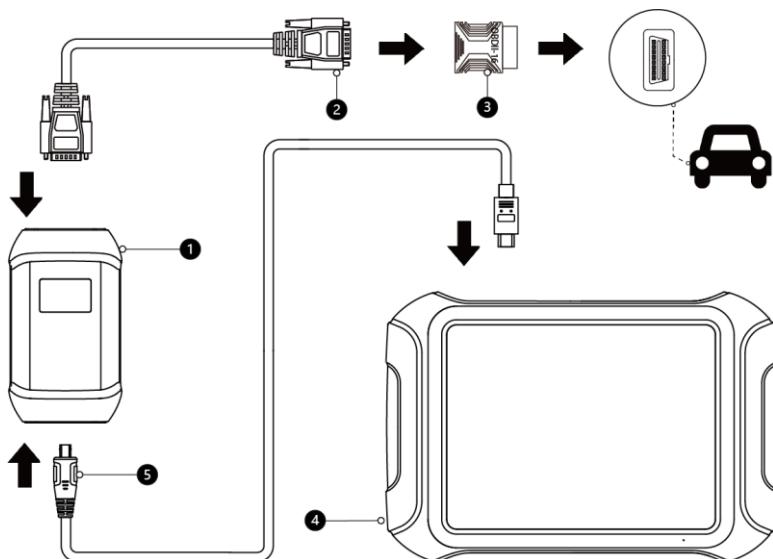


Fig 4-1

1. Turn on the tablet.
2. Connect the vehicle, the V209 and the tablet following the diagram below. Usually, the OBD port is located under the dashboard, inside driver's footwell.
3. Wait for the VCI box to communicate with the tablet, then click into the menus to perform the functions.

① If necessary, please connect the V209 with the tablet using the Type-C to Type-B cable, especially when working on some processes that needs to transfer lots of data.



## FCC Caution.

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.

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

Note: 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 equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

#### IC Warning

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference, and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil contient des émetteurs/récepteurs exemptés de licence qui sont conformes aux RSS exemptés de licence d'innovation, sciences et développement économique Canada. Le fonctionnement est soumis aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement

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

Tout changement ou modification non expressément approuvé par la partie responsable de la réglementation de l'OCDE peut faire perdre à l'utilisateur le droit d'utiliser l'appareil.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

L'appareil est conforme aux limites d'exposition aux radiations spécifiées par la FCC pour les environnements non contrôlés. La distance entre le radiateur et le corps doit être d'au moins 20 cm lors de l'installation et du fonctionnement de l'appareil.

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