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For Services and Support:

| | |
|---|--|
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For technical assistance in all other markets, please contact your selling agent.

Safety Information

For your own safety and the safety of others, and to prevent damage to the equipment and vehicles upon which it is used, it is important that the safety instructions presented throughout this manual be read and understood by all persons operating or coming into contact with the equipment.


There are various procedures, techniques, tools, and parts for servicing vehicles, as well as in the skill of the individual doing the work. Because of the vast number of test applications and variations in the products that can be tested with this instrument, we cannot possibly anticipate or provide advice or safety messages to cover every situation.


It is the automotive technician's responsibility to be knowledgeable of the system being tested. It is essential to use proper service methods and test procedures. It is important to perform tests in an appropriate and acceptable manner that does not endanger your safety, the safety of others in the work area, the equipment being used, or the vehicle being tested.

Before using the equipment, always refer to and follow the safety messages and applicable test procedures provided by the manufacturer of the vehicle or equipment being tested. Use the equipment only as described in this manual. Read, understand, and follow all safety messages and instructions in this manual.

Safety Messages


Safety messages are provided to help prevent personal injury and equipment damage. All safety messages are introduced by a signal word indicating the hazard level.

 **DANGER:** Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury to the operator or to bystanders.

 **WARNING:** Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury to the operator or to bystanders.

Safety Instructions

The safety messages herein cover situations Autel is aware of. Autel cannot know, evaluate or advise you as to all of the possible hazards. You must be certain that any condition or service procedure encountered does not jeopardize your personal safety.

 **DANGER:** When an engine is operating, keep the service area WELL VENTILATED or attach a building exhaust removal system to the engine exhaust system. Engines produce carbon monoxide, an odorless, poisonous gas that causes slower reaction time and can lead to serious personal injury or loss of life.

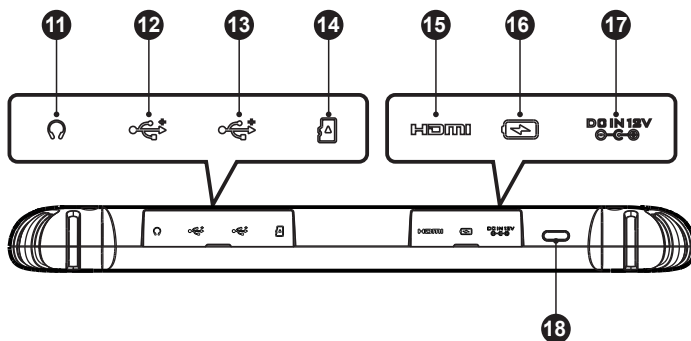
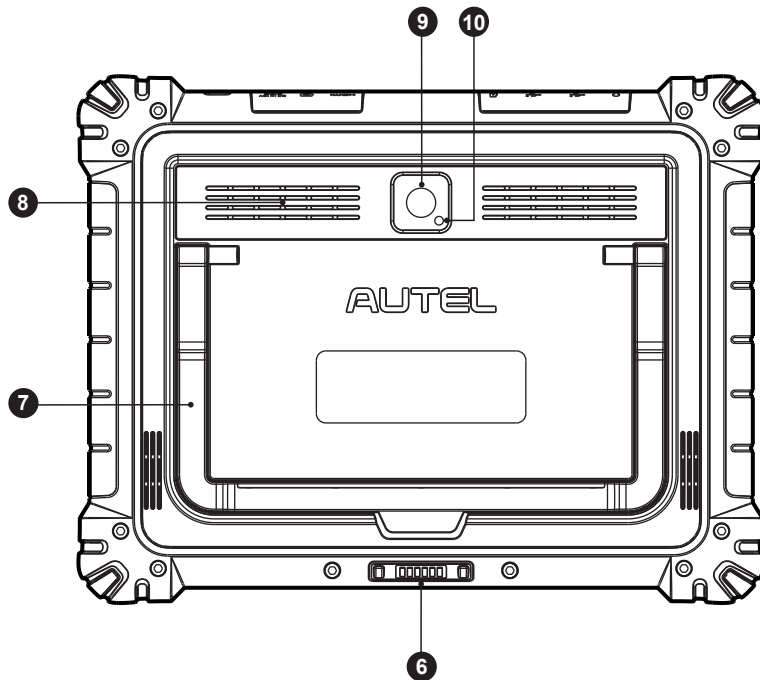
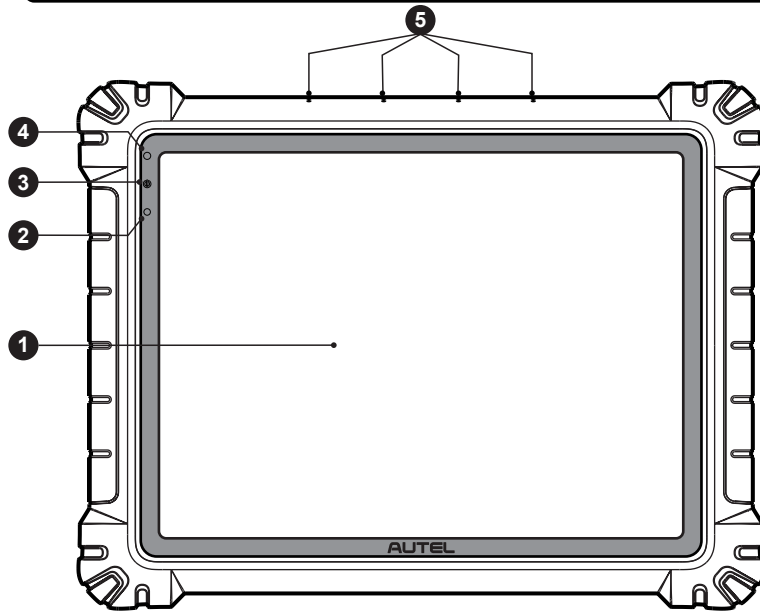
WARNINGS:

- Always perform automotive testing in a safe environment.
- Wear safety eye protection that meets ANSI standards.
- Keep clothing, hair, hands, tools, test equipment, etc. away from all moving or hot engine parts.
- Operate the vehicle in a well ventilated work area, for exhaust gases are poisonous.
- Put the transmission in PARK (for automatic transmission) or NEUTRAL (for manual transmission) and make sure the parking brake is engaged.
- Put blocks in front of the drive wheels and never leave the vehicle unattended while testing.
- Be extra cautious when working around the ignition coil, distributor cap, ignition wires and spark plugs. These components create hazardous voltages when the engine is running.
- Keep a fire extinguisher suitable for gasoline, chemical, and electrical fires nearby.
- Do not connect or disconnect any test equipment while the ignition is on or the engine is running.
- Keep the test equipment dry, clean, free from oil, water or grease. Use a mild detergent in a clean cloth to clean the outside of the equipment as necessary.
- Do not drive the vehicle and operate the test equipment at the same time. Any distraction may cause an accident.
- Refer to the service manual for the vehicle being serviced and adhere to all diagnostic procedures and precautions. Failure to do so may result in personal injury or damage to the test equipment.
- To avoid damaging the test equipment or generating false data, make sure the vehicle battery is fully charged and the connection to the vehicle DLC is clean and secure.
- Do not place the test equipment on the distributor of the vehicle. Strong electro-magnetic interference can damage the equipment.

NEXT LEVEL DIAGNOSTICS & MEASUREMENT SYSTEM

MaxiSys Ultra S2, MaxiSys Ultra EV S2, MaxiSys Ultra S2&ADAS, MaxiSys Ultra EV S2&ADAS,

MaxiSys Ultra S2 ADAS



PRODUCT DESCRIPTIONS

The MaxiSys system has two main components:

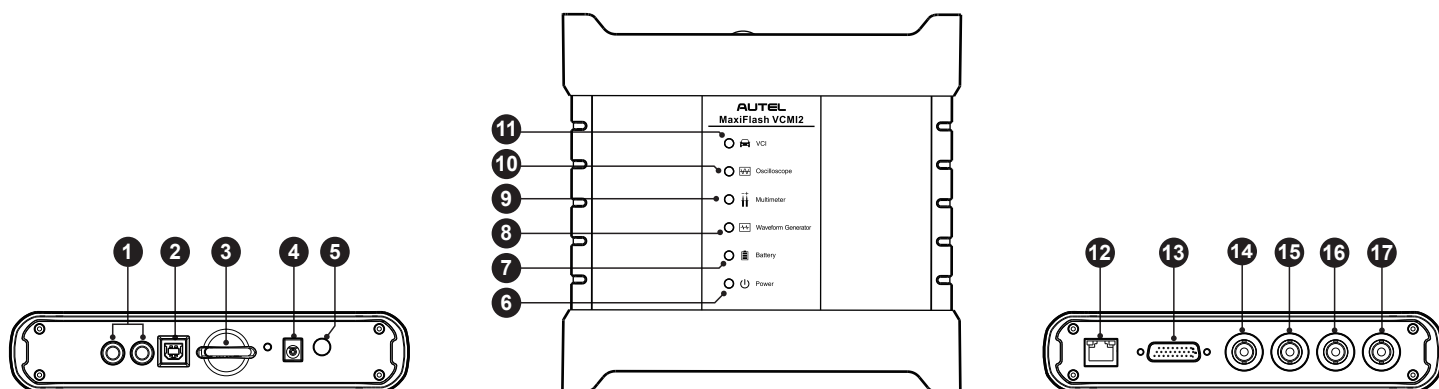
- MaxiSys Tablet — the central processor and monitor for the system
- MaxiFlash VCM12 — the vehicle communication and measurement interface

1. 13.7-inch TFT-LCD Capacitive Touchscreen
2. Ambient Light Sensor — detects ambient brightness
3. Power LED
4. Front Camera
5. Microphone

6. Docking Station Port
7. Collapsible Stand — extends from the back to allow hands-free viewing of the tablet
8. Speaker
9. Rear Camera
10. Camera Flash

11. Headphone Jack
12. USB Port
13. USB Port
14. Mini SD Card Slot
15. HDMI (High-Definition Multimedia Interface) Port
16. Type-C Charging Port
17. DC Power Supply Input Port
18. Power/Lock Button — long press to turn on & off the tablet, or short press to lock the screen

MAXISYS ULTRA S2



MaxiFlash VCMII2

1. Multimeter Jacks
2. USB Port
3. Hook
4. DC Power Supply Input Port
5. Power Button
6. Power LED — refer to Table 1-1 Power LED Description for details
7. Battery LED — refer to Table 1-2 Battery LED Description for details
8. Waveform Generator LED — lights green when operating in the waveform generator mode
9. Multimeter LED — lights green when operating in the multimeter mode
10. Oscilloscope LED — flashes green when operating in the oscilloscope mode
11. Vehicle LED — refer to Table 1-3 Vehicle LED Description for details
12. Ethernet Port
13. Vehicle Data Connector (DB26-Pin)
14. Input Channel A
15. Input Channel B
16. Input Channel C
17. Input Channel D



IMPORTANT: Do not disconnect this programming device while the vehicle LED is on! If programming is interrupted while the vehicle's ECU is blank or only partially programmed, the module may be unrecoverable.

Table 1-1 Power LED Description

| LED | Color | Description |
|-------|--------|---|
| Power | Yellow | Lights yellow automatically at power up when VCMII2 is self-testing. |
| | Green | Lights solid green when powered on. |
| | Red | <ul style="list-style-type: none"> Lights solid red when system failure occurs. Flashes red when VCMII2 is upgrading. |

Table 1-2 Battery LED Description

| LED | Color | Description |
|---------|--------|--|
| Battery | Green | <ul style="list-style-type: none"> Flashes green when VCMII2 is charging. Lights solid green when fully charged or the battery level is above 50%. |
| | Yellow | Lights yellow when the battery level is above 25% but below 50%. |
| | Red | <ul style="list-style-type: none"> Lights red when the battery level is above 10% but below 25%. Flashes red when the battery level is below 10%. |

Table 1-3 Vehicle LED Description

| LED | Color | Description |
|---------|-------|--|
| Vehicle | Green | <ul style="list-style-type: none"> Lights solid green when connected via USB cable. Flashes green when communicating via USB/Internet cable. |
| | Blue | <ul style="list-style-type: none"> Lights solid blue when connected via Internet cable/Bluetooth. Flashes blue when communicating via Bluetooth. |
| | Cyan | <ul style="list-style-type: none"> Lights solid cyan when connected via Wi-Fi. Flashes cyan when communicating via Wi-Fi. |

GETTING STARTED



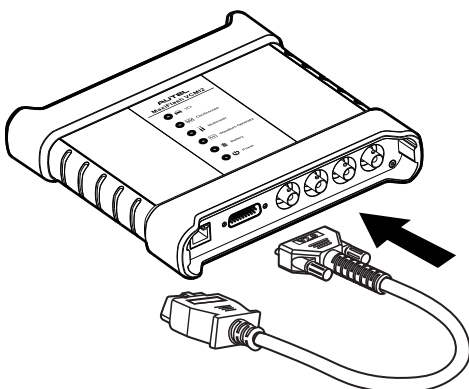
IMPORTANT: Before operating or maintaining this unit, please read these instructions carefully, paying extra attention to the safety warnings and precautions. Use this unit correctly and with care. Failure to do so may cause damage and/or personal injury and will void the limited product warranty.



WARNING: The MaxiFlash VCMII2 is compatible with Autel main cable V2.0 and USB cable V2 only.

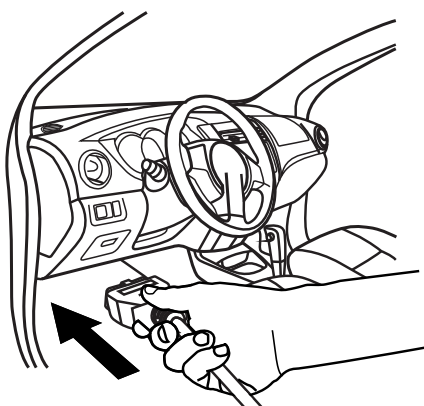
1

Connect the main cable V2.0 to the Vehicle Data Connector on the VCMII2, and tighten the thumb screws.



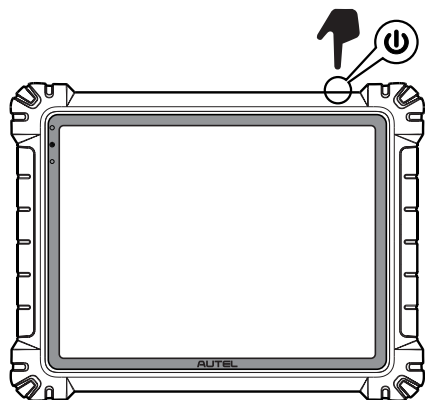
2

Connect the cable's 16-pin adapter to the vehicle's DLC, which is generally located under the vehicle dashboard.



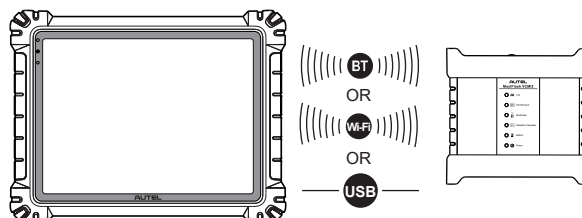
3

Power up the tablet. Ensure the tablet has a charged battery or is connected to the DC power supply.



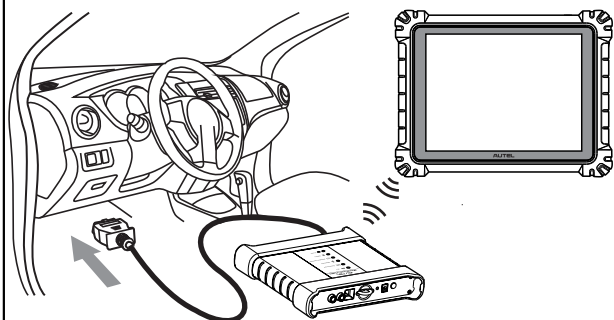
4

Select one of the three methods shown below, Bluetooth, Wi-Fi or USB cable V2, to connect the tablet with the VCMII2 and establish a communication link. Use only the USB cable connection when programming.



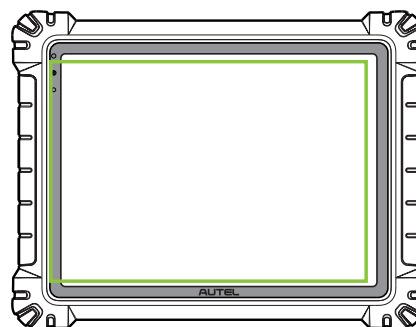
5

When the VCMII2 is properly connected to the vehicle and the tablet, the VCMII status button at the bottom bar on the screen shows a green badge, indicating the system is ready to start vehicle diagnosis.



6

The Measurement application enables testing of electrical wiring, circuits, and systems.



Thank you for purchasing Autel MaxiSys Ultra S2. Autel manufactures its tools to the highest standards. If properly maintained and used according to instructions, the MaxiSys system will provide years of trouble-free use.

FCC Statement

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

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.

RF Exposure Information:

FCC RF Exposure requirements: The highest SAR value reported under this standard during product certification for use next to the head with the minimum separation distance of 5mm. This transmitter must not be collocated or operating in conjunction with any other antenna or transmitter.

This product is compliance to FCC RF Exposure requirements and refers to FCC website <https://apps.fcc.gov/oetcf/eas/reports/GenericSearch.cfm> search for FCC ID: WQ8-DV2377

IC NOTICE TO CANADIAN USERS

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.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.


L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:


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

Operation of this device is restricted to indoor use only. (5150-5250MHz)
Le fonctionnement de cet appareil est limité à une utilisation en intérieur uniquement. (5150-5250MHz)

This EUT is compliance with SAR for general population/uncontrolled exposure limits in IC RSS-102 and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528 and IEC 62209. This equipment should be installed and operated with minimum distance 5 mm between the radiator and your body. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

Cet EST est conforme au SAR pour la population générale/limites d'exposition non contrôlées dans IC RSS-102 et a été testé conformément aux méthodes et procédures de mesure spécifiées dans IEEE 1528 et CEI 62209. Cet équipement doit être installé et utilisé à une distance minimale de 5 mm entre le radiateur et votre corps. Cet appareil et ses antennes ne doivent pas être situés ou fonctionner en conjonction avec une autre antenne ou un autre émetteur.

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|----------|------------|-----------|--|---------------|-----------------------|----------------------------------|
| | | | AUTEL 道通科技股份有限公司 Autel Intelligent Technology Corp.Ltd. | | TITLE: 快速指引 | |
| DIM | Sheetmetal | Machining | These Drawings And Specification Are The Property Of AUTEL And Shall NOT Be Reproduced Copied Or Used In Any Manner Without The Prior Written Consent Of AUTEL | DRAW: 汤清洪 | UNIT'S: 210x285 mm | DWGNO: |
| 0-6 | 0.10 | 0.05 | | CHKD: 兰金香 | FINISH: | AU PART NO.: 50000 |
| 6-30 | 0.15 | 0.10 | | STAD: | MASS(Kg): | |
| 30-120 | 0.25 | 0.15 | | APPD: 王永帅 | SCALE: | |
| 120-300 | 0.35 | 0.20 | | SHEET: 1 OF 1 | PRODUCT: Ultra S2 | |
| 300-600 | 0.50 | 0.25 | PROJ  | | | |
| 600-1200 | 0.60 | 0.30 | | | | |
| >1200 | 0.80 | 0.50 | | | | |
| ANG. | 1 - | 30' | | | | |