Autel Intelligent Tech TPMS609T Intelligent TPMS and Tire Service Tool User Manual

Autel Intelligent Tech TPMS609T Intelligent TPMS and Tire Service Tool User Manual

Contents

Trademarks

IMPORTANT

Before operating or maintaining this unit, please read this manual carefully, paying extra attention to the safety warnings and precautions.

For Services and Support


pro.autel.com
www.autel.com
www.maxitpms.com


1-855-288-3587/1-855-AUTELUS (North America)
0086-755-22672493/86532091 (China)


supporttpms@auteltech.com
For technical assistance in all other markets, please contact your local distributor.

Safety Information

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

There are various procedures, techniques, tools, and parts for servicing vehicles, as well as in the skill of the person doing the work. Because of the vast number of test applications and variations in the products that can be tested with this equipment, we cannot possibly anticipate or provide advice or safety messages to cover every circumstance. It is the automotive technician’s responsibility to be knowledgeable of the system being tested. It is crucial to use proper service methods and test procedures. It is essential to perform tests in an appropriate and acceptable manner that does no ten danger your safety, the safety of others in the work area, the device being used, or the vehicle being tested.

Before using the device, 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 device 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 that, if not avoided, will result in death or serious injury to the operator or to bystanders.


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

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 causess lower reaction time and can lead to serious personal injury or loss of life.

gSAFETY WARNINGS

- Always perform automotive testing in a safe environment.
- Wear safety eye protection that meets ANSI standards.
- Keep clothing, hair, hands, tools, test equipment 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, distribute or 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 on 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 ad here 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.

Using This Manual

This manual contains device usage instructions. Some illustrations shown in this manual may contain modules and optional equipment that are not included in your system. Contact your sales representative for availability of other modules and optional tools or accessories.

Conventions

The following conventions are used.

Bold Text

Bold text is used to highlight selectable items such as buttons and menu options.

- Tap OK.

Notes and Important Messages

 **Notes**
A NOTE provides helpful information such as additional explanations, tips, and comments. NOTE
New batteries reach full capacity after approximately 3 to5charginganddischarging cycles. Important

 **IMPORTANT** indicates a situation that, if not avoided, may result in damage to the test equipment or vehicle.

 **IMPORTANT**
Keep the cable away from heat, oil, sharp edges and moving parts. Replace damaged cables immediately.

Hyperlink

Hyperlinks or links that take you to other related articles, procedures, and illustrations are active in electronic documents. Blue italic text indicates as electable hyperlink and blue underlined text indicates a website link or an email address link.

Illustrations

Illustrations used in this manual are samples, the actual testing screen may vary for each vehicle being tested. Observe the menu titles and on-screen instructions to make correct option selection.

General Introduction

When it comes to ultra-portability, Maxi TPMS TS609 (hereinafter referred to as TS609) is your perfect companion. TS609 offers maximum convenience and swift diagnosis. The intuitive user interface makes using the device effortless through a 5.5-inch LCD touch screen that displays at 1280x720quality. Together with the ability to quickly read and clear Original Equipment Manufacturers (OEM) enhanced codes for TPMS module of the majority of the makes and models on the market, TS609 provides you with superior special functions for TPMS services with ease.

There are two main components of the TS609 system:

- TS609 Display Tablet – the central processor and monitor for the system.
- Maxi VCI VCI200 (Vehicle Communication Interface) –the device for accessing vehicle data.

This manual describes the construction and operation of both the devices and how they work together to deliver diagnostic solutions.

MaxiTPMS TS609 Display Tablet

Functional Description

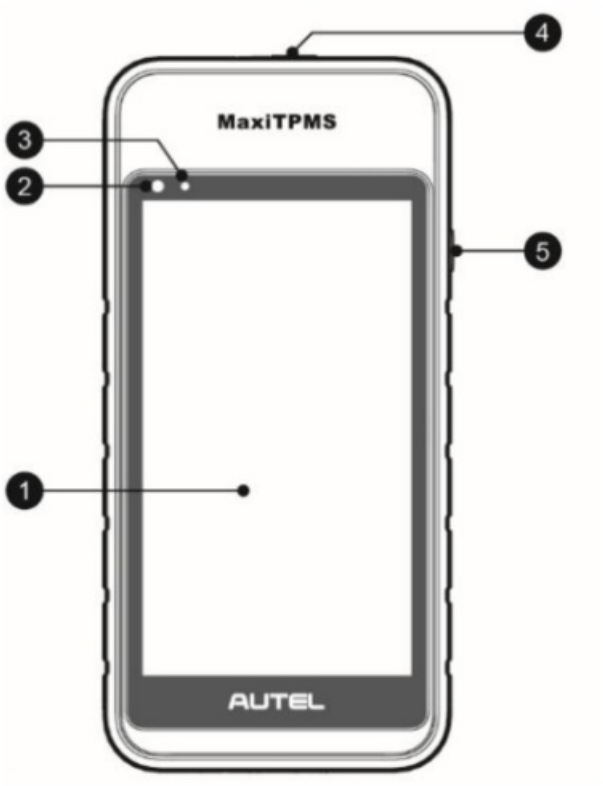


Figure 2-1 *Display Tablet Front View*

1. 5.5” LCD Capacitive Touchscreen
2. Ambient Light Sensor – detects ambient brightness.
3. Power LED – indicates battery level & charging or system status.
4. TPMS Service Symbol – indicates the position of the embedded TPMS antenna.
5. Lock/Power Button – long press button to turn tablet off and on. Quick press button to lock screen. The power LED displays green, yellow or red depending on the charging status and operating state:

   A. Green

   Illuminates green when the Display Tablet is fully charged.

   B. Yellow

   Illuminates yellow when the Display Tablet is charging.

   C. Red

   Illuminates red when the Display Tablet is powered on and when a problem is detected.

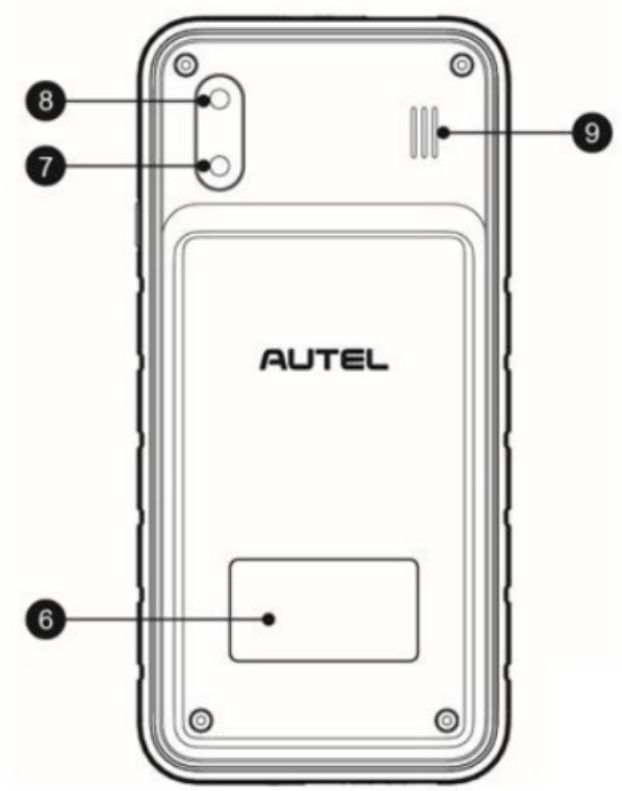


Figure 2-2 *Display Tablet Back View*

6. Sticker
7. Rear Camera
8. Camera Flash
9. Speaker

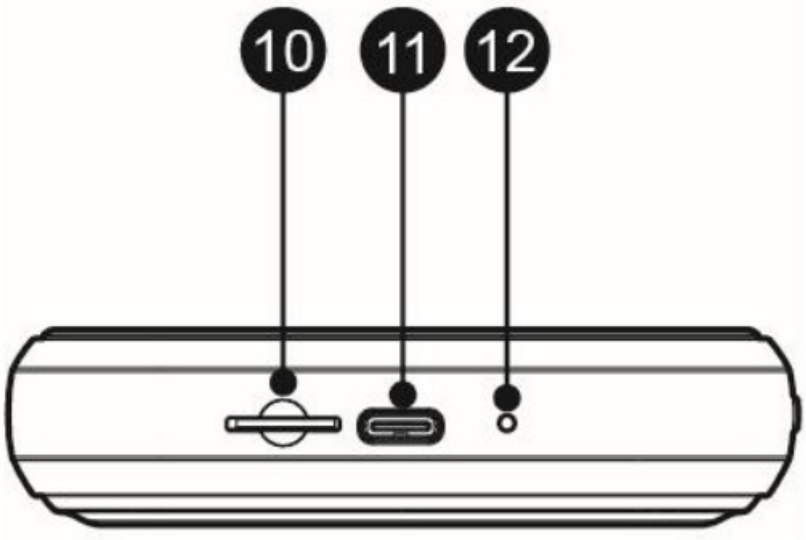


Figure 2-3 *Display Tablet Top View*

10. Micro SD Card Slot
11. Mini USB OTG Port
12. Microphone

Power Sources

The tablet can receive power from any of the following sources:

- Internal Battery Pack
- AC/DC Power Supply
- External Power Supply

Internal Battery Pack

The tablet can be powered with the internal rechargeable battery, which if fully charged can provide sufficient power for about 7 hours of continuous operation. AC/DC Power Supply

The tablet can be powered from a wall socket using the AC/DC power adapter. The AC/DC power supply also charges the internal battery pack.

Vehicle Power

The tablet can be powered from the cigarette lighter or other suitable power port on the test vehicle through a direct cable connection. The vehicle power cable connects to the DC power supply port on the top side of the display unit.

Technical Specifications

Table 2- 1 Specifications

Item	Description
Recommended Use	Indoor
Operating System	Android™ 9.0
Processor	Quad-core processor (1.5 GHz)
Memory	1GB RAM DDR4 & 32GB ROM
Display	5.5-inch LCD capacitive touchscreen with 1280×720 resolution
Connectivity	l Wi-Fi l USB 2.0, Type C l BT

Sensors	Light sensor for brightness auto adjust
Audio input/output	Input: N/A Output: Beep
Power and Battery	l 3.8 V/5000 mAh lithium-polymer battery l Charges via 5 V AC/DC power supply
Tested Battery Life	Around 7 hours of continuous use
Battery Charging Input	5 V/2 A
Power Consumption	600 mA (LCD on with default brightness, Wi-Fi on) @3.8 V
Operating Temp.	-10 to 55°C (32 to 131°F)
Storage Temp.	-20 to 70°C (-4 to 140°F)
Dimensions (W x H x D)	183.0 mm (7.2”) x 89.0 mm (3.5”) x 22.0 mm (0.87”)
Net Weight	368 g (0.8 lb.)

Protocols	ISO9141-2, ISO14230-2,ISO15765, K/L-Line, Flashing Code, SAE-J1850 VPW, SAE-J1850PWM, ISO11898 (High speed, Middle speed, Low speed and Single wire CAN, fault-tolerant CAN), SAE J2610,GM UART,UART Echo Byte Protocol, Honda Diag-H Protocol, TP2.0, TP1.6

MaxiVCI V200 – Vehicle Communication Interface

The wireless diagnostic interface MaxiVCI V200 is a small vehicle communication interface (VCI) used to connect to a vehicle's DLC and connect wirelessly with the tablet for vehicle data transmission.

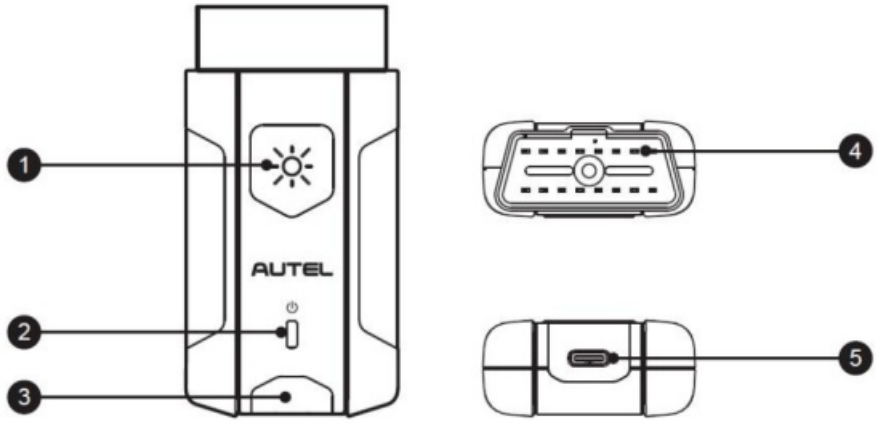


Figure 2-4 *MaxiVCI V200 Views*

Functional Description

1. Lighting Push Button
2. Power LED
3. Vehicle/Connection LED
4. Vehicle Data Connector (16-Pin) – connects the MaxiVCI V200tothevehicle's 16-pin DLC directly.
5. USB Port – provides the easiest connection between the device and the display tablet via a USB cable.

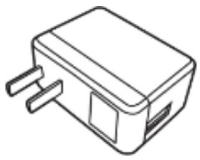
Technical Specifications

Table 2- 4 Specifications

Item	Description
Communications	l EDR l USB 2.0
Wireless Frequency	2.4 GHz
Input Voltage Range	6 V-36V DC
Supply Current	150 mA @ 12V DC
Operating Temp.	-10°C to 60°C (14°F to 140°F)
Storage Temp.	-40°C to 80°C -40°F to 176°F)
Dimensions (L x W x H)	89.89 mm (3.53”) x 46.78 mm (1.84”) x 21 mm (0.82”)
Weight	70.7g (0.156 lb.)
Built-in Battery	3.7V Lithium Battery
Light	White LED

Other Accessories

Table 2- 5 Accessories

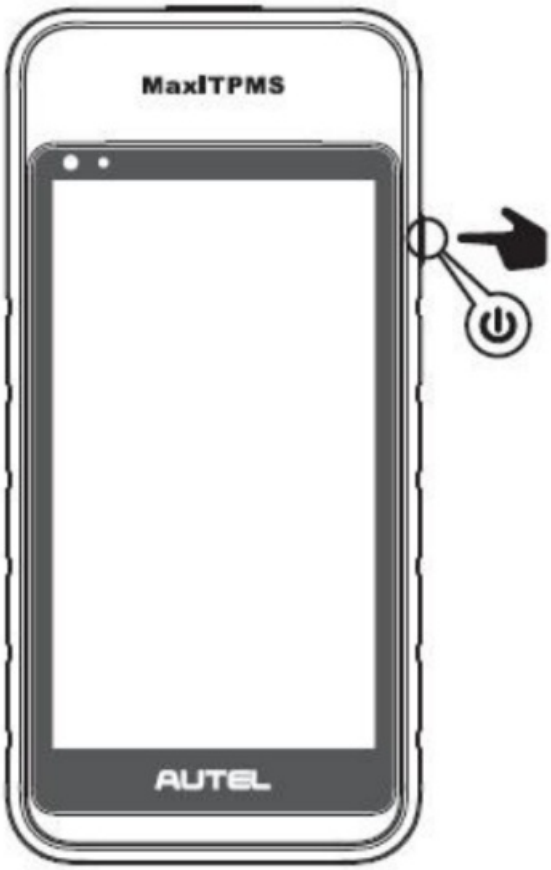
	**Power Adapter** Used with USB cable to charge BT608 via DC electrical outlet.
	**USB Cable** Connect to power adapter and to BT608. Use to charge unit.

Getting Started

Ensure the tablet is sufficiently charged or is connected to the external power supply.

Power up

- Press the Lock/Power button on the top right side of the tablet to power the tool on.

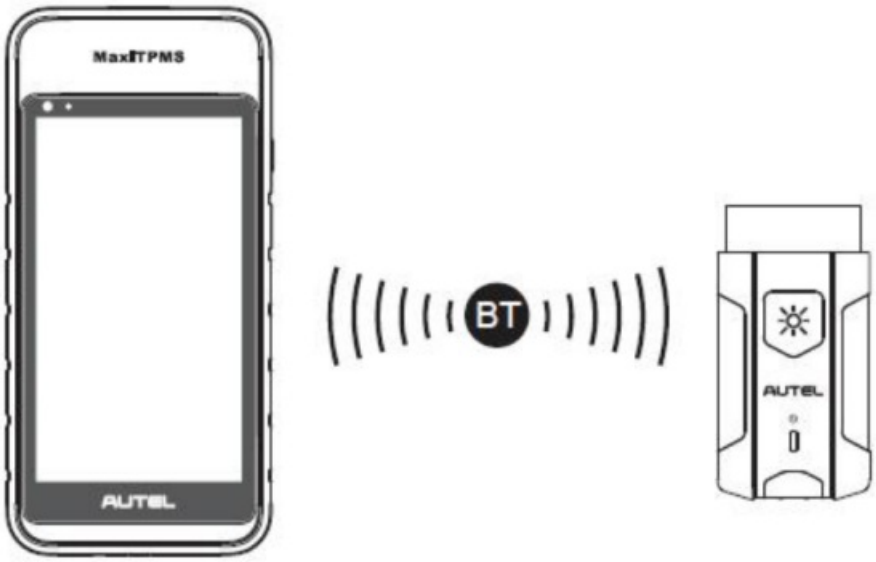


Register & log in

- Scan QR code to visit our website at **www.autel.com**.
- Create an Autel ID and register the product with your ID and password.

VCI Connection

- Connect the V200 VCI to the Vehicle’s OBDII port and put the vehicle ignition in the On position to pair it with theTS609andestablish a communication link with the vehicle.



Service Procedures

This section introduces information for technical support, repair service, and application for replacement or optional parts.

Technical Support

If you have any question or problem about the operation of the product, please contact us (see the following contact info) or your local distributor.

AUTEL CHINA HQ

- Phone: 0086-755-8614 7779
- Website: **www.autel.com**, **www.maxitpms.com**
- Email: **supporttpms@auteltech.com**
- Address: 6th-10th floor, Building B1, Zhiyuan, XueyuanRoad,Xili,Nanshan, Shenzhen, 518055, China

AUTEL NORTH AMERICA

- Phone: 855-AUTEL-US (855-288-3587) Monday-Friday 9am-6pmEST
- Website: **www.autel.com**, **www.maxitpms.com**
- Email: **ussupport@autel.com**
- Address: 175 Central Avenue, Suite 200, Farmingdale, NewYork, USA.11735

AUTEL EUROPE

- Phone: 0049 (0) 61032000522
- Website: **www.autel.eu**, **www.maxitpms.com**
- Email: **sales.eu@autel.com**, **support.eu@autel.com**
- Address: Robert-Bosch-Strasse 25, 63225, Langen, Germany

AUTEL SOUTH AMERICA

- Phone: (+507) 308-7566
- Website: **www.autel.com/es**, **www.maxitpms.com**
- Email: **sales.latin@autel.com**, **latsupport@autel.com**
- Address: Office 103, Building 3845, International BusinessPark,Veracruz, Panamá Pacífico, Panamá

AUTEL AUSTRALIA

- Phone: 03 9480 2978 / +61 476293327
- Website: **www.autel.com.au**, **www.maxitpms.com**
- Email: **sales@autel.com.au**
- Address: 155 Islington Street, Melbourne, Collingwood, VIC

Repair Service

If it becomes necessary to return your device for repair, please contact us first and then download the repair service form from **www.autel.com** and **www.maxitpms.com**, and fill it in. The following information must be included:

- Contact name
- Return address
- Telephone number
- Product name
- Complete description of the problem
- Proof-of-purchase for warranty repairs
- Preferred method of payment for non-warranty repairs

NOTE
For non-warranty repairs, payment can be made with Visa, Master Card, or with approved credit terms.

Send the device to your local agent, or to the below address:
8th Floor, Building B1, Zhiyuan, Xueyuan Road, Xili, Nanshan, Shenzhen,518055, China

Other Services

You can purchase the optional accessories directly from Autel's authorized tool suppliers, and/or your local distributor or agent.

Your purchase order should include the following information:

- Contact information
- Product or part name
- Item description
- Purchase quantity

Compliance Information

This device complies with Part 15 of the FCC rules and Industry Canada's license-exempt RSSs. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

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

SAR

The radiated output power of this device is below the FCC radio frequency exposure limits. Nevertheless, the device should be used in such a manner that the potential for human contact is minimized during normal operation.

The exposure standard for wireless devices employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/Kg. Tests for SAR are conducted using standard operating positions accepted by the FCC with the device transmitting at its highest certified power level in all tested frequency bands.

Although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value. This is because the device is designed to operate at multiple power levels so as to use only the power required to reach the network. To avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to antenna should be minimized.

RF WARNING STATEMENT
The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

RoHS COMPLIANCE
This device is declared to be in compliance with the European RoHS Directive 2011/65/EU.

CE COMPLIANCE

This product is declared to conform to the essential requirements of the following Directives and carries the CE mark accordingly:
EMC Directive 2014/30/EU
R&TTE Directive 1999/5/EC
Low Voltage Directive 2014/35/EU

Warranty

Limited One Year Warranty

Autel Intelligent Technology Corp., Ltd. (the Company) warrants to the original retail purchaser of this MaxiTPMS Diagnostic Device that should this product or any part thereof during normal usage and under normal conditions be proven defective in material or workmanship that results in product failure within one year period from the date of purchase, such defect(s) will be repaired, or replaced (with new or rebuilt parts) with Proof of Purchase, at the Company's option, without charge for parts or labor directly related to the defect(s). The Company 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 limitation on how long an implied warranty lasts, so the above limitations may not apply to you.

This warranty does not apply to:

1. Products subjected to abnormal use or conditions, accident, mishandling, neglect, unauthorized alteration, misuse, improper installation or repair or improper storage;
2. Products whose mechanical serial number or electronic serial number has been removed, altered or defaced;
3. Damage from exposure to excessive temperatures or extreme environmental conditions;
4. Damage resulting from connection to, or use of any accessory or other product not approved or authorized by the Company;
5. Defects in appearance, cosmetic, decorative or structural items such as framing and non-operative parts.
6. Products damaged from external causes such as fire, dirt, sand, battery leakage, blown fuse, theft or improper usage of any electrical source.

IMPORTANT
All contents of the product may be deleted during the process of repair. You should create a back-up copy of any contents of your product before delivering the product for warranty service.

FCC STATEMENT

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.

Warning: 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

RF warning statement:

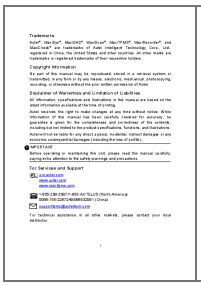
The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

1. (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."

To comply with RF exposure requirements, a minimum separation distance of 0mm is used between the user's body and the equipment, including the antenna.

Documents / Resources

	Autel Intelligent Tech TPMS609T Intelligent TPMS and Tire Service Tool [pdf] User Manual TPMS609T, WQ8TPMS609T, TPMS609T Intelligent TPMS and Tire Service Tool, Intelligent TPMS and Tire Service Tool

References

- pro.autel.com
- Home | AUTEL
- Autel Australia Store
- Home-AUTEL
- Home - Autel Europe
- TPMS Home | Autel