

AUTEL[®]

MaxiTPMS TBE200E EU



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IMPORTANT

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

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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 understood 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 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 not endanger 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. Be sure to 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.

Safety Instructions

The safety messages herein cover situations Autel is aware of at the time of publication. 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.

SAFETY 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, 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 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 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.

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1 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.

1.1 Conventions

The following conventions are used:

1.1.1 Bold Text

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

Example:

Tap **OK**.

1.1.2 Notes and Important Messages

Notes

A **NOTE** provides helpful information such as additional explanations, tips, and comments.

Important

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

1.1.3 Hyperlink

Hyperlinks are available in electronic documents. Blue italic text indicates a selectable hyperlink and blue underlined text indicates a website link or an email address link.

1.1.4 Illustrations

Illustrations used in this manual are examples; actual testing screens may vary for each vehicle being tested. Observe the menu titles and on-screen instructions to make the right selections.

1.1.5 Procedures

An arrow icon indicates a procedure. For example:

➤ **To perform a Tire Tread Check**

1. Tap the **Tire Tread** application on the Job Menu.
2. Select a check mode when prompted.
3. Place the tool on the tire surface and tap the **Power/Measure** button to start measuring.
4. The measurement will display on the screen.
5. Select a tire location on the screen, and swipe left to view details and scroll down on the Details screen to view additional information including tread wear analysis and maintenance suggestions.

2 General Introduction

The MaxiTPMS TBE200E EU (hereinafter referred to as “the tool”) is a laser-enabled tire tread depth examiner that provides users with quick and accurate wear measurements, which are displayed graphically. The tool’s dual cameras enable users to capture tire wear and perform Tire Identification Number (TIN) scan. Use it separately, or with a compatible Autel tool such as the ITS600 to view and print detailed reports.

This manual describes the construction and operation of the tool and how it works to measure the tire tread depth.

2.1 TBE200E EU Examiner

2.1.1 Function Description

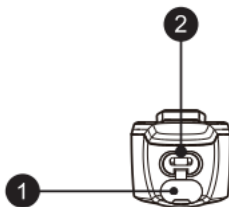


Figure 2-1 Examiner Top View

1. USB Rubber Plug
2. Type-C USB Port

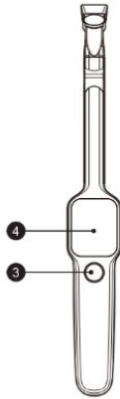


Figure 2-2 Examiner Front View

3. Power/Measure Button — press and hold this button for 3 seconds to power the tool on or off; select the desired application and press the button to take measurements.
4. 1.65-inch AMOLED Screen

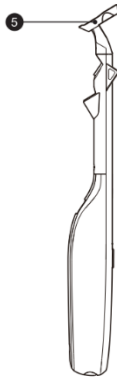


Figure 2-3 Examiner Side View

5. Magnetic Head

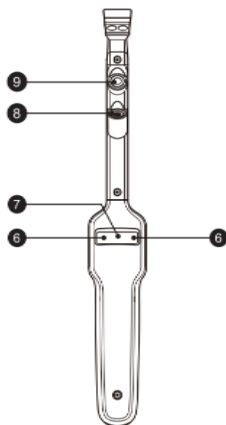


Figure 2-4 Examiner Back View

6. Camera Flash
7. 8-megapixel Camera
8. Laser Diode
9. 1-megapixel Camera

2.1.2 Power Sources

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

- Internal Battery Pack
- AC/DC Power Supply

2.1.2.1 Internal Battery Pack







The tool can be powered by its internal rechargeable battery, which theoretically, when fully charged can provide sufficient power for about 8 hours of continuous operation.

2.1.2.2 AC/DC Power Supply

The tool can be powered from a wall socket using its AC/DC power supply. The AC/DC power supply also charges the tool's internal battery.

2.1.3 Technical Specifications

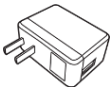


Table 2-1 Technical Specifications

Item	Description
Product Name	Tire Tread Examiner
Laser Classification	Class 3R Laser Product IEC 60825-1:2014
Wave Length At Peak Emission	520 nm
Labelling	<p style="text-align: center;"> AUTEL[®] Tire Tread Examiner MaxiTPMS TBE200E EU RoHS PSN: TB30L8C1001 Rate:5V=1.5A Made in China </p> <div style="display: flex; justify-content: center; align-items: center; gap: 10px;">     </div> <div style="text-align: center; margin-top: 20px;">  <p style="text-align: right; font-size: small;">IEC 1072/14</p> </div> <div style="text-align: center; margin-top: 20px;">  </div>
Processor	4 x ARM Cortex-A35 (1.5 GHz)
Memory	1 GB RAM LPDDR3 & 4GB On-board Memory

Item	Description
Display	1.65-inch AMOLED touchscreen with 348 x 442 pixel resolution
Connectivity	<ul style="list-style-type: none"> ● Wi-Fi ● Type-C USB
Micro-cameras	CMOS, 1 megapixel & 8 megapixel
Audio Output	Beep with vibration
Battery	3.7 V/3000 mAh 18650 lithium-ion battery
Tested Battery Life	Around 8 hours of continuous use when fully charged
Battery Charging Input	5 V/1.5 A
Power Consumption	300 mA (AMOLED on with default brightness) @3.7 V
Operating Temp.	-10 to 50 °C (14 to 122 °F)
Storage Temp.	-20 to 60 °C (-4 to 140 °F)
Dimensions (W x H x D)	283.0 mm (11.14") x 39.0 mm (1.54") x 33.5 mm (1.32")
Net Weight	188 g (0.41 lb.)

2.2 Other Accessories

Table 2-2 Accessories

 A rectangular power adapter with two prongs on the left side.	<p>Power Adapter Used with USB cable to charge the tool via electrical outlet.</p>
 A coiled USB cable with a Type-C connector on one end and a standard USB-A connector on the other.	<p>Type-C USB Cable Connect between the power adapter and the tool for charging.</p>
 A rectangular calibration table with a central slot and two small circular indicators on either side.	<p>Calibration Table Used to calibrate your examination tool for optimal measuring results.</p>

3 Getting Started

Ensure the tool is connected to the Internet and is sufficiently charged (See [Power Sources](#)). The product should avoid the exposure of direct light, such as sunlight, close-ranged torch light, or flashlight, during the operation of tire tread check and calibration.

3.1 Power Up

Press and hold the **Power/Measure** button on the tool to switch it on. The system will boot up and display the TBE200E EU Job Menu.



Figure 3-1 TBE200E EU Job Menu

1. System Status Icons
2. Application Buttons
3. Locator






3.1.1 System Status Icons

As the MaxiTPMS TBE200E EU runs on the Linux operating system, you may refer to Linux documents for additional information.

3.1.2 Application Buttons

The table below briefly describes each of the applications on the TBE200E EU's Job Menu:

Table 3-1 Application Buttons

Button	Name	Description
	Tire Tread	Accesses the tool's tire-tread check function. See Tire Tread Check for details.
	Check Settings	Adjusts settings for check sessions. See Check Settings for details.
	Data Query	Displays data from previous measurements and generates reports. See Data Query for details.
	Settings	Accesses the Settings menu. See Settings for details.
	Sys. Calibration	Calibrates the measurement system. See System Calibration for details.

3.1.3 Locator

The Locator icon displays at the bottom of the TBE200E EU Job Menu. Swipe the screen left or right to view the previous or next screen.

4 Tire Tread Check

Using laser technology, the Tire Tread application analyzes the wear of the tires on vehicles without needing to remove the tires. Place the tool on the tire, and the tool projects a laser beam. The wear measurement is then sent to the display screen with an accuracy within 0.1 mm. Measurements are also displayed graphically.

The Tire Tread application provides two types of checks: All Tread Check Mode and Single Check Mode. When using this application, a message will display prompting the user to choose between the current mode and the alternative one. You can configure your default check mode under the Check Settings. Refer to [Check Settings](#) for additional information.

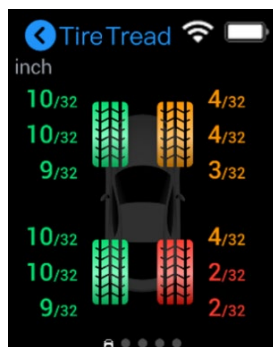






Figure 4-1 *Tire Tread Check Screen*

Degrees of tire wear are represented by different colors as displayed below:

Table 4-1 *Possible Results for Measurements*

Icon	Results	Description
 (Gray)	Unchecked.	The tire is unchecked.
 (Green)	Normal.	Please check regularly.

Icon	Results	Description
 (Yellow)	Warning: wear level is approaching critical value.	Replacement recommended.
 (Red)	Danger: severe tire wear.	Replace immediately.

4.1 Check Modes

There are two check modes available under the Tire Tread application:

- Single Check Mode
- All Tread Check Mode

4.1.1 Single Check Mode

The Single Check Mode measures the wear of each tire on the vehicle by examining the tread depth in the central area of the tire only. Unlike the All Tread Check Mode, the Single Check Mode only provides one measurement for each tire.

4.1.2 All Tread Check Mode

The All Tread Check Mode examines your tire wear in three separate areas (outer, middle, and inner) for a more comprehensive analysis.

➤ To perform a Tire Tread Check

1. Tap the **Tire Tread** application on the Job Menu.
2. Select a check mode when prompted.
3. Place the tool on the tire surface and tap the **Power/Measure** button to start measuring.
4. The measurements will display on the screen.
5. Select a tire location on the screen, and swipe left to view details and scroll down on the Details screen to view additional information including tread wear analysis and maintenance suggestions.

NOTE

For optimal measurements, ensure the magnetic head is attached to the tread and that the laser line is perpendicular to the groove being measured.

4.2 Details

The Details screen shows a wide variety of tire wear information. After the measurements are shown on the screen, select a tire location, and swipe left to view the details of the chosen tire.

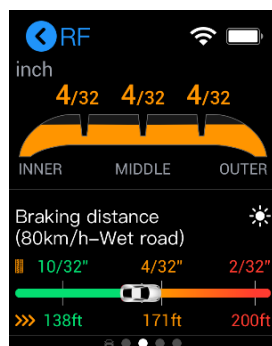


Figure 4-2 Details Screen

Below are the main sections featured in the Details section:

- Graphic measurements — shows the measurement data graphically with various colors indicating different degrees of tire wear.

The graphic measurements of the All Tread Check Mode display the wear measurements of three areas of the tire: inner, middle, and outer. The Single Check Mode displays only one measurement for each tire.

- Braking distance — displays the stopping distance for the test vehicle based on both the tire tread depth and tire type selected. This section is followed by wear analysis and maintenance suggestions.

In the Single Check Mode or All Tread Check Mode, the following three tire-related sections are provided:

- Visual Inspection — select the tire condition by visual observation. The selectable tire condition includes normal, worn, and bulge. Moreover, photos can be taken for better judge and later viewing.
- Tire DOT — scan or manually enter the tire DOT serial number located on the sidewall to acquire basic tire characteristics such as the tire age.
- Tire Specification — view a series of options and manually enter the tire information, including brand, size, and structure type code.

5 Check Settings

Tap the **Check Settings** application on the Job Menu, and a list of options will display. Adjust these tire-related settings to your preference for optimal All Tread Check Mode and Single Check Mode results.

5.1 Number of tires

The default number of tires is four. If the vehicle has six tires, make sure to adjust the number of tires to six before measuring the tire tread depth.

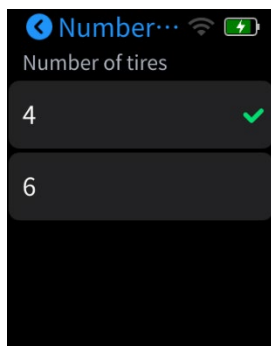


Figure 5-1 *Selecting the Number of Tires*

5.2 Unit

This option allows you to adjust the measurement units for the tire tread checks. Simply select the appropriate measurement unit: metric or imperial. A check mark will display to the right of the active selection.

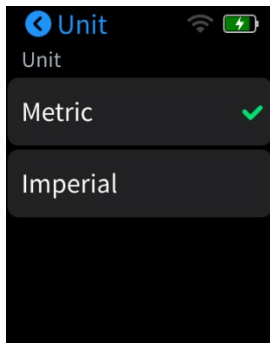


Figure 5-2 *Selecting the Display Unit*

5.3 Tire Type

The Tire Type setting is to choose the right type of the tire for the vehicle. Three tire types are available: Summer, Winter, and All Season. Select a tire type. A check mark will display to the right of the active selection.

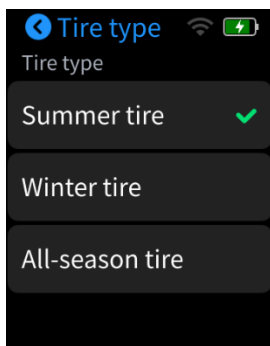


Figure 5-3 *Selecting the Tire Type*

5.4 Tread Check Mode

This option allows you to choose between Single Check Mode and All Tread Check Mode before initiating a tread check measurement. After choosing the check mode, a check mark will display to the right of the active selection.

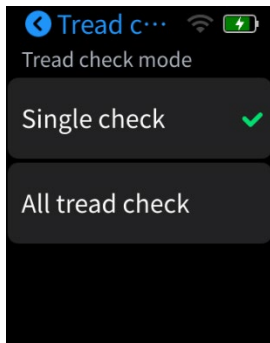


Figure 5-4 *Selecting the Tread Check Mode*

5.5 Tread Wear Limit

This option allows you to set the tread wear limit for each tire during the tire tread checks. Under the default settings, when the tread depth is less than or equal to 3.2 mm, it indicates the tire replacement is recommended. Or when the tread depth is less than or equal to 1.6 mm, it indicates the tire should be replaced immediately. You can adjust the limit values according to the actual situation.

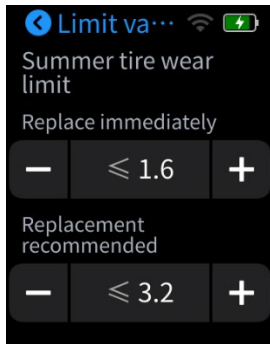


Figure 5-5 *Setting the Tread Wear Limit*

6 Data Query

The Data Query function stores the results of the latest measurement session, allows you to generate a QR code for the measurement report, and stores the generated reports.

The TBE200E EU can also connect with the ITS600 series tablets and the measurements of the latest session will display on the tablet screen automatically.

NOTE

- To use the Generate Report and Report Query functions, you need to update the TBE200E EU device software to V01.19.00 or later. For update details, see [Update](#).
 - To use the Generate Report function, the device needs to be connected to the network.
-

6.1 Last Test

The Last Test function allows you to view the measurement results of the previous session and generate a QR code for the results. You can use mobile device to scan the QR code and download the result report.

➤ To generate and download the measurement result report

1. Perform a tire tread check by referring to [Tire Tread Check](#).
2. Tap **Data Query > Last Test** to view the latest measurement result.
3. Scroll up and tap **Generate Report**.

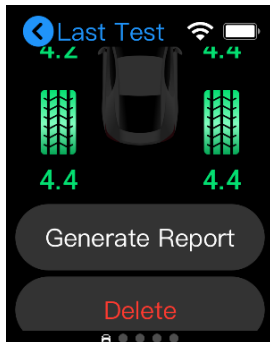


Figure 6-1 Last Test Screen

4. On the Generating Report screen, select or enter the vehicle information to associate the vehicle with the measurement data, and tap **Next** to generate a QR code.

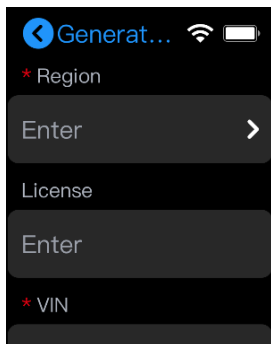


Figure 6-2 Generating Report Screen

5. After the QR code is successfully generated, tap **Check**.
6. Use your mobile device to scan the QR code and download the report.

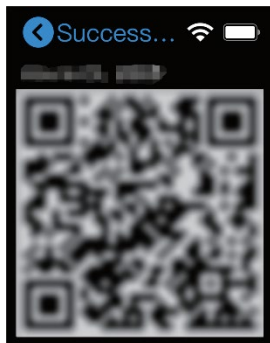


Figure 6-3 QR Code Screen

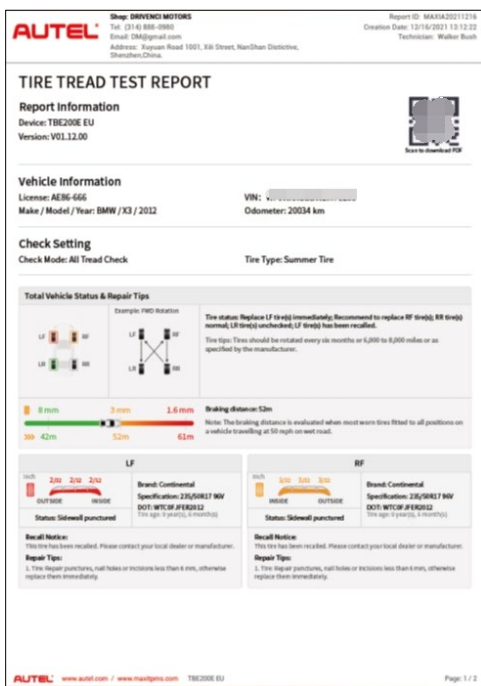


Figure 6-4 Test Report 1



Figure 6-5 Test Report 2

6.2 Report Query

The Report Query function displays the generated reports, including Upload Complete (successfully uploaded records) and Upload Incomplete (uploading failed records). A maximum of 10 records of each type can be saved.

➤ **To view the generated reports**

1. Tap **Data Query > Report Query** to view the latest measurement result.

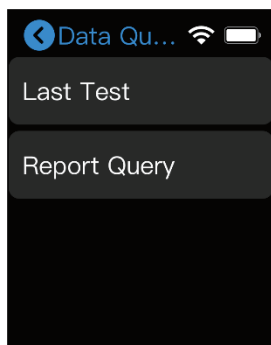


Figure 6-6 Data Query Screen

2. Tap a successful record to view its corresponding QR code. Or tap a failed record to view the original test data. You can tap **Regenerate Report** to generate the QR code.

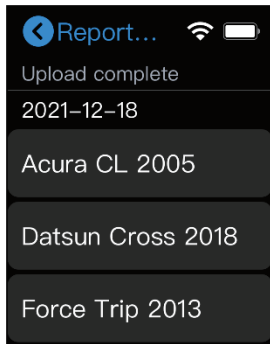


Figure 6-7 Report Query Screen

7 Settings

Access the Settings menu to adjust the default settings and view the information about the TBE200E EU. The Settings menu includes the following:

7.1 Workshop Information

This option allows you to enter, edit, and save the detailed workshop information, including the workshop name, phone number, email, and address.

7.2 Required Options Settings

This option affects the information shown in the reports. After it is turned on, the region, VIN, make, model, and year in the report will be set as required options.

7.3 Network Connection

This option is for connecting the tool to the Internet. There are two network types available: Wi-Fi and Wi-Fi Direct. Simply swipe the toggle to turn it on.

NOTE

Ensure you turn on both the Wi-Fi and Wi-Fi Direct toggles when pairing the tool with the ITS600/ITS600 Pro tablet for comprehensive inspection reports.

7.4 Language and Region

This option allows you to switch the display language and adjust the region for the TBE200E EU. Select the region where you will be using the device. A check mark will display to the right of the selected region.

7.5 Brightness

This option allows you to adjust the screen brightness manually. Tap on the brightness icon on the right to brighten the screen and tap the icon on the left to dim the screen.

7.6 Sleep

This option allows you to set the amount of time before your tool goes into “sleep/low-power mode” to conserve battery life. There are three options available for selection (30, 60, and 120 seconds).

7.7 Automatic Shutdown

This option allows you to adjust the time (in minutes) before your tool automatically powers off. There are four options available for selection (5, 10, 15, and 20 minutes). After adjusting this setting, a check mark will display to the right of the active selection.

7.8 About

The About function provides information about the tool, including the manufacturer, model name, serial number, password, firmware version, and Wi-Fi MAC.

7.9 Update

The update option displays the latest software updates available for the tool. Before updating the software, the tool’s network connection is stable. When a software update is available, a red dot will display atop the Settings icon in the upper-right corner of the Job Menu. Tap **Update** to install the software.

NOTE

When updating the software, ensure the tool is connected to the Internet and that its battery is charged to at least 50 percent or is connected to a power outlet.

7.10 Restore Operation Guide

The tool provides on-screen instructions to improve user experience. In the course of operation, if you choose not to display the operation guide, then the operation guide will not be displayed next time. If you need the operation guide, tap **Restore Operation Guide** on the Settings screen. When “Recovery succeeded” is displayed on the screen, it indicates the operation guide is restored and will display on the screen next time.

7.11 Restore Factory Settings

Restore Factory settings enables you to restore your tool to its original factory settings. Once restored, all the personal data will be deleted; the tread wear limit data adjusted will be restored to the defaults; and the initial setup instructions displayed when first used will display.

8 System Calibration

The System Calibration application is used to calibrate your tool for optimal measuring results.

On the Job Menu, tap the **Sys. Calibration** icon and place the magnetic head on the calibration table. Press the **Power/Measure** button to start calibration. Wait for 1–2 minutes until the calibration is complete.

Calibration is recommended every two months. Immediate calibration should be performed when deviations are detected or when the tool is dropped or mishandled in any manner.

! IMPORTANT

Before the system calibration, keep the magnetic head dry and clean from dirt, dust, water stain, or oil, which may affect the calibration result.

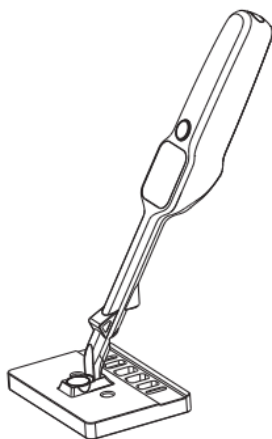


Figure 8-1 System Calibration

9 Maintenance and Service

To ensure that the tool performs at its optimum level, we advise that the product maintenance instructions in this section are strictly followed.

9.1 Maintenance Instructions

The following shows how to maintain your tool, together with precautions you should take:

- Use a soft cloth and alcohol or a mild window cleaner to clean the touch screen of the tool.
- Do not use any abrasive cleansers, detergents, or automotive chemicals on the tool.
- Keep the tool in dry conditions and within specified operating temperatures.
- Dry your hands before using the tool. The touch screen may not work if the touch screen is moist, or if you tap the touch screen with wet hands.
- Do not store the tool in humid, dusty or dirty areas.
- Check the housing, wiring, and connectors for dirt and damage before and after each use.
- Do not attempt to disassemble the tool.
- Do not drop or cause severe impact to the tool.
- Use only authorized battery chargers and accessories. Any malfunction or damage caused by the use of unauthorized battery chargers and accessories will void the product warranty.
- Ensure that the battery charger does not come in contact with conductive objects.
- Do not use the tool beside microwave ovens, cordless phones and some medical or scientific instruments to prevent signal interference.

9.2 Troubleshooting Checklist

- A. When the tool does not work properly:
- Make sure the tool has been registered online.
 - Make sure the system software is properly updated.
 - Make sure the tool is connected to the Internet.
 - Check all cables, connections, and indicators to see if the signal is being received.
- B. When you cannot turn on the tool:
- Make sure the tool is connected to a power source or the battery is charged.
- C. When you are unable to charge the tool:
- Your charger may be out of order. Contact your nearest dealer.
 - You may be attempting to use the tool in an overly hot/cold environment. Charge the tool in moderate temperatures.
 - Your tool may have not been connected to the charger properly. Check the connector.

 **NOTE**

If the problems persist, please contact Autel's technical support personnel.

10 Service Procedures

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

10.1 Technical Support

If you have any question or problem on product operations, please contact us.

- **Phone:** +86 (0755) 8614-7779 (Monday-Friday, 9AM-6PM Beijing Time)
- **Email:** supportpms@auteltech.com
- **Address:** Floor 2, Caihong Keji Building, 36 Hi-tech North Six Road, Songpingshan Community, Xili Sub-district, Nanshan District, Shenzhen City, China
- **Web:** www.autel.com, www.maxitpms.com

10.2 Repair Service

If it becomes necessary to return your device for repair, please contact us first and then download a Repair Service Form from www.autel.com or 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 repairs under warranty
- 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 the following address:

Floor 2, Caihong Keji Building, 36 Hi-tech North Six Road, Songpingshan Community, Xili Sub-district, Nanshan District, Shenzhen City, China

10.3 Other Services

You can purchase optional accessories directly from Autel authorized tool suppliers.

Your purchase order should include the following information:

- Your contact information
- Product or part name
- Item description
- Purchase quantity

11 Compliance Information

11.1 RoHS Compliance

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

11.2 CE Compliance

This product is declared to conform to the essential requirements of the following directives and carries the CE mark accordingly:

RED Directive 2014/53/EU

12 Warranty

Limited One Year Warranty

Autel Intelligent Technology Corp., Ltd. (the Company) warrants to the original retail purchaser of this MaxiTPMS Tire Tread Examiner 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.

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