VOLKSWAGEN

AKTIENGESELLSCHAFT

Operations manual

VAS 741 099

Content

Operating Instructions

Your Tire Pressure Monitoring (TPM) tool has been designed to be durable, safe, and reliable when properly used.
All TPMS TOOLS are intended for use only by qualified and trained automotive technicians or in a light industrial repair shop environment. Please read all instructions below before use. Always follow these safety instructions. If you have any questions pertaining to the safe or reliable use of this tool, please call your local dealer.

Declaration of Conformity

- ETSI EN 300 330-1 V1.8.1 (2015-03): Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz; Part 1: Technical characteristics and test methods.
- ETSI EN 300 330-2 V1.6.1 (2015-03): Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz; Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive.
BS EN 62479:2010:

Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz).

ATEQ

ATEQ TPMS is the number one world supplier in the TPMS field by supplying an entire range of TPM activation tools for both assembly lines and tire repair shops. Since the concept of TPMS, ATEQ has introduced the most advanced technological features to distributors and suppliers worldwide.

Notes for the Operator

All warnings on the tool and in this manual should be adhered to. All operating instructions should be followed. The safety and operating instructions should be retained for future reference.

Hazard Warnings

DANGER		This product emits electromagnetic and electronically generated waves that may interfere with the safe operation of pacemakers. Individuals that have pacemakers should never use this product
WARNING		To reduce the risk of fire, do not operate the tool in the vicinity of open containers or flammable liquids. Do not use if the potential for explosive gas or vapors exists. Keep the tool away from heat generating sources. Do not operate the tool with the battery cover removed.
CAUTION		Users and bystanders must wear safety goggles and must read instructions before use. Do not use on live electrical circuits, risk of entanglement. Do not use or store the tool in an area where it is exposed to direct sunlight or excessive moisture. Do not use this tool where contact or immersion in water is a possibility. Never spill liquid of any kind onto the tool.
NOTICE		Clean with a soft dry cloth, or if necessary, a soft damp cloth. Do not use any harsh chemical solvents such as acetone, thinner, brake cleaner, alcohol, etc as this may damage the plastic surface.

Notices (Labels)

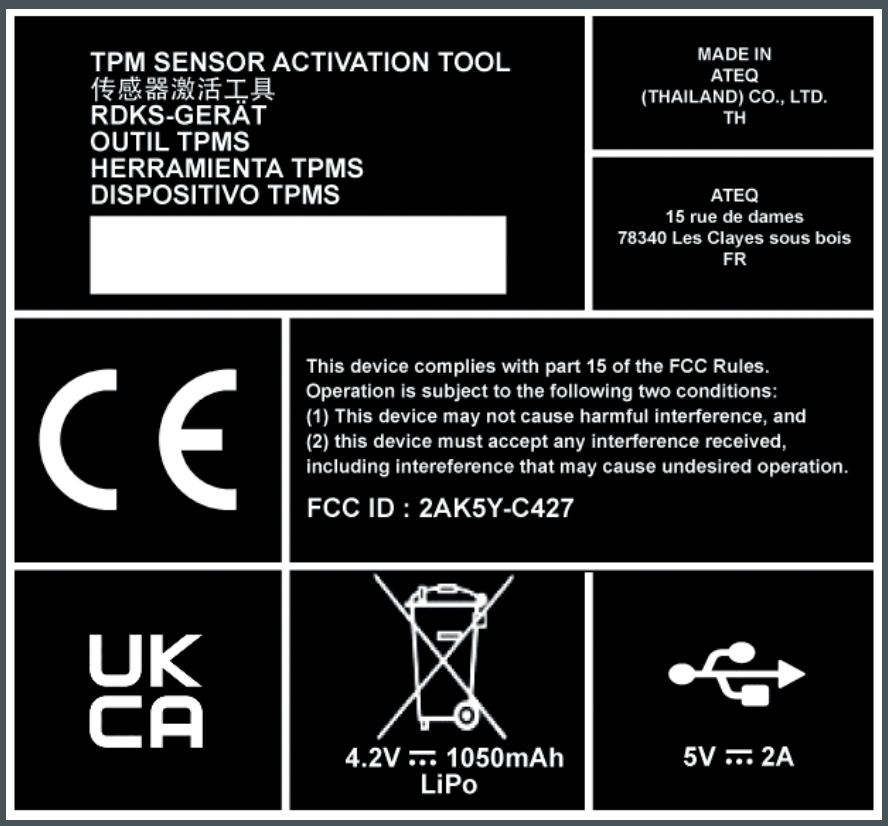


Fig.: 1 „Tool Information“

Fig.:1 „Tool Information“
The notice (label) is located on the back side of the tool.

It provides tool information such as the serial number, FCC ID, and battery/charging information.

Constructions

The tool is designed to activate, read and service major OEM & aftermarket sensor brands, as well as perform vehicle-specific TPMS relearn procedures.

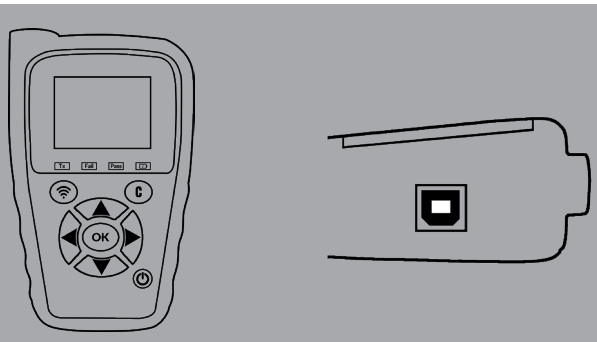


Fig.: 2 „View from front and from the side“

Fig.: 3 „Display Lights“

Fig.: 3 „Display Lights“
The front of the tool has 4 display lights to show current tool functions

Tx - Trigger light
Fail - Result light „Fail“
Pass - Result light „Pass“
Battery status

Fig.: 4 „Tool components“

The tool consists mainly of the following components:

1. Antenna
2. USB Port
3. Display screen
4. Keypad

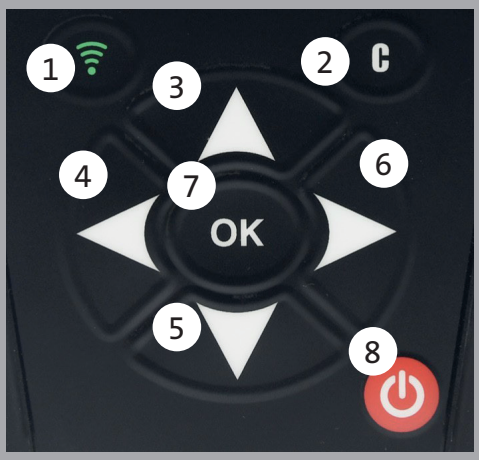


Fig.: 5 „Function keys“

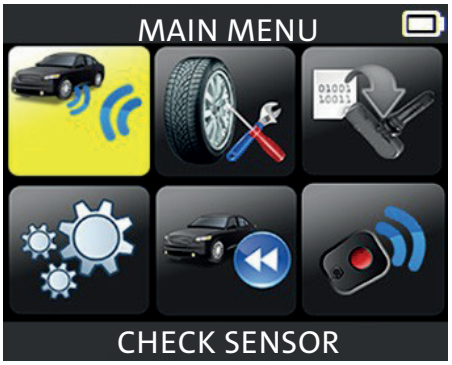
1. Test or trigger sensor
2. Cancel, previous step
3. Navigate to select „up“
4. Navigate to select „left“
5. Navigate to select „down“
6. Navigate to select „right“
7. Next, continue or confirm
8. Power ON/OFF

Power ON

Press the Power ON/OFF key to turn on the tool.

Version # and Region will be displayed

= Power ON/OFF

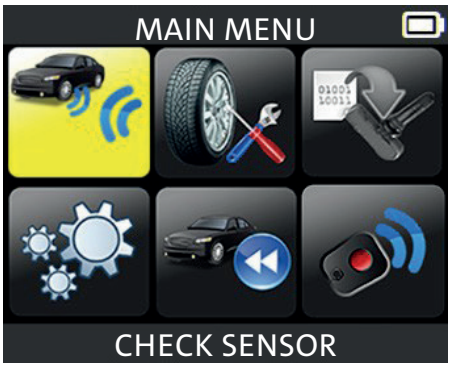


The MAIN MENU will then be displayed

Tool Overview

Read, diagnose sensors, and reset TPMS.

Note: With most vehicles, if the vehicle is in “learn mode” the vehicle will also confirm that the TPM sensor has communicated to the ECM with a series of horn beeps.



Check Sensor

Before servicing the tires/wheels, using your TPMS TOOL, trigger each of the vehicle‘s sensors to make sure they are working properly.
This will eliminate the liability associated with replacing previously damaged or defective sensors. This procedure will not change the vehicle settings because the vehicle has yet to be put into learn/retraining mode. This procedure allows you to quickly identify damaged or defective sensors, because some vehicles do not report a damaged or defective sensor condition on the instrument cluster for up to 20 minutes.

Service

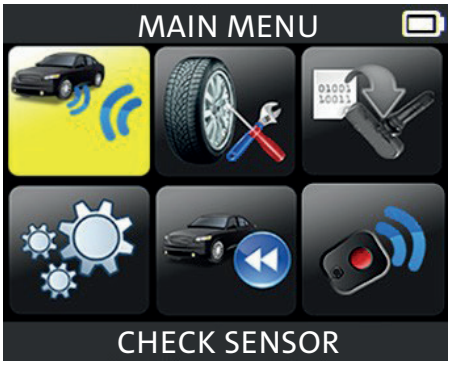
With the vehicle in learn mode, begin by triggering the driver‘s front left (LF) wheel sensor. Many vehicles will provide an audible beep confirming that the sensor ID has been learned by the vehicle on board computer.
The communication between the sensor and the on board computer is also confirmed on LCD display of the TOOL.
The same procedure should be followed on all wheel sensors, in a clockwise rotation, until all the vehicle sensors have been retrained. After triggering the driver‘s rear wheel sensor, some vehicles will beep twice, indicating that the TPM system has been retrained.

For vehicles that do not require retraining, we recommend you trigger each wheel sensor, one final time, to make sure they are working correctly prior to releasing the vehicle to the customer.

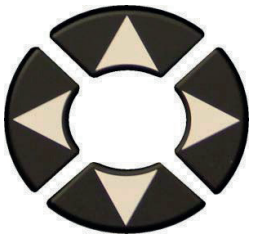
Check Sensor

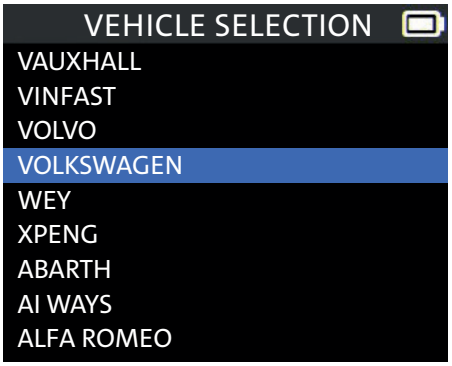
Note: Vehicle specific information in this manual is used as an example and may not represent specific instructions each make and model may require.

When performing various functions with the tool, it is important to refer to the on-screen prompts and/or repair manual information.



Select Check Sensor





Select car manufacturer

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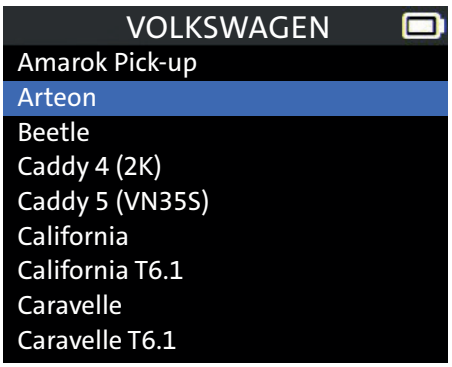

Select car model

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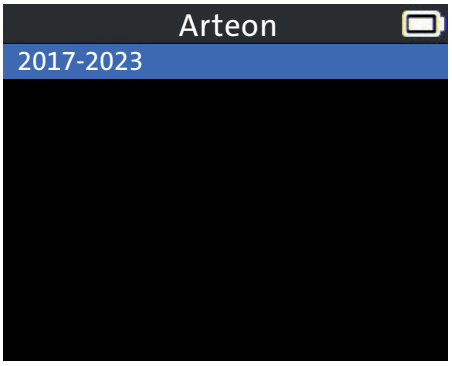


Select car year

= Continue

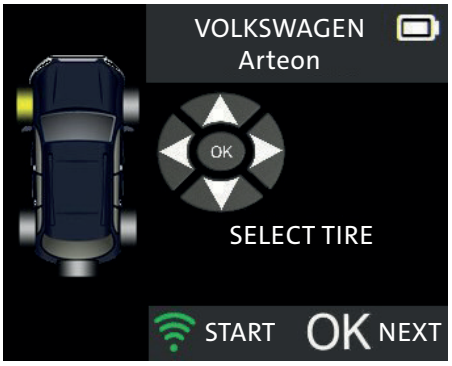
= Previous

Select number of wheels

Note: this option is not available for all vehicles

= Continue

= Previous



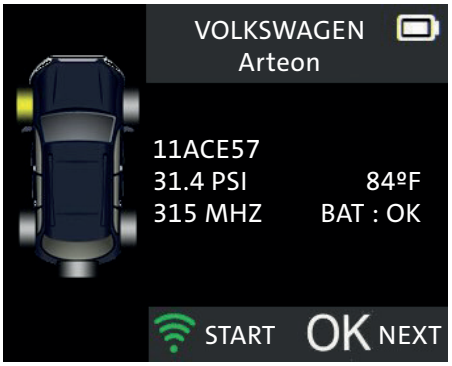
Select the tire, and press the green trigger button to read the sensor.

= Select tire

= Trigger

= Continue

= Previous



The tool will display all sensor information.

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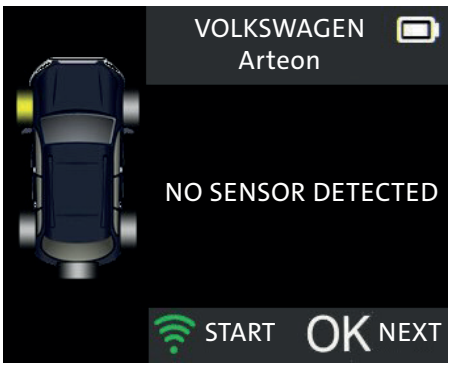


If a sensor could not be read, the tool will display „NO SENSOR DETECTED“

Possible Reasons

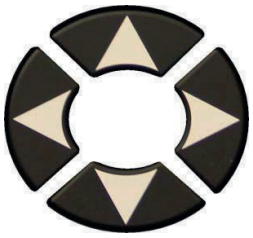
1. Tool Antenna is not positioned correctly on tire
2. Sensor battery has expired
3. Wrong sensor part number was installed
4. Technician has removed sensor from the tire
5. Aftermarket sensor was not programmed with tool
6. Indirect system works off ABS wheel sensor speed

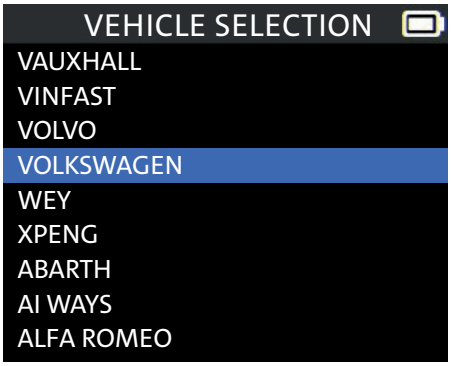
Service TPMS

Servicing the TPM System ensures the dash light is not illuminated, and is required when adding air, rotating tires, or replacing a sensor.

This section details how to relearn the sensors to the ECU.

Select Service TPMS





Select car manufacturer

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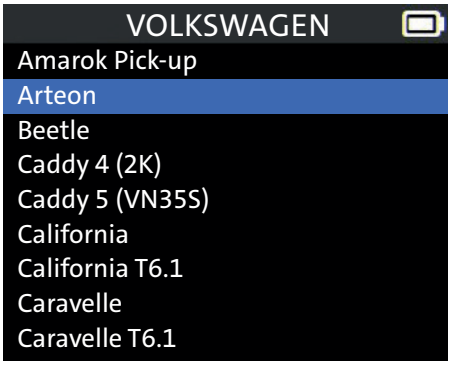

Select car model

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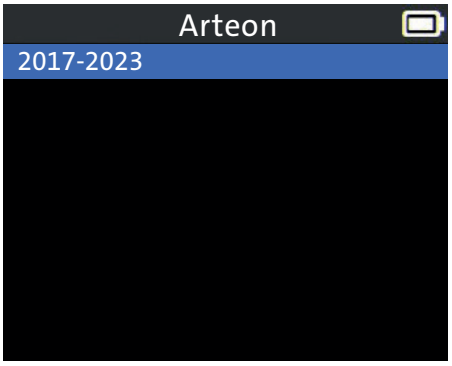
= Previous



Select car year

= Continue

= Previous

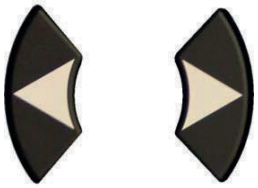
Select number of wheels

Note: this option is not available for all vehicles

= Continue

= Previous

Select Manual Relearn



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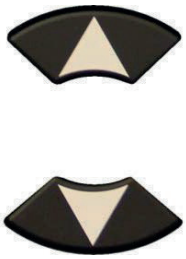
Auto Relearn Systems

Auto relearn systems do not require a typical procedure to be followed, but will relearn each sensor automcatically after they are triggered.

Examples include: Acura, Select Hondas, Jaguar, Land Rover, Volvo, Chrysler, Dodge and Jeep Brands

View relearn instructions.



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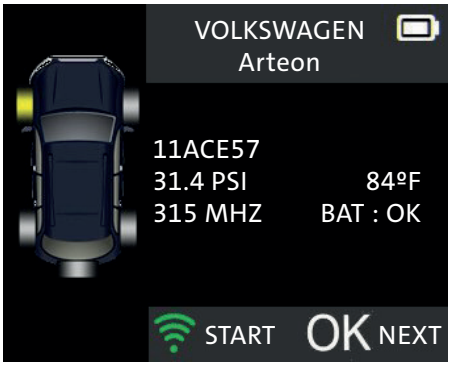
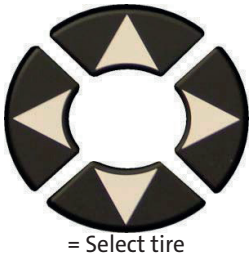


Use tool to read each sensor on the vehicle



= Select tire

= Trigger

= Continue

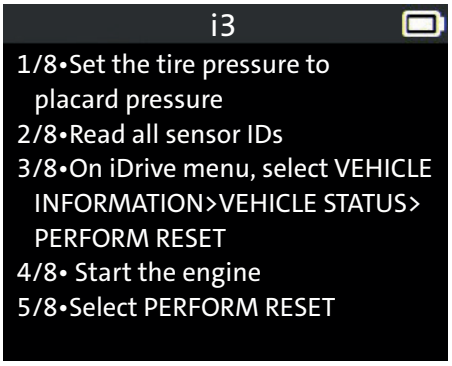
= Previous

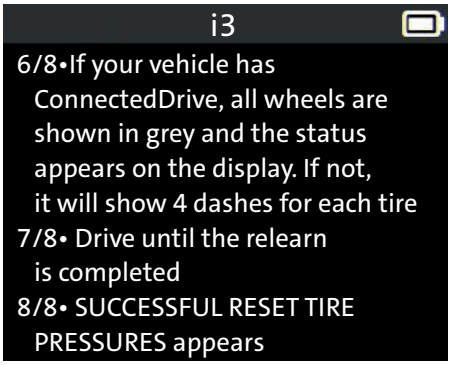
Manual Relearn Systems

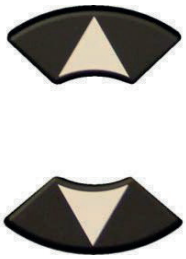
Manual relearn systems require a procedure to be followed in order to put the vehicle into a learn mode. Once the procedure has been followed, each sensor should be triggered.

Examples include: General Motors, Ford, BMW, ,Mini, and Porsche

View relearn instructions.

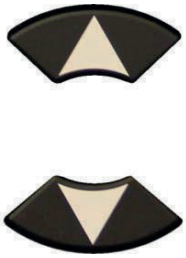






OK = Continue

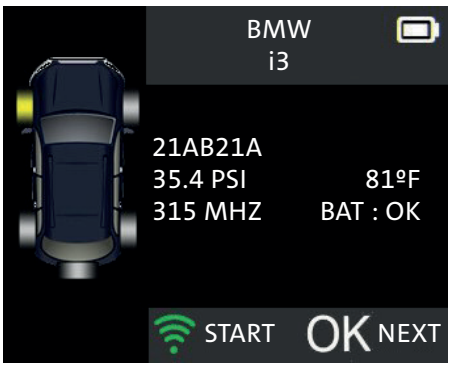
C = Previous

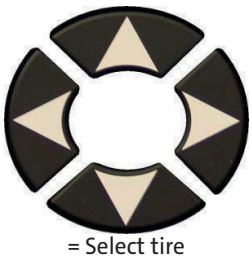


OK = Continue

C = Previous

Use tool to read each sensor on the vehicle





= Select tire

= Trigger

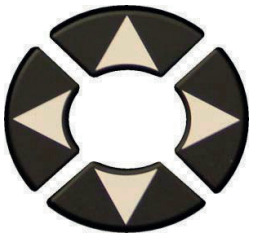
OK = Continue

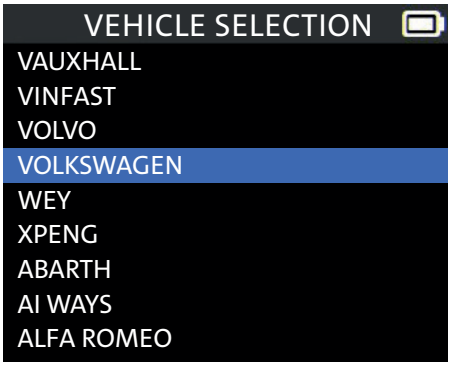
C = Previous

Part# Lookup

When replacing a sensor, it is important to use a compatible sensor for that vehicle. This section shows how to view sensor part numbers.

Select Service TPMS





Select car manufacturer

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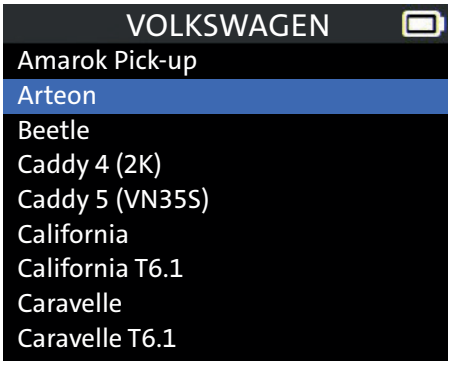

Select car model

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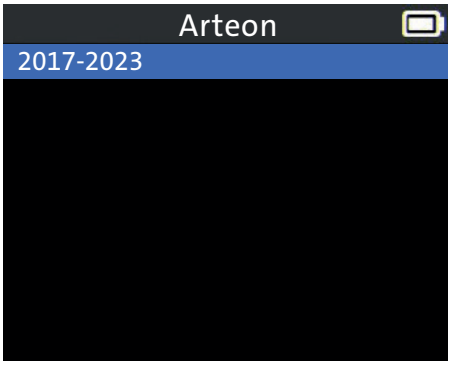

Select car year

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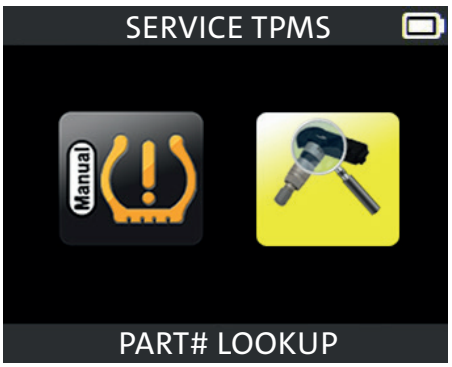
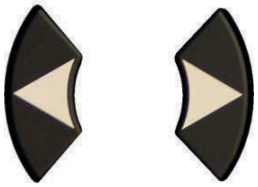


Select Part# Lookup



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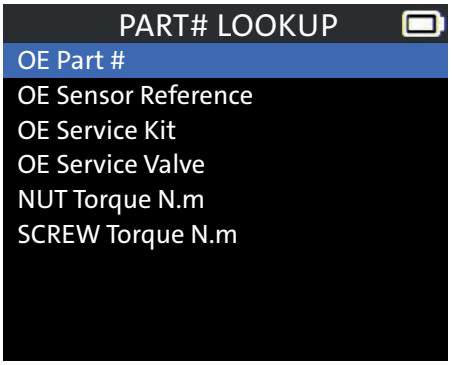


Select the OE sensor, or other part number

= Continue

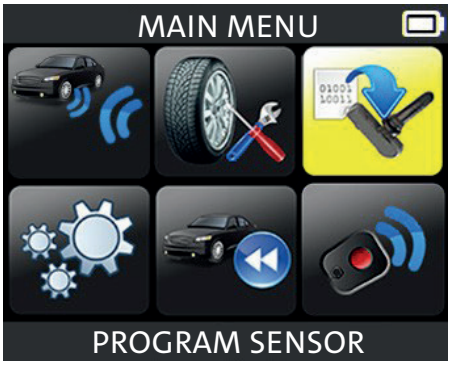
= Previous

The tool will display the comptabile sensor part number for that vehicle.

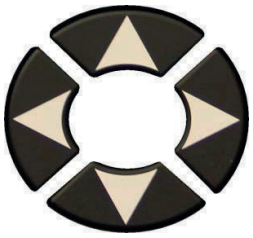
= Previous

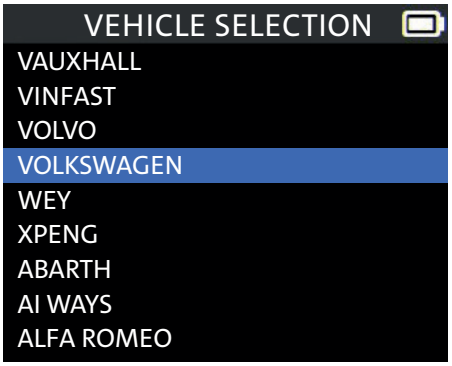
Program Sensor

This section is to recover a sensor ID in order to enter it in the spare blank sensor. If the original sensor can be read, use the „COPY ORIGINAL SENSOR“ section to recover the ID. If it cannot be read, use the „CREATE NEW SENSOR“ section to create a randomized ID.



Select Program Sensor





Select car manufacturer

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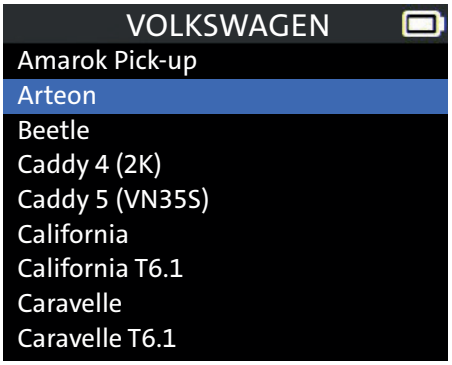

Select car model

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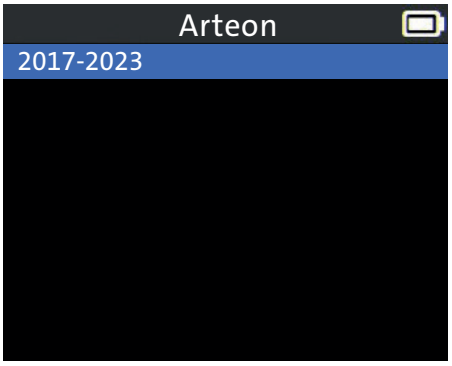
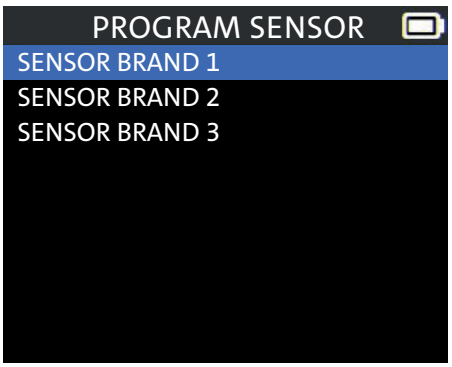
= Previous



Select car year

= Continue

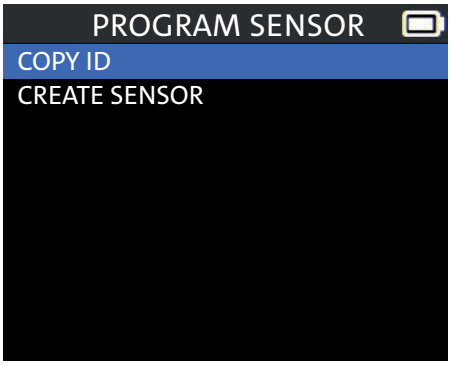
= Previous



Select the sensor brand.

= Continue

= Previous



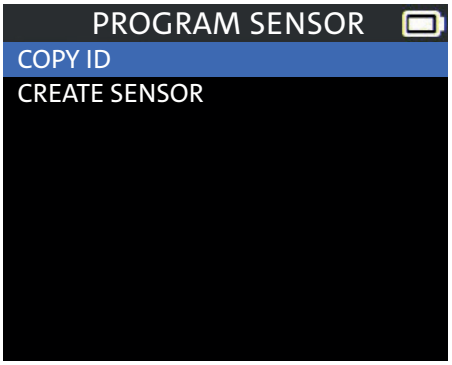
The tool will display the various sensor programming options.

= Continue

= Previous

Copy Original Sensor

Use the Copy ID function to copy the ID from an existing sensor, and program it to a new blank sensor.



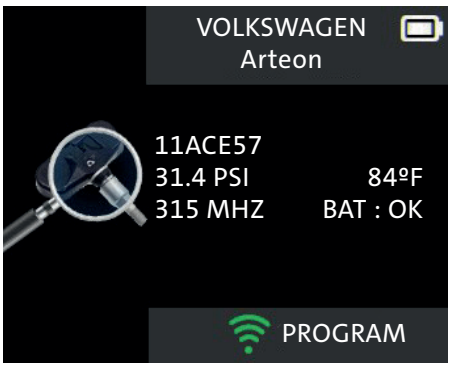
Select Copy ID.

= Continue

= Previous

Trigger the original sensor.

= Trigger



The original sensor information will be displayed.

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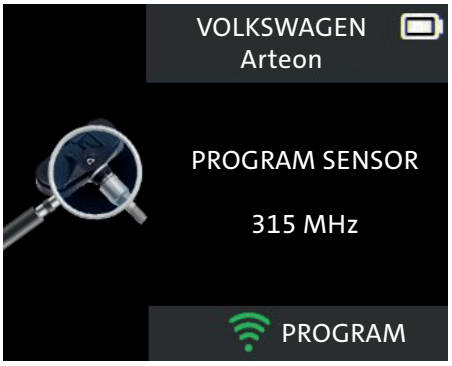
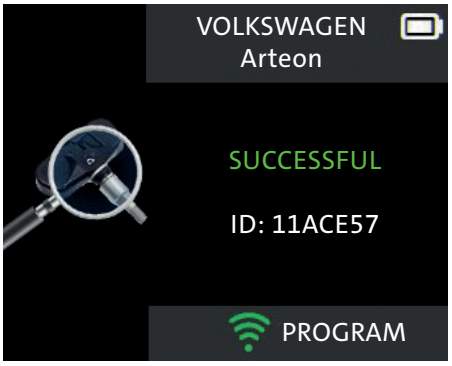
= Previous



Hold the new sensor above the tool's antenna to program the copied ID.

= Program

The tool will begin programming the sensor data to the new sensor.



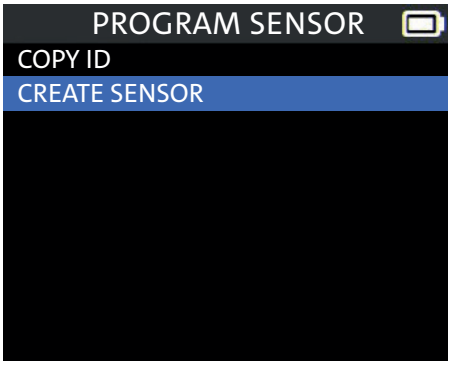
When finished, the original sensor ID will be programmed to the new sensor.

= Continue

= Previous

Create New Sensor

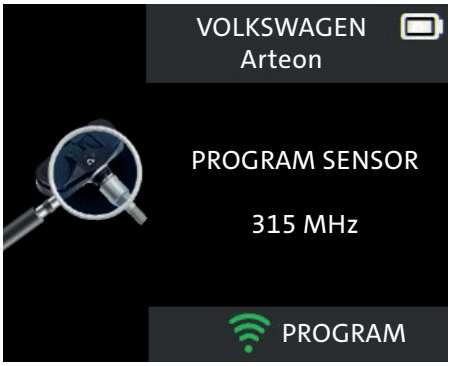
Use the Create Sensor function to program a new sensor ID to a blank sensor.



Select Create Sensor.

= Continue

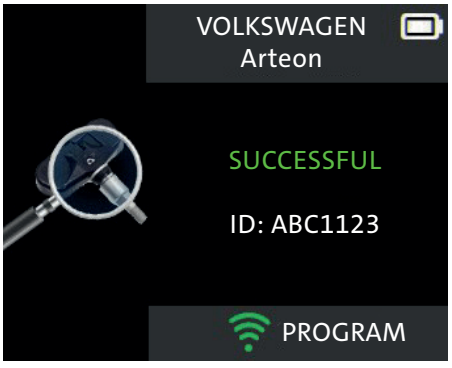
= Previous



Hold the sensor above the tool's antenna to program a new ID.

= Program

The tool will begin programming the new sensor ID.



Once finished, the tool will display the sensor ID.

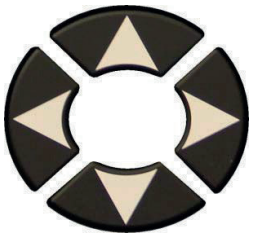
= Continue

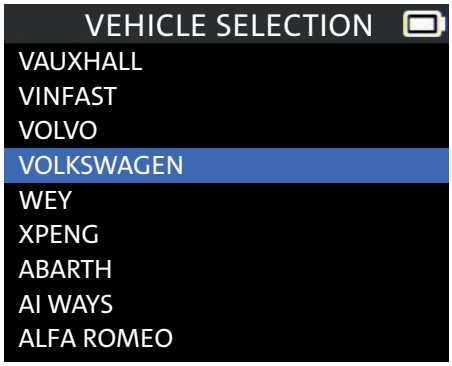
= Previous

Keyfob

Some vehicle relearns require use of the keyfob. use the Keyfob function to test signal strength and battery status.

Select Keyfob

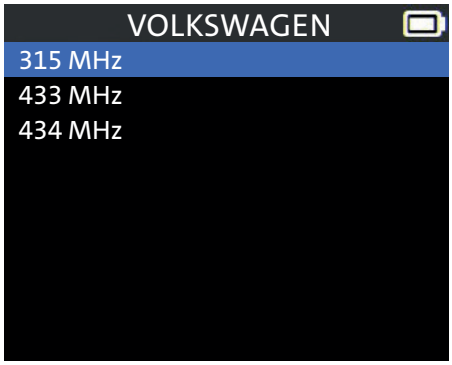




Select car manufacturer

= Continue

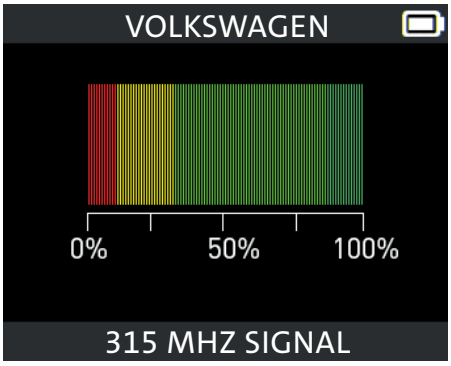
= Previous



Select the keyfob frequency

= Continue

= Previous

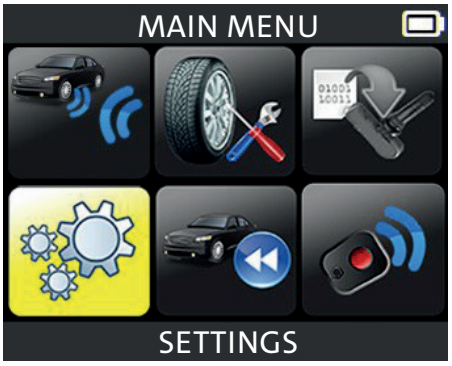


Press the trigger button to test for keyfob signal strength and battery status.

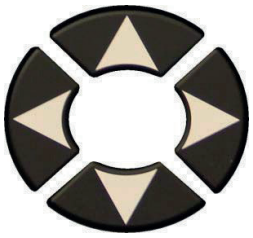
= Test

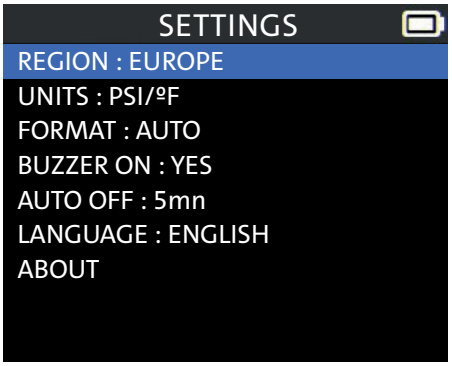
Settings

The Settings function can be used to change various tool settings such as, language, units, and more. As well as view tool information.



Select Settings

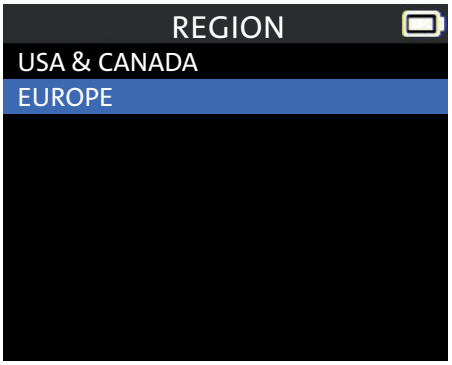




The tool will display all of the settings options.

= Continue

= Previous

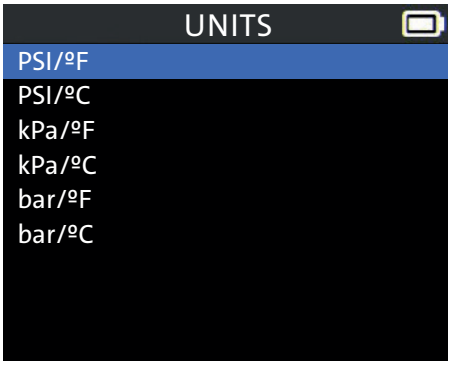


Region

Select the tool's working region.

= Continue

= Previous



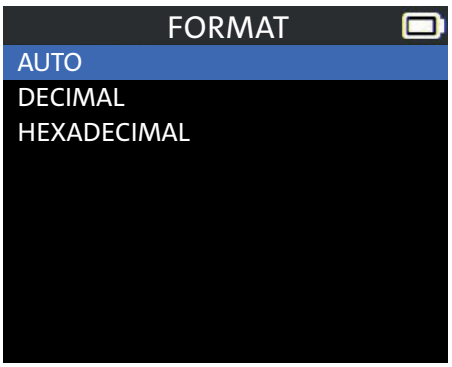
Units

Select the pressure and temperature units

Pressure - PSI/kPa/Bar
Temperature - ºF/ºC

= Continue

= Previous



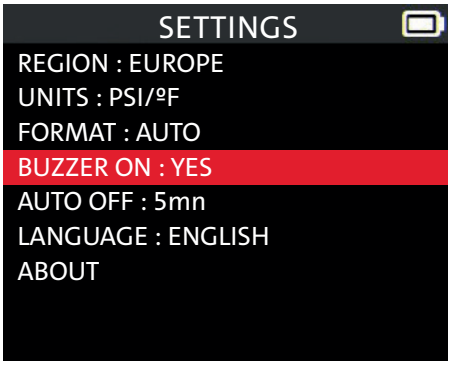
Format

Select the way sensor IDs are displayed.

Hexadecimal - (0-9)/(A-F)
Decimal - (0-9)
Automatic

OK = Continue

C = Previous



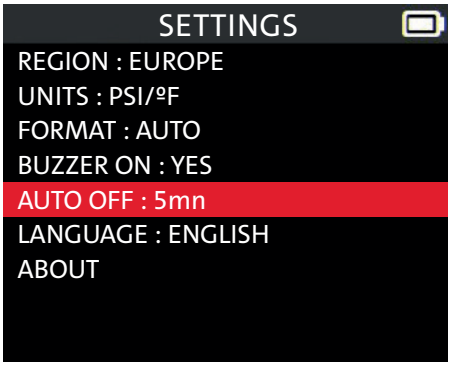
Buzzer ON

Select whether or not the tool will make an audible beep when triggering sensors.

Use the up or down arrows to select YES or NO.

OK = Continue

C = Previous



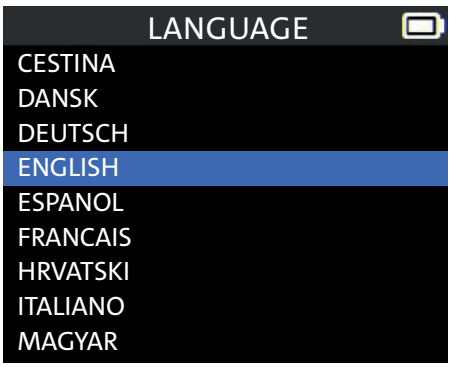
Auto OFF

Select the amount of time before the tool will automatically turn off after inactivity.

Use the up arrow to raise the time up to 60mn. Use the down arrow to lower the time down to DISABLED.

OK = Continue

C = Previous

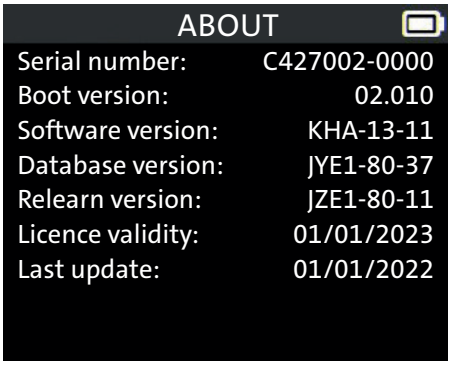


Language

Select the tool's display language.

OK = Continue

C = Previous



About

View various tool information such as serial number, software version, licence validty, and more.

OK = Continue

C = Previous

Charge

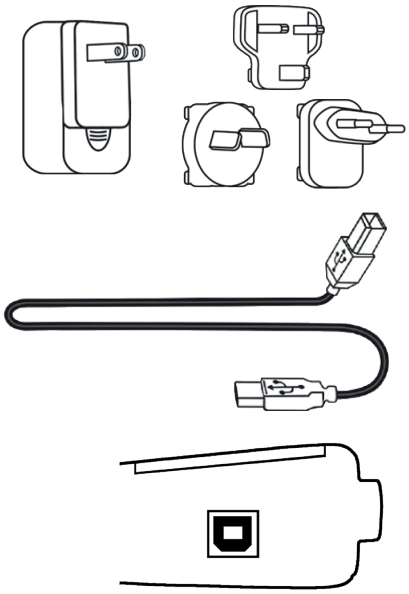
The tool incorporates a low battery detection circuit. Battery life is an average of 300 sensor tests per battery charge (approximately 60 to 80 vehicles) this may change depending on the sensor model.

The battery is charging

There is an issue with the battery, please contact service/support.

DO NOT use the tool with low battery status because the transmission and emission may not be reliable.

When charging, the battery light is red and becomes green when the battery is fully charged



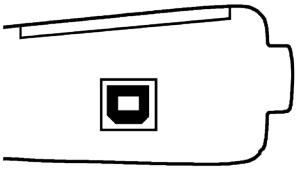
When the battery is low, the “status bar” appears every 10 seconds. This display will stop when the battery loses power.

Plug the USB cable between the tool and the power charger, and then plug the charger into an appropriate outlet. The red LED „CHARGE“ light will turn on.

Battery replacement
If the battery is defective, the tool must be returned to the after sales service for battery replacement.

Opening the tool or tampering with the seal placed on the tool, if broken, will void the warranty

Tool Update



When a new protocol becomes available, it is necessary to update your tool. Please follow the steps below:

Install WebVT PC Suite

1) Connect the TPMS tool to the USB port and power the tool ON.

2) Go to www.webvt.ateq-tpms.com to download the pc software.

3) Click on the WebVT icon to start the program.

4) A screen will appear that says, “Welcome to the Install Shield Wizard for WebVT.” Click “Next >”

IMPORTANT: Temporarily turn off all anti-virus and spam blocking software on your computer. This is necessary to ensure a successful upgrade.

5) A window will appear for choosing the destination location, click “Next >”

6) Follow the instructions until the window with the “Finish” button appears.

7) Click “Finish” when the WebVT installation is complete.

Note: To order annual update software part numbers, please see your dealer for availability and pricing.

Update the Tool Software

Before updating, ensure that the battery is fully charged.

1) Connect the USB cable from the TPMS TOOL to the PC and turn the device on.

2) Start WebVT software.

3) A screen will appear indicating “Update Device”.

4) Press “Yes” to update to the latest software version. The update will take several minutes to complete, and the status bar will indicate the percentage of update completed.

Warning!
Turn off the screen saver function on your PC and do not disconnect the TPMS TOOL from the PC or turn off your computer during the update process. Doing so could result in serious damage to the tool

Limited Hardware Warranty

ATEQ Limited Hardware Warranty

ATEQ warrants to the original purchaser that your ATEQ hardware product shall be free from material and workmanship defects for the length of time identified on your product package and/or contained in your user documentation, from the date of purchase. Except where prohibited by applicable law, this warranty is nontransferable and is limited to the original purchaser. This warranty gives you specific legal rights, and you may also have other rights that vary under local laws.

Remedies

ATEQ entire liability and your exclusive remedy for any breach of warranty shall be to repair or replace the hardware. ATEQ may, at its option, use new or refurbished or used parts in good working condition to repair or replace any hardware product. Any replacement hardware product will be warrantied for the remainder of the original warranty period or thirty (30) days, whichever is longer or for any additional period of time that may be applicable in your jurisdiction.
This warranty does not cover problems or damage resulting from (1) accident, abuse, misapplication, or any unauthorized repair, modification or disassembly; (2) improper operation or maintenance, usage not in accordance with product instructions or connection to improper voltage supply; or (3) use of consumables, such as replacement batteries, not supplied by ATEQ except where such restriction is prohibited by applicable law.

How to Obtain Warranty Support

Before submitting a warranty claim, we recommend you visit the support section at www.ateq-tpms.com for technical assistance. Valid warranty claims are generally processed through the point of purchase during the first thirty (30) days after purchase; however, this period of time may vary depending on where you purchased your product – please check with ATEQ or the retailer where you purchased your product for details. Warranty claims that cannot be processed through the point of purchase and any other product related questions should be addressed directly to ATEQ . The addresses and customer service contact information for ATEQ can be found in the documentation accompanying your product and on the web at www.ateq-tpms.com

Limitation of Liability

ATEQ SHALL NOT BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES WHATSOEVER, INCLUDING BUT NOT LIMITED TO LOSS OF PROFITS, REVENUE OR DATA (WHETHER DIRECT OR INDIRECT) OR COMMERCIAL LOSS FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON YOUR PRODUCT EVEN IF ATEQ HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. Some jurisdictions do not allow the exclusion or limitation of special, indirect, incidental or consequential damages, so the above limitation or exclusion may not apply to you.

Duration of Implied Warranties

EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS ON THIS HARDWARE PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THE APPLICABLE LIMITED WARRANTY PERIOD FOR YOUR PRODUCT. Some jurisdictions do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

National Statutory Rights

Consumers have legal rights under applicable national legislation governing the sale of consumer goods. Such rights are not affected by the warranties in this Limited Warranty.

No Other Warranties

No ATEQ dealer, agent, or employee is authorized to make any modification, extension, or addition to this warranty.

Warranty Periods

The warranty period for ATEQ devices is one year.

Battery Safety & Charge Information

You must read and understand these safety instructions and warnings before using or charging your Lithium-polymer batteries.

Operating environment

Remember to follow any special current regulations any area, and always switch off your device when its use is prohibited or when it may cause interference or danger.
Use the device only in its normal operating positions.
Your device and its enhancements may contain small parts. Keep them out of the reach of small children.

About Charging

Only use the charger supplied with your device. Using another type of charger will result in malfunction and/or danger.
When the red LED turns off, the charge is complete.

About the Charger

Do not use the charger in a high moisture environment. Never touch the charger when your hands or feet are wet.
Allow ventilation around the charger when using it. Do not cover the charger with paper or other objects that will reduce cooling.
Do not use the charger while it is inside a carrying case.
Connect the charger to a proper power source. The voltage requirements are found on the product case and/or packaging.
Do not use the charger if the wires become damaged. Do not attempt to service the unit. There are no serviceable parts inside. Replace the unit if it is damaged or exposed to excess moisture.
This charger is not a toy and should not be used by children or infirm persons without proper training or supervision.
Do not use it as a power source.
Unplug it before attempting to service or clean it.

About the Battery

CAUTION: This unit contains an internal Lithium-polymer battery. The battery can burst

or explode, releasing hazardous chemicals.
To reduce the risk of fire or burns, do not disassemble, crush, pierce or dispose of the battery or the instrument in fire or water, do not short circuit or short the contacts with a metal object.
Use a specified charger approved by the ATEQ manufacturer and supplied with the device.

Safety for Lithium-po battery use

NEVER leave the battery unattended during the charging process. The device must imperatively be placed on a non-flammable surface during charging (ceramic platter or metal box).
Charge the Lithium-polymer battery ONLY with the charger provided.
NEVER use a Ni-MH (Nickel Metal Hydride) type battery charger to charge a Lithium-polymer battery.
If the battery begins to overheat more than 60°C (140°F), STOP CHARGING IMMEDIATELY. The battery should NEVER exceed 60°C (140°F) during the charging process.
NEVER charge the battery immediately after use and while still hot. Leave it cool down to ambient temperature.
If you see any smoke or liquid coming from the battery, stop the charge immediately. Disconnect the charger and place the tool in an isolated area for at least 15 minutes. DO NOT USE THE BATTERY AGAIN. Return the device to your retailer.
Keep a fire extinguisher for electrical fires handy while charging the battery. In the unlikely event that the Lithium-polymer battery catches fire, DO NOT use water to extinguish the fire. Take some sand or use a fire extinguisher as described above.
The Lithium-polymer battery elements must be neutralized to be made unusable. The neutralization process must be performed under strict safety conditions. It is recommended that you return the tool to us. We will extract the battery and give it to a specialized recycler.
Do not dispose of Lithium-polymer batteries with your general waste.
The Lithium-polymer battery is not suitable for children under 14 years. Keep all Lithium-Ion batteries out of the reach of children
To prevent leakage or other hazards, do not store batteries above 60°C (140°F). Never leave the battery inside a car (for example) where the temperature could be very high or in a place where temperatures could exceed 60°C (140°F). Store the battery in a dry place to avoid contact with liquid, whatever the type. Only store the battery on a non-flammable surface, heat resistant, non-conductive and away from all flammable materials or sources. Always store the battery out of the reach of children.
A Lithium-polymer battery should be stored with a minimum charge of 30%. If you store it completely discharged, it will quickly become unusable.
Failure to follow these safety precautions may cause serious personal injury and damage to property. You may even cause a fire.
The ATEQ Company disclaims any responsibility for damage sustained in the event of non-compliance with these safety instructions.
Using a Lithium-Ion battery has a high risk of fire and can cause serious damage to property and persons. The user agrees to accept the risk and responsibility.
The ATEQ Company is not able to monitor the proper use of the battery with each customer (charge, discharge, storage etc.). It cannot be held responsible for any damage to persons or property.

FCC Statements

Federal Communication Commission Interference 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 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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this 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.

CE Statements

DECLARATION OF CONFORMITY

The manufacturer of the TPMS TOOL declares that this device complies with the requirements of:

- ETSI EN 300 330-1 V1.8.1 (2015-03):
Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz; Part 1: Technical characteristics and test methods.

- ETSI EN 300 330-2 V1.6.1 (2015-03):
Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz; Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive.

BS EN 62479:2010:

Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz).

Recycling

Do not dispose of the rechargeable Lithium-polymer battery or the tool and/or its accessories in the general waste. These components must be collected and recycled.

The crossed-out wheeled waste bin means that the product must be taken to separate collection at the end of the product's service life. This applies to your tool and also to any enhancements marked with this symbol. Do not dispose of these products as unsorted municipal waste. For further information, please contact ATEQ.

Volkswagen Aktiengesellschaft
K-GVO-LW
Group After Sales – Group Service,
Literature and Systems
Workshop Equipment
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38442 Wolfsburg

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Technical amendments possible
Status 11/2022