jaltest TOOLS

Jaltest TPMS
(Tyre Pressure Monitoring System)

User manual

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INNOVATION & TECHNOLOGY

Rev. 01

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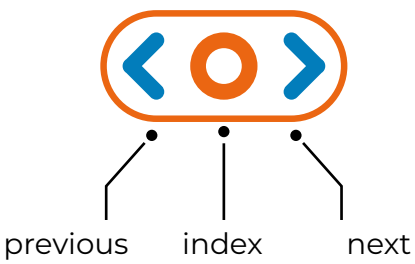
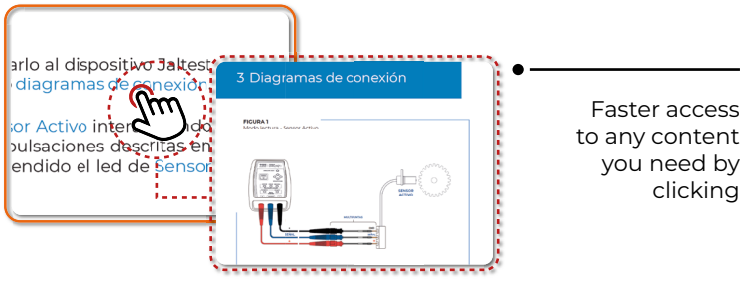
Easy navigation





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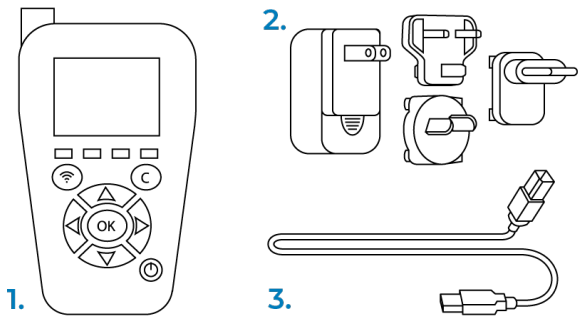
1 Introduction

1.1 SPECIFICATIONS

Power Supply	3,000 mAh rechargeable lithium-polymer battery.
Battery Life	Approximately 300 activations per full charge.
Size (H x W x D)	174 mm x 97 mm x 36 mm (6.850 in x 3.818 in x 1.417 in) without rubber cover. 176 mm x 109 mm x 43 mm (6.929 in x 4.291 in x 1.692 in) with rubber cover.
Case Material	High Impact ABS.
Radio reception	315 MHz and 433 MHz.
Weight	280 g (0.617 lb) TPMS tool without rubber cover. 449 g (0.989 lb) TPMS tool with rubber cover.
Temperature	Operating: -4°F to 131°F (-20°C to +55°C). Storage: -40°F to 140°F (-40°C to +60°C).
Operating	Up to 6560 ft (2000 m).
Screen	2.8” display.
Language	North American/European version: English, German, Italian, French, Spanish, Croatian, Czech, Danish, Dutch, Finnish, Hebrew, Hungarian, Norwegian, Polish, Portuguese, Russian, Romanian, Slovak, Slovenian, Swedish, Turkish.
Warranty	1 year.
Vehicle coverage	European and North America markets.
Software updates	1-year software and database updates included.

1.2 PRODUCT CONTENT

1. TPMS Tool
2. Universal Charger
3. USB-B Cable



1.3 IMPORTANT SAFETY INSTRUCTIONS

1.3.1 DO NOT DISCARD, RETAIN FOR FUTURE REFERENCE

Please note that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

1.3.2 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 distribuitor or an experienced radio/TV technician for help.

This device complies with:

- Part 15 of the FCC Rules (FCC ID: 2AK5Y-C427)
  - Contains FCC ID: (1): Z64-CC3135MOD
  - Contains FCC ID: (2): ZAT26M1
- CE / CEM standards
- ROHS standards

Operation is subject to the following two conditions:

- This device will not cause harmful interference.
- This device will accept any interference received, including interference that may cause undesired or improper operation.

1.3.3 WARNINGS

- Do not use on live electrical circuits.
- Must read instructions before use.
- Wear safety glasses. (user and bystanders)
- Risk of entanglement.
- 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.

Read the Warranty, Safety, FCC Statements and recycling information at the end of this user manual.

1.3.4 CAUTIONS

PLEASE READ THESE INSTRUCTIONS BEFORE USE

TPMS tools sold in Europe are preset with the European vehicle database settings, preventing the tool from being used for data operations on unauthorised radio-frequencies in violation of EU laws, such as the German fine regulations TKG 148 and 149. It is under the sole responsibility of the user to maintain European vehicle database settings, when operating the tool. The manufacturer cannot be considered liable for any non-compliance with laws or regulations, due to use of other settings.

Your Jaltest TPMS 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 workshop 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 distribuitor.

1. Read all instructions
All warnings on the tool and in this manual should be adhered to. All operating instructions should be followed.

2. Retain instructions
The safety and operating instructions should be retained for future reference.

3. Heed warnings
Users and bystanders must wear safety glasses and must read instructions before use. Do not use on live electrical circuits, risk of entanglement.

4. Cleaning
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 or alcohol, as this may damage the plastic surface.

5. Water and moisture
Do not use this tool where contact or immersion in water is a possibility. Never spill liquid of any kind onto the tool.

6. Storage
Do not use or store the tool in an area where it is exposed to direct sunlight or excessive moisture.

7. Usage
To reduce the risk of fire, do not operate the tool in the vicinity of open containers or flammable liquids. Do not use if there is potential risk for explosive gas or vapours. Keep the tool away from heat generating sources. Do not operate the tool with the battery cover removed.

8. Use the device only in its normal operating positions and unplug it before attempting to service or clean it.

9. Keep your device and its accessories (chargers, lithium-polymer batteries etc.) out of the reach of small children as they may contain small parts.

10. Only use the charger supplied with your device. Using another type of charger Will result in malfunction and/or danger.

11. Do not use the charger in a high moisture environment.

12. Never touch the charger when your hands or feet are wet.

13. Do not cover the charger with paper or other objects that will reduce cooling. There should be ventilation around the charger when it is inside a carrying case.

14. Connect the charger to a proper power source. The voltage requirements are found on the product.

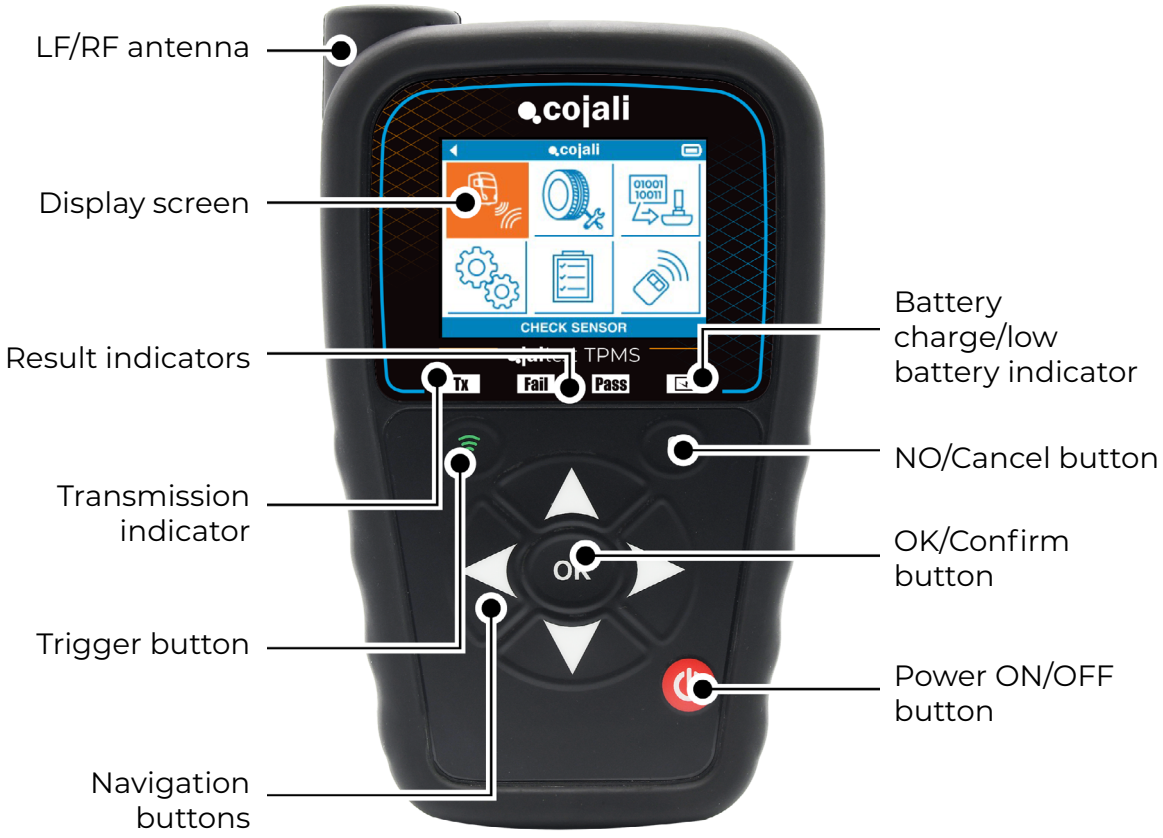
15. Do not use the charger if the wires become damaged. Do not attempt to service the unit. Replace the unit if it is damaged or exposed to excess moisture.

16. Do not use it as a power source.

17. 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.

18. Never leave the battery unattended during the charging process and leave it cool down. If the battery begins to overheat more than 60°C (140°F), stop charging immediately. In case of any smoke or liquid coming from the battery, disconnect, stop charging, do not use the battery again and return your device to your distribuitor.

1.4 JALTEST TPMS OVERVIEW

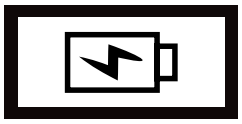


1.4.1 LIGHTS

Trigger light

Result light “Fail”

Result light “Pass”



Battery status

1.4.2 CONNECTORS

USB connector for battery charge and software update.

1.5 FUNCTION KEYS

Power ON/OFF button

Test or trigger sensor

Next, continue or confirm

Cancel, previous step

Navigate to select Up

Navigate to select Down

Navigate to select Left

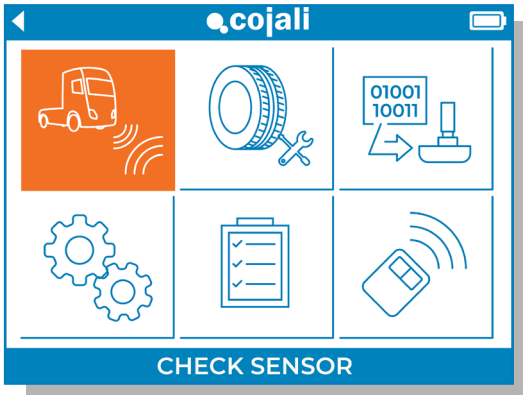
Navigate to select Right

1.6 POWER ON

Press key to turn on the TPMS tool.

Display of the splash screen

Display of the software version



1.7 SERVICE PROCEDURE

Follow this TPMS service procedure each time before and after servicing tyres/wheels.

1.7.1 READ AND DIAGNOSE TPMS SENSORS

Before wheel or tyre maintenance, use your TPMS tool to check each vehicle sensor. This way you can be sure that they are all working correctly.
This procedure also lets you check the pressure of each tyre, and preventively replace any damaged or defective sensors or those with batteries coming to the end of their life.

Note that simply reading the TPMS sensors with the tool does not affect the TPMS settings of the vehicle.

If the sensor does not respond, refer to “Troubleshooting” section.

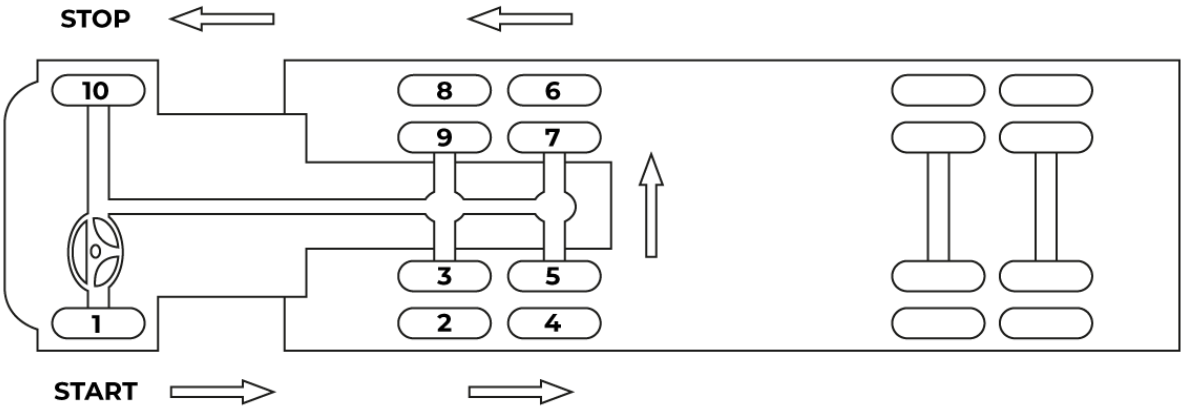
1. Carrying out wheel or tyre maintenance.

2. Start with first TPMS reading on the front left wheel. Place the tool against the side of the tyre, directly on the rubber and in immediate proximity to the valve. For clearly visible TPMS sensors mounted outside of the tyre, simply move the tool towards the sensor. Finally, the sensors circled directly inside the wheel rim are triggered by putting the TPMS tool on the tyre rubber and staying close to the sensor.

3. Press the green “Sensor activation” button on the TPMS tool to start the reading of the TPMS sensor.

If the sensor reading is OK the device vibrates, the green “Pass” LED light comes on, and there is an audible signal if this is activated.

This procedure should be carried out on all wheels of the vehicle, in an anticlockwise direction, and according to the diagram given in the figure below (for example).



1.7.2 SPECIAL CASE OF TWIN WHEELS

Jaltest TPMS manages twin wheels completely automatically.
If you have a pair of twin wheels, start by activating the TPMS sensor of the outer wheel.
To do this, proceed in the same way as for a single wheel. Then as soon as the tool displays the result (green light **PASS**), move on to reading the inner wheel.
As for other wheel types, the TPMS tool should be held as close as possible to the wheel valve to be read or to the sensor if attached to the outside of the tyre (see detailed instructions on previous page).

Note that the TPMS sensor of the twin wheel (inner wheel) is usually positioned at 180 degrees to the outer wheel’s sensor (see illustration below).

Read in the recommended order all wheels fitted with TPMS sensors (see diagram on previous page). Jaltest TPMS automatically handles all the wheels, including twin wheels.

If in doubt about the wheel read, remember that the TPMS tool automatically rejects sensors already read, and so prevents duplication.

Example: If the tractor is equipped with 10 TPMS sensors and 10 pressure measurements are displayed, this guarantees that they are for the 10 wheels of the vehicle.

1.7.3 CONFIGURATOR

Before testing the vehicle's sensors, you must configure the number of axles and the number of wheels on the vehicle. Each axle can have two single wheels or two twin wheels. By default, the TPMS tool is configured for a vehicle with:

- Two axles with single wheels at the front.
- Three axles with twin wheels at the rear.

1.7.4 TEST SENSORS

Following the instructions in the "Check Sensor" section. Trigger each of the vehicle's sensors to ensure they work properly.
This procedure allows you to quickly identify damaged or defective sensors, as some vehicles do not report a bad or misfunctioning sensor on the vehicle dashboard until after more than 20 minutes.
Testing the sensors before any service also eliminates the liability associated with replacing previously damaged or defective sensors.

If the sensor does not respond, refer to "Troubleshooting" section.

1.7.5 REPLACE SENSORS

Faulty sensors must be replaced to allow the vehicle's TPMS to work properly. Use the Service TPMS of your TPMS tool to find the original equipment replacement sensor or a universal aftermarket sensor.
Universal sensors must be programmed before use. Follow the instructions in the "Program sensor" of your TPMS tool to create or clone universal sensors.

1.7.6 TROUBLESHOOTING

If the TPMS tool is unable to trigger one or more of the sensors, please use the following troubleshooting guide:

1. The sensor itself may be damaged or defective.
2. Wrong make, model, year is selected.
3. Your TPMS tool may require a software update.
4. Your TPMS tool is damaged or defective.

Please contact your tool supplier for further assistance.
For vehicles that do not require retraining, we recommend to trigger each wheel sensor, one final time, to make sure they are working correctly prior to releasing the vehicle to the customer.

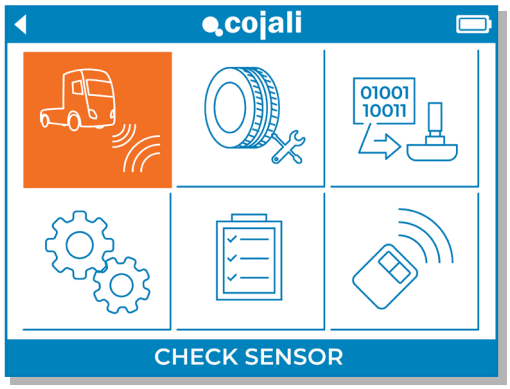
2 TPMS Tool usage

IMPORTANT

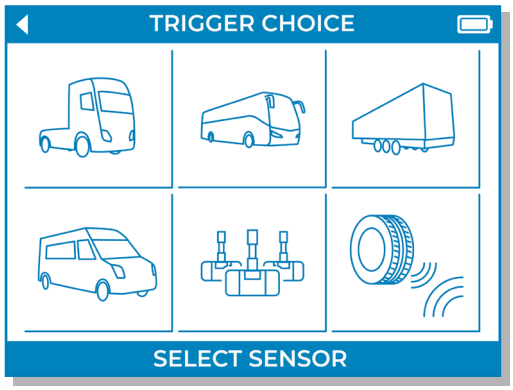
Vehicle specific information in this manual is used as an example and may not represent specific instructions each brand and model may require. When performing various functions with the tool, it is important to refer to the on-screen prompts and/or repair manual information.

2.1 CHECK SENSOR

Select Check Sensor.



Select a function.



Select:

- Select the vehicle to read a vehicle's sensors based on its brand and model.
- Select the sensor to read the sensors of a vehicle according to the brand and model of the TPMS sensors.
- Select the scan mode to read sensors without knowing the vehicle model and without knowing the TPMS sensor model. In this case, the Jaltest TPMS will scan all the frequencies it knows to read the TPMS sensors.

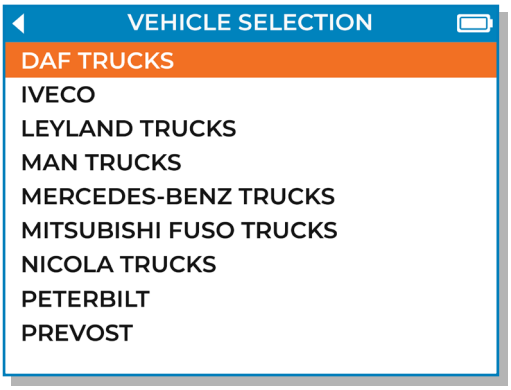
2.1.1 SELECTION

To check a sensor, you must either:

- Select a vehicle model.
- Select a sensor model.
- Use the scan mode.

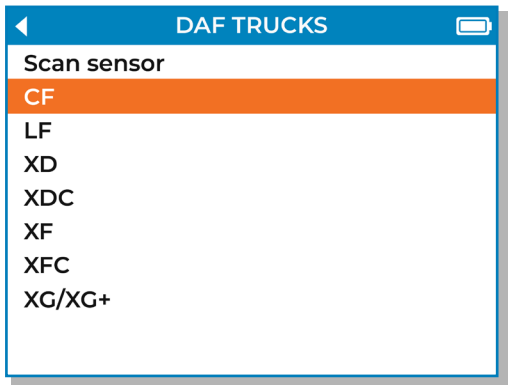
2.1.1.1 SELECT VEHICLE MODEL

Select the vehicle brand.



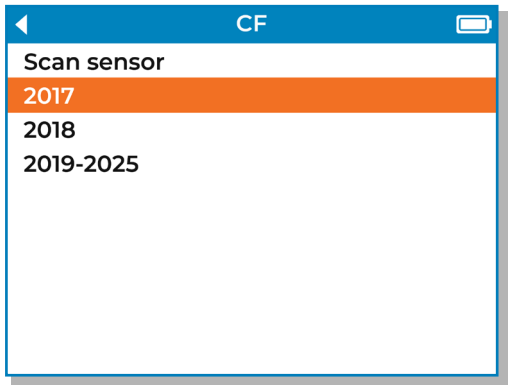
Select a brand.

Select the vehicle model.

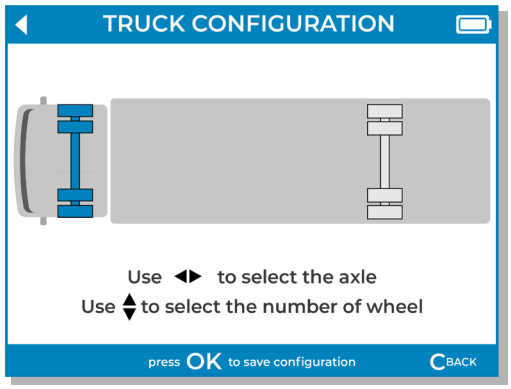


Select a model.

Select the year of the vehicle.



Select a year.



Next.

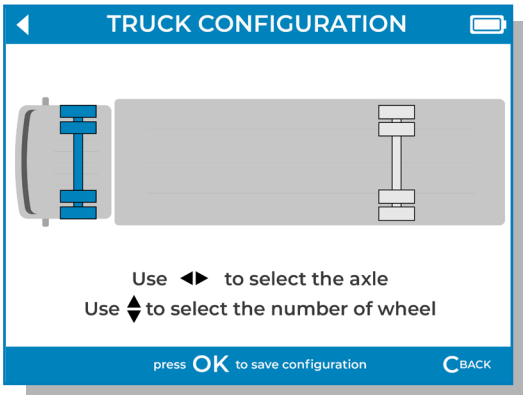
Back.

The configuration of the number of axles and the number of wheels of the vehicle is used by the functions:

- Check Sensor.

You must therefore configure the number of axles and wheels before using these functions.

Configure the number of axles and the number of wheels on the vehicle.



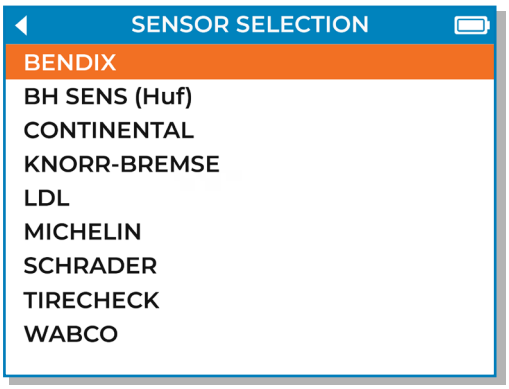
Select the axle.

Select the number of wheels.

Save the configuration.

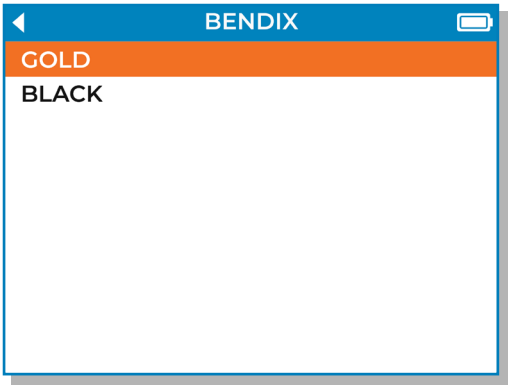
2.1.1.2 SELECT SENSOR

Select the sensor brand.



Select a brand.

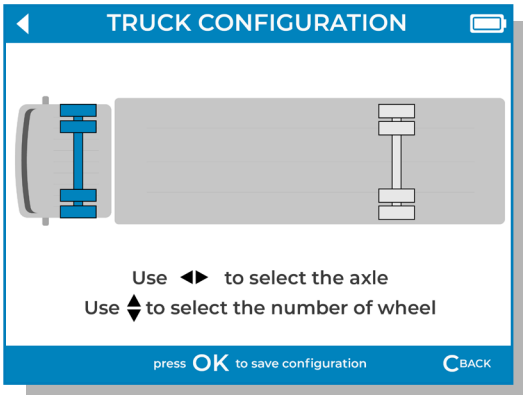
Select the sensor brand.



Select the sensor model.

You must therefore configure the number of axles and wheels before using these functions.

Configure the number of axles and the number of wheels on the vehicle.



Select the axle.

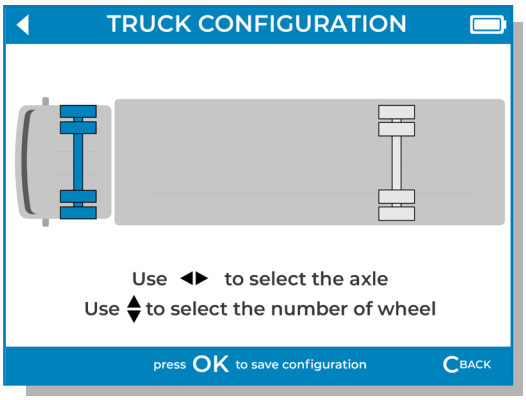
Select the number of wheels.

Save the configuration.

2.1.1.3 SCAN MODE

You must therefore configure the number of axles and wheels before using these functions.

Configure the number of axles and the number of wheels on the vehicle.



Select the axle.

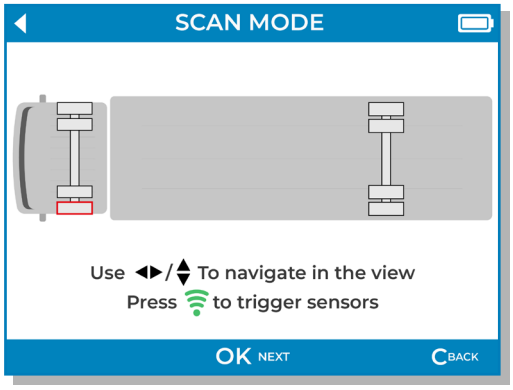
Select the number of wheels.

Save the configuration.

2.1.2 CHECK SENSOR

Reminder: The sensor reading starts with the left front wheel of the vehicle. Turn counterclockwise for subsequent wheels, section “Read and diagnose TPMS sensors”. Twin wheels are managed automatically by the Jaltest TPMS, as stated on section “Special case of twin wheels”.

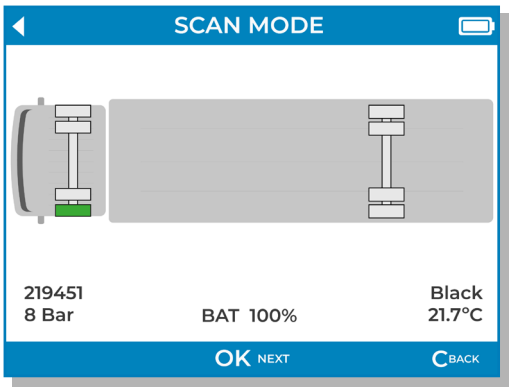
Press this button to read the first sensor.



Use the arrow buttons to select a different wheel.

The sensor data is read out.

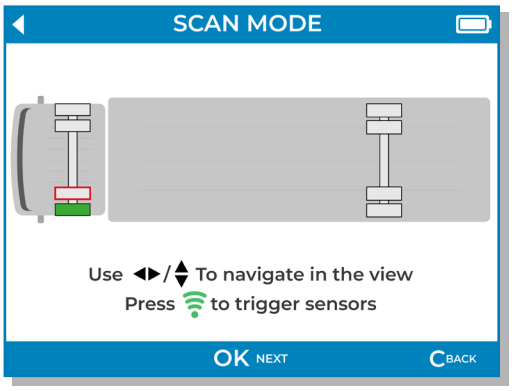
Pass



Next.

The sensor data is displayed.

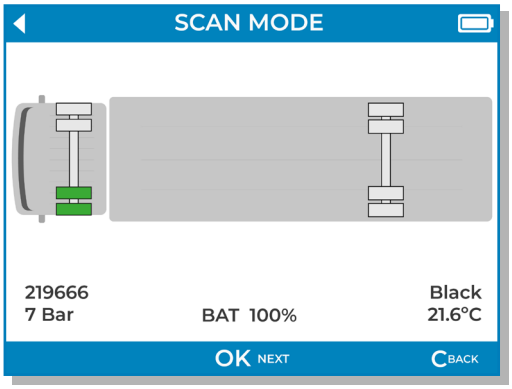
Press this button to read the second sensor.



Use the arrow buttons to select another wheel.

The first wheel is checked and is displayed in green. The second wheel is ready to be checked and is marked with a red outline.

Pass

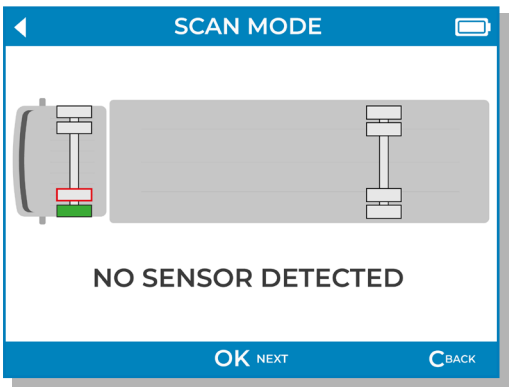


Next.

The data from the second wheel sensor is displayed.

Continue in the same way to read all the vehicle's sensors.
If no sensor is detected, the battery might be empty or the sensor damaged.

Fail



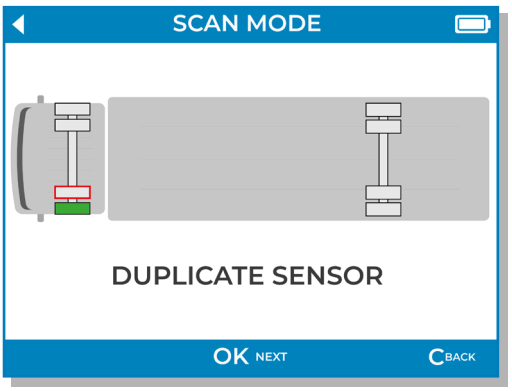
Next

or

Use the arrow buttons to select another wheel.

If “Duplicated Sensor” is shown, please re-read both wheel positions. If universal sensors are used, please reprogram.

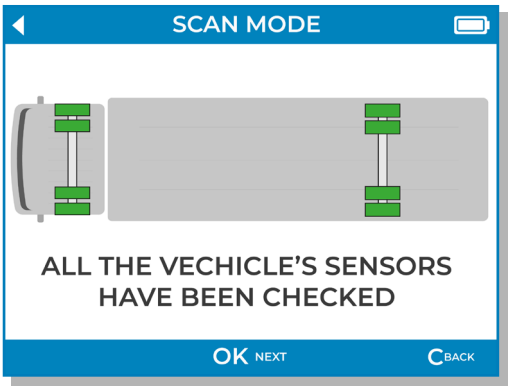
Fail



OK — Next

or

Use the arrow buttons to select another wheel.



OK — Next.

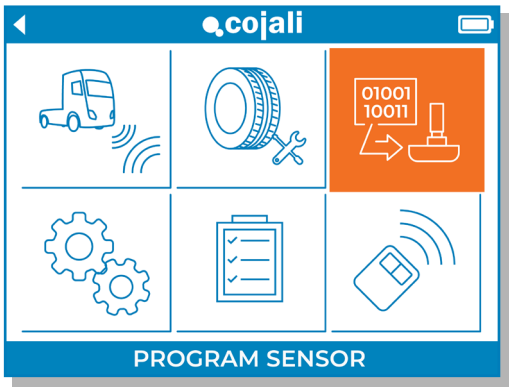
C — Back.

All the vehicle’s sensors have been checked.

2.2 PROGRAM SENSOR

This section explains how to obtain the ID of a sensor to insert it into a programmable sensor:

- “If the “old” sensor is readable, refer to “Copy ID” section.
- If the “old” sensor is not readable, refer to “Create New Sensor” section or “Manual ID” section to create a new ID.”

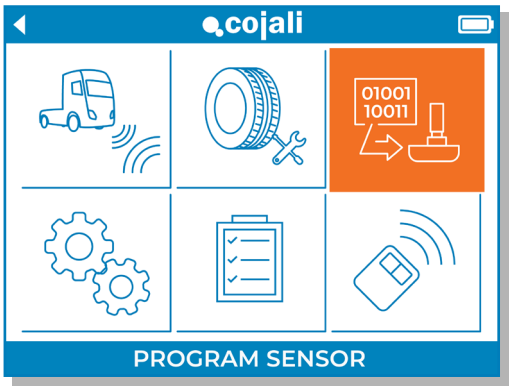


To program a sensor, you must:

- Select the universal sensor model,
- Then select a vehicle model.

2.2.1 SELECT PROGRAM SENSOR

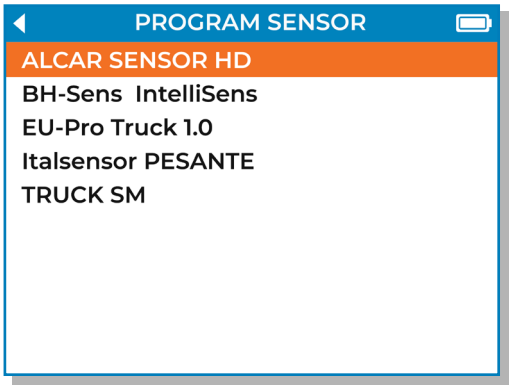
From the main menu, select Program Sensor.



Select a function.

2.2.2 SELECT SENSOR MODEL

Select the sensor.

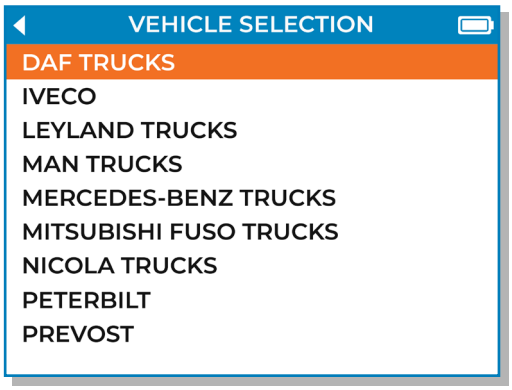


Select a function.

Back.

2.2.3 SELECT VEHICLE TYPE AND MODEL

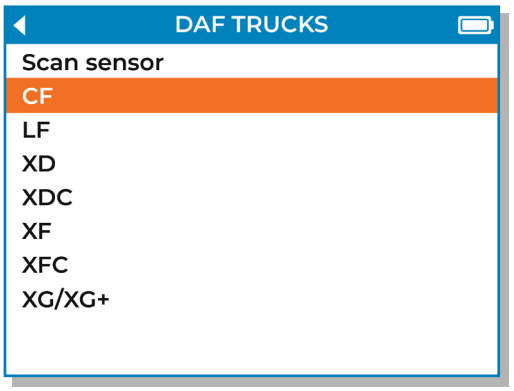
Select the vehicle brand.



Select a brand.

Back.

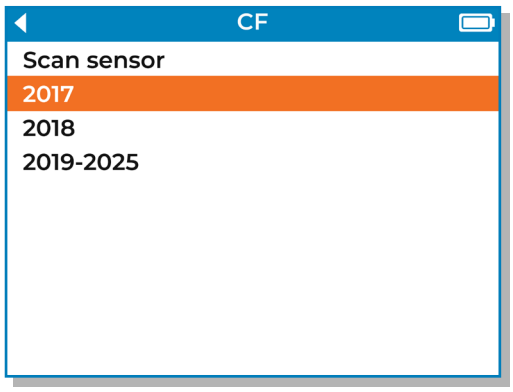
Select the vehicle model.



Select a model.

Back.

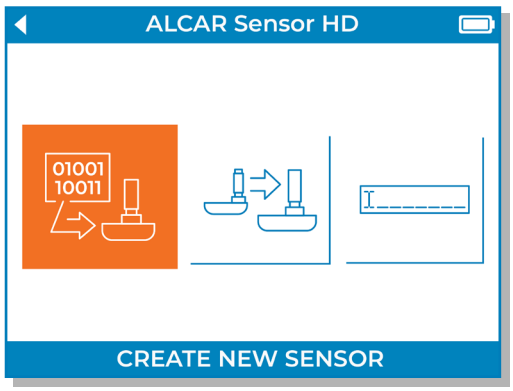
Select the year of the vehicle.



Select a year.

Back.

The Program Sensor menu is displayed.



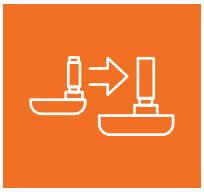
Next.

Back.

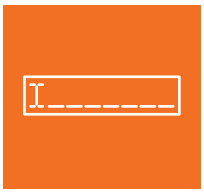
2.2.4 PROGRAM SENSOR

To program a sensor, you must:

- Automatically create a new sensor with Create New Sensor



- Copy ID of an existing sensor to a new programmable sensor with Copy ID

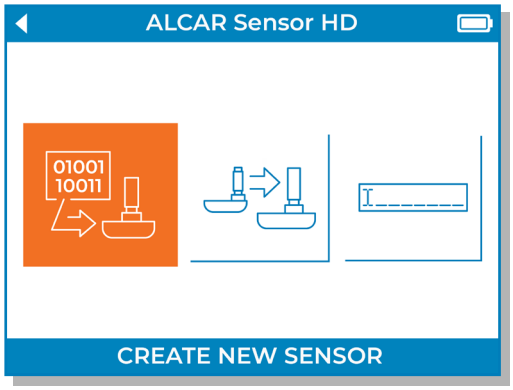


- Manually create a new sensor with Manual ID

2.2.4.1 CREATE NEW SENSOR

Automatically creating a new sensor.

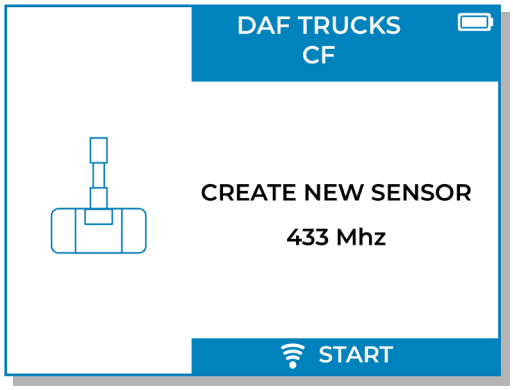
Select Create New Sensor.



Select a function.

Back.

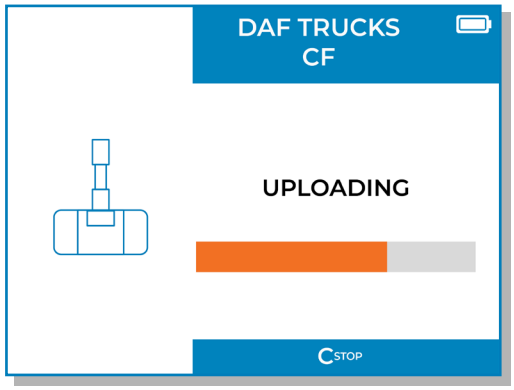
Put the new programmable sensor close to the antenna of the device.



Upload data to blank sensor.

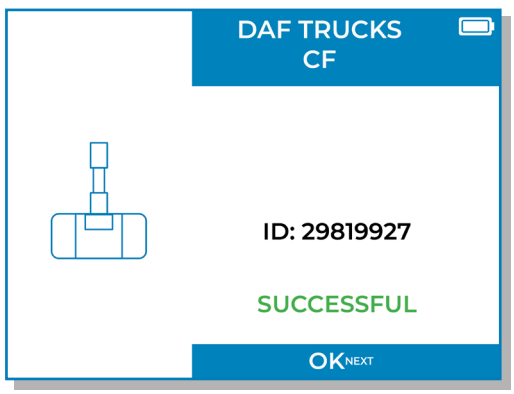
Back.

New data are written to the new programmable sensor.



Stop.

The data has been correctly written to the new sensor. The ID of the new sensor is displayed with the message “Successful”.

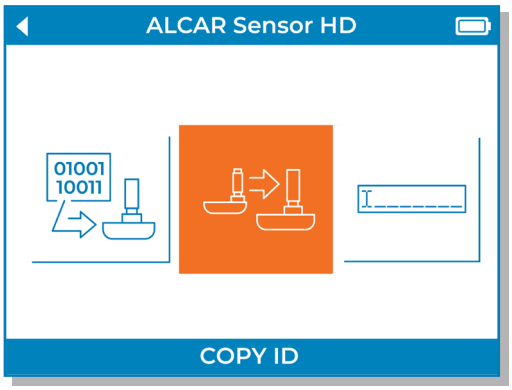


Next.

2.2.4.2 COPY ID

Copy ID of an existing sensor to a new programmable sensor.

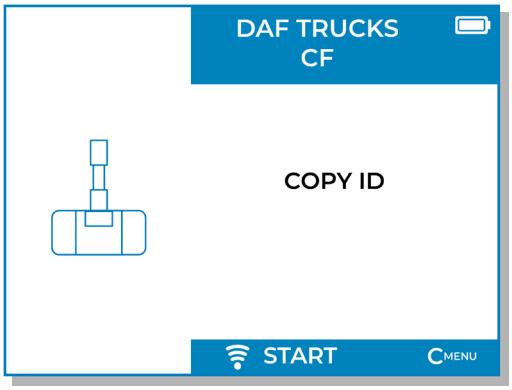
Select Copy ID.



OK Select a function.

C Back.

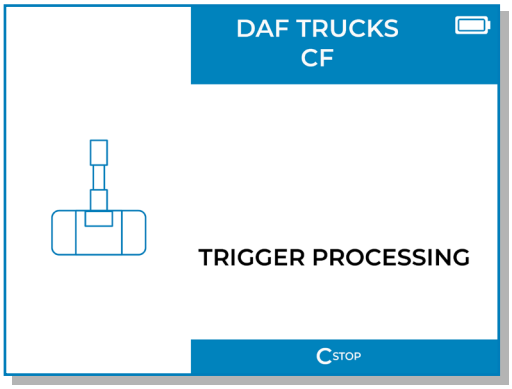
Put the existing sensor close to the antenna of the device.



Read the data from the existing sensor.

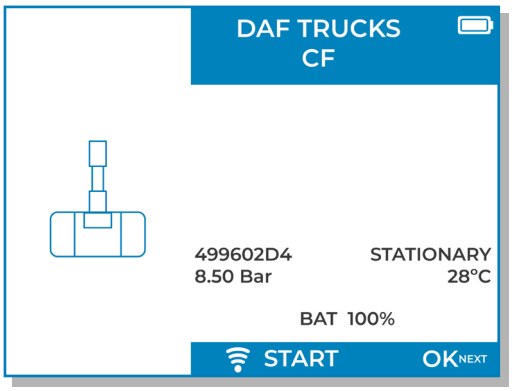
C Back.

New data are written to the new programmable sensor.



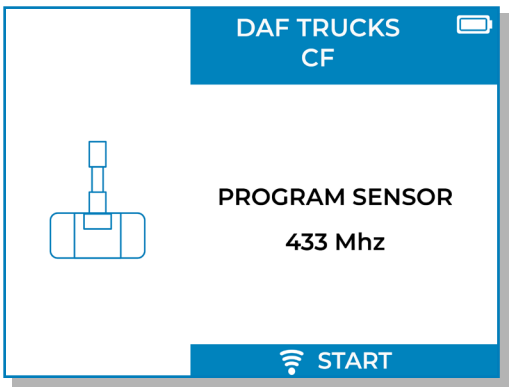
C Stop.

The ID and data of the existing sensor is displayed.



OK Next.

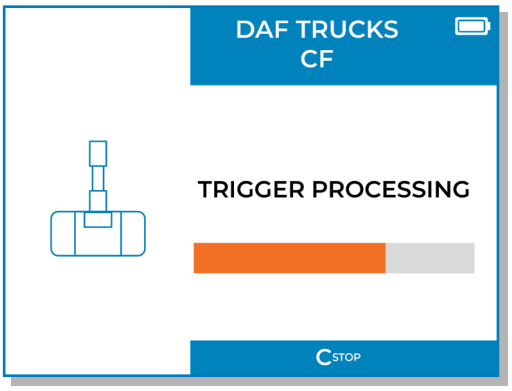
Put the new programmable sensor close to the antenna of the device.



Upload data to blank sensor.

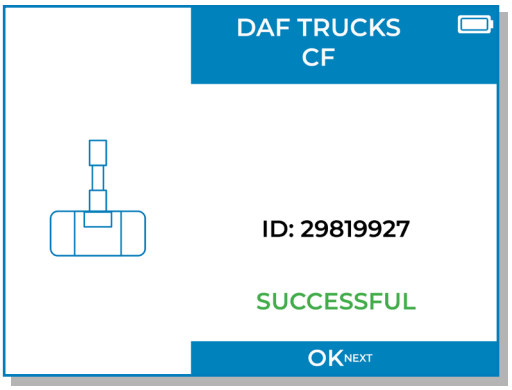
Stop.

The data from the existing sensor is copied to the new programmable sensor.



Stop.

The data has been correctly written to the new sensor. The ID of the new sensor is displayed with the message “Successful”.

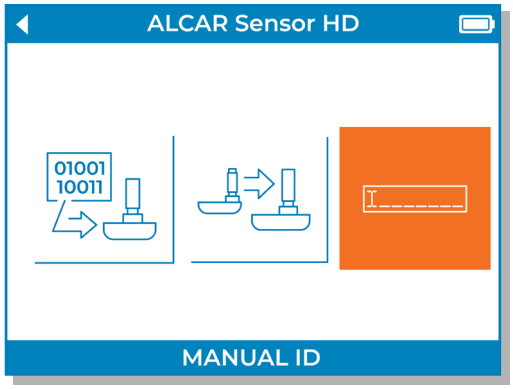


Next.

2.2.4.3 MANUAL ID

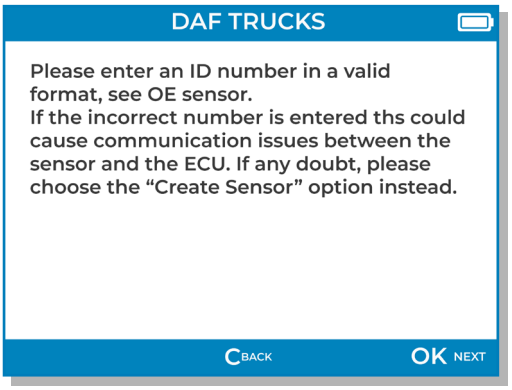
Manually creating a new sensor.

Select Manual ID.



Next.

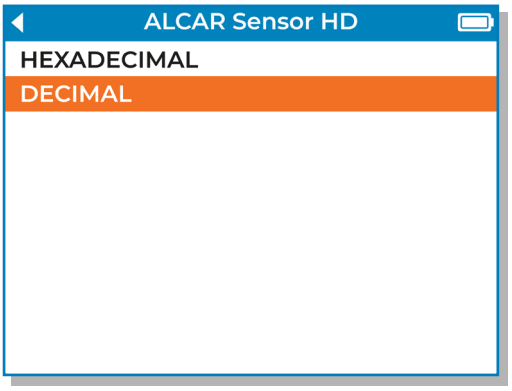
Back.



OK — Next.

C — Back.

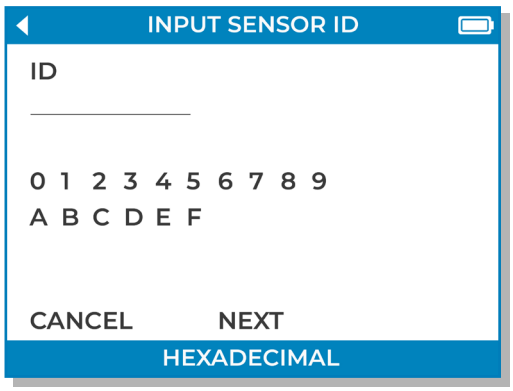
Select numeric format.



OK — Select a format.

C — Back.

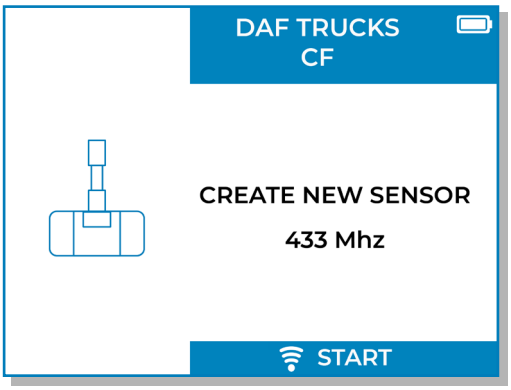
Enter the sensor ID



Use the arrows to select a number.

OK — Confirm the number.
Next.

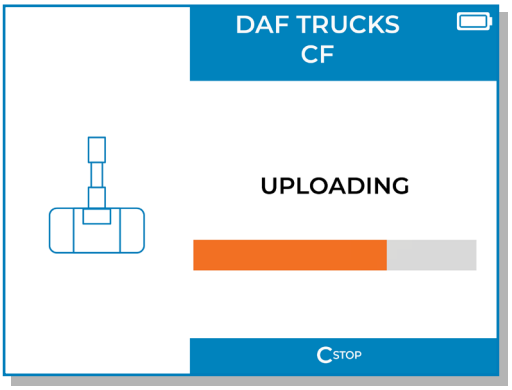
Put the sensor close to the antenna of the device.



To upload ID to sensor.

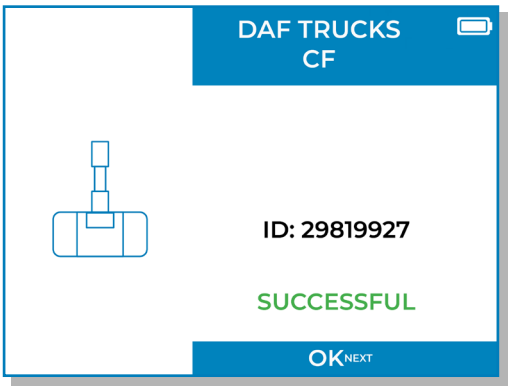
C — Stop.

The ID is copied to the sensor.



C Stop.

The ID has been correctly written to the sensor. The ID of the new sensor is displayed with the message “Successful”.

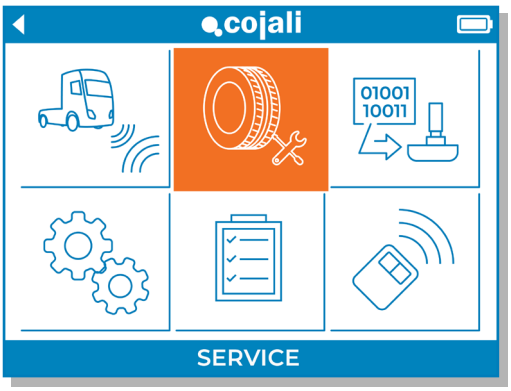


OK Next.

2.3 SERVICE TPMS

These are detailed system relearn instructions and a spare parts database that lists all available sensor references for each vehicle.

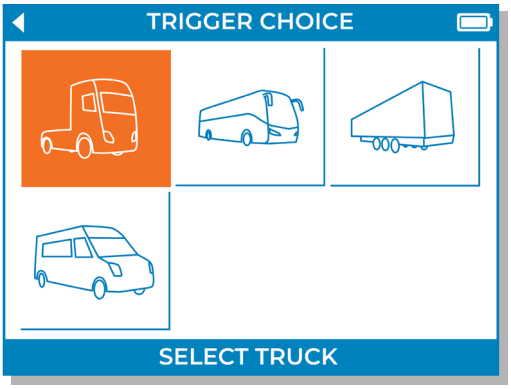
From the main menu, select Service TPMS.



Select a function.

2.3.1 SPARE PARTS

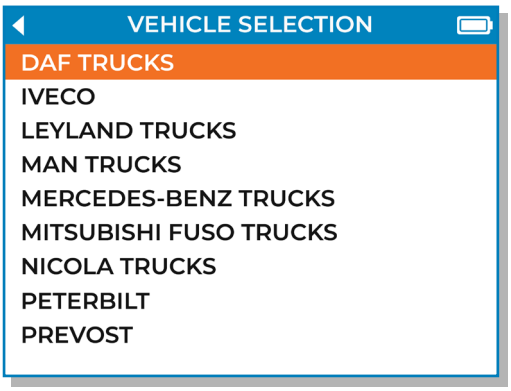
Select the vehicle type.



OK Next.

C Back.

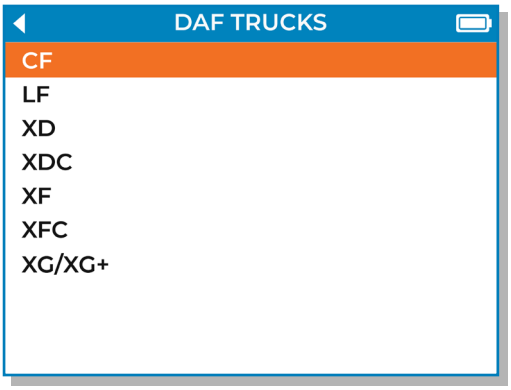
Select the vehicle brand.



Next.

Back.

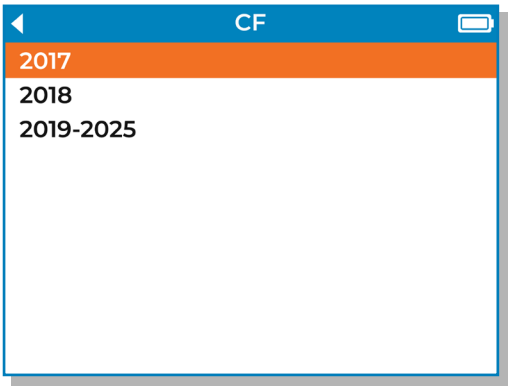
Select the vehicle model.



Select a model.

Back.

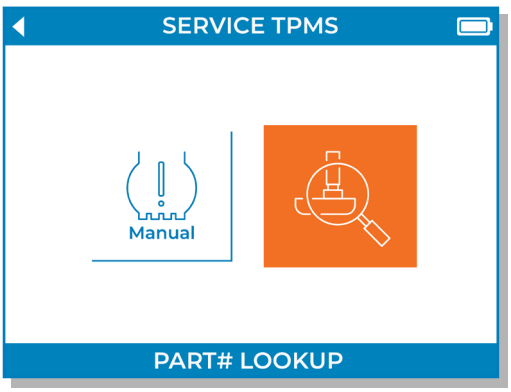
Select the year of the vehicle.



Select a year.

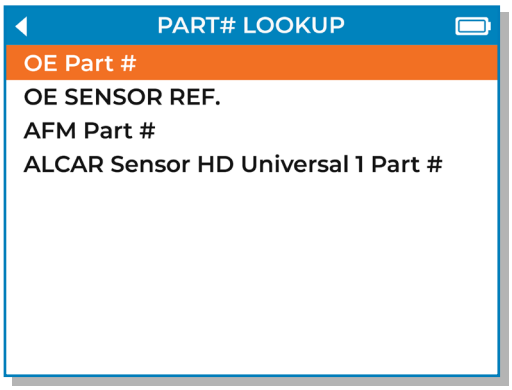
Back.

Select PART# LOOKUP



Next

Back.



Select.

Back.

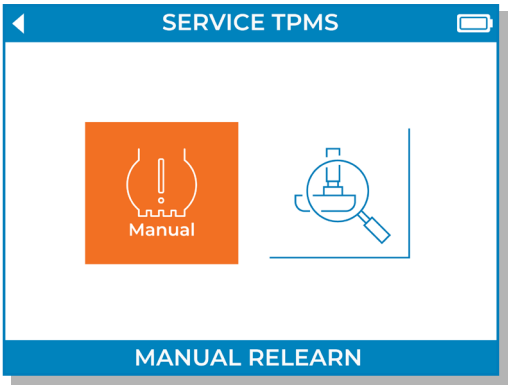
OE Part #

Back.

Back.

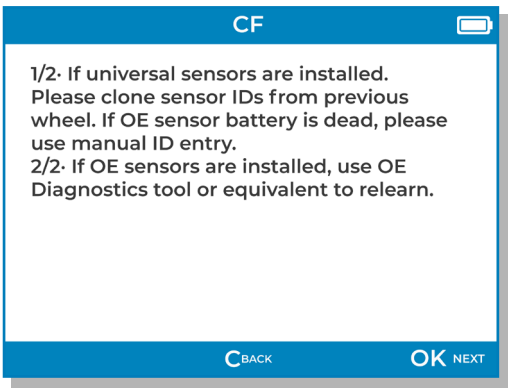
2.3.2 MANUAL

Select Manual Relearn.



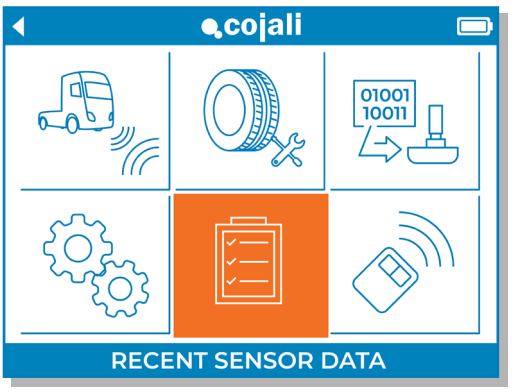
Next

Back.



2.4 RECENT SENSOR DATA/HISTORY

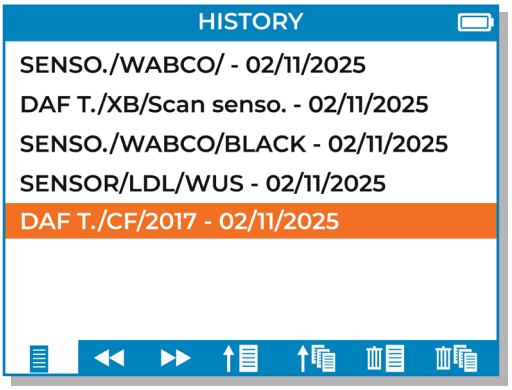
History of tests performed with Jaltest TPMS.



OK Next.

C Back.

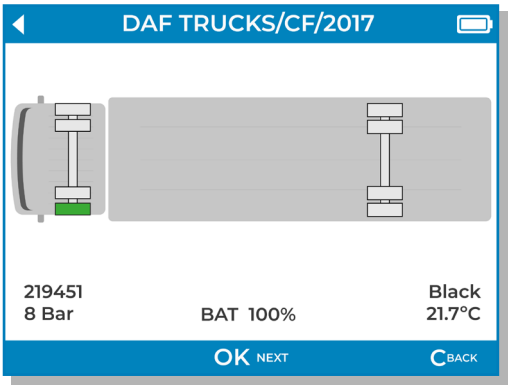
Note: Available in future versions.



OK Next.

C Back.

Different test reports are displayed. A maximum of the last 200 reports are displayed. The footer options are from left to right: display; previous and next history page; send report to Jaltest; send complete history to Jaltest; delete report; delete complete history.
By pressing OK to display, the data of the sensors tested during this test are displayed:

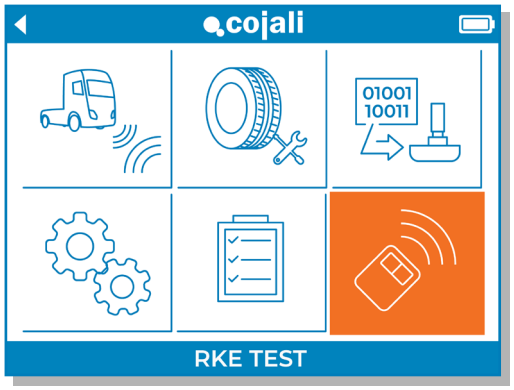


OK Next.

C Back.

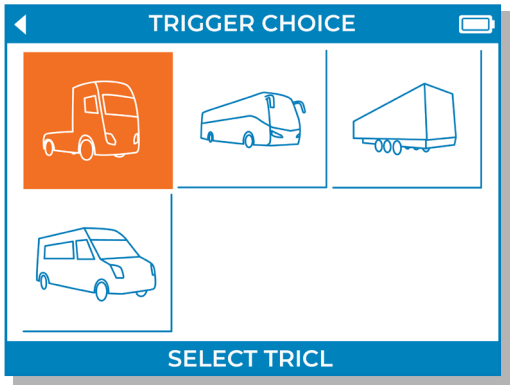
2.5 RKE TEST

Functionality to check both the frequency and the power of the signal sent by a remote control device, such as a vehicle key fob.



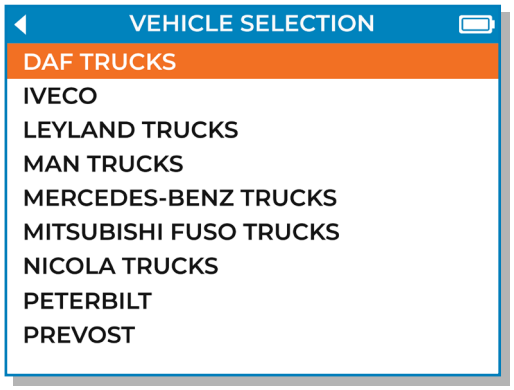
OK Next.

C Back.



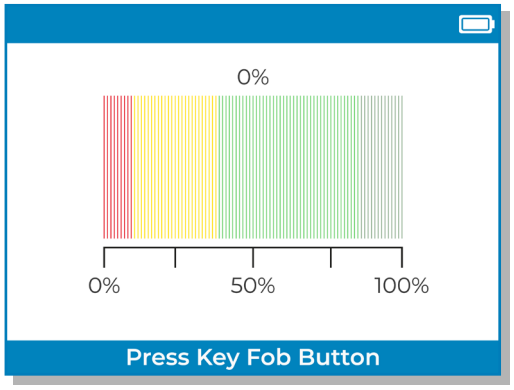
OK Next.

C Back.



OK Next.

C Back.

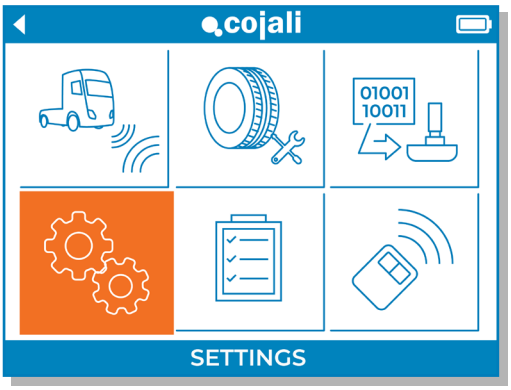


OK Next.

C Back.

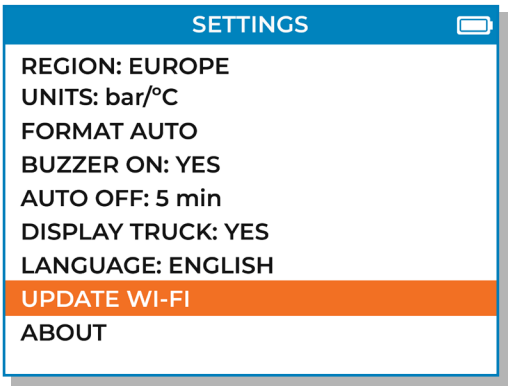
3 Settings

From the main menu, select Settings.



Select a function.

Use the arrows to select a setting.



Change the setting.

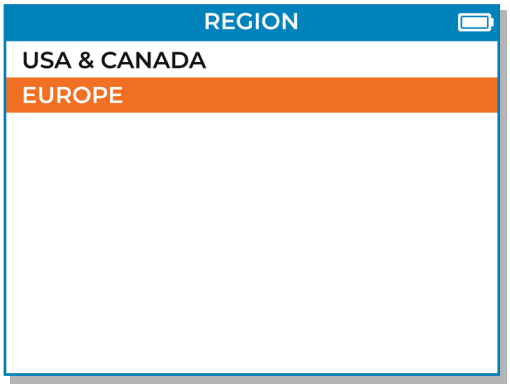
Back.

3.1 KEY FUNCTIONAL DESCRIPTIONS

- REGION: Select the area of work, USA & CANADA, EUROPE.
- UNITS: Change the air pressure and temperature display (PSI, kPa, or bar with °F or °C).
- FORMAT: Change the format of sensor ID display (Auto, Decimal, Hexadecimal).
- BUZZER: Turn buzzer to ON or OFF (YES or NO).
- AUTO OFF: Time to turn off the device automatically after not being operated.
- DISPLAY VEHICLE: Display or clear the vehicle in the Check Sensor and Program Sensor sections.
- LANGUAGE: Change language displayed on the tool.
- ABOUT: Display the software version of the tool and licence validity.

3.2 CHANGE REGION SETTINGS

Use the arrows to select a zone.



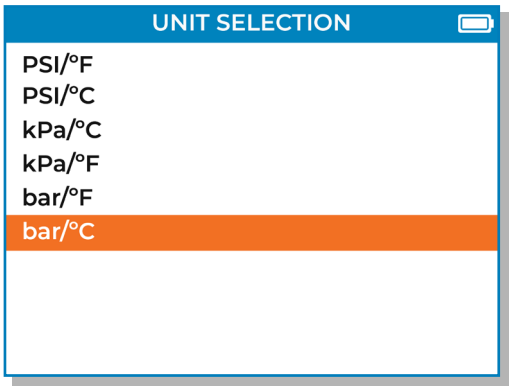
Validate.

Back.

The tool will load the new database for the selected zone.

3.3 CHANGE UNIT SETTINGS

Use the arrows to select pressure and temperature units.

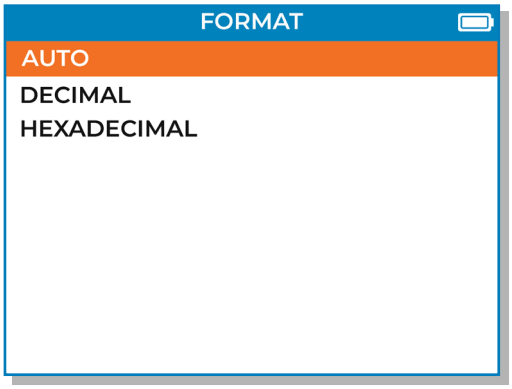


Validate.

Back.

3.4 CHANGE FORMAT SETTINGS

Use the arrows to select pressure and temperature units.



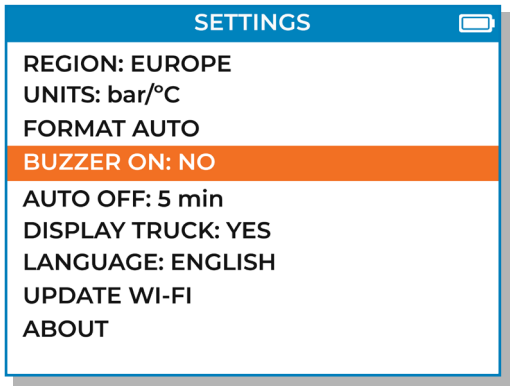
Validate.

Back.

- AUTO: Display of the sensor ID format in the way sensor is transmitting.
- DECIMAL: Display of sensor ID in decimal (0 to 9).
- HEXADECIMAL: Display of sensor ID in hexadecimal (0 to F).

3.5 CHANGE BUZZER ON SETTINGS

Use the arrows to select YES or NO.



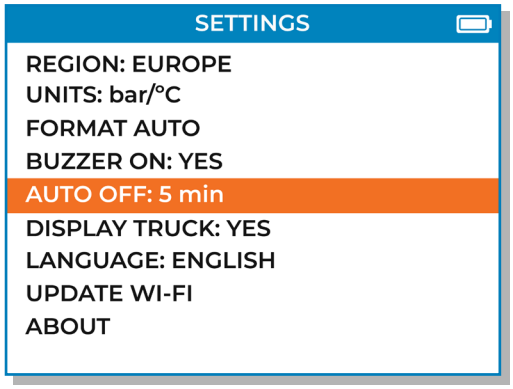
Validate.

Back.

When the “Buzzer on” is set to YES, a beep is triggered when the sensor ID is detected.

3.6 CHANGE AUTO OFF SETTINGS

Use the arrows to increase or decrease the duration of the auto off.



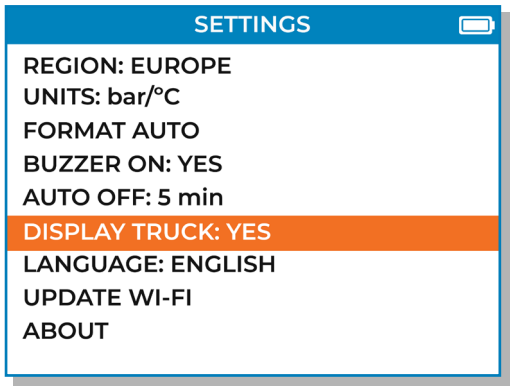
Validate.

Back.

Auto off varies from Disabled (never) to 60 minutes.

3.7 CHANGE DISPLAY VEHICLE SETTINGS

Use the arrows to select YES or NO.

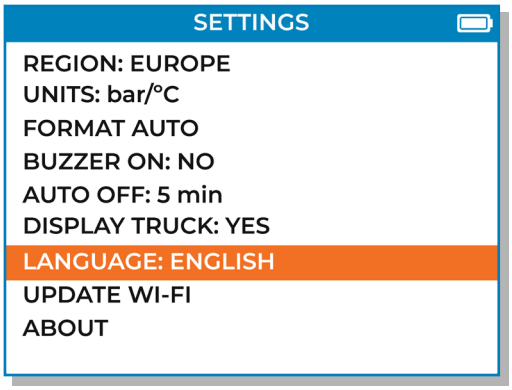


Validate.

Back.

Display or clear the vehicle in the Check Sensor and Program Sensor sections.

3.8 LANGUAGE



Next.

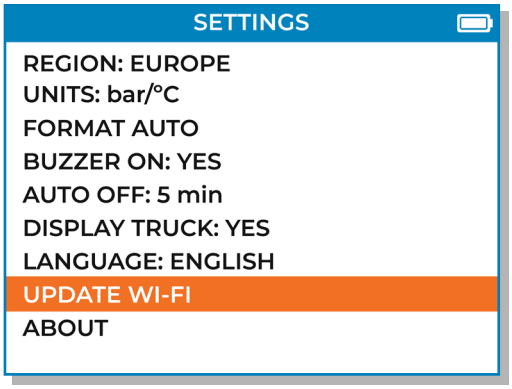
Back.

Next.

Back.

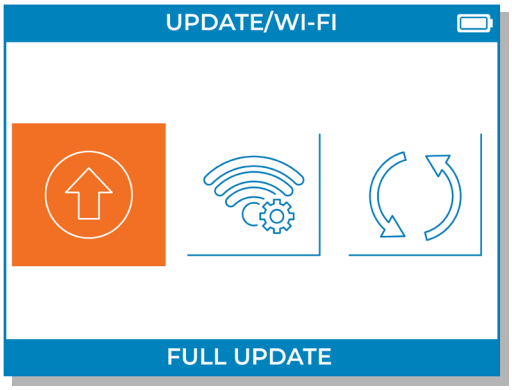
3.9 WI-FI UPDATE

Note: Available in future versions.



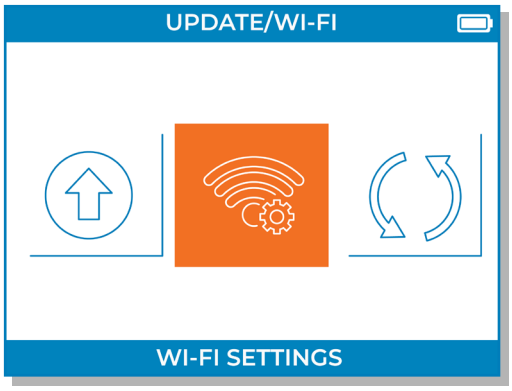
Next.

Back.



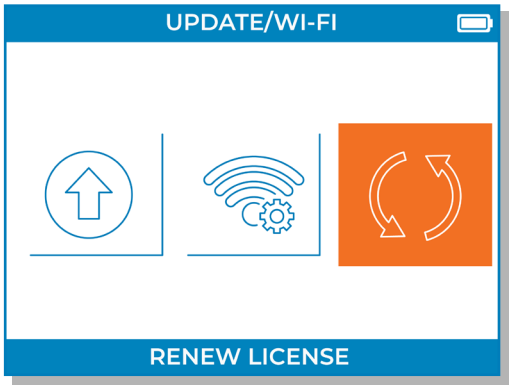
Next.

Back.



OK Next.

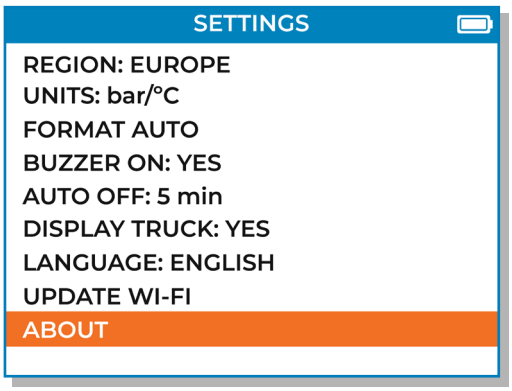
C Back.



OK Next.

C Back.

3.10 ABOUT



OK

or

C Return to the Settings menu.

This menu displays the serial number, the current version and information about the device.

4Miscellaneous

4.1 CHARGE

Low Battery Indication. Your TPMS 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.

Battery indicator status:

0% 25% 50% 75% 100%

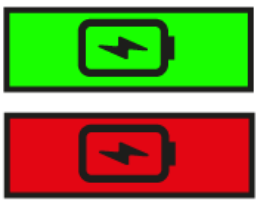
When 0% is flashing, the tool will turn off after 10 seconds.

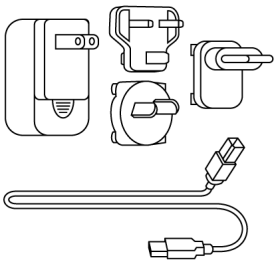
The battery is charging.

There is an issue with the battery. Please contact after sales service.

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.





USB Power supply connector

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 light will turn on to indicate that charging is required.

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.

4.2 TOOL UPDATE

When a new protocol becomes available, it is necessary to update your tool. Please contact your distributor for more information.

4.3 COJALI GENERAL SALES CONDITIONS

These General Sales Conditions of COJALI S.L., hereafter Cojali, will be applicable to all the commercial relations maintained with its clients.
This document invalidates all previous General Sales Conditions different from those included in this document.

1. Definitions
In these Conditions, the following terms shall bear the meaning defined below: "Seller" refers to Cojali. "Client" refers to the natural or legal person who contracts the purchase of Goods with the Seller. "Goods" refers to the product sold by the Seller to the Client pursuant to these General Sales Conditions.

2. General Information
The sale and supply of Goods, made by the Seller, shall be governed by these General Sales Conditions, except for those matters expressly agreed upon otherwise in the corresponding offer. The Client considers themselves informed about the General Sales Conditions and accepts these, to all intents and purposes, from the moment in which the order of Goods is placed to the Seller. If these General Sales Conditions are subject to translation into any foreign language, Spanish language shall prevail over any other translation in the event of disputes, contestations, lawsuits or difficulties in the comprehension or compliance with the General Sales Conditions, particularly those referring to the relations between the parties.

3. Intellectual and Industrial Property
The Seller does not own third-party trademarks, which are used only as a reference. Allusions to original brands are made for the identification of the products commercialised by the Seller, only for guidance purposes. Therefore, the Seller does not have corporate connection with the companies that own said trademarks. The intellectual and/or industrial property of the Goods, the attached information, equipment, layouts, pictures, drawings, software incorporated or related thereto, belong to the Seller. Therefore, their use for other purposes is expressly prohibited for the Client, as well as their total or partial copy or transfer of use to third parties without the prior written consent of the Seller.

4. Orders
In order to consider the order of Goods performed, the Seller shall expressly accept it, thus becoming binding for both parties from that moment. Orders placed by email, fax or any other means that proves in written form the acceptance of the order by the Seller will be fully valid. Weights, dimensions, capacities, technical specifications and configurations regarding the Goods of the Seller included in the catalogues, flyers, leaflets and technical documents are intended for guidance and have non-binding effects. Modifications and/or variations in the orders proposed by the Client shall be notified to the Seller in written form, by any means that thereby provide a written record. For these modifications or variations to become valid, they shall be expressly accepted by the Seller.

5. Prices
Prices exclude any taxes, duties or charges, which will be passed on later in the invoice, with the corresponding tax rates, as well as any expenses related to the sale of the Goods and their delivery. Unless otherwise stipulated in the order, or an agreement on this matter between the Client and the Seller derived from their commercial relations, the prices do not include transport costs, which will be always charged as an independent concept. The prices may be changed by the Seller at any time by providing written notice to the Client.

6. Conditions of payment

The invoice issued by the Seller will include the sales payment conditions of the Goods. Said conditions shall comply with the instalments of the Spanish Law 15/2010, of 5 July, which establishes measures to combat late payment in commercial transactions, without exceeding under any circumstances the time limits established therein. In the absence of an agreement between the parties, the payment shall be made upfront in any case. The payment shall be made to the bank account of the Seller. The payment shall be made without any deductions such as non-agreed withholdings, discounts, expenses, taxes or fees, or any other deduction. If for reasons beyond the control of the Seller the delivery of the Goods is delayed, the conditions and instalments of the contractual payment shall remain. In case of late payment by the Client, they shall pay to the Seller, without any requirement and from the payment due date until the actual payment of amounts due is made, the interest on arrears of the payment, which shall be calculated in accordance with the Spanish Law 3/2004, of 29 December. The payment of said interests shall not free the Client from the obligation of making the remaining payments under the agreed conditions. Likewise, when the Client incurs in arrears, they shall be responsible for all costs of collection, such as litigation costs or arbitration costs, as well as the lawyers' fees, incurred by the Seller to enforce payment. If the Client incurs in arrears of the agreed payments, the Seller may suspend temporarily or permanently, at their convenience, the delivery of Goods or the execution of the associated services, without prejudice of requiring the Client the payment of the arrears and of demanding, when applicable, additional compensations for this suspension in the delivery of Goods or the execution of the associated services.

7. Domain Reservation

As established in the Spanish Law 3/2004, of 29 December, which establishes measures to combat late payment in commercial transactions, the Seller will retain ownership of the Goods supplied to the Client until the full payment of their price. In case of non-payment of the sale price of the Goods by the Client, they are obliged to return them to the Seller, being responsible for all costs and risks incurred in such return.

8. Delivery Term and Conditions

The time and place for the delivery of Goods shall be specified by the Seller in the acceptance of the order. The delivery time may be modified when: a) The Client fails to deliver on time the necessary documentation to place an order of Goods. b) The Client requires changes in the order that, accepted by the Seller, cause a delay in the delivery, which shall be duly notified to the Client. c) To carry out an order, it is imperative that the Client or their subcontractors perform any work and that these have not been implemented on time. d) The Client has failed to fulfil the contractual obligations of the order, especially those related to the payments. e) Due to causes not attributable to the Seller that could lead to delays in the production or delivery of all or any of the Goods of the order. The following are considered valid explaining reasons for the delay: strikes of suppliers, transport and services, failure in the supply by third parties, breakdowns in transport systems, floods, storms, riots, strikes, strikes of the personnel of the Seller or their subcontractors, sabotage, accidental stops of the Seller workshops due to breakdowns, etc. and force majeure events included in the current legislation. In the previous cases, the delay in the delivery shall not imply any changes in the payment conditions of the order of the Goods.

9. Packaging

The packaging materials that come along with the Goods will belong to the Client. Notwithstanding the foregoing, upon delivery of the Goods to the Client, the Client shall be fully responsible for them and in particular for their proper handling in accordance

to the applicable regulations, especially in the areas of safety, environment, and waste treatment.

10. Inspection and Receipt
Once the order is received by the Client, they shall verify its content within 10 days from the date of receipt, in order to verify any defects and/or faults that may be imputed to the Seller, and shall communicate immediately to the Seller the existence of these defects and/or faults in order to take the measures deemed necessary for their elimination. After these days from the date in which the Client receives the order of Goods, and without the Seller having received written notice of eventual defects and/or faults, the order shall be considered as accepted, and commencing from that day the warranty period.

11. Return of Goods. Claims
On the 10-day period established in the previous clause, the Client may notify the Seller of their intention to make a return, which shall be properly justified. The Seller shall communicate the procedure to be followed so that the refund is performed correctly, upon express acceptance of the refund. The return of the Goods claimed by the Client shall be carried out with the original packaging and in perfect condition. Once the return has been delivered in the facilities of the Seller, its content and state shall be checked. Those Goods already used, assembled in equipment or disassembled will not be accepted. In any case, the claims of the Client to the Seller shall be submitted in written form.

12. Warranties
The Seller warrants the supplied products in relation to defects in materials, manufacture or assembly for a period of one year, with the exception of the Reman product line, which shall be warranted for six months. The warranty shall consist in the repair or replacement of the items that have been recognised as defective, either by defects in material or by defects on manufacture or assembly. The repair shall be made at the facilities of the Seller and the Client shall be charged with the expenses incurred by the submission of the products or defective items to the Seller, such as transport expenses, taxes, customs, etc., as well as the costs of the subsequent delivery, once the reparation has been made. The repair or replacement of defective items does not change the starting date of the warranty period of the whole product, which will be of one year. Under no circumstances shall the Seller be responsible for the repairs carried out by personnel not belonging to its organisation. The damage or defects due to normal wear because of the use of the Goods remain excluded from the warranty. It remains also excluded from the warranty, which shall be considered expired, the damage and defects caused by negligence, beatings, misuse, inadequate preservation or maintenance, incorrect or defective assembling or installation, variations in the quality of the power supply (voltage, frequency, disturbances...), modifications made to the Goods without the approval of the Seller, installations made without following the technical instructions of the Goods, and in general any cause that is not attributable to the Seller. The Seller is not responsible for the damages caused by the Goods during the warranty period. The Seller is only responsible for the replacement of the damaged Goods.

13. Disclaimer
The liability of the Seller, their agents, employees, subcontractors and suppliers for the claims arising from the performance or breach of their contractual obligations is limited to and shall not exceed the whole contractual base price and shall not include either in any case the damages resulting from the loss of profits, loss of income, production or use, capital costs, inaction or delay costs, claims from the customers of the Client, costs of alternative energy, loss of anticipated savings, increase on the operating costs or any special damages, indirect or consequential or losses of any

type. The Seller, its agents, employees, subcontractors and suppliers shall not be liable for additional demands, especially those due to consequential damages. Likewise, it shall not be liable for any personal, material or monetary damage that the personnel of the Client or a third party might suffer due to material defects.

14. Applicable laws. Submission to Jurisdiction and Competent Authority
Any commercial transaction with the Client shall be governed by the Spanish Legislation, which will apply in all matters related to the interpretation, validity and implementation of these General Sales Conditions. The parties expressly reject any other jurisdiction that might correspond to them and are subject to the jurisdiction of the Courts of Alcázar de San Juan, province of Ciudad Real, to resolve any dispute that may arise in the interpretation or compliance with these General Sales Conditions.

4.4 SAFETY BATTERY AND CHARGE INFORMATION

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

1. 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.

2. 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.

3. 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.

4. 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 manufacturer Cojali S. L. and supplied with the device.
- The tool must be returned to the factory for battery replacement.
- Opening the tool or tampering with the seal placed on the tool, if broken, will void the warranty

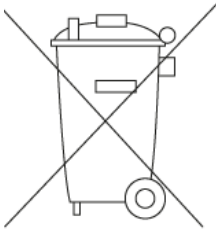
5. Safety forfor lithium-po battery use

- **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 distribuitor.
- 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.
- 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 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. Even a fire might be caused.
- **Cojali S.L.** company disclaims any responsibility for damage sustained in the event of non-compliance with these safety instructions.
- Using a lithium-polymer 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.
- **Cojali S.L.** 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.

4.5 MANUFACTURER

Cojali S. L.
Avenida de la Industria s/n
13610 Campo de Criptana, España
cojali.com

4.6 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 Cojali S. L.

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