VDO TPMS Pro

User manual

36/2014 (1.0) - UK

VDO

REVISION OF THE ATEQ VDO TPMS PRO MANUAL

Due to continuing improvements, the information contained in this user manual, the features and design of this device are subject to be changed without prior notice.

Edition/ Revision	**Reference**	**Date** (week/year)	**Chapters updated**
First edition	UM-366EVB-U	39/2014	European VDO version

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User guide
VDO TPMS PRO TOOL

1. SPECIFICATIONS

Battery Type:	Rechargeable Lithium Ion
Battery Life:	Approximately 1,000 activations per full charge.
Dimensions (Max. L,W,D):	7.9" x 4.7" x 1.6" (20.0 cm x 12.0 cm x 4.0 cm).
Case Material:	High Impact ABS.
Response Frequency:	Main frequencies: 315 MHz and 433.92 MHz (supporting most specific frequencies).
Low Battery Indication:	LCD bar graph display.
Weight:	Approx. 2 lbs.
Temperatures:	Operating: -4° F to 131° F (-20° C to +45° C). Storage: -4° F to 131° F (-20° C to +45° C).

Product content:

- VDO TPMS Pro Instrument.
- USB cable.
- RJ45 cable.
- OBDII Module.
- Power supply + UK adapter.

Option accessories:

- Docking Station (option).
- IrDA Printer (option).

2. IMPORTANT SAFETY INSTRUCTIONS

Do not discard. Retain for future reference.

This device complies with Part 15 of the FCC Rules

Operation is subject to the following two conditions:

(1) This device will not cause harmful interference, and

(2) This device will accept any interference received, including interference that may cause undesired or improper operation.

WARNING: 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:

Do not use on live electrical circuits.

Must read instructions before use.

Wear safety goggles. (User and bystanders).

Risk of entanglement.

Read the Warranty, Safety and Recycling information at the end of this user guide.

3. CAUTION

READ THESE INSTRUCTIONS BEFORE USING

Your Tire Pressure Monitoring (TPM) tool has been designed to be durable, safe, and reliable when properly used.

All **VDO TPMS PRO TOOLS** are intended to be used only by qualified and trained automotive technicians or a in light industrial repair shop environment. Please read all instructions below before using. Always follow these safety instructions. If you have any questions pertaining to the safe or reliability use of this tool, please call your local dealer.

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

User and bystanders must wear safety goggles 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, alcohol, etc as this may damage the plastic surface.

5. Water & 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. Use

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.

4. FUNCTION KEYS

	Power ON /OFF switch		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**".

Header icons

The tool is plugged on USB.

The OBD module is plugged to the tool.

The Bluetooth is on (not available).

The Wifi is on (not available).

Wifi signal strength = 100%; = 66%; = 33%.

A message is arrived (not available).

4.1. BOTTOM ICONS

This icon is to back to the home page.

This icon must be selected to send sensor data to the ECU.

This icon is to delete the current sensor data displayed.

This icon is to send the sensor data to the printer.

This icon is to edit the job info.

5. POWER ON

Press key to turn on device, the **VDO TPMS PRO TOOL**.

The tool displays the start screen.

Wait a few seconds and the tool displays the main menu.

The tool is ready to operate.

To power off the tool, press and hold (about 3 seconds) the key.

6. OPERATING INSTRUCTIONS

6.1. VDO TPMS PRO TOOL OVERVIEW

Read and diagnose sensors, **OBDII ECU** reset and transfer data to **ECU**.

Note*: With some 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.*

Service Procedure

Section 1.0: Read Sensor Test

Before servicing the tires/wheels, using your **VDO TPMS PRO 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.

Note*: If the sensors do not trigger, please refer to the Troubleshooting section of this Guide.*

Perform tire/wheel service.

For vehicles that require retraining, please see to Section 2.0

Section 2.0: Learning TPM System

With the vehicle in learn mode, begin by triggering the driver's front left (LF) wheel sensor. Some vehicles will provide an audible chirp 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 chirp twice indicating that the TPM system has been retrained.

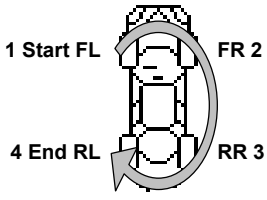


Fig. 1

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.

VDO TPMS PRO USE

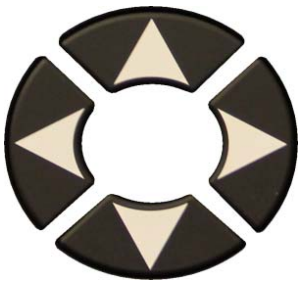
IMPORTANT:

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.

Warning*! For best sensor triggering, hold the tool against the tire sidewall right above the sensor.*

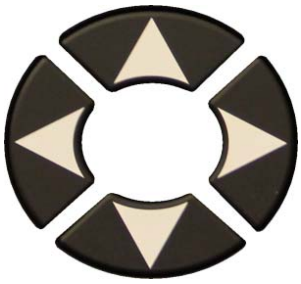
1. CHECK SENSOR

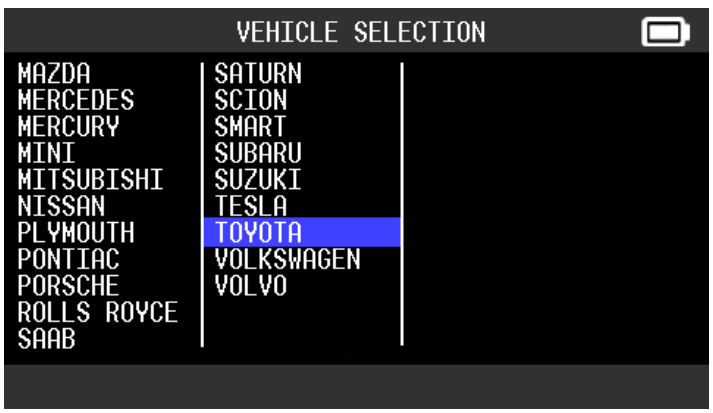
This is to trigger all the sensors on the vehicle and reprogram the id's in the ECU through OBD port.



Continue

1.1. SELECT CAR MANUFACTURER

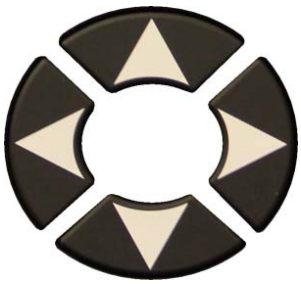




= Continue

= Previous

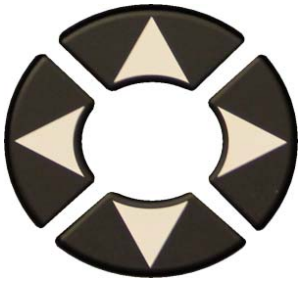
1.2. SELECT VEHICLE MODEL

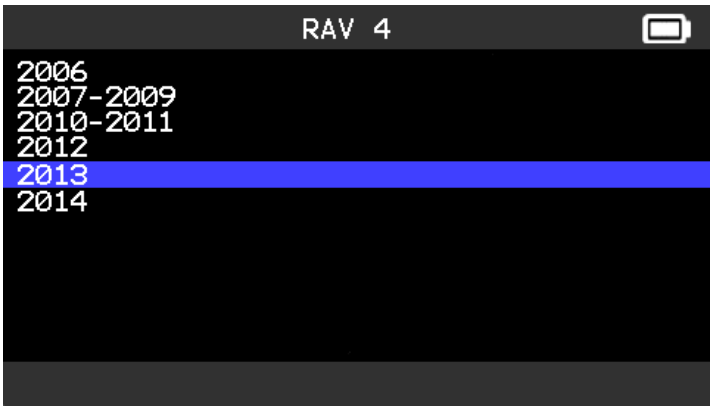


= Continue

= Previous

1.3. SELECT YEAR





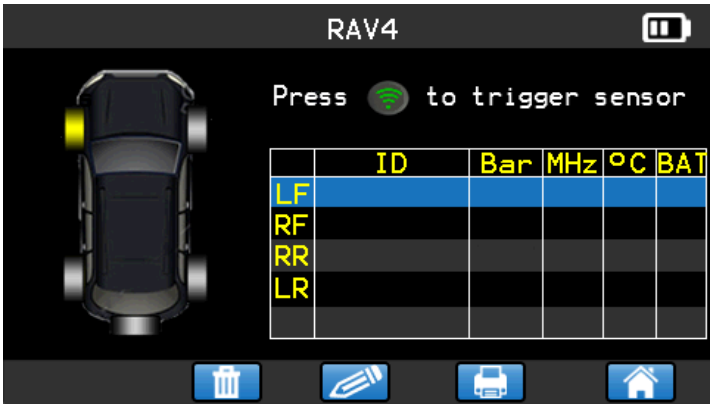
= Continue

= Previous

1.4. TEST SENSORS

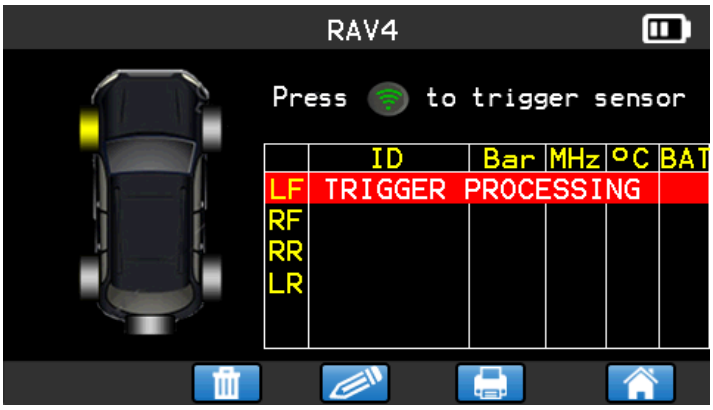
The tool is ready to trigger sensors.

To scroll wheels.



The tool is triggering the sensor.

LF



Pass

The tool is triggering the sensor.

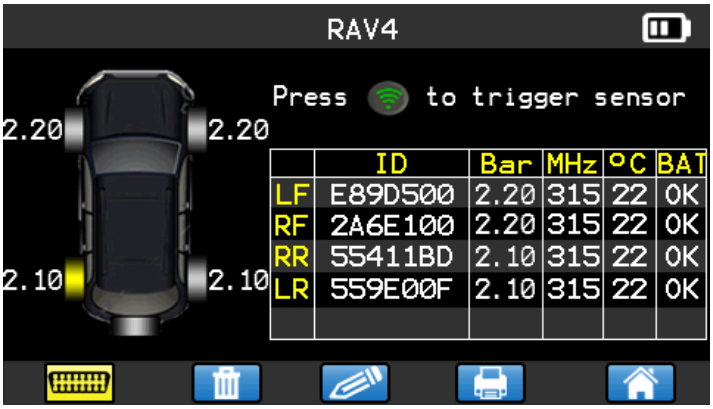
OK = Continue C = Previous and erase results

Trigger all wheels.

RF

RR

LR



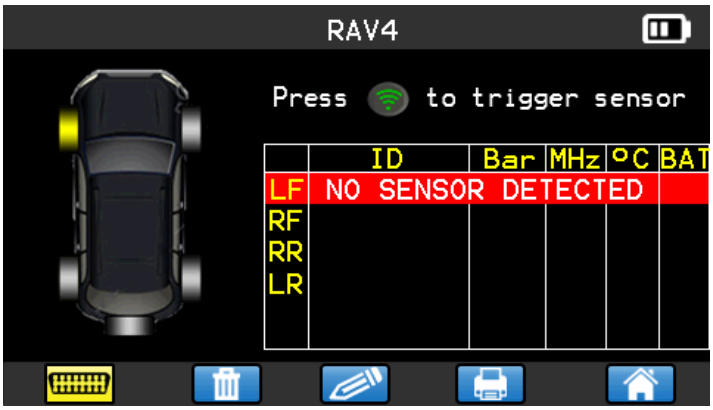
Pass

Pass

Pass

OK = Continue C = Previous and erase results

LF



Fail

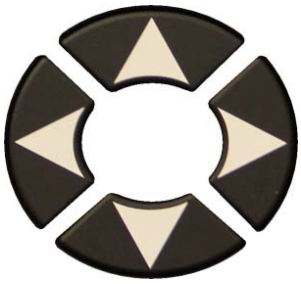
The tool has not detected a sensor. Try again.

OK = Continue C = Previous and erase results = Next wheel.

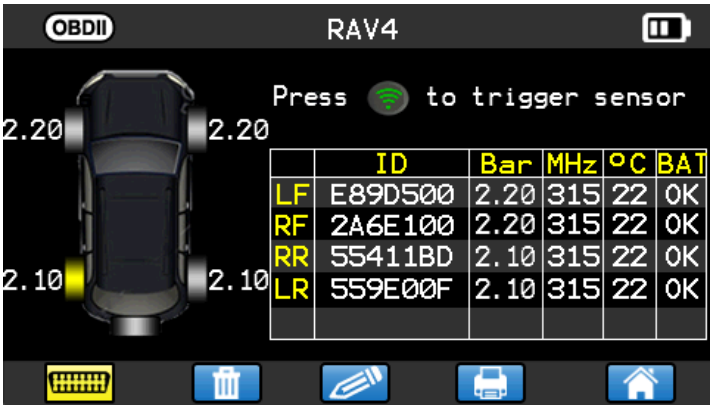
1.5. REPROGRAM ECU THROUGH OBDII PORT

After all sensor IDs are read and displayed on the tool, connect **OBD** module to the tool. The **OBDII** icon appears on the header to confirm.

Plug **OBDII** module to the **OBDII** port on vehicle, and turn ignition on.



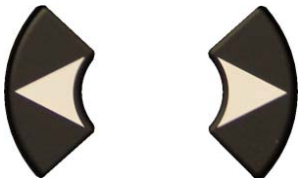
Select the OBD button .



= Continue

= Previous

The device prompts you to continue.

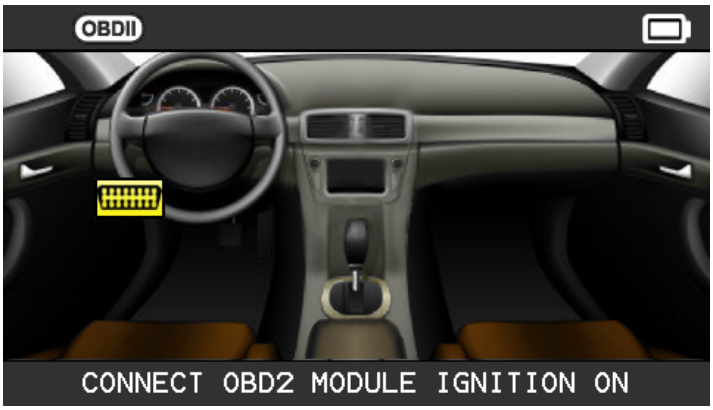


Select .

= Continue

= Previous

***Note**: Keep the engine **OFF**.*



= Continue

= Previous

= Continue

= Previous

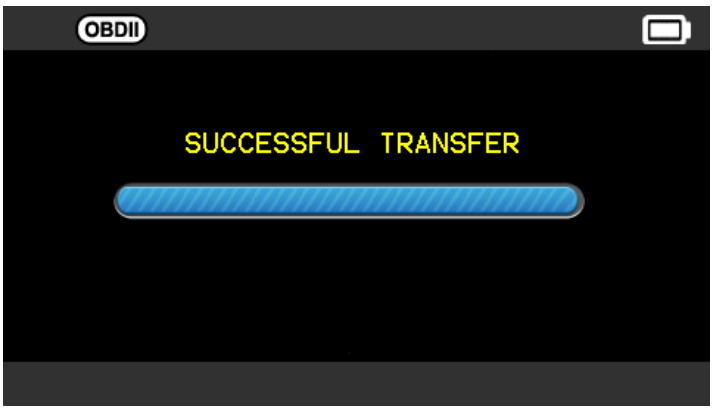
The transfer begins. The following messages appear briefly.

CONNECTED

TRANSFER OK

VERIFY OK

SUCCESSFUL TRANSFER

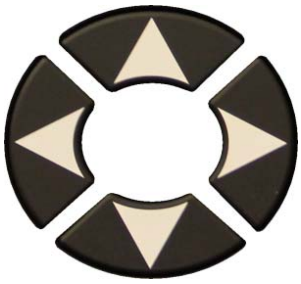


= Previous

The data transfer to the **ECU** is complete. **OBDII** module must be unplugged from the **DLC** connector.

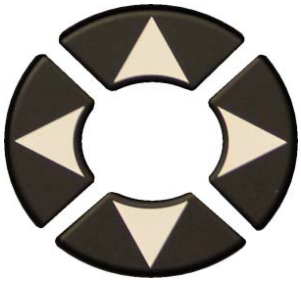
2. SERVICE TPMS

This is to service the sensors and more on the vehicle: Relearn procedure, RF detection, Part lookup, Keyfob test, Help.

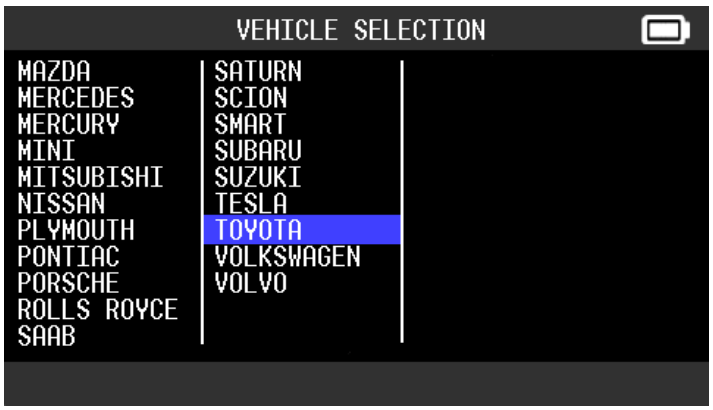


Continue

2.1. SELECT CAR MANUFACTURER



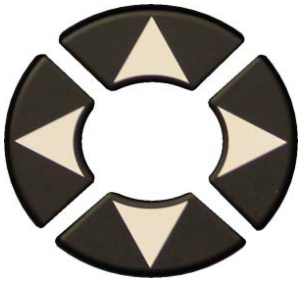
Scroll up and down to select a vehicle make.



= Continue

= Previous

2.2. SELECT VEHICLE MODEL

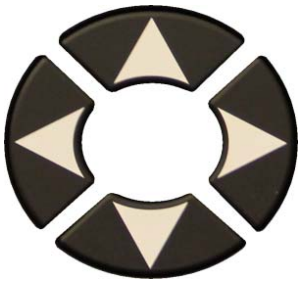


Scroll up and down to select a vehicle model.

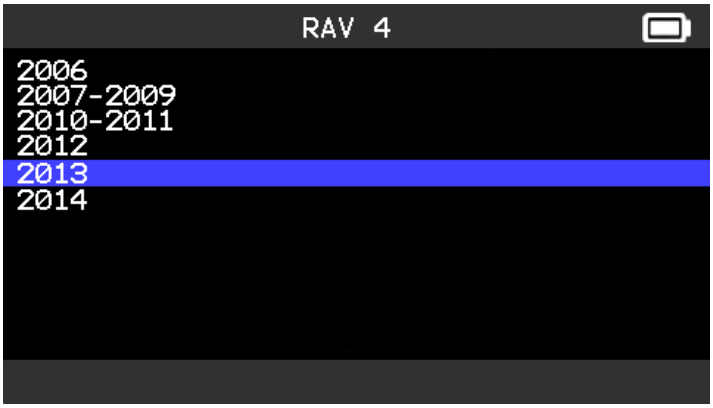
= Continue

= Previous

2.3. SELECT YEAR



Scroll up and down to select a year.



= Continue

= Previous

2.4. SELECT SERVICE

The following services are available:

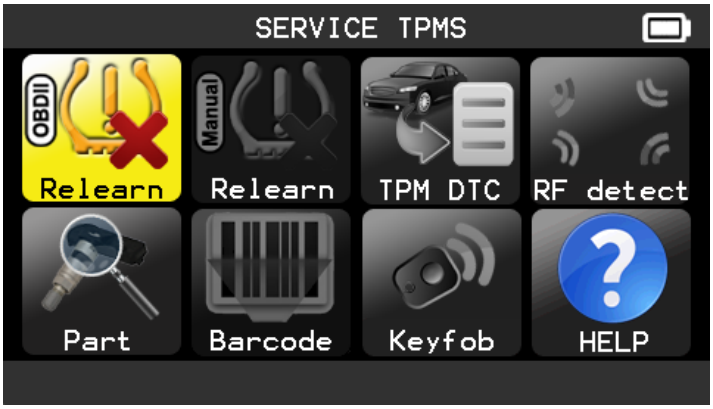
- Relearn procedure,
- RF detection,
- Part lookup,
- Keyfob test,
- Help.

= Continue

= Previous

2.5. SERVICE "RELEARN OBDII"

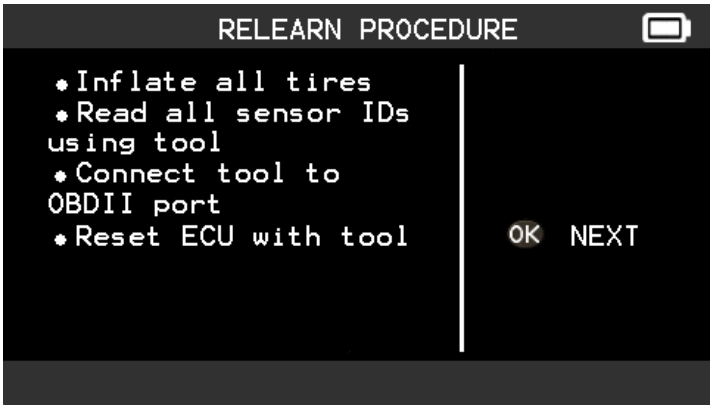
This service explains the procedure to relearn the sensor on the vehicle.



= Continue

= Previous

Follow instructions.



= Continue

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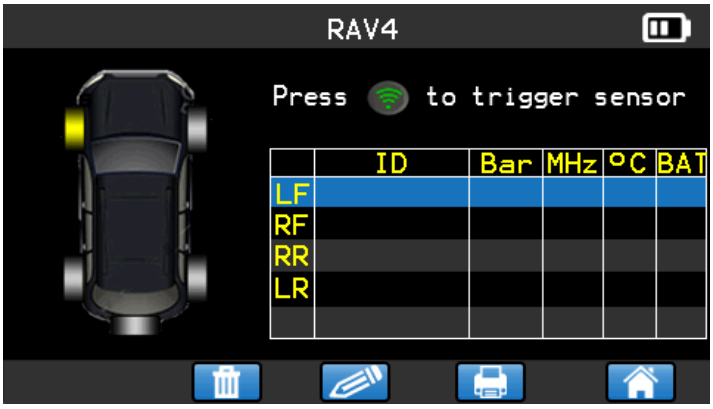
2.6. TEST SENSORS

The tool is ready to trigger sensors.

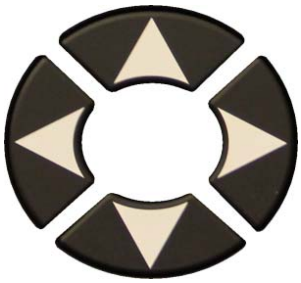


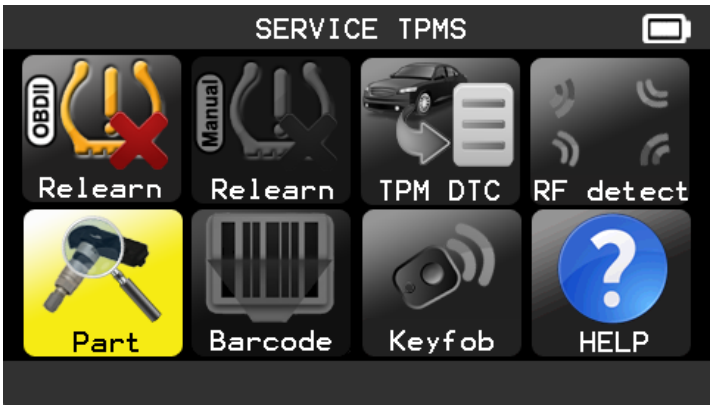
To trigger the sensor.

Proceed as "**CHECK SENSOR**".

2.7. SERVICE "PART"

This is a spare parts data base for all the sensors available for all cars.





OK = Continue

C = Previous

to scroll dealer's part number.

Sensor	Part number
OE	42607-06011
DILL	1204
DORMAN	974-033
MYERS	21049
NAPA	92-1187C
O'Reilly OE/S.	42607-06020
	17-20216AK
SEARS	95300

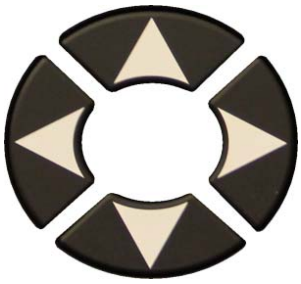
C = Previous

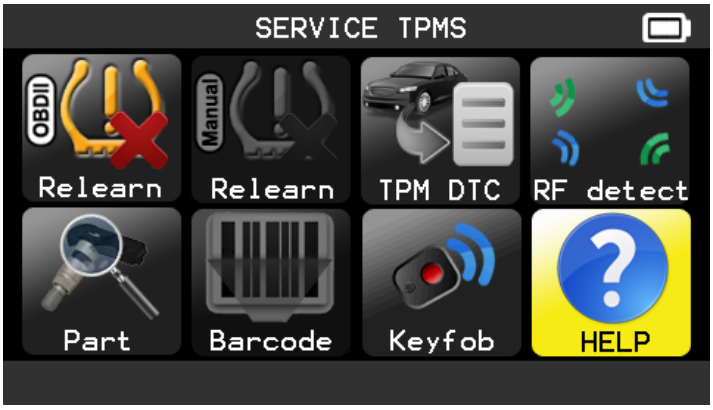
Example of part suppliers:

OE	SMP
DILL	John Dow Dynamic
DORMAN	Continental
MYERS	REDI SENSOR
NAPA	Simple/Qwick s
O'Reilly OE/S	TECH
SEARS	

2.8. SERVICE "HELP"

This feature is to assist the user to troubleshoot the TPMS issue.

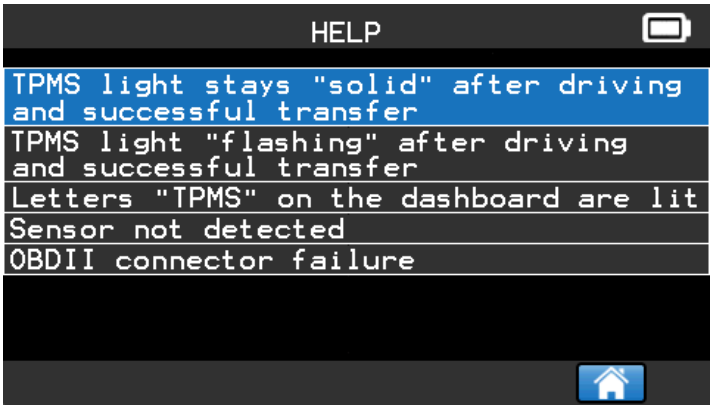




OK = Continue

C = Previous

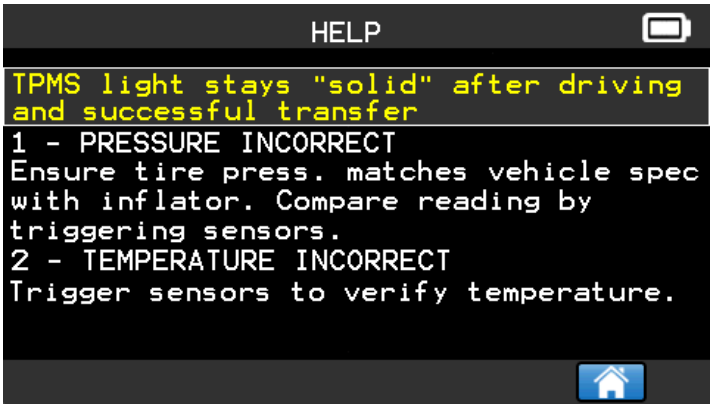
Select the case of the issue.



OK = Continue

C = Previous

To continue information texts.



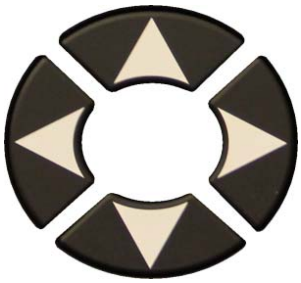
OK = Continue

C = Previous

Follow instructions on the screen.

3. PROGRAM BLANK SENSOR

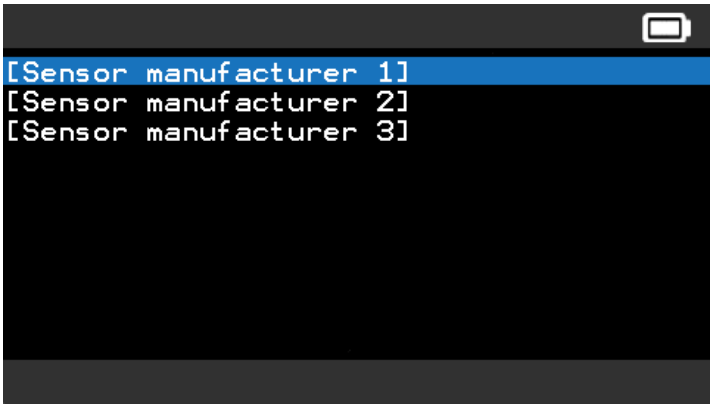
VDO TPMS PRO works with most known aftermarket universal programmable sensors with the options to create the new sensor IDs and /or to duplicate sensor ID(s) from original sensor(s).



OK = Continue

C = Previous

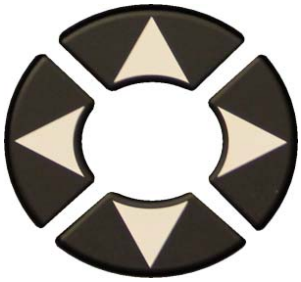
Scroll up and down to select a brand.



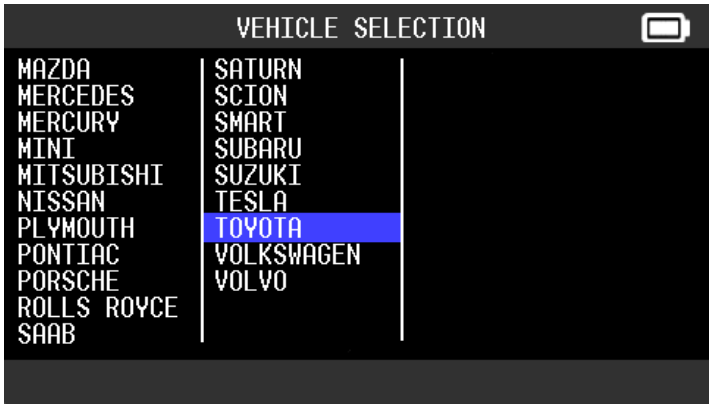
OK = Continue

C = Previous

Following your options, some above brands in example may change.

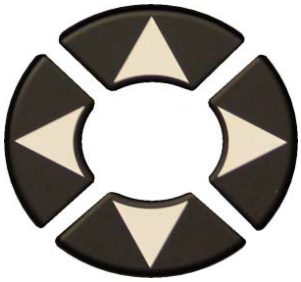


Scroll up and down to select a vehicle make.



OK = Continue

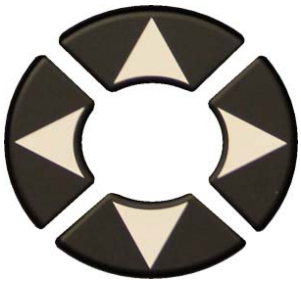
C = Previous



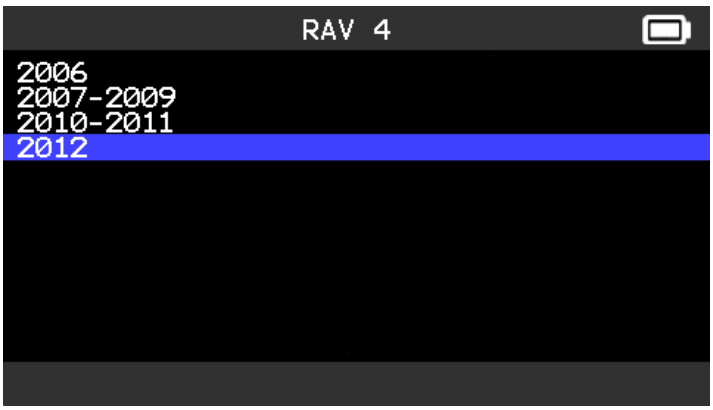
Scroll up and down to select a vehicle model.

OK = Continue

C = Previous



Scroll up and down to select a year.

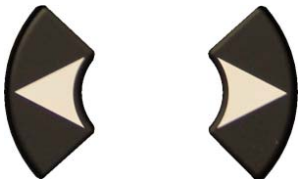


OK = Continue

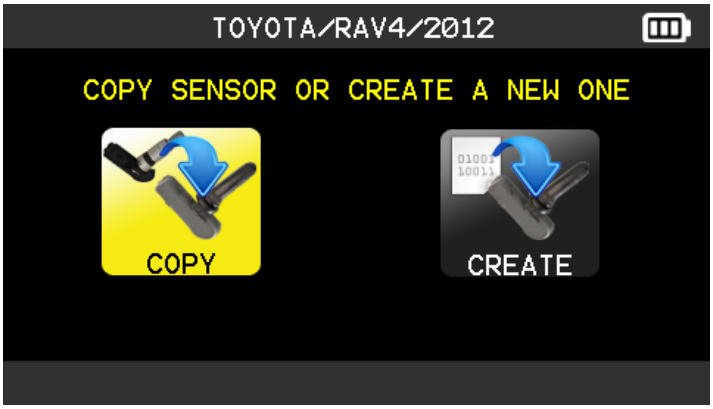
C = Previous

3.1. "COPY SENSOR ID" SECTION

This section is to recover a sensor ID if the "old" sensor can be cloned.



Scroll Right and left to select the **COPY** option.



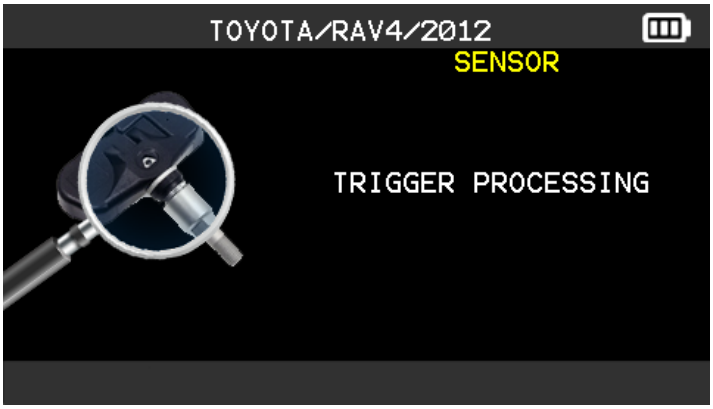
OK = Continue

C = Previous

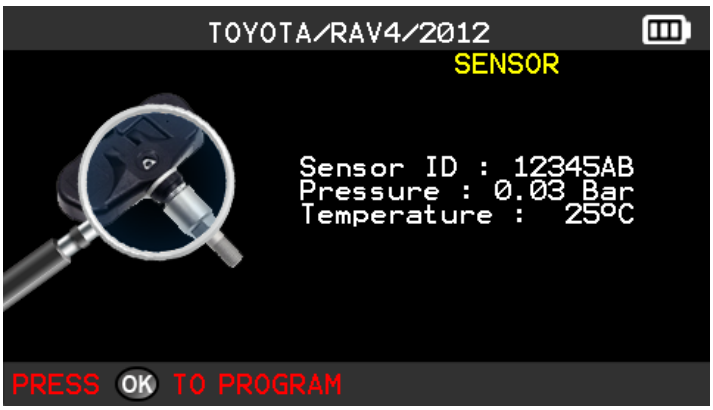
Position the sensor in front of the tool antenna to check the sensor.

To trigger the sensor.

The tool trigger the sensor, wait a few seconds.



The sensor data are displayed.



OK = Continue

C = Previous

Position the sensor in front of the tool antenna to send the ID to the new sensor.

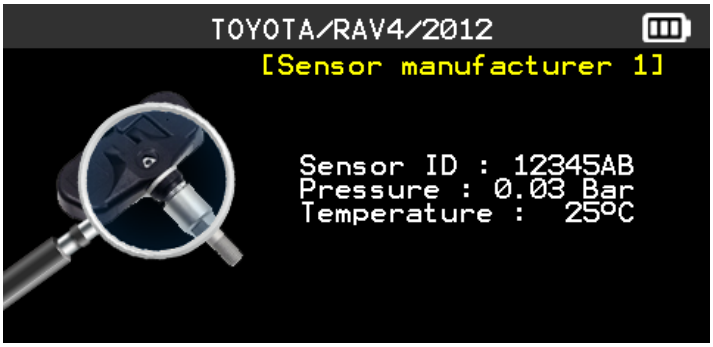
OK = Continue

= Home

Wait a few seconds.

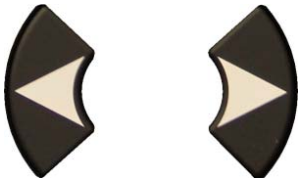
The tool verifies the ID uploaded.

The sensor is cloned.

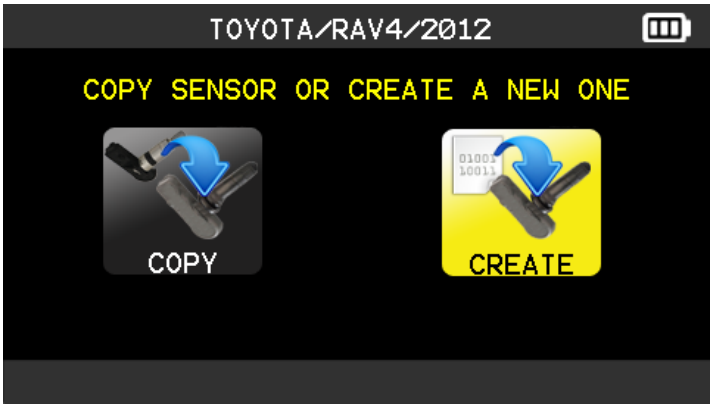


3.2. "CREATE SENSOR ID" SECTION

This section is to create a MMY specific sensor if the "old" sensor can't be cloned. The new sensor ID(s) are generated randomly by the tool, and may not be the same as the original one. Perform TPMS reset, see section 2, is required when replacing new sensors.



Scroll Right and left to select the **CREATE** option.



= Continue

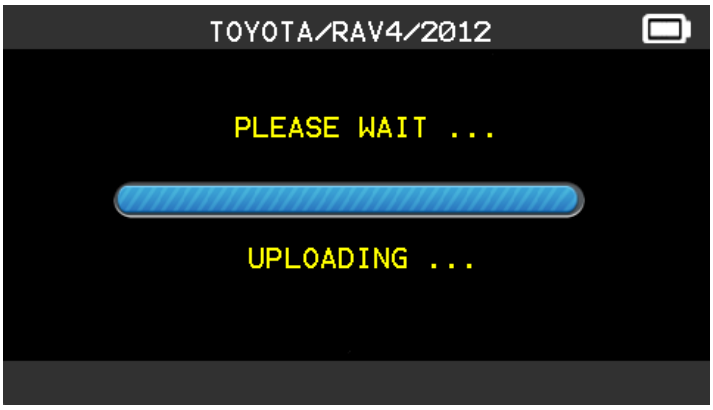
= Previous

Position the sensor in front of the tool antenna to send ID to the new sensor.

= Continue

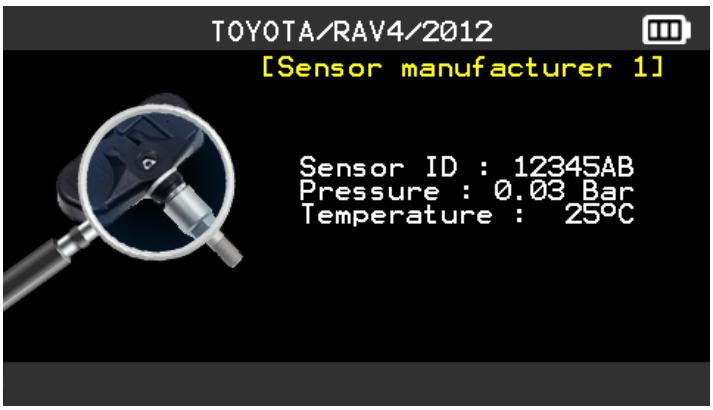
= Home

Wait a few seconds.



The tool verifies the ID uploaded.

The sensor is created.



OK = Continue

C = Previous

3.3. REPROGRAM ISSUE

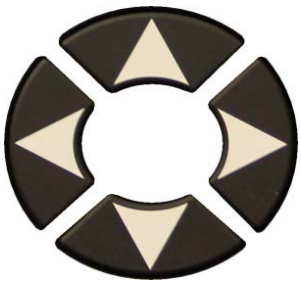
In case of ID transfer issue, the following message appears, start again.

OK = Start again

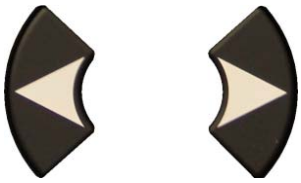
C = Previous

4. HISTORY

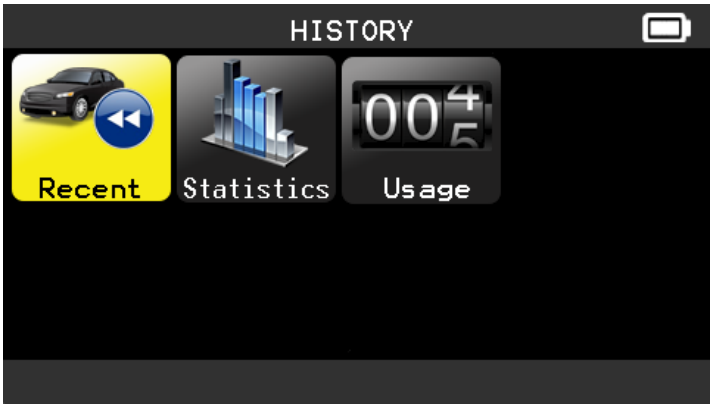
This feature is to list the last device activity.



= Continue



Scroll Right and left to select the **HISTORY** option.

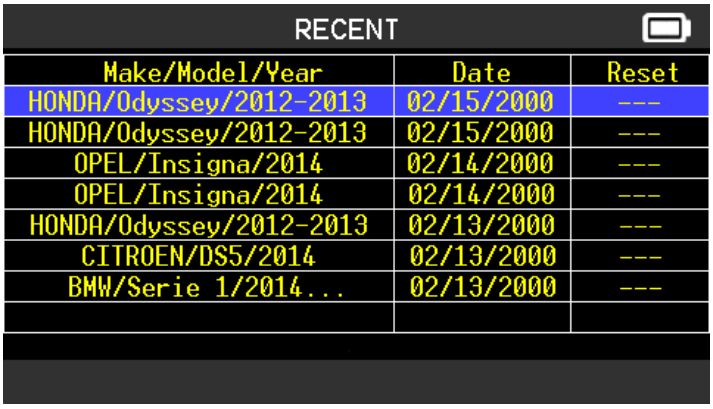


= Continue

= Previous

Recent option

Select the make to display.



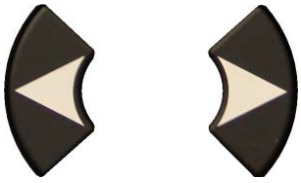
= Continue

= Previous

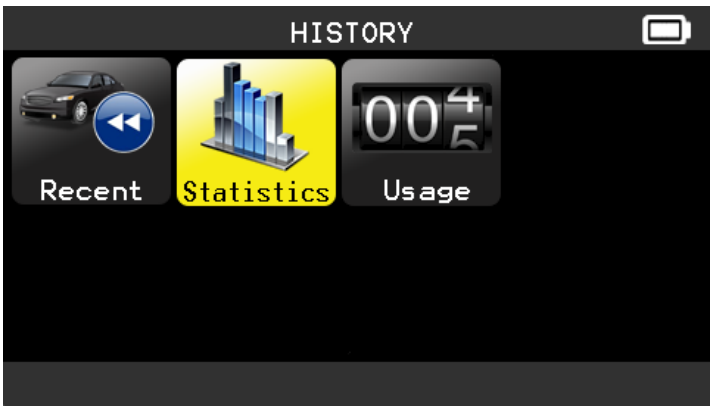
The screen of the selected vehicle with the last state of triggers appears. It's possible to continue to trigger the vehicle.

To trigger the sensor.

= Previous



Scroll Right and left to select the **HISTORY** option.

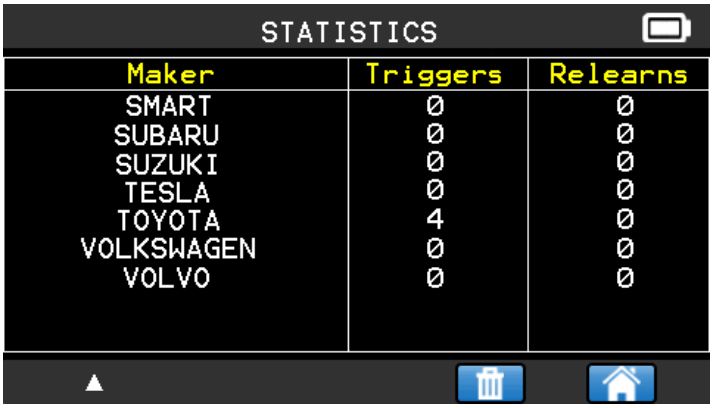


= Continue

= Previous

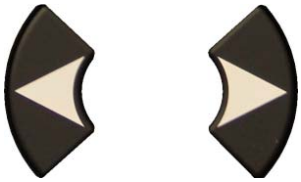
Statistics option

To change the page.

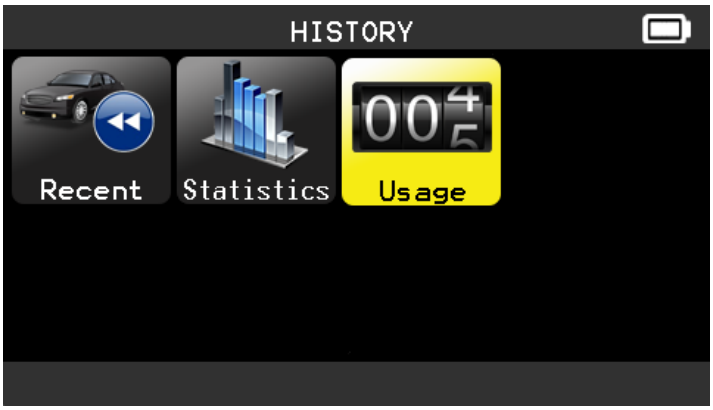


= Continue

= Previous

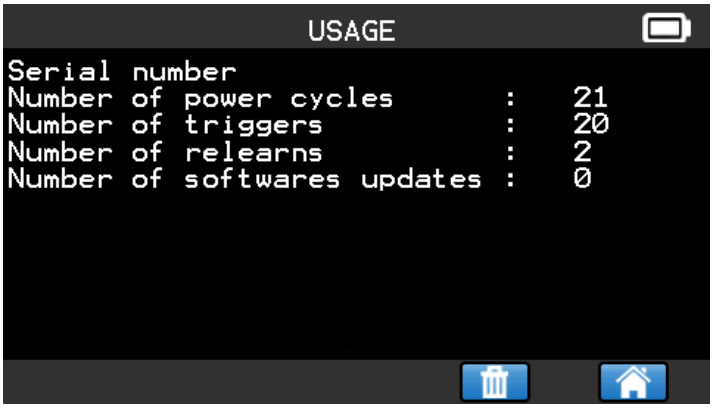


Scroll Right and left to select the **HISTORY** option.



= Continue

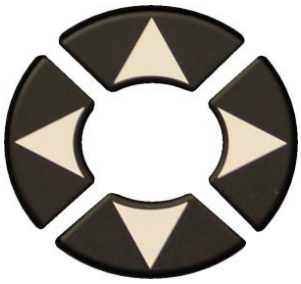
= Previous



= Previous

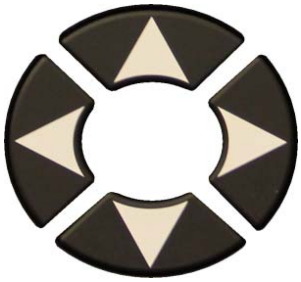
5. SETTINGS

5.1. ENTER SETTINGS MENU

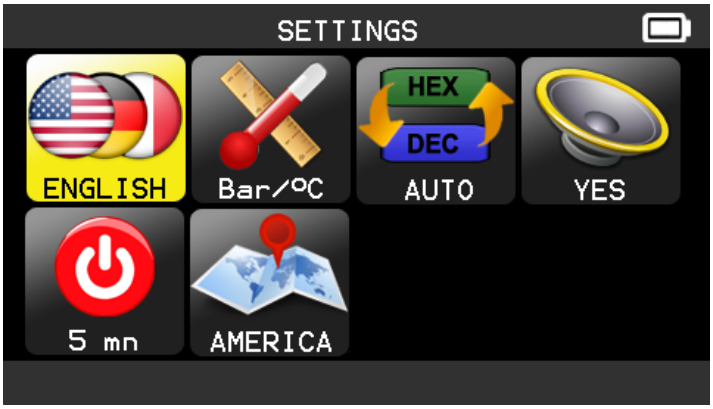


OK = Continue

C = Previous



Select the function or settings.



OK = Continue

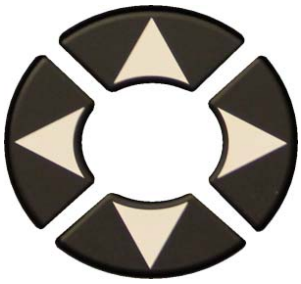
C = Previous

***Note**: in each icon is written the state of the setting.*

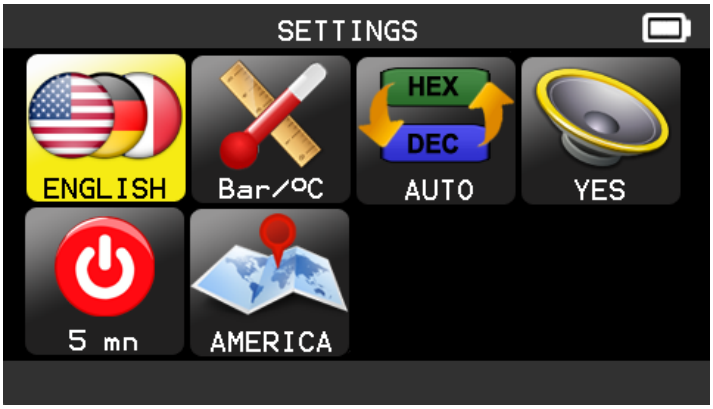
	LANGUAGE	Select displayed language among Cestina, Dansk, Deutsch, Engelska, English, Español, Français, Italiano, Nederlands, Norsk, Polski, Portugues, Suomi.
	UNITS	Change the air pressure and temperature display (kPa, Bar or PSI with F° or C°).
	FORMAT	Change the format of sensor ID display.
	BUZZER	Turn buzzer to ON or OFF (YES or NO).
	AUTO OFF	Time to turn off the device automatically after not being operated.
	ZONE	To select the area of work, **AMERICA**, **EUROPE** or **KOREA**. Be careful, when you change the zone, a WebVT download or SD card is required to get the zone data.

5.1.1. Change language settings

LANGUAGE: select displayed language among Cestina, Dansk, Deutsch, Engelska, English, Español, Français, Italiano, Nederlands, Norsk, Polski, Portugues, Suomi.

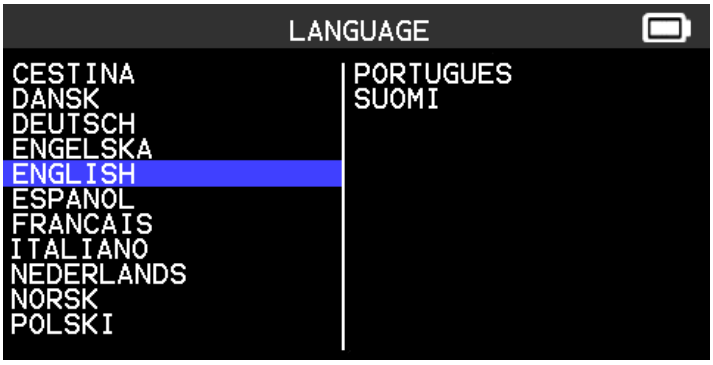


Select the function or settings.



= Continue

= Previous



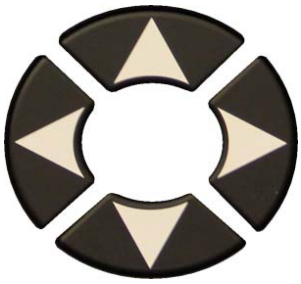
= Confirm

= Previous

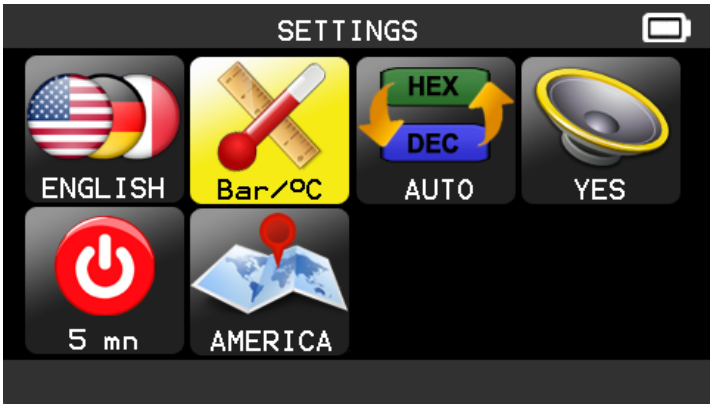
Scroll up and down to select.

5.1.2. Change Units settings

UNITS: change the air pressure and temperature display (kPa, Bar or PSI with F° or C°).

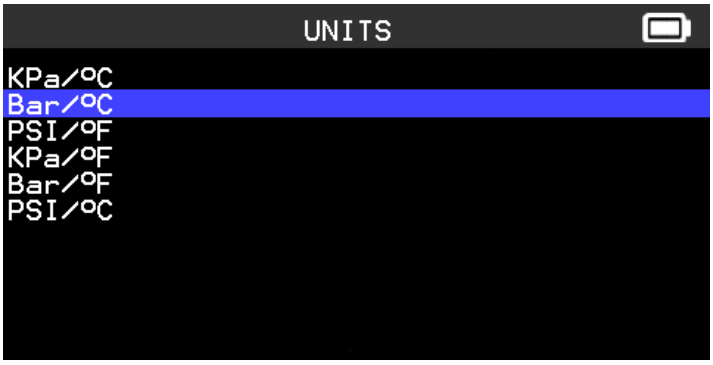


Select the function or settings.



= Continue

= Previous



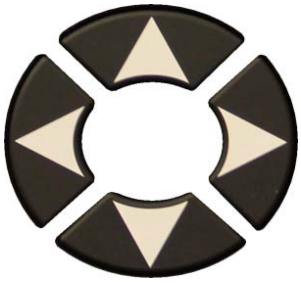
= Confirm

= Previous

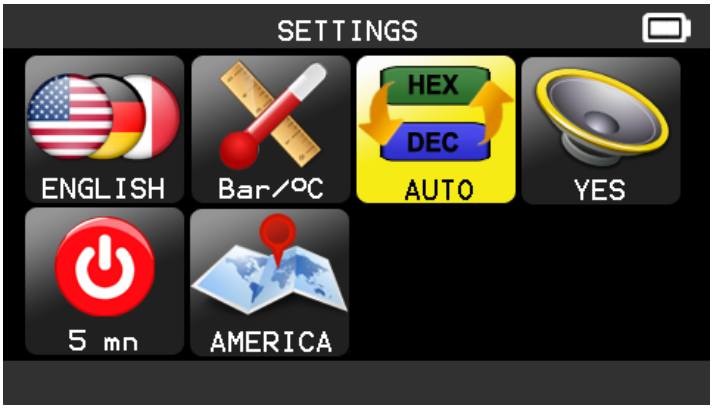
Scroll up and down to select the **Units**.

5.1.3. Change Format settings

FORMAT: change the format of sensor ID display.



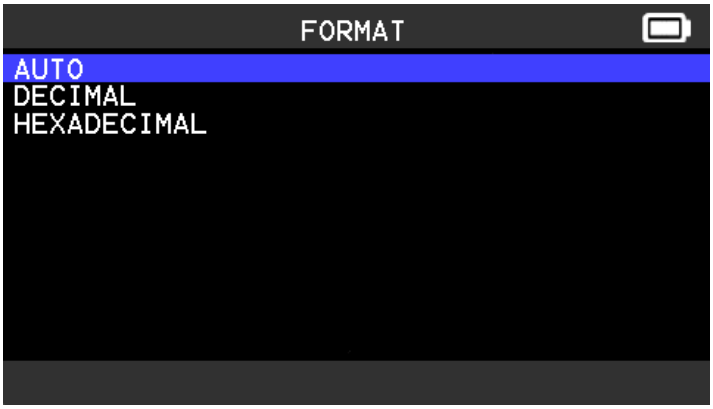
Select the function or settings.



OK = Confirm

C = Previous

Scroll up and down to select a format.



OK = Confirm

C = Previous

AUTO: display sensor ID format in the way sensor is transmitting.

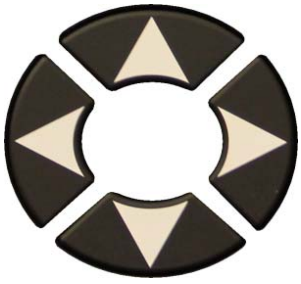
DECIMAL: force to display sensor ID in decimal (0 to 9).

HEXADECIMAL: force to display sensor ID in hexadecimal (0 to F).

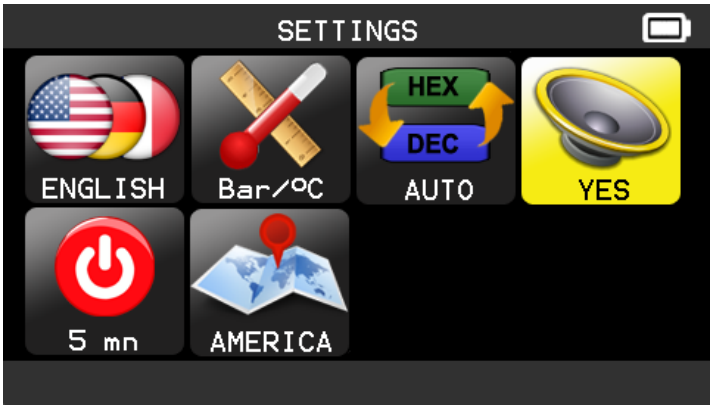
5.1.4. Change Buzzer settings

BUZZER: turn buzzer to ON or OFF. (YES or NO).

When buzzer on is set to **YES**, a beep is triggered when the sensor ID is detected.



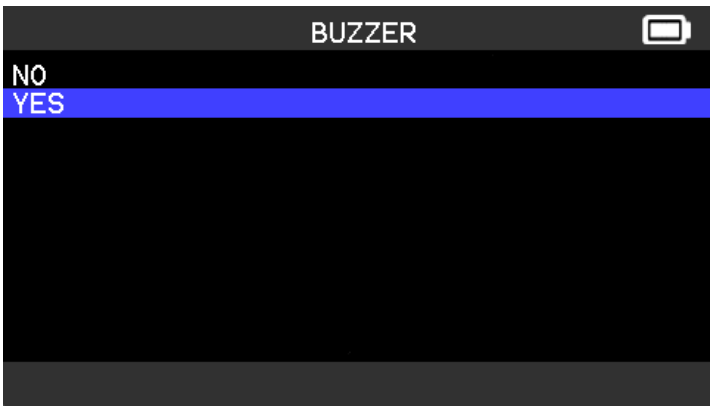
Select the function or settings.



OK = Confirm

C = Previous

Scroll up and down to select **Yes** or **No**.

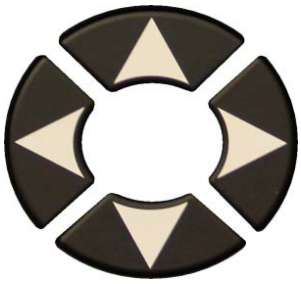


= Confirm

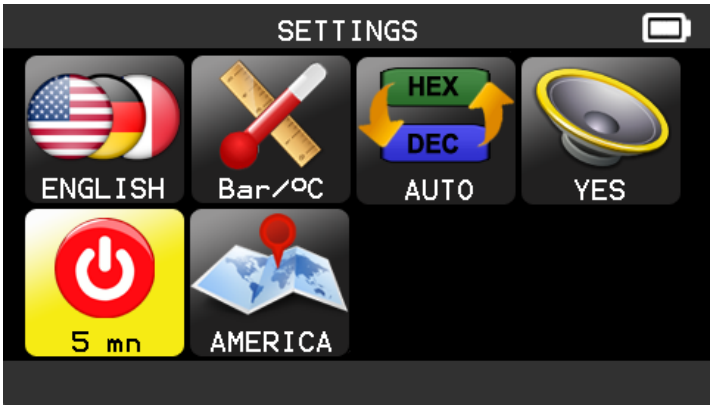
= Previous

5.1.5. Change Auto Off settings

AUTO OFF: time to turn off the device automatically after not being operated.



Select the function or settings.



= Confirm

= Previous

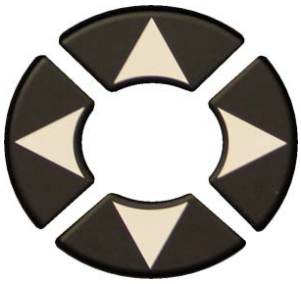
Scroll up (+)and down (-) to change time.

= Confirm

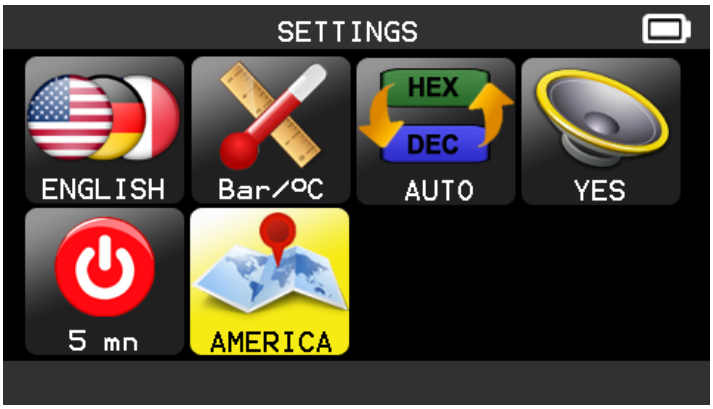
= Previous

Change by **60 min** (maximum) to **DISABLED** (never).

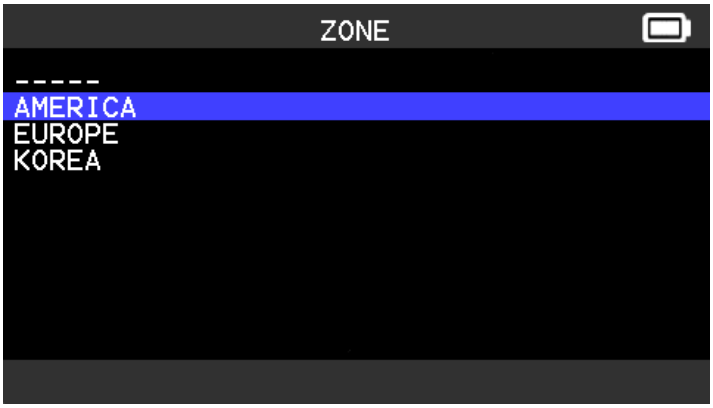
5.1.6. Change Zone settings



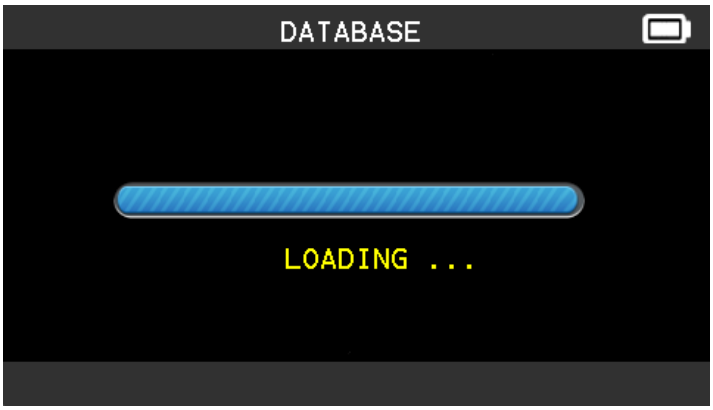
Select the function or settings.



Scroll up and down to select a new zone.



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



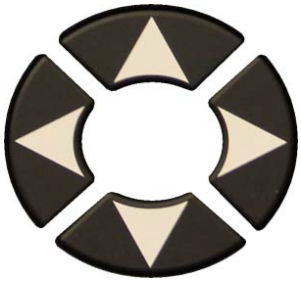
= Confirm

= Previous

= Confirm

= Previous

6. ABOUT



OK = Continue

C = Previous

C = Previous

MISCELLANEOUS

1. CHARGE

Low Battery Indication

Your **VDO TPMS PRO TOOL** incorporates a low battery detection circuit. Battery life is an average of 800 sensor tests per battery charge (approximately 160 to 200 vehicles) this may change following the sensor model.

Battery indicator status:

0% 25% 50% 75% 100%

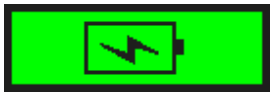
When 0% is flashing the tool will turn off after 10 seconds.

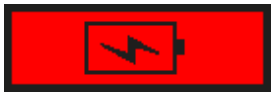
The battery is charging.

The battery has an issue, 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.





Two means for charging the tool:

- Directly plug the supply jack to the tool and plug the supply in an appropriate outlet.
- Plug the jack to the docking station and install the tool in. The docking and in all cases, the LED "**CHARGE**" light will turn on (red).

Battery replacement

It's recommended to return the tool to the factory for battery replacement.

2. PRINT SENSOR DETAILS

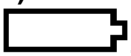
***Note**: This feature is only available after the user has triggered the sensors in the vehicle, and the tool has not been turned off.*

```
TOYOTA
RAV4
2012
---- LEFT  FRONT ----
Sensor ID : E89D500
Pressure : 0.03 Bar
Temperature :  23 C
Battery state: OK
---- RIGHT FRONT ----
Sensor ID : 2A6E100
Pressure : 0.08 Bar
Temperature :  23 C
Battery state: OK
---- RIGHT REAR ----
Sensor ID : 559E00F
Pressure : 0.03 Bar
Temperature :  26 C
Battery state: OK
---- LEFT  REAR ----
Sensor ID : 559FA29
Pressure : 0.03 Bar
Temperature :  25 C
Battery state: OK
```

1) Put the tool into its docking station; check that the all sensors are triggered.

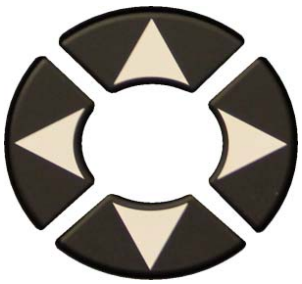
2) Plug the charger (or check) to the docking station; this is to supply the printer.

3) Power on the printer, press the button until the green light is flashing .

4) The printer will be ready when the battery light is on  .

The button is for feed the paper.

***Note**: the link between the tool and the printer is infrared.*



5) Select with the arrows the icon.

6) Printing the results by pressing OK .

= Print

= Previous

3. TROUBLESHOOTING

If the **VDO TPMS PRO TOOL** is unable to trigger one or more of the sensors, using either electronic or magnetic activation, please use the following troubleshooting guide:

1) The vehicle does not have a sensor even though a metal valve stem is present. Be aware of Schrader rubber style snap-in stems used on TPMS systems.

2) The sensor, module or ECU itself may be damaged or defective.

3) The sensor may be the type that periodically triggers on its own and is not designed to respond to a triggering frequency.

4) Your **VDO TPMS PRO TOOL** may require a software upgrade.

5) Check "**Auto Off**" time settings for screen display.

6) Your **VDO TPMS PRO TOOL** is damaged or defective.

4. TOOL UPDATE

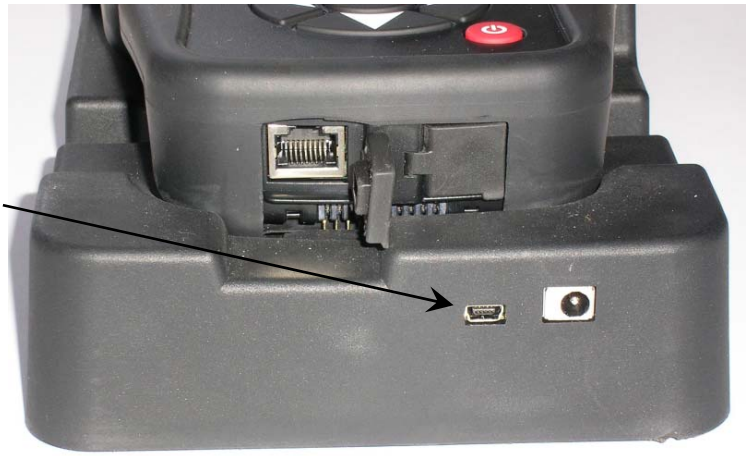
Upgrading Your VDO TPMS PRO TOOL

As a new protocol becomes available, it will become necessary to upgrade your tool. Please follow the steps below:

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

USB connector for Internet update.

Slot for SD card for non Internet update.



USB connector for Internet update with tool in docking station.

4.1. INSTALL WEBVT PC SUITE

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

2) Insert the CD supplied with your tool, into the PC drive and click on the **WebVT** icon to start the program.

3) A screen will appear that says "**Welcome to the Install Shield Wizard for WebVT.**" Click "**Next >**"

4) A window will appear to choose destination location, click "**Next >**"

5) Follow instructions until the window with the "**Finish**" button appears.

6) Click "**Finish**" when the **WebVT** installation is complete.

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

4.2. USB INTERNET OPTION UPDATING

Before updating, ensure that the battery charge is full.

1) Connect the **USB** cable from the **VDO TPMS PRO TOOL** to the **PC**, turn the device on.

2) Start **WebVT** software.

3) A screen will appear indicating "**Update Device**".

4) You can also print "**Valve IDs**" from here as well.

5) Press "**Yes**" to update to the latest software version. Update will take several minutes to complete and the status bar will indicate the percentage of update completed.

Warning!

Do not disconnect the VDO TPMS PRO TOOL from the PC or turn off your computer during the update process. This may result in serious damage to the tool.

4.3. SD CARD OPTION (NON INTERNET) UPDATING

Before updating, ensure that the battery charge is full.

1) Place the **SD card** into slot, pins facing upwards.

2) Turn the **VDO TPMS PRO TOOL** on and go to Main Menu.

3) Scroll down to **VDO TPMS PRO TOOL** Update and press enter.

4) Scroll down to **YES** and press enter.

5) You will now see File Selection, press the

key.

6) The tool will now update its software version.

7) When installation is complete, the tool will automatically turn off. **Remove the SD card**.

8) Turn the **VDO TPMS PRO TOOL** on. The latest software version will be displayed.

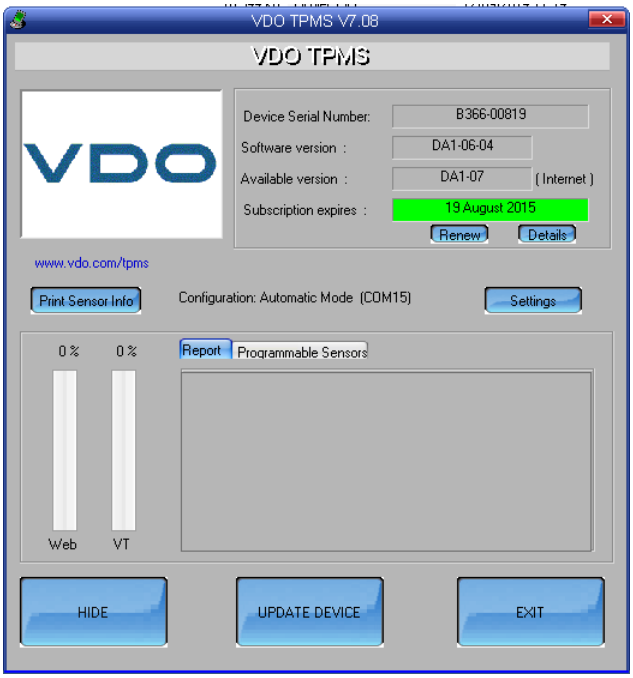
Warning!

Do not turn off the VDO TPMS PRO TOOL or extract the SD card during the update process. This may result in serious damage to the tool.

5. FACTORY RESET FOR PROGRAMMABLE SENSOR CHANGE

Following the programmable sensors, it need to update the database or reset the device to factory settings.

To realize this operation, use the **VDO WebVT** software.

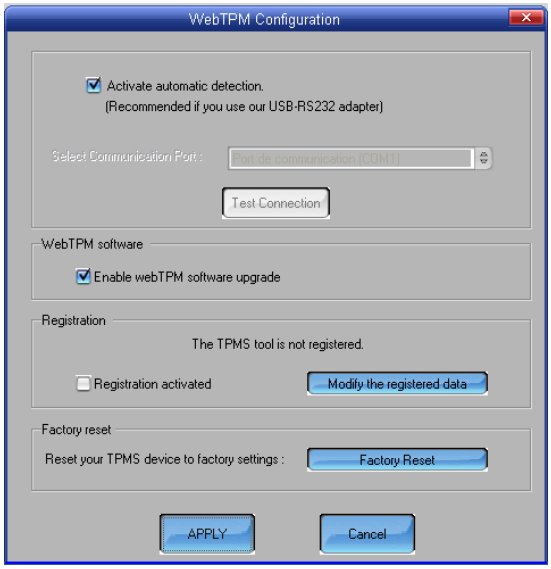


1) Start the **VDO WebVT** software,

2) Connect the **VDO TPMS Pro** device to the **USB** port of your PC with **USB** cable supplied.

3) Turn on the **VDO TPMS Pro** device.

4) Click on the "**Settings**" button.

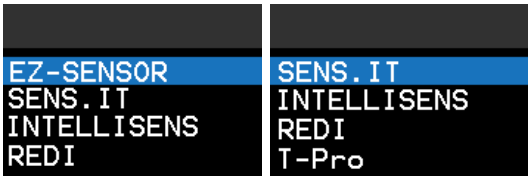


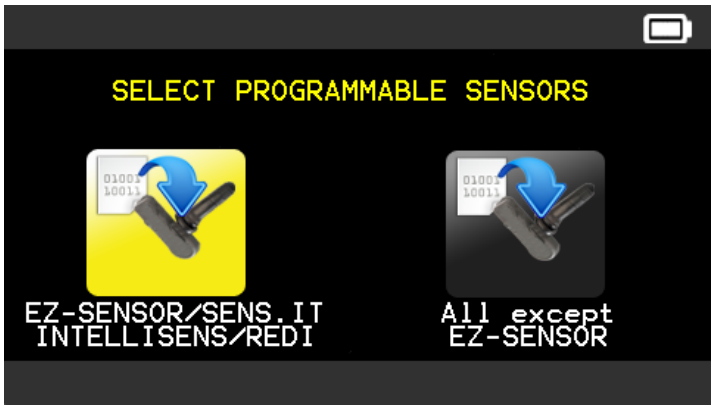
5) The opposite window appears:

6) Click on the "**Factory Reset**" button to reset to the factory settings the device. Then in the **VDO TPMS Pro** menus, select the "**Program**" menu and select the sensors family to program.

7) The sensor family choice is done in the opposite menu:

8) The selected family is displayed as below:





6. SAFETY BATTERY AND 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 part. Keep them out of the reach of small children.

About Charging

Use only the charger supplied with your device. Use of 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 **VDO** manufacturer 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

Safety for Lithium Polymer 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 IMMEDIATELY** the charge. 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 some smoke or some liquid out of 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 seller.

Keep a fire extinguisher for electrical fires handy while charging the battery. In the unlikely event that the Lithium Polymer battery will ignite, **DO NOT** use water to extinguish the fire, take some sand or fire extinguisher described above.

It must neutralize the Lithium Polymer battery elements unusable. The neutralization

process must be performed with very strict security fit. It is recommended that you return us the tool, we will collect the battery out of use and gives to a specialized recycler.

Do not dispose of Lithium Polymer batteries to the dustbin.

The Lithium Polymer battery is not suitable for children under 14 years. Do not let a Lithium Polymer battery 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. Store the battery only on a nonflammable surface, heat resistant, non conductive and away from all flammable materials or sources. Always store the battery out of reach of children.

A Lithium Polymer battery should be stored with a minimum charge of **30%**. If you store completely discharged, it will quickly become unusable.

If you don't use the battery for a long time, you have to regularly charge the battery (every 6 months) to be over the minimum charge of **30%**.

If you don't follow these safety precautions, you may cause serious personal injury and damage to property; you may even cause a fire!

The **VDO** Company disclaims any responsibility for damage sustained in case of non compliance with these safety instructions.

Using a Lithium Polymer battery has a high risk of fires and can cause serious damages to property and persons, the user agrees to accept the risk and responsibility.

The **VDO** Company couldn't control the proper use of the battery for each customer (charge, discharge, storage etc.); it can not be held responsible for damage to persons and property.

7. RECYCLING

Do not dispose of the rechargeable Lithium-Ion battery or the tool and/or it accessories to the dustbin.

These components must be collected and recycled.

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

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