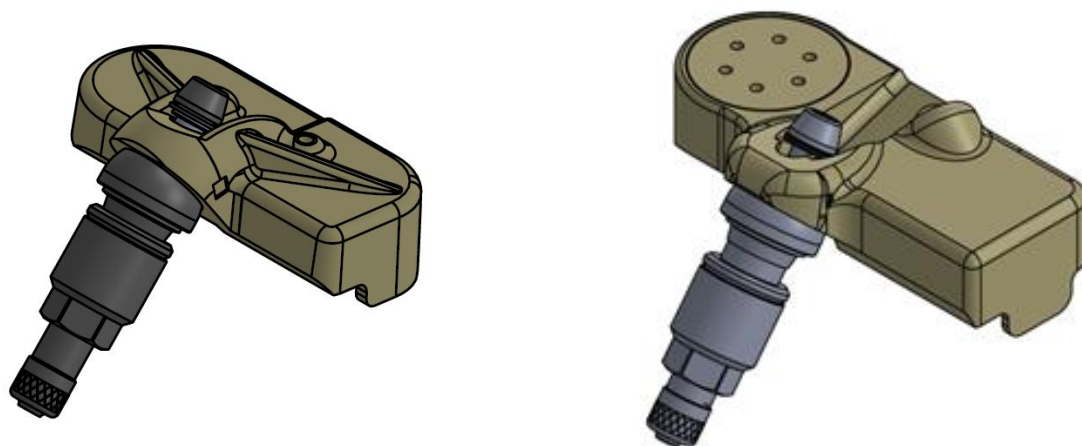


Texense TPMS installation and maintenance guide



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1. Introduction

Texense provides 2 versions of TPMS sensors:

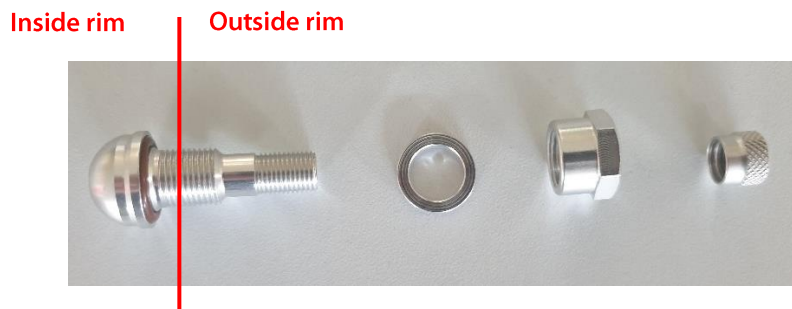
- The TPMS-RS sensor: it is a basic version with pressure and temperature sensors.
- The TPMS-S sensor: it is an advanced version with same functions + 5 channels inner liner IR sensor, humidity sensor, air temperature sensor and rim temperature sensor.

This document is an installation and maintenance guide for both sensors.

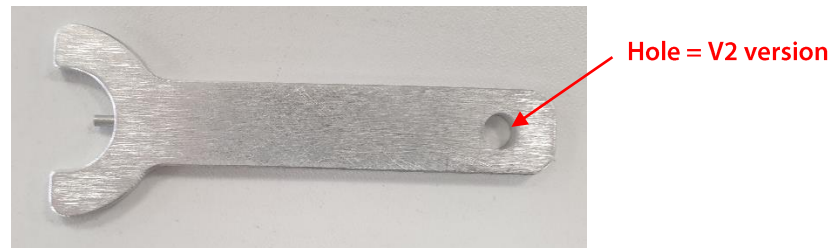
2. System installation

2.1 Valve installation

Valve kit



Valve mounting tool



 **Warning:** please take care you use the V2 version of the tool. This version has a hole to identify it. Other versions can generate tightening issues.

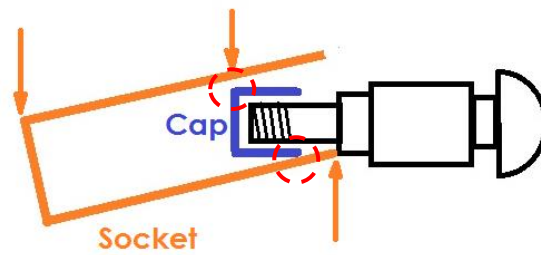
Remove traces of grease from the TPMS installation area, especially the hole.



Place the valve and lock it with the mounting rod. Screw the valve with a long 14mm wrench. The specified torque is **10 N.m**.



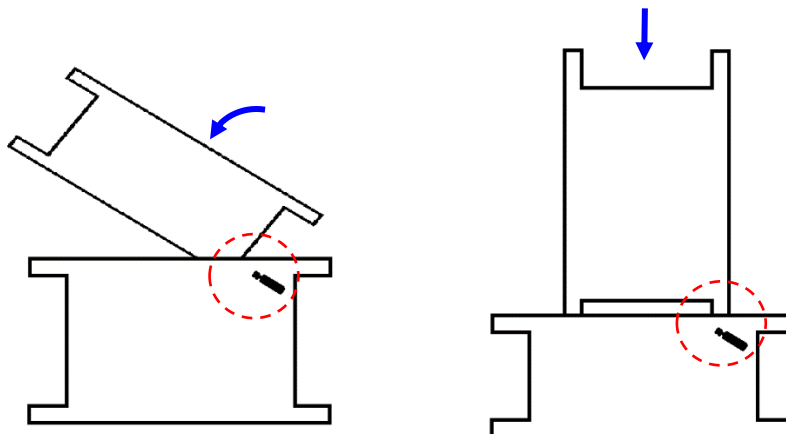
 **Warning:** please remove the cap during valve tightening to avoid to stress the valve with the socket:



Then put the cap.

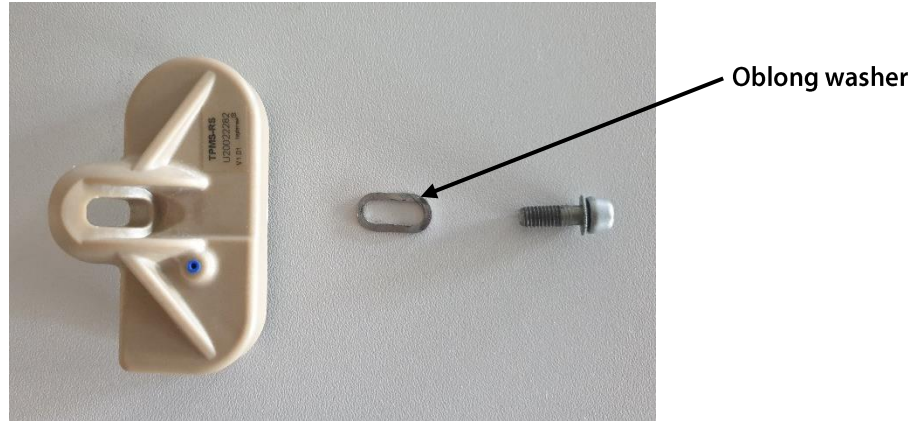


 **Warning:** please take care not to damage the valve while stacking the rims:



2.2 TPMS-RS installation (basic sensor)

TPMS kit:



Place the oblong washer on the TPMS. Please take care it is well fitted.

Place the TPMS in contact with the rim.

Screw the screw with a torx T20. The recommended torque is **4N.m**.

Oblong washer



We advise to add some silicone on both side to improve fixation and reduce vibration:

Silicone



2.3 TPMS-S installation (advanced sensor)

Depending on the car, there are 2 different brass rim temperature pads.

2.3.1 Rim thermal pad installation

Rim thermal pad



Bend the pad to fit the rim profile:



Then place it on the TPMS-S and screw it with a torx T10. The recommended torque is **0.1N.m**:



Add the provided thermal conductor pad (ref BERGQUIST GP5000S35-0.020-02-0404):



2.3.2 Fixation on rim

Place the oblong washer on the TPMS. Please take care it is well fitted.

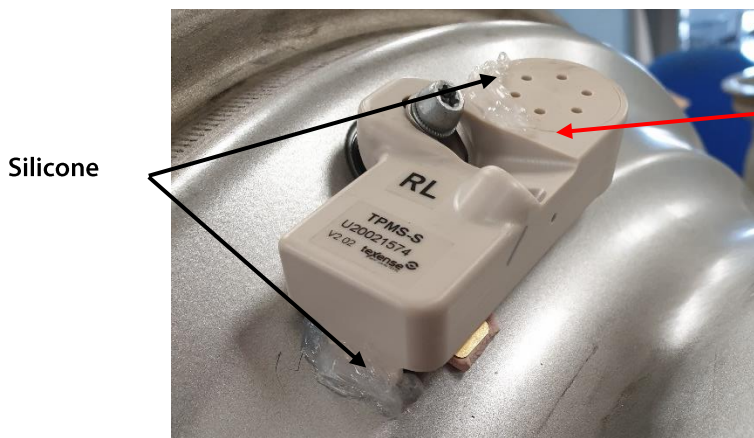
Place the TPMS in contact with the rim.

Screw the screw with a torx T20. The recommended torque is **4N.m**.



Oblong washer

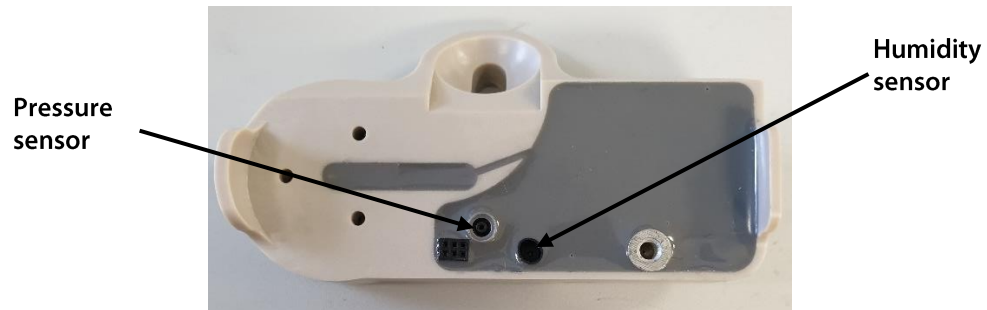
We advise to add some silicon on the interface to fix and absorb vibrations. We also advise to put some silicone onto the cap to prevent from cap unscrewing.



Silicone

Warning: please take care not to hide the IR sensor field of view with the silicone. Keep out this area from silicone.

 **Warning:** please take care not to obstruct the pressure and humidity sensors placed on the bottom side of the sensor:



3. Replacing battery on TPMS-S sensors

3.1 Tools

On the TPMS-S, the battery can be changed by the user following a procedure. A provided tool kit is necessary to change the battery.



Cap tool



Battery extractor



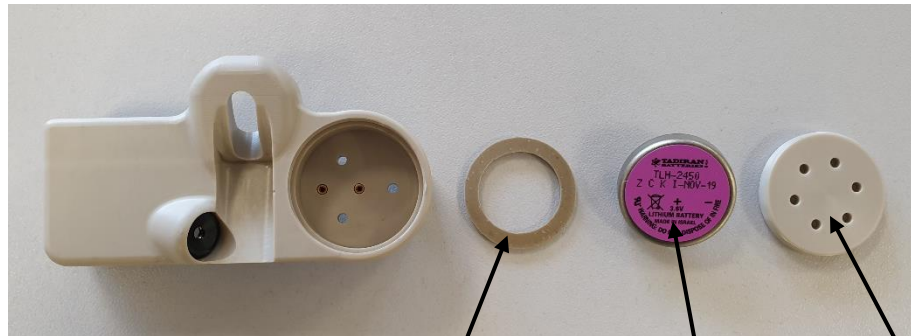
Battery jig



Magnet

3.2 Battery removal

The TPMS-S includes the following parts:



Soft seal

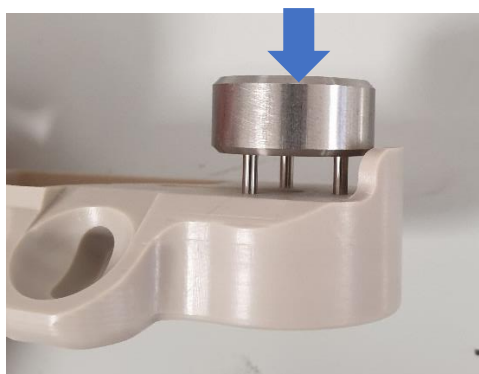
Battery

Battery cap

Use the cap tool and a 13mm wrench to unscrew the cap:

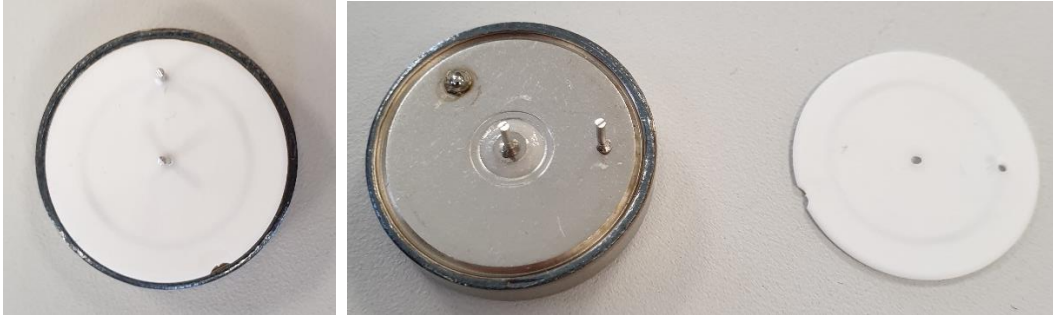


Use the battery extractor to remove the battery:



3.3 Battery preparation

The battery reference is **Tadiran TLH2450/P**. Remove the useless disk if provided:



Use the jig to cut the pins to the appropriate length:



3.4 Battery insertion

Insert the new battery. Please take care the seal is correctly fitted and the pins are faced to their receptacle.



Screw the cap: the recommended torque is **0.6 N.m**.



Place the magnet tool to activate the sensor. The LED should blink at the emission frequency (1Hz by default).



Warning: do not forget this step. The magnet activation is mandatory, otherwise the sensor will never start (even with pressure, acceleration, temperature).

Notes:

