

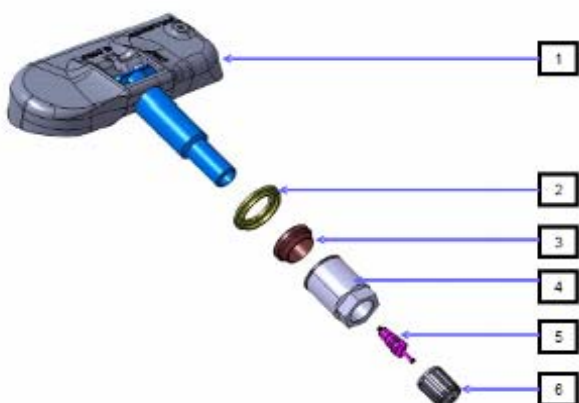
## Installation Manual for Siemens VDO Wheel Unit



Read these installation instructions before installing and connecting the product.

### Repairs and Modifications to the Product

Modifications or improper repairs on the product can affect the operability and safety! For this reason, our product must not be modified! No repairs may be carried out! The guarantee also lapses in such cases. This product has been designed and constructed by us to be safe.



N°	Part
1	Sensor
2	Seal washer
3	Seal
4	Nut
5	Valve core
6	Cap

**1** Take off the first side of the tire. The tool should not be used near the valve (no less than 30 cm).



**4** By using the tire lever, extract the external side wall of the tire and engage on the shoe of the machine. The lever and the tire must not come into contact with the sensor. Then remove the lever.



**7** By using the tire lever, extract the external side wall of the tire and engage the shoe of the machine. The lever and the tire must not come into contact with the sensor. Then remove the lever



**2** Take off the second side of the tire. The tool should not be used near the valve (No less than 30 cm).



**5** The wheel rotation allows the complete extraction of the first side of tire.



**8** Extract entirely the second side wall of the tire.



**3** Dismount the first side of the tire: Place the shoe of the tool between 5 and 10 cm away from the sensor and use the tire lever as shown in the picture.



**6** Raise the tire to prepare the introduction of the tire lever to aid extraction of the second side wall, the same recommendations as for the first side wall will apply.



**9** While maintaining the sensor unit, unscrew the nut.



**10** Remove the sensor and screw on the nut for a few turns so that it is not lost.



**11** Hold the sensor and the seal washer, then extract it, this also extracts the seal. Take care to not damage the valve thread.



**12** Clean the sensor and the valve stem holding the valve as shown on the picture. Take care to support the rear of the valve with a thumb so that there is no movement of the stem.



**13** When removing the sensor, a new washer and seal must be used. Insert these up to the base of the sensor, making sure to secure the valve base with a thumb, as shown. Wipe the seal and threading.



**14** Insert the valve, in the valve hole, without modifying the angle of the stem (retain position of delivery) The laser marking should be visible at the operator.



**15** When the valve is completely inserted, maintain the sensor in contact with the rim (as shown on the picture), then screw manually the nut until the contact with the wheel (without force).



**16** While maintaining the sensor contact with the rim by applying pressure to the back of the valve, slightly press on the cap towards the center of the wheel in order to adapt the angle of the valve/sensor to the profile of the rim. It is mandatory to guarantee the contact of the housing unit on the rim drop center.



**17** While maintaining the sensor unit and valve in position, screw the nut with a torque wrench. Apply a torque as recommended. Take care that the wrench socket is correctly inserted on the nut.



**18** Prepare the tire and fix the rim as usual.



**19** Put the tire on the rim, so that the cross point of the belt with the rim is approximately 20 cm away from the valve (see the picture)

**22** Put the second side of the tire in position, so that the cross point of the belt with the rim is approximately 20 cm away from the valve (see the picture)  
The curved arrow shows the direction of rotation of the wheel.



**20** Engage the shoe and make sure that 20cm is maintained between the cross point and the valve. The arrow shows the direction of rotation of the wheel

**23** Turn the wheel in order to engage all of the second side of the tire.  
**Note:** The standard shoes can pass over the sensor without damaging it.



**21** Turn the wheel in order to engage all the first side of the tire.  
**Note:** The standard shoes can pass over the sensor without damaging it.

