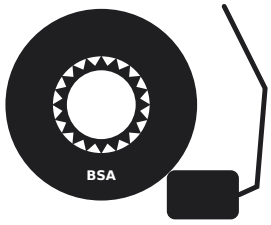
INSTALLATION GUIDE

Fitting the BSA pedal sensor



For the Van Beijck pedal sensor that slides into the teeth of the bottom bracket cup (BSA).

In the box

- BSA pedal sensor

What you need

- Crank puller
- Allen key 8 mm
- Open-end spanner 16 mm
- File or saw (only if the crank is too close to the sensor)

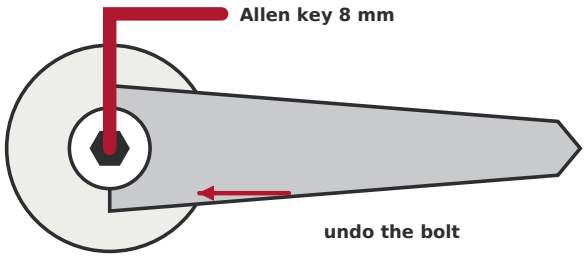
Safety first
Disconnect the battery before working on cables, the controller or the motor. Make sure the bike stands firmly, preferably in a work stand. In doubt? Have the installation done by a bike shop or a Van Beijck dealer.

Check first: does the sensor fit your bottom bracket?
There are many types of bottom bracket. The sensor must fit **exactly**: it is made for a **16 mm** bottom bracket axle. So measure the axle first. If it is too tight, it will not work properly. If it is too loose, the axle does not take the sensor round with it and you get no assistance. In doubt, please contact us first.

Step by step

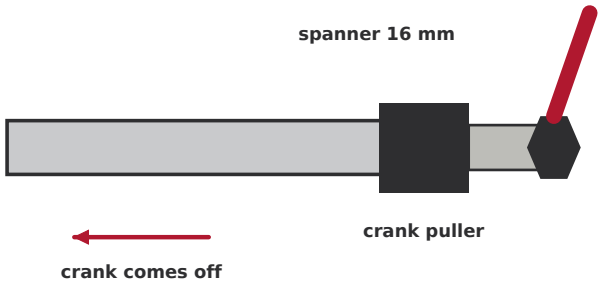
1 Loosen the left crank bolt

Use the 8 mm Allen key to remove the bolt from the left crank.



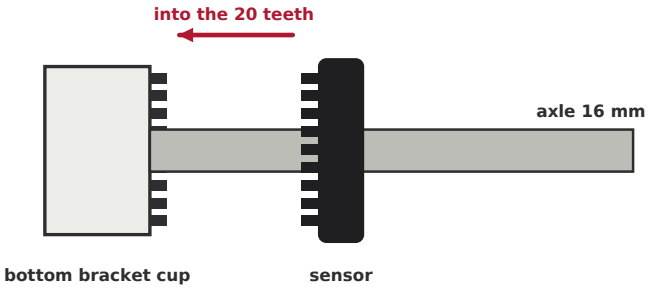
2 Pull off the crank

Screw the crank puller into the crank and turn the nut inwards with the 16 mm spanner. The crank then comes off the bottom bracket.



3 Fit the sensor

Slide the sensor over the bottom bracket axle and push it into the **20 teeth** of the bottom bracket cup.



> **A bit stiff?**
> That is normal: the sensor clamps around the axle. Push it on calmly and straight.

4 Refit the left crank

Put the crank back on the bottom bracket axle and tighten the bolt firmly with the 8 mm Allen key.

> **Crank must not touch the sensor**
> The crank must not press against the sensor. If there is too little space, a small piece may need to be filed or sawn off the inside of the crank.

5 Connect the cable

Route the cable neatly along the frame to the controller and connect it to the pedal sensor plug (black).

System not working?

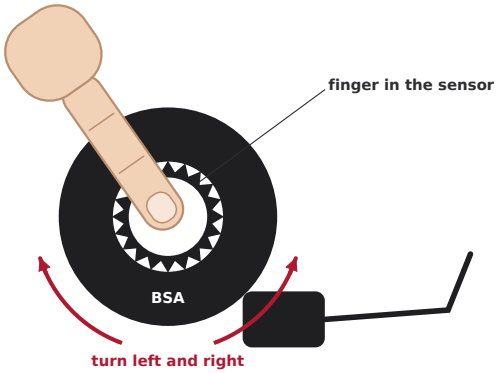
No assistance after fitting the BSA pedal sensor? Then the axle of your bottom bracket is probably **thinner or thicker than 16 mm**. These two tests quickly show you the cause.

1 Test 1: walk assist

Lift the wheel with the motor off the ground, switch on the display and hold the **bottom button** of the display. Does the wheel turn? Then the motor, controller and display are working. Continue with test 2.

2 Test 2: finger in the sensor

Remove the BSA sensor from the crank and bottom bracket. Put your finger in the hole of the sensor and turn it gently left and right, as when pedalling.



Does the wheel turn in test 2?
Then the sensor works, but it does not turn with your bottom bracket. The sensor is then **not suitable for your bottom bracket**: the axle is thinner or thicker than 16 mm. Please contact us.

Check after fitting

- ☐ Sensor sits firmly in the teeth of the cup
- ☐ Crank bolt firmly tightened
- ☐ Crank does not touch the sensor
- ☐ Test ride: assistance starts when pedalling