

The Fischer A.G. 127-01 Torque Sensing Bottom Bracket

Installation Notes - 1.0a

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Thank you for purchasing the Fischer A.G. 127-01 torque sensing bottom bracket. This is a short set of notes on the physical installation of this product, and the set up with a version 3 Cycle Analyst.

1 Recommended Tools

- Center punch
- Drill and drill bit to make a 10mm exit hole
- Splined bottom bracket removal tool
- Adjustable wrench
- Torque wrench for 25-30Nm
- Hammer or mallet
- Silicone sealant

2 Installation

1. Drill a 10mm or 3/8" hole in the center of the lowest point of the bottom bracket shell for the sensor cable to exit. Ensure the hole is properly deburred to prevent damage to the cable.

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Tip: Use a lower drill RPM when drilling into steel frames.





Before proceeding with the installation, please note the locations of the left ('L') and right ('R') sides of the unit:



The RH bearing cup goes on the left side, and the LH bearing cup goes on the right side. The LH and RH refer to the thread directions.

Also observe that the right ('LH') bearing cup has a bobbin which snaps to the body of the bottom bracket.

IMPORTANT: Installing cups on wrong side will damage the threads on the cups and may also damage the unit.

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2. Screw the right chainring ("LH") side bearing cup into the bottom bracket shell.



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Note that this is a left handed thread, so it turns counter-clockwise.

 Install the sensor by first inserting the cable through the hole you have made in the bottom bracket shell.
Then slide the unit in place as you gently pull the cable out.





4. Use the supplied piece of tube and a small hammer or mallet to gently tap the bottom bracket unit in place so that it snaps into the bobbin of the right hand cup.

Do not force or strike the axle itself as this can damage the unit!

5. Once in place, screw on the left side bearing cup. Check that everything is seated properly and then tighten the cups to 30N/m (about 9kg of force on a 30cm long wrench) using the appropriate bottom bracket tool.



6. Your torque sensing bottom bracket is now in place and ready for the reassembly of the crank arms and chain ring.

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3 Cycle Analyst Settings

3.1 PAS Device Setup

Device sensor type	Custom Trq
PAS poles	18 Poles
PAS signal type	2 wire
PAS direction polarity	5V = FWD
Torque scale	50 Nm/V
Zero torque offset	~0.5V nominal (0.6V typical)

3.2 PAS Configuration Setup

Values for typical use are suggested.

PAS assist mode	Torque
Assist start level	0 – 100W
Assist scale factor	2 – 4 Times
Torque assist averaging	18 Poles
Start threshold	0.3 sec/pole
Stop threshold	0.2 sec/pole

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4 Specifications



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