

Crankset Installation

1. This instruction refers to installing the KXF / Gradient MTB Modular Crankset into a compatible frame. For BB installation refer to BB instruction to ensure crankset and bottom bracket compatibility before proceeding.

2. Install the Cup Spacers ④ refer to the illustrations and Table 1. Lightly grease the spindle bearing contact surface and insert from non-drive side.

CAUTION Take care the spindle ⑧ does not to damage plastic bearing covers during installation.

3. Install the Right Crank Arm ⑩ onto the Spindle. Use 10mm hex wrench to tighten the QR Self Extracting Crank Bolt ⑪ to 388-418 kgf.cm / 38-41 Nm / 336-363 in.lbs. Do not tighten crank bolt over 418 kgf.cm / 41 Nm / 363 in.lbs.

4. Adjust preload nut ⑤ until crank contact BB assembly. Tighten preload nut set screw ⑥ with 2.0mm allen to a torque 4-5 kgf.cm / 0.4-0.5 Nm / 3.5-4.4 in.lbs to secure preload nut.

CAUTION Do not remove Left arm crank bolt ⑨ unless removal of left arm is necessary. For left arm removal, see below instructions. For service always use 10mm hex wrench to remove the Right Crank Arm ⑩.

Left Arm Removal in case of need to change spindle

1. Use a 10mm hex wrench to remove drive arm ⑩ with the self extracting bolt ⑪.

2. Remove drive side (right) crank arm ⑩ self extracting collar ⑪ using a pin spanner.

3. Remove the left side crank bolt ⑨ using a 10mm hex wrench.

4. Install the self extracting bolt and self extracting collar ⑪ in to the left crank arm ⑦. Ensure the self extracting collar is in completely tightened.

5. Loosen the self extracting bolt to remove left arm.

CAUTION Apply threadlocker (Loctite 242 or equivalent) on the Crank bolt ⑨ at least 6 threads for new spindle installation. Use and allow to cure according to threadlocker instructions. Check the Spindle ⑧ dimension is correct refer to Table 1 before proceeding next installations.

WARNING Always use a calibrated torque wrench to tighten crank bolt ⑨ and ⑪. Check bolt torque 388-418 kgf.cm / 38-41 Nm / 336-363 in.lbs before each ride to ensure they have not loosened during use.

Introduction

Congratulations on your Full Speed Ahead product. Please read these instructions and follow them for correct use. Failure to follow the warnings and instructions could result in damage to product not covered under warranty, damage to bicycle; or cause an accident resulting in injury or death. Since specific tools and experience are necessary for proper installation, it is recommended that the product be installed by a qualified bicycle technician. FSA & Vision assumes no responsibility for damages or injury related to improperly installed components.

Warranty

Full Speed Ahead (FSA) warrants all FSA and Vision products to be free from defects in materials or workmanship for a period of two years after original purchase unless otherwise stated in the full warranty policy. The warranty is non-transferable and valid to the original purchaser of the product only. Any attempt to modify the product in any way such as drilling, grinding, and painting will void the warranty. For more information on warranty policy and instructions for completing a warranty claim, check out the Full Warranty Policy found at our website: <https://www.fullspeedahead.com/en/technology>

Specification

Model Name KFX Modular Direct Mount BB392EVO

Gradient Modular Direct Moun BB392EVO

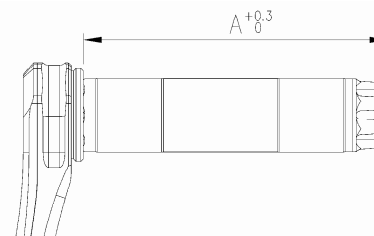
Components

Follow the assembly order in the illustration:

- | | |
|----------------------------|---|
| ① Bottom Bracket Shell x1 | ⑦ Left Crank Arm x1 |
| ② Right Bearing Cup x1 | ⑧ Crank Spindle x1 (Pre-installed on Left Crank) |
| ③ Left Bearing Cup x1 | ⑨ Crank bolt x1 (Pre-installed on Left Crank) |
| ④ 2.5mm Cup Spacers x2 | ⑩ Right Crank Arm x1 |
| ⑤ Preload Nut x1 | ⑪ QR Self Ext. Crank Bolt x1 (Pre-installed on Right crank) |
| ⑥ Preload Nut Set Screw x1 | |

Table 1: Spindle ⑧ dimension (w/o Preload Nut ⑤)

Model Name	QF	Spindle	A	2.5mm Cup Spacers ④
KFX	172	A3188	124 mm	X2
	177	A3175	129 mm	
Gradient	172	A3188	123 mm	x2
	177	A3175	128 mm	
	183	A3182	133 mm	



Contact

If you have questions, please visit our web site technical section: <https://www.fullspeedahead.com/en/support> or contact:

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