BB86 & BB92 Bottom Bracket Installation Instructions (For Use With FSA Alloy Cranksets Only)

Published - Mar, 2011. ZS114B.v1 © Full Speed Ahead



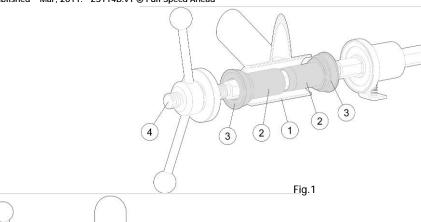


Fig. 3 2 1 2 3

Fig.2

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, Gravity, Vision, Metropolis and RPM 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: http://www.fullspeedahead.com/support/warranty-policy/ Specification

Item Number / Model Name BB-AL86/SLE / Steel Bearing BB86 for Alloy Road Cranks
Item Number / Model Name BB-ALM92/SLE / Steel Bearing BB92 for Alloy MTB Cranks

Note: These bottom brackets are for FSA model alloy cranksets listed in chart below. For bottom brackets compatible with FSA Carbon cranksets refer to instruction: ZS114A

Components

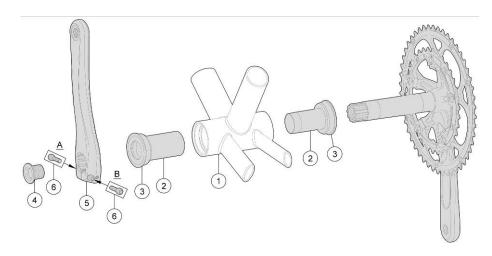
Follow the assembly order in the illustration:

- 1 Bottom Bracket Shell
- 2 Plastic Center Sleeve x1
- 3 Bearing Cup x2
- 4 Headset Press Tool (not included)

Press Fit Bottom Bracket Installation

1. Ensure that Bottom Bracket (BB) shell ① is clean and free of metal chips, dirt, and excess paint.

- Note: BB-92 is for MTB cranksets only. BB86 is for road cranksets only. Refer to "Crankset Specification" chart to ensure bottom bracket and crankset compatibility before continuing.
- Follow assembly order as pictured in above illustrations.
- 3. Place either Bearing cup ③ with plastic sleeve ② on the Headset press tool ④ as shown. Note: Right and Left bearing cups are the same.
- 4. Slide the Headset Press tool 4 through the Bottom bracket Shell and place the remaining Bearing Cup 3 with Plastic sleeve 2 facing the Bottom bracket shell (Fig.1).
- 5. Using the Headset Press tool ④ press the bearing cups ③ with Plastic Center Sleeve ② into the BB shell. Tighten until the thrust face of the Bearing Cup ③ is flush with the outer face of the Bottom Bracket shell ① (Fig.2). Note: Be certain that the bearing cups and tool faces are aligned and square otherwise damage to the plastic covers and bottom bracket shell may occur.
- 6. When Bottom Bracket is fully installed unscrew Headset Press tool and carefully remove from the Bottom bracket.
- 7. Check bearings for rotational smoothness. If bearings feel rough, it may be an indication the cups are not perfectly aligned in the bottom bracket shell. It may be necessary to remove and reinstall the bearings to be assured bearing alignment in the bottom bracket shell.



Specification

Item Number / Model Name CK-8090 / Energy BB86 Crankset Item Number / Model Name CK-C8090 / Energy compact BB86 Crankset Item Number / Model Name CK-8090 / Energy Triple BB86 Crankset Item Number / Model Name CK-C6030 / TriMax TT Compact BB86 Crankset Item Number / Model Name CK-6020 / Gossamer BB86 Crankset Item Number / Model Name CK-C6020 / Gossamer Compact BB86 Crankset Item Number / Model Name CK-6020 / Gossamer Triple BB86 Crankset Item Number / Model Name CK-6021 / Gossamer Pro BB86 Crankset Item Number / Model Name CK-C6021 / Gossamer Pro Compact BB86 Crankset Item Number / Model Name CK-6021 / Gossamer Pro Triple BB86 Crankset Item Number / Model Name CK-C9186 / Afterburner compact 386 BB92 Crankset Item Number / Model Name CK-C7186 / Comet compact 386 BB92 Crankset Item Number / Model Name CK-9180 / Afterburner BB92 Crankset Item Number / Model Name CK-7080 / V-Drive BB92 Crankset Item Number / Model Name CK-7152 / Comet BB92 Crankset Item Number / Model Name CK-9162 / Gravity Light BB92 Crankset

Туре	BB	BB Shell Width	Item Number
ROAD	BB-AL86/SLE	86.5mm	CK-8090 \ CK-C8090 \ CK-C6030 \ CK- 6020 \ CK-C6020 \ CK-6021 \ CK-C6021
MTB	BB-ALM92/SLE	92mm 89.5 mm★	CK-C9186 \ CK-C7186 \ CK-9180 \ CK- 7080 \ K-7152 \ CK-9162

★2.5mm spacer is needed between drive side crank and bottom bracket bearing shield; not included with FSA BB92 Kit.

Components

Follow the assembly order in the illustration:

- 1 Bottom Bracket Shell
- ② BB Sleeve x2
- 3 Bearing Cup x2

- 4 M18 Endbolt x1
- (5) Left Crank x1
- 6 M6 Pinch Bolt x2

Crankset Installation

- 1. Ensure the Bottom Bracket Shell ① is BB86 (for Road) and BB92 (for MTB) compatible and has an overall width of 86.5mm (for Road) and 92mm (for MTB).
- 2. Follow assembly order as pictured above. (Note: bottom bracket should be already installed as instructed earlier in instruction).
- 3. Apply a thin layer of grease on the spindle surfaces which contact bearing. Insert the drive crank into the right side of BB shell. Take great care not to damage the plastic covers of the bearing cups.
- 4. Apply a thin layer of grease on the engagement teeth the left spindle. (Note: Engagement teeth should be fully exposed on the left, non-drive side of the bottom bracket. Alloy cranksets do not require a wave spring washer).
- 5. Install the non-drive crankarm (§). Make sure engagement teeth of spindle and left arm insert are seated correctly before tightening crankbolts (4) (8). Make sure spindle engages the non-drive arm fully. The spindle must be inserted passed the center of the outermost pinch bolt for proper engagement. (A) WARNING If spindle engagement is not sufficient, the crankarm can loosen while riding causing loss of control of bicycle and potential injury.
- 6. Tighten M18 endbolt (4) to a torque of 7.1-15 kgf.cm / 0.7-1.5 Nm / 6.2-13 in lbs. Always use a calibrated torque wrench to tighten the endbolt.
- 7. The M6 pinch bolts (a) must be tightened by turning each bolt 1 / 2 turn at a time so both bolts tighten evenly to a torque of 110-150 kgf.cm / 10.8-14.7 Nm / 95-130 in.lbs.



METROPOLIS

Contact

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

Full Speed Ahead, USA 12212 Cyrus Way Mukilteo, WA 98275-5702 Tel: 1_425_488_8653 Fax: 1_425_489_1082 Full Speed Ahead, Europe Via Del Lavoro, 56 20874 Busnago, Milan, Italy Tel: +39_039_688_5265 Fax: +39_039_682_3336 TH INDUSTRIES / FSA Asia NO.6, Wu-gong 8th Rd., Wufeng Dist., Taichung City 41353, Taiwan (R.O.C.) Tel: +886_4_2331_9134 Fax: +886_4_2331_9314