

Service Instructions:

Read these instructions and follow them for correct use. These instructions and instructions for other FSA products are available for download at www.fullspeedahead.com

Specification

- **Model No. / Model Name** **CK-9555 Gravity MegaExo Crankset**
 - BB Shell 68mm, 73mm, and 83mm English (BC1.37")
- **Model No. / Model Name** **CK-9160 Gravity Light MegaExo Crankset**
 - BB Shell 68mm, 73mm, and 83mm English (BC1.37")
- **Model No. / Model Name** **CK-7550 GAP MegaExo Crankset**
 - BB Shell 68mm, 73mm, and 83mm English (BC1.37")

Compatibility

- FSA MegaExo bottom brackets are only compatible with FSA MegaExo cranksets.
- **Warning:** MegaExo BB's are not compatible with non-FSA cranksets.
- Check the compatibility chart for MegaExo BB's.
- **Warning:** Specific models of FSA MegaExo cranks require specific models of FSA MegaExo BB's.

Table 1: FSA 2008 Compatibility Chart for MTB MegaExo Cranks and BB

FSA 2008 Gravity Compatibility Chart: MegaExo Cranks and BB			MTB Triple CL 50mm (57.5 for 83mm BB)					
			Chain Line	MegaExo 9200	MegaExo 9000	MegaExo 7000	MegaExo 7000/83mm	MegaExo 7550
BCD	Crank Model	Model No.	BB-9200	BB-9000	BB-7000	BB-7000/83mm	BB-7550	BB-7550/83mm
MTB Gravity 104/64mm BCD	Gravity MegaExo	CK-9550	X	X	X	X	YES	X
	Gravity MegaExo 83mm	CK-9550	X	X	X	X	X	YES
	Gravity Light	CK-9160	X	X	YES	X	X	X
	Gravity Light 83mm	CK-9160	X	X	X	YES	X	X
	Gravity GAP	CK-7550	X	X	X	X	YES	X
	Gravity GAP 83mm	CK-7550	X	X	X	X	X	YES

Installation Notes – BB Shell Check

- Check the BB shell width and threading dimensions to choose the correct BB cups:

Table 2: Bottom Bracket Designation

Type	BB Shell Type	BB Cup Color
MTB	68mm x BC1.37" 73mm x BC1.37"	Black
MTB Quad	68mm x BC 1.37" 73mm x BC 1.37" 83mm x BC 1.37"	Black

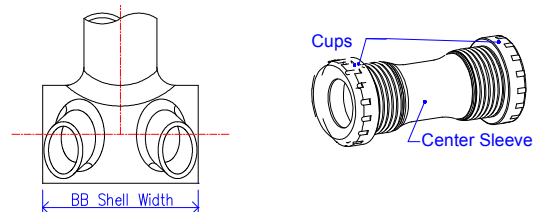


Fig. 1: BB Shell and BB Diagram

- Ensure that the BB shell ends are faced and square and clean from paint.
- BB shell width should be within +0/-1mm of the nominal dimension:

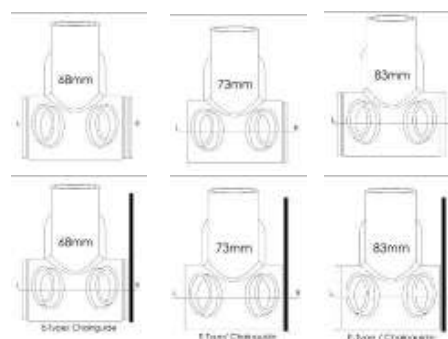
Table 3: BB Shell Tolerance

BB Shell Nominal Size	Min. Dimension	Max. Dimension
68mm	67mm	68mm
73mm	72mm	73mm
83mm	82mm	83mm

Table 4: Alloy Shell Spacers for MTB MegaExo

MTB BB Size	BB mount derailleur or chain-guide	L. Spacers	R. Spacers
68	no	x1	x2
68E	yes	x1	x1
73	no	x0	x1
73E	yes	x0	x0
83	no	X1	x1
83	yes	X1	X0

Fig. 2: Alloy Shell Spacer Diagram for MTB MegaExo



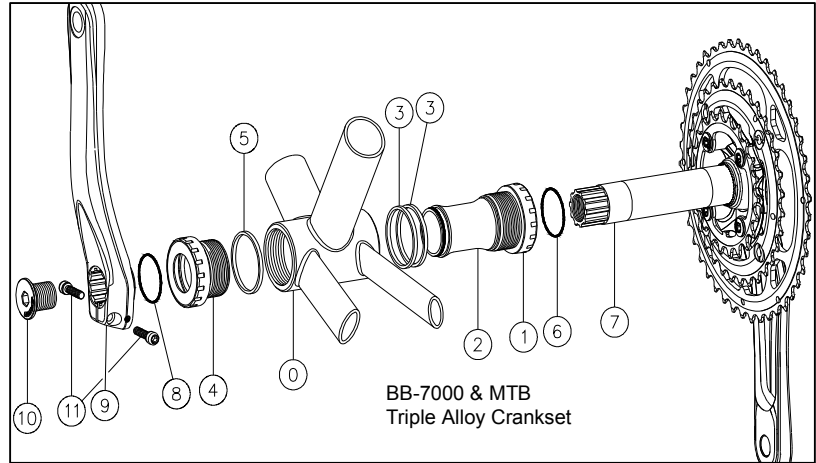
Installation Notes Continued

- Ensure that the BB shell threads are clean from machining chips, dirt, dust, etc.
- Prepare all threaded contacts (i.e. grease the BB shell threads when installing cups, threadlock all bolts, etc.).
- Check the number of 2.5mm alloy shell spacers required (see Table 4).

BB-7000 / 7550 / 7000/83mm / 7550/83mm MegaExo Bottom Bracket for use with alloy MTB cranks

BB-7000/ 7550/ 7000/83mm / 7550/83mm bottom brackets are designed to work with Gravity Light, Gravity, and GAP MTB cranks respectively. Follow the assembly order in the illustration:

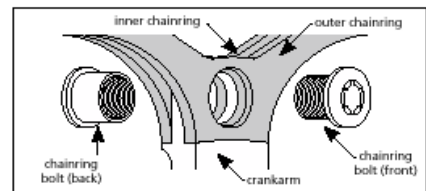
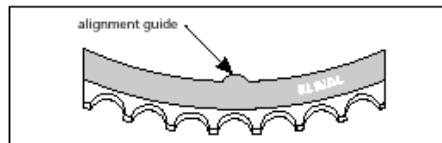
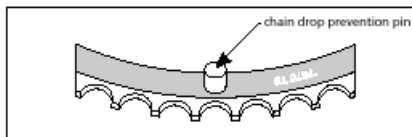
- (0) Check the BB shell as described above.
- (1)(2)(3) Install the R. bearing cup with plastic middle spacer, and the shell spacers required as specified in the shell spacer diagram above. Tighten cup to 39-49 Nm. (Use FSA cup tool part no. E0139.)
- (4)(5) Install the L. bearing cup and shell spacer. Tighten cup to 39-49 Nm.
- (6) Check that the O-ring is fully installed onto the axle of the R. crank from the factory.
- (7) Gently and completely insert the R. crank through the BB cups. Take great care not to damage the plastic cover of left BB cup. Use a light layer of grease on the spindle if necessary.
- (8) Install O-Ring on L. side of axle.
- (9) Install the L. crank onto the axle. Be sure the left arm is fully engaged on spindle splines. The end of the spindle should be inserted past the center of the outer-most pinch-bolt.
- (10)(11) Loctite 242 compound is pre-applied to the adjusting cap and to the M5 fixing screws. Upon re-installation, or if the compound is not present, apply Loctite 242 or similar compound to the adjusting cap and M5 fixing screw threads. Adjust the cap to 0.4-0.7 Nm.
- (11) Make sure there is blue threadlock on the M5 fixing screws and tighten to 12-13 Nm. Tighten the M5 fixing screws by alternating ½ turn each so both screws reach recommended torque simultaneously.



Chaining Installation

Assembly:

1. With the FSA Logos and printed surface facing out, position the larger chainring so that the chain drop prevention pin is located behind the crank arm.
2. With the FSA Logos and printed surface facing out, position the inner chainring so that the alignment guide is located behind the crank arm. Use the same installation procedure for the third chainring on a triple crankset.
3. Apply grease to the chainring bolt threads and surfaces where they contact the crank arm and chainrings. Fasten the chainrings to the crankarm using the chainring bolts at a torque of 9-12 Nm.

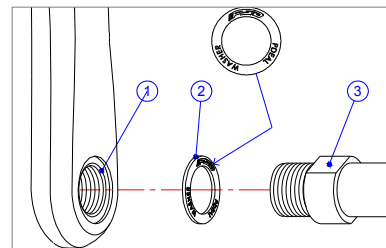


Pedal Installation

Assembly:

1. Grease pedal threads.
2. Torque pedals to 29-34 Nm.

Warning: FSA does not recommend the use of pedal extenders.

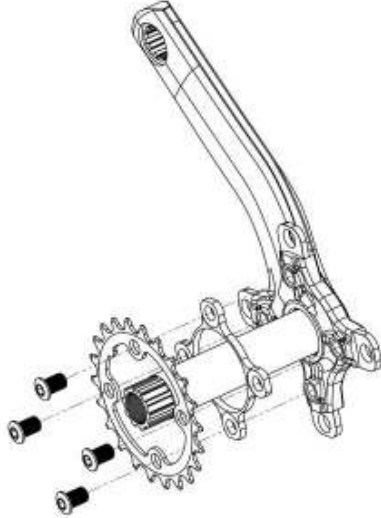


Note for Single Chaining Use (Applies to Gravity and Gravity Light models)

Inner Chaining Tab Removal for Single Ring Use:

Aftermarket Gravity and Gravity Light cranksets have a removable inner chaining tab for use with chainguides (see Figure 3). Removing the inner chaining tab eliminates interference when using the crankset with single ring chainguides. Gravity and Gravity Light cranksets that are assembled as original equipment (OEM) on bicycles may not include the removable inner tab. In such cases, the inner tab can be purchased separately at your local FSA dealer.

Figure 3: Diagram of removable inner chaining tab.



Inner Tab Installation Instructions

(1) The removable inner tab has a flat surface, and a surface with machining around the bolt holes. Position the inner tab so the machined surface is in contact with the crankarm, facing outward. The flat surface should contact the inner chaining, facing inward.

Note: Apply light layer of grease to the machined surface before contact with crankarm.

(2) The chaining has an alignment guide between two of the bolt holes. The alignment guide should be in line with the crank arm.

(3) Apply thread locking compound to the chaining bolt threads and grease between crank arm and chaining contact surfaces.

(4) Tighten the chaining bolts in an "X" pattern, turning each bolt a ¼ turn at a time so all four bolts reach proper torque uniformly. Fasten the chaining bolts to a torque of 12 Nm

Removal is reverse of installation.

Maintenance

Inspect your FSA cranks and bottom brackets for straightness, cracks, deep scratches and gouges, or damage before each ride. If any of the preceding conditions are present, do not use your FSA cranks or bottom bracket until they have been replaced.

It is the product user's responsibility to examine the product on a regular basis to determine the need for service or replacement. Cyclist should inspect their bicycle and parts on a regular basis in order to detect damage that may have occurred from normal use and abuse. Check all parts for damage and wear before every use. Check all screws periodically for tightness. Do not over-tighten. Periodically re-grease all screws.

WARNING: In the event of a bicycle accident, all parts should be thoroughly examined by a qualified bicycle mechanic, and any damaged FSA parts replaced. Do not attempt to straighten bent cranks, they must be replaced.

All damaged parts should be repaired or replaced by a qualified bicycle mechanic before the bicycle is used again. Continuing to use damaged parts may lead to loss of control of the bicycle and cause injury or death.

Warranty

Full Speed Ahead Worldwide Warranty 2008

As stated in the Directive 1999/44/EC of the European Parliament and of the Council of 25 May 1999 on certain aspects of the sale of consumer goods and associated guarantees, Full Speed Ahead (FSA) warrants all FSA, Gravity, VisionTech, and RPM products to be free from defects in materials or workmanship for a period of two years after original purchase unless otherwise stated below. This warranty is non-transferable and valid to the original purchaser of the product only. If your product included a written policy in the packaging that differs from the warranty policy posted at www.fullspeedahead.com, the policy at www.fullspeedahead.com is to be considered most current and in effect.

FSA will apply the consumer more favourable obligatory warranty provided by the national laws of the Member State of the European Union, United States of America, or consumer's home country.

Exceptions to the 2 year Warranty:

Headsets: Orbit Xtreme and Orbit Xtreme Pro headset models are guaranteed against defects in materials and workmanship for ten years from date of purchase.

- FSA, Gravity, VisionTech, and RPM products purchased used and through unauthorized dealers (Online auction or otherwise) or distributors carry NO WARRANTY and are sold as-is.
- FSA, Gravity, VisionTech, and RPM products that have been modified, neglected or poorly maintained.
- FSA, Gravity, VisionTech, and RPM products that are purchased used and or not in original packaging.
- FSA, Gravity, VisionTech, and RPM products that have been damaged in shipping.
- FSA, Gravity, VisionTech, and RPM products that have been used in competition, stunt riding, or for commercial use. This includes bending or breaking components due to the use and abuse of components used for dirt jumping, trials, street or park, downhill and free-riding.

- FSA, Gravity, VisionTech, and RPM products damaged due to not being properly installed or repaired as recommended by FSA.
- FSA, Gravity, VisionTech, and RPM damaged from causes other than defects in materials and workmanship such as a user's lack of skill, competence or experience.
- The finish or aesthetics of FSA, Gravity, VisionTech, and RPM products are not covered under this warranty.
- Normal wear to the product. Components may have symptoms of wear in less than two years depending on amount of use, type of use and other conditions. This includes products that have reached the end of their normal life expectancy.

Bearings: Bearings that fail due to contamination, misuse, improper, or lack of maintenance are not covered under warranty even if failure occurs within two years from date of purchase.

Handlebars: This warranty does not cover bent handlebars or damage due to use of bar ends or clip-on bars. Handlebars may have an effective usable life less than two years depending on amount of use, type of use and other conditions. Cyclists should inspect their handlebars on a regular basis in order to detect damage that may have occurred from normal use or abuse.

Seatposts: Carbon fiber seatposts that have been, cracked, damaged or broken in the area where the seatpost clamp tightens the seatpost are not covered under this warranty.

Cranks: Stripped crank pedal threads are not covered under warranty

To Obtain Warranty Service:

Eligibility for warranty is determined by FSA warranty/tech personnel. Proof of purchase and delivery date is **required** to validate warranty period. Please keep your proof of purchase and delivery date. Items returned for warranty determination without proof of purchase will be returned at customer's expense.

It is necessary to return the product to FSA for inspection before any replacement under warranty can be deemed. Only FSA or an Authorized FSA Warranty Service Center may determine if a product is warrantable. If the product is not covered under warranty, all replacement, repair, and shipping costs are responsibility of the customer. At no time may any retailer or distributor make representations of warranty for FSA products without express written permission from FSA. Should a retailer or distributor replace product before consulting FSA, it is at the sole discretion of the retailer or distributor and may not be reimbursed by FSA.

Before returning product to FSA or FSA Warranty Center, follow the instructions below to receive a return authorization (RA) number

Consumers: Claims for warranty must be made through the retail location where the product, or bicycle with FSA original equipment (OEM), was purchased. The retail location should contact FSA or the closest Authorized FSA Warranty Center to obtain a RA number. Proof of purchase and delivery date is **required** to validate warranty period. Please keep your proof of purchase. The item claimed for warranty must be received by FSA or Authorized FSA Warranty Service Center within 60 days from the issuance of RA number.

Retailers: Contact FSA or an Authorized FSA Warranty Center to obtain an RA (return authorization) number. Send the FSA product with RA number clearly printed on the box, along with a copy of the purchase receipt, or other satisfactory proof of purchase along with delivery date to Full Speed Ahead. Contact the Authorized FSA Warranty Service Center closest to your country of residence for warranty determination. A list of Authorized FSA Distributors/ Authorized FSA Warranty Service Centers is posted at www.fullspeedahead.com.

Damage to product during shipping is not covered under warranty. Once received by FSA or Authorized FSA Warranty Service Center, the product will be inspected to determine if it is covered by the FSA warranty policy. After receipt and inspection by FSA warranty personnel and deemed warrantable, FSA will perform the necessary repair or replacement.

In the case where the product is not covered under warranty, FSA will repair the product at customer's expense or offer replacement under the "Crash Replacement Policy". This policy covers a 2 year period following the original purchase date of the product. The crash replacement policy offers replacement of damaged, non-warrantable, non-repairable product at a reduced price. If the customer declines the crash replacement offer or repair service, the customer will need to cover the cost of returning the product. If the customer declines service or replacement offer and the product is deemed unsafe for use, the product will be returned in an unusable condition to guarantee rider safety.

Limits of Warranty

FSA agrees to repair or replace products deemed by FSA to be defective as indicated below. FSA reserves the right to replace product with like replacements that may have graphics or finishing different from the original part. If a part defect arises and a valid claim is received within the Warranty Period, at its option, FSA will either (1) repair the defect at no charge, or (2) exchange the product with a product that is new or which is at least functionally equivalent to the original product. FSA may request that you replace defective parts with new or refurbished user-installable parts that FSA provides in fulfillment of its warranty obligation. Replacement parts assume the remaining duration of the original warranty period, or ninety (90) days from the date of replacement or repair, whichever is longer. When a product or part is exchanged, any replacement item becomes property of the customer and the item replaced becomes property of FSA.

If the repair or the replacement of the warranted product is not possible, or will cost more than the value of the product being repaired, the consumer may ask to receive either a reduction in the price of a replacement product, or the cancellation of the purchase agreement.

In the case of goods sold to commercial entities (Bicycle or bicycle parts retailers, distributors, and their employees) warranty term is limited to one year. Parts re-sold in new condition, to consumers, in the normal process of business, assume the normal warranty terms.

To the extent permitted by law, this warranty and remedies set forth above are exclusive and in lieu of all other warranties, remedies and conditions, whether oral or written, statutory, express or implied. As permitted by applicable law, FSA specifically disclaims any and all statutory or implied warranties, including, without limitation, warranties of merchantability, fitness for a particular purpose and warranties against hidden or latent defects. If FSA cannot lawfully disclaim statutory or implied warranties then to the extent permitted by law, all such warranties shall be limited in duration to the duration of this express warranty and to repair or replacement service as determined by FSA in its sole discretion. No FSA reseller,

agent, or employee is authorized to make any modification, extension, or addition to this warranty.

Except as provided in this warranty and to the extent permitted by law, FSA is not responsible for direct, special, incidental or consequential damages resulting from any breach of warranty or condition, or under any other legal theory, including but not limited to loss of use; loss of revenue; loss of actual or anticipated profits (including loss of profits on contracts); loss of the use of money; loss of anticipated savings; loss of business; loss of opportunity; loss of goodwill; loss of reputation; loss of, or any indirect or consequential loss.

Contact:

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