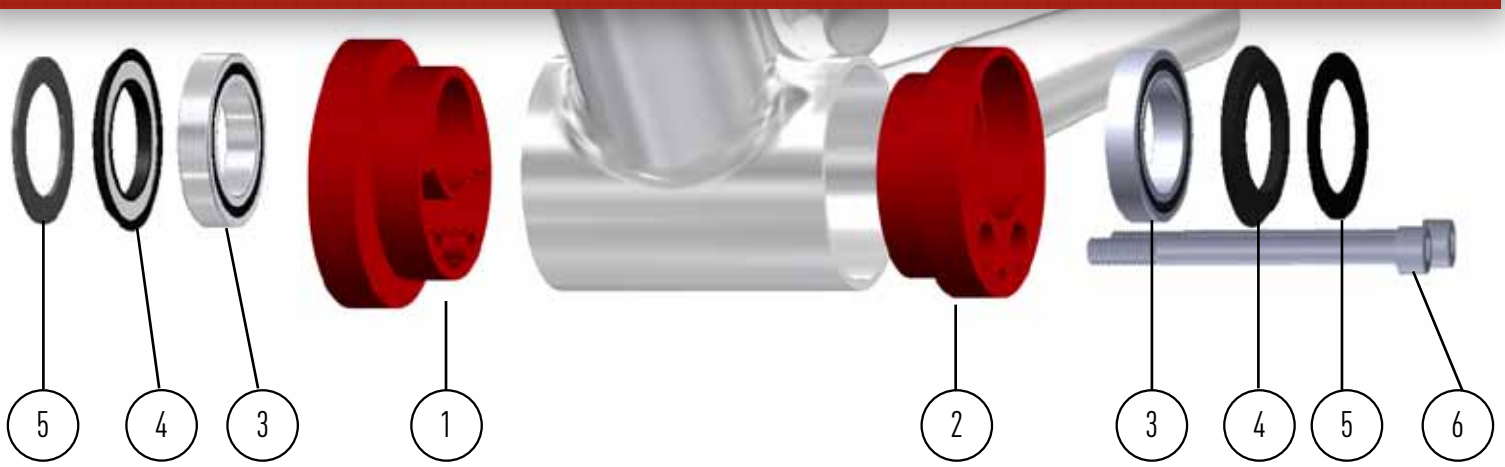


ECCENTRIC BB for SHIMANO PARTS LIST

Item #	*Part #*	*Description*	*QTY Included*	
1		RIGHT BB30-EBB CUP	1	
2		LEFT BB30-EBB CUP	1	
3	SB-24X37ACZ	ENDURO 24X37X7 ANGULAR CONTACT BEARING	1	
	SB-24X37ACZ	ENDURO 24X37X7 ANGULAR CONTACT BEARING	1	
4	24MMSEAL	24MM OUTER SILICONE SEAL	1	
	24MMSEAL	24MM OUTER SILICONE SEAL	1	
5	BB-24MM-0.5Z	0.5MM SHIM FOR 24MM BB SPINDLE	1	
	BB-24MM-1.0Z	1MM SHIM FOR 24MM BB SPINDLE	2	
6	M6 X 75SHSSZ	M6 X 75MM STAINLESS SOCKET HEAD BOLT	2	FOR 68MM SHELL
	M6 X 80SHSSZ	M6 X 80MM STAINLESS SOCKET HEAD BOLT	2	FOR 73MM SHELL

Recommended Tools:

Part #	*Description*	*QTY Needed*	
5MM ALLEN WRENCH	INSTALLATION PRESS	1	
TOOL-SPAN	BOTTOM BRACKET SPANNER WRENCH	1	
Torque Wrench	TORQUE WRENCH	1	

TECHNICAL NOTES: **BB30-EBB for SHIMANO – Angular Contact Bearings**

IMPORTANT:

- Read instructions completely before beginning installation.
- DO NOT use any brand bearing retaining compounds or epoxies during installation, use of which will void any warranty.

IMPORTANT NOTE: Our Eccentric bottom brackets for BB30 frames will not work with frames that do not have removable c-clips in the shell. If your frame has a shell with a molded step that the bearings press up against, our EBB will not completely fit in to the shell.

Thoroughly clean the bottom bracket shell. Do not install bottom bracket dry. Identify the material that your frame's bottom bracket shell is made of. Use the correct compound for your BB shell material!

- Steel or Alloy BB shells - High Quality Grease
- Carbon BB Shell - 100% Pure PTFE (Teflon) Grease
- Titanium BB Shell - Anti-Seize Compound

1. Thoroughly clean the bottom bracket shell. Remove bearings and c-clips (if present) from frame. Do Not install cups dry. **Apply a thin layer of high quality grease, PTFE or anti-seize compound to inside surface of the shell.**

- Steel and Aluminum BB Shells - Grease
- Carbon BB Shell - PTFE (Teflon)
- Titanium BB Shell - Anti-Seize Compound

2. **Apply a thin layer of high quality grease, PTFE or anti-seize compound** to cup and insert drive side cup into frame by hand positioning bearing towards the rear of the bike.

- Steel and Aluminum BB Shells - Grease
- Carbon BB Shell - PTFE (Teflon)
- Titanium BB Shell - Anti-Seize Compound

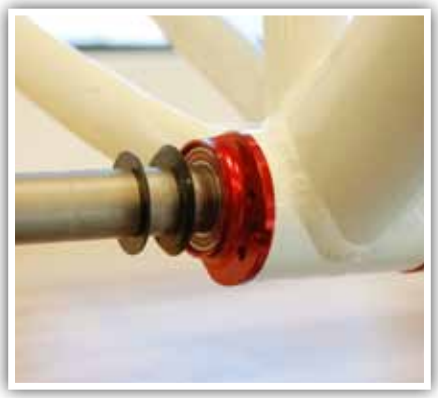
2. **Apply a thin layer of high quality grease, PTFE or anti-seize compound** to cup and insert non-drive side cup into frame by hand positioning bearing towards the rear of the bike.

- Steel and Aluminum BB Shells - Grease
- Carbon BB Shell - PTFE (Teflon)
- Titanium BB Shell - Anti-Seize Compound

4. Apply a thin layer of grease to the bolts on both the threads and beneath the head.

IMPORTANT NOTE: 73mm BB shells require the use of M6 x 80 bolts only.Do not use M6 x 75 bolts in 73mm BB shell, damage to drive side cup threads may occur.

5. Thread in both M6 x 75 bolts (68mm BB shell) or M6 x 80 bolts (73mm BB shell), but do not fully tighten. Position the cups so that the bearings are facing towards the rear of the bike.



6. Install right crank arm, making sure outer dust seal is installed. Use crank spacers as needed to take up any play. Remove spacers as necessary if binding occurs.

7. Install left crank arm, making sure outer dust seal is installed. Use crank spacers as needed to take up any play. Remove spacers as necessary if binding occurs.

8. Tighten crank to manufacturer specifications.

9. With rear wheel and chain installed, use spanner wrench (TOOL-SPAN) to rotate the EBB counter-clockwise until proper chain tension is reached.

10. Using torque wrench, tighten both M6 x 75 (68mm BB shell) or M6 x 80 (73mm BB shell) bolts to 8-10 Nm.

Warning: Do not install bottom bracket with the two bolts positioned above the bearing. Some carbon frames do not have proper internal support for the bolts to properly tighten to spec. As a result, the cups will not stay tight in the frame, and at worst, your frame may crack.

Correct

Incorrect

Final Adjustments:

Check for play in the crank. If the crank moves side-to-side through the bottom bracket, remove the left crank arm and add spacers as needed between the outer dust seal and the left crank arm.

NOTE: **Angular contact bearings require slightly more preload to ensure that all balls are contacting the inner races properly. For proper preload of angular contact bearings, tighten the left crank arm fixing bolt until you start to feel drag on the bearings. Then back off the fixing bolt until the bearings begin to rotate freely again. TIghten crank pinch bolts to manufacturer specs.**

NOTE: Due to the wide variety of frame manufacturers, Wheels Manufacturing cannot guarantee compatibility with all frames. Please consult with your specific frame manufacturer before installation. Wheels Manufacturing is not responsible for damage done to your frame as a result of installation or use of this product.

IMPORTANT: Wheels Mfg Limited Warranty

Wheels Mfg PressFit components, excluding Enduro bearings are warranted for a period of 2 years. Enduro warrants its 24x37 angular contact bearings and 24x37 ceramic bearings for a period of 1 year to be free of defects in workmanship or materials. Excessive exposure to environmental elements or improper installation or removal voids warranty. Do not wash the bottom bracket area with high–pressure jets of water. Do not remove or install bearings in or out of cups with a hammer! Do not install bearings in cups by pressing on inner bearing race, bearing damage will result. Failure to use proper installation and removal tools will damage bearings and greatly reduce bearing life.