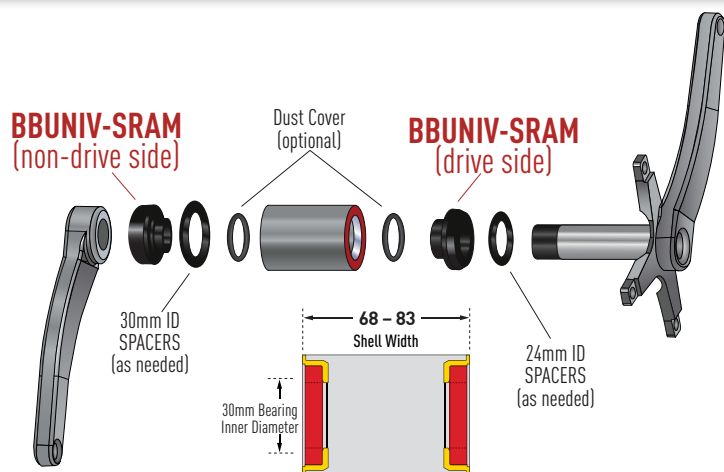


# TECHNICAL NOTES: BBUNIV-SRAM ADAPTERS

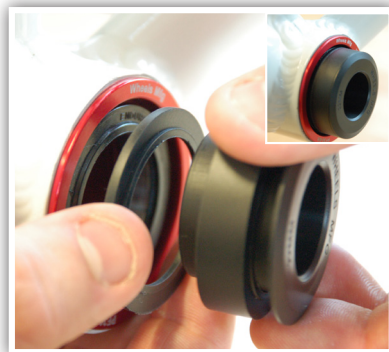
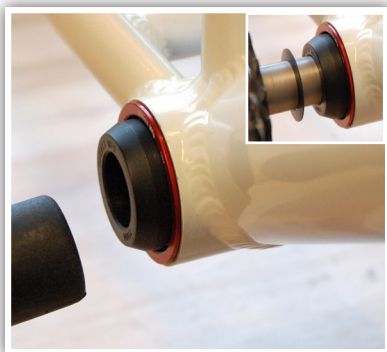


## Recommended tools:

- Plastic or rubber mallet
- Grease
- 8mm Allen Wrench
- Torque Wrench

## BBUNIV-SRAM PART LIST

Part #	Description	QTY Included
BBUNIV-SRAM-LEFT	BB30/PF30 GXP CRANK SPINDLE SHIMS	1
BBUNIV-SRAM-RIGHT	BB30/PF30 24MM CRANK SPINDLE SHIMS	1
BB-24MM-0.5	0.5MM SPACER FOR 24MM BB SPINDLE	4
BB-24MM-1.0	1.0MM SPACER FOR 24MM BB SPINDLE	2
BB-24MM-2.5	2.5MM SPACER FOR 24MM BB SPINDLE	1
BB30-30MM-1.0	1.0MM SPACER FOR 30MM BBUNIV ADAPTER	2
BB30-30MM-5.0	5MM SPACER FOR 30MM BBUNIV ADAPTER	1
BB30-30MM-10	10MM SPACER FOR 30MM BBUNIV ADAPTER	1
BB-WAVEWASH-GXP	24MM ID WAVE WASHER	1



1. Identify left and right side SRAM adapters. Insert the right side adapter into BB30 or PF30 Bottom bracket by hand. Note: BB30 and PF30 dust covers can be removed from the system or left in place. If you choose to use them with the BBUNIV-SRAM, place them between the bearing and the large adapter on the drive side, and between the bearing and 30mm ID spacers on the non-drive side. Right side spacers (24mm I.D.) fit on the BB spindle between the right side adapter and the right crank arm.

2. Insert the left side adapter with (1) 10mm spacer and (1) 5mm spacer. Left side spacers (30mm I.D.) fit between the left side (22mm I.D.) adapter and the BB shell. Spacers can be placed on either side to center cranks in bottom bracket.

3. Install the crank. If there is side-to-side play, you may need 24 mm spacer(s) on the right side and/or additional 30 mm spacer(s) inserted on the left side adapter. Tighten to manufacturer's specification. Crank should spin freely.

All Wheels Mfg. products have a lifetime warranty and are 100% guaranteed to work for you upon purchase. We accept returns or refunds only if purchased directly from us. For a refund, a product must be purchased directly from Wheels Mfg. and must be returned in new condition with original packaging and receipt. Email us ([customerservice@wheelsmfg.com](mailto:customerservice@wheelsmfg.com)) or call (1-800-361-8422) for a Return Authorization number. Freight charges to Wheels Mfg. are the responsibility of the customer.

We accept products purchased through Wheels Mfg. Authorized Resellers for exchange only. For refunds, please return the product to that Reseller. If the product was purchased from an internet seller or local bike shop, please return the product to them for exchange or refund. Wheels Mfg will replace or refund defective products at our discretion.