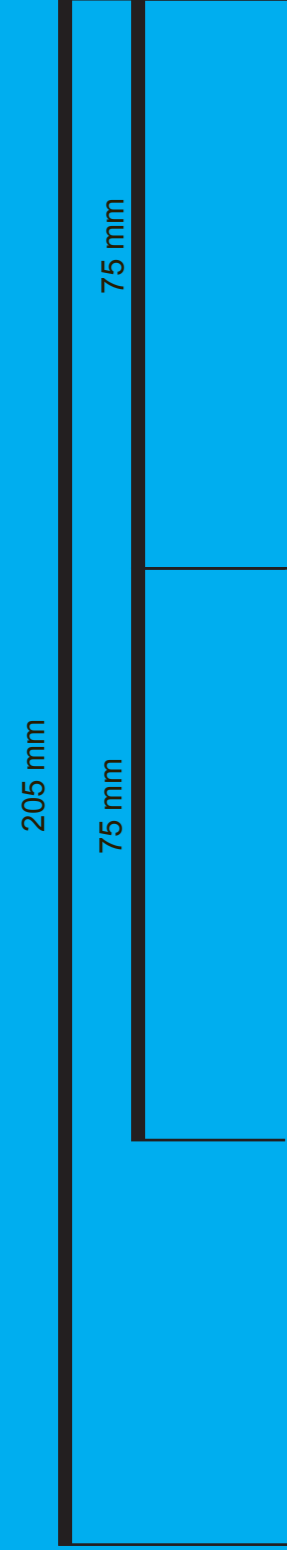


FRONT/OUTSIDE

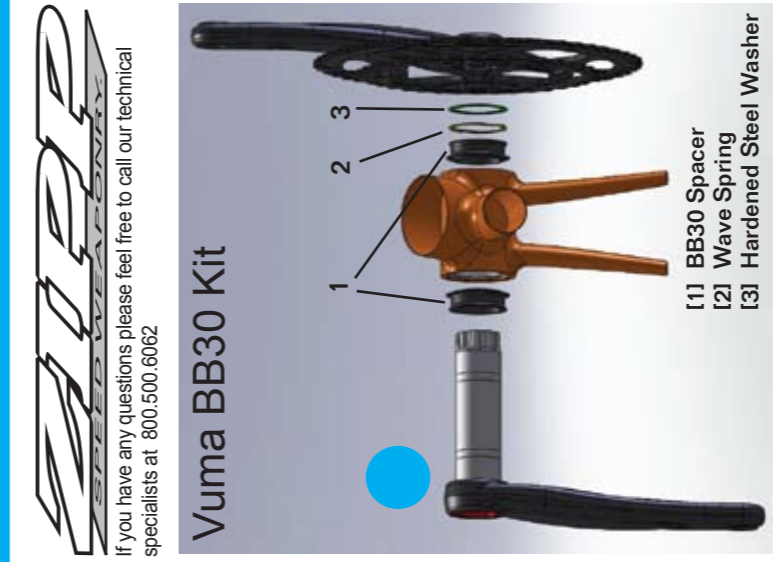


VUMA BB30 KIT

- The Vuma BB30 Kit includes:
- Two BB30 Spacers [1]
 - Wave Spring [2]
 - Three Hardened Steel Washers [3]
 - Two Zipp Ceramic Bearings
 - Two Snap Rings

100 mm

BACK/INSIDE



Hub Conversion Kit Installation Instructions

1. Install the bearings and snap rings according to your frame manufacturer's instructions
2. Apply a high quality bicycle bearing grease to the inner races of the bearings and also around the bearings inside the bottom bracket shell
3. Slide the Vuma BB30 [1] spacer onto the spindle of the left crankarm with the large flange and raised boss facing inboard toward the bearing.
4. Coat the spindle with high quality bicycle bearing grease and slide all the way into the frame so that the raised boss contacts the bearings.
5. Install the second Vuma BB30 [1] Spacer onto the right side of the spindle with the raised boss contacting the drive side bearing.
6. Install the wave spring [2] and 1 hardened steel washer [3] onto the right side of the spindle.
7. Align the drive side arm opposite the non-drive side arm by pushing the arm against the spindle and rotating slightly to feel when the crank is properly indexed. Begin to thread the spindle bolt into the spindle loosely making sure of proper alignment. Failure to align the crank arm and BB spindle can damage the crankset. Installation error will not be covered under warranty.
8. Use a 10mm hex key to tighten the drive side crank arm onto the spindle. The crank arm should not bottom out on shoulder/spindle end before torque is achieved. Use a torque wrench to tighten the crank bolt to 34-41 Nm (25-30ft-lbs).
9. If the crank has side to side play once it is fully installed and tightened to the proper torque, remove the right side crank arm and add 1 more hardened steel washer [3] onto the right side of the spindle then reinstall the right side arm and retighten to final torque setting of 34-41 Nm (25-30ft-lbs).
10. If there is still play in the system repeat step 9 adding a third hardened steel washer [3].
11. Check the crank bolt and chainring bolts after the first 50-100 km of use to ensure they have not loosened. The check them every six months to ensure proper torque is maintained.

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TITLE HANGTAG- Vuma BB30 Kit		
FORMAT	DRAWING NUMBER	VERSION A