



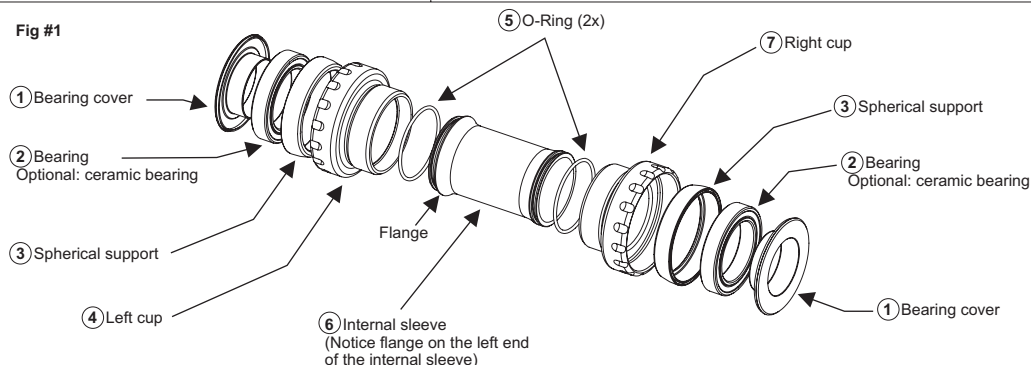
USER MANUAL

ROAD Self Aligning Bottom Bracket

S.A.B.B.

Revised 12/06

Fig #1



We strongly recommend that you have a professional bike shop or expert bike mechanic install and service your ROTOR components. Improper assembly and/or adjustment will significantly compromise the strength and life span of this component. If you choose to install the component yourself, please follow the installation instructions carefully.

Compatibility: S.A.B.B. bottom brackets are compatible with BSA (68mm) or Italian (70mm) BB shells. They are also compatible with double or triple chainring cranksets.

S.A.B.B. Installation Instructions

IMPORTANT – CAUTION !

If any instructions within this Technical Sheet are contrary to the instructions given by the manufacturer of your frame, including but not limited to not using thread adhesive in the BB threads or not tightening the BB cups up to a torque value of 35-45 N-m or 26-35 ft-lbs, defer to the instructions from the frame manufacturer or phone their service department and explain your plan and request their approval.

1- FRAME PREPARATION (VERY IMPORTANT)

- Ensure that the BB shell ends are faced and square and clean from paint.
- It may be necessary for the BB shell to be "faced and chased" by a professional bike mechanic.
- Ensure that the BB shell threads are clean from all foreign particles (machining chips, dirt, dust, etc).
- Grease the BB shell threads before installing BB cups.
- Ensure that your S.A.B.B. threads & width match your frame's BB shell width (see Fig #2 & below chart):

BB Shell Nominal Width	Min/Max Width Dimension	BB Shell Thread	Right Cup Thread	Left Cup Thread
BSA: 68 mm	67/69 mm	English BC1.37" x 24tpi	Counter-clockwise to tighten	Clockwise to tighten
ITA: 70 mm	69/71 mm	Italian 36mm x 24tpi	Clockwise to tighten	Clockwise to tighten

2- INSTALL BB CUPS INTO FRAME

- Apply a thin coat of thread adhesive (medium strength removable blue color) to the threads of the BB cups.
- Hand press the flanged end of the internal sleeve into the left BB cup until it bottoms-out. If your frame has BSA (English) threads, notice that the right-cup and left-cup have different threads and are marked Left-BSA or Right-BSA; the right cup has left-threads. If your frame has Italian threads, both cups are the same and have right-threads.
- Thread the left BB cup (with internal sleeve installed) into the non-drive side of the frame's BB shell as shown in Fig #3. The threads are right-threads so turn it clockwise.
- Using an external BB cup installation tool, (Park BBT-9 or Shimano TL-FC32 / TL-FC33), tighten the left cup to 35-45 N-m / 26-33 ft-lbs as shown in Fig #4.
- Thread the right BB cup into the drive side of the frame's BB shell as shown in Fig #5. If English (BSA) threads, the threads are left-threads so turn it counter-clockwise. If Italian threads, the threads are right-threads so turn it clockwise.
- Using the external BB cup tool, tighten the cup to 35-45 N-m / 26-33 ft-lbs as shown in Fig #6

Fig #2

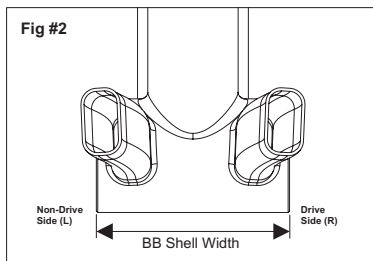


Fig #3

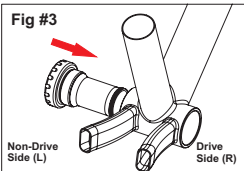


Fig #4

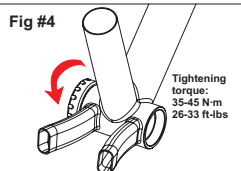


Fig #5

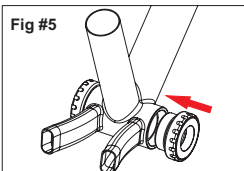
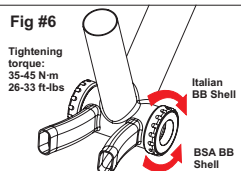


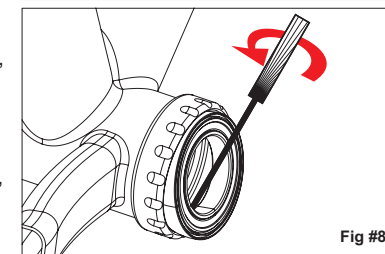
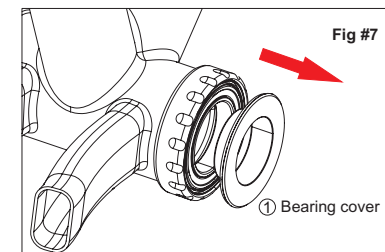
Fig #6



Maintenance

-To remove the bearings from the cups:

- Remove the cranks from the frame.
- Remove the bearing-cover (#1) by inserting a finger into the main hole and pulling the bearing-cover out. (See Fig #7)
- See Fig-8 to remove the bearing-and-spherical-support-assembly from the cup using a strong flat-head screwdriver. Insert the flat-head between the inside of the bearing-steel-jacket and the flange on the inside of the cup; then twist the handle which will twist the flat-head to pry the bearing-and-spherical-support-assembly out.
- Remove the bearing from the spherical-support; notice that the spherical-support has an 'inside' and an 'outside'; it is slightly tapered. The narrower tapered side faces into the cup. If the spherical-support has grooves or is pitted in areas, it should be replaced.
- The bearing-seals can be carefully removed from the bearings using a thin strong knife blade (work from the outside diameter of the seal); be careful not to tear or damage the seals. The bearings can be washed with solvent, dried and re-lubricated with a very lightweight grease or oil.



-To install the bearings back into the cups:

- Apply a small amount of light grease into the cavity of the cup.
- Hand press the spherical-support into the cup. The narrower tapered side faces into the cup.
- Hand press the bearing into the spherical-support.
- Hand press the bearing-cover over the bearing. Be sure that the edge of the bearing-cover fits into the inner side of the spherical support.
- Re-install the crankset into the frame.

- Never spray (shoot) water against the bottom bracket.

S.A.B.B. Spare parts list

Item Number	Rotor code number	Description
1	7P_SABB_TAP	Bearing cover
2	7P_SABB_BSTD	Bearing-Steel
	7P_SABB_BCER	Optional ceramic bearing
3	7P_SABB_HEM	Spherical support
4	7P_LCUP_SABB_R_B	Left cup English (BSA) Thread
	7P_LCUP_SABB_R_I	Left cup Italian (ITA) Thread
5	7P_SABB_RING	O-Ring
6	7P_SABB_TUB	Internal Sleeve
7	7P_RCUP_SABB_R_B	Right cup English (BSA) Thread
	7P_RCUP_SABB_R_I	Right cup Italian (ITA) Thread

ROTOR WARRANTY POLICY

- All Rotor products and its components are guaranteed for **2 YEARS** against any manufacturer defects or defective materials. In the event of a warranty defect, Rotor's sole obligation under this warranty is to repair or replace, at its option, the defective part or product at no charge. Moreover, in some countries, Rotor is obliged to ensure any legal warranty defined by law for the customer's protection.
- Elements subject to wear and breakdowns that the manufacturer is not responsible for, are not covered by this warranty.
- Failures or breakdowns caused by improper use, poor assembly or inadequate maintenance as declared in the instructions or the user manual are not covered by this warranty.
- Always keep your receipt or invoice, this warranty does not cover products whose serial number or identification has been erased, damaged or modified.
- Failure to fulfill the requirements above, improper installation, improper use or installation of inadequate parts void this warranty.

These instructions and instructions for other Rotor Bike Components products are available for download at:
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