**Parts:**

1. DRIVE SIDE CUP (FEMALE THREADS)
2. NON-DRIVE SIDE CUP (MALE THREADS)
3. DRIVE SIDE SEALED BEARING
4. NON-DRIVE SIDE SEALED BEARING
5. DRIVE SIDE OUTER SILICONE DUST SEAL
6. NON-DRIVE SIDE OUTER SILICONE DUST SEAL
7. 0.5MM CRANK SPINDLE SPACER (QTY 2)*
8. 1MM CRANK SPINDLE SPACER (QTY 2)*

**BB Cup Tool Size:**

- 44mm
- 16-notch

**Dimensions:**

- **Bottom Bracket/Frame Interface:** PF30, OSBB Carbon
- **Bottom Bracket Shell Width:** 61mm - 73mm
- **Bottom Bracket Shell I.D.:** 46mm
- **Crank Spindle Diameter:** 24mm

**Wheels Mfg Limited Warranty**

Wheels Manufacturing warrants bottom bracket components to be free from defects in materials or workmanship for a period of 2 years after original purchase. This warranty only applies to the original owner and is not transferable. Claims under this warranty must be made through the retailer where the Wheels Manufacturing component was purchased. Life expectancy of Wheels Manufacturing bottom brackets and bottom bracket sealed bearings depends on factors like frequency of use, environmental conditions and intended use. Failure to maintain bearings will void any and all bearing warranties. For full warranty and limitations to warranty visit: https://wheelsmfg.com/warranty.

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**Tools:**

**INSTALL**

- Universal BB Press
  - PRESS-7
  - PRESS-7-PRO
- Grease or Anti-Sieze Compound
- BB Socket
  - BBTOOL-48-44
- Flat Wrench
  - WRENCH-BB48-44

**SERVICE**

- Bearing Extractors
  - BB-EXT
- Universal BB Press
  - PRESS-7
  - PRESS-7-PRO
- Bearing Grease
  - GB-001

* Please refer to your crankset instructions for exact crank spindle spacers and wave washer placement.

- Cups produced after July 2018 do not use o-rings.
Installation:

**IMPORTANT:**
- **DO NOT USE BEARING RETAINING COMPOUND OR EPOXY DURING INSTALLATION, USE OF WHICH WILL VOID ANY WARRANTY.**
- Before installing bottom bracket, check that frame’s BB shell has been properly prep and is the correct width and inner diameter.
- Drive side cup may press in by hand. This is not uncommon and is acceptable. If both cups slip in by hand, you should use a tool on both cups to fully tighten bottom bracket.
- For carbon BB shells, use recommended grease. Contact frame manufacturer, or go to [https://wheelsmfg.com/carbon-bike-grease](https://wheelsmfg.com/carbon-bike-grease).
- For titanium BB shells, anti-seize compound is recommended.

*Bottom bracket installation and service by a professional or certified mechanic is recommended.*

1. Thoroughly clean frame’s bottom bracket shell. Do not install cups dry. Apply a thin layer of high quality, carbon-safe grease or anti-seize compound to inside surface of the shell.

2. Apply a thin layer of high quality grease to all threads on both cups.

3. Apply a thin layer of high quality, carbon-safe grease or anti-seize compound to outside surface of each BB cup.

4. Insert drive side cup (female threads) into frame by hand. If cup fully inserts by hand, this is OK and move on to step 8. Check that any internal wires or hoses are out of the way of the cup.

5. Using Wheels Mfg Universal Bottom Bracket Press (PRESS-7 or PRESS-7-PRO), insert one BB adapter into drive side bearing. Match the correct size step on the drift with bearing inner diameter. Slide press handle + rod thru BB adapter and cup.

6. Slide second BB adapter onto threaded rod and into the opposite side of the bottom bracket shell. Match the correct step size with the BB shell inside diameter. Adapter should fit with little to no play.

7. Spin on second press handle and fully tighten until drive side cup is flush with frame.

8. Insert non-drive side cup by hand and turn clockwise until threads begin to engage. Do not cross-thread cups. Check that any internal wires or hoses are out of the way of the cup.

9. Continue to turn cup clockwise until flush against the outer face of frame. Finish tightening cups using Wheels Mfg BB Socket (BT100L-48-44) or Flat Wrench (WRENCH-BB48-44). Tighten cups 35Nm - 50Nm.

10. Frames with loose fitting cups may need a tool on each cup to fully tighten.

11. Bottom bracket is now installed. Install crankset per crank manufacturer’s instructions.

12. Outer silicone dust seals are placed directly against bearings. For added sealing, apply grease between seal and bearing.
**Bearing Replacement:**

1. Insert appropriate size extractor into bearing. Push extractor completely in until you feel it snap in place.
2. Lift up seal using a utility knife or pick. If servicing bearings outside of BB cups, remove both seals.
3. Select a sleeve size that has a larger ID than the bearing’s OD. Slide receiver cup + reducer sleeve over rod and up against cup.
4. Spin on second handle and tighten handles together until you feel the bearing pop out of the cup.
5. Spin on second handle and tighten handles together until the bearing is seated in the cup.
6. Bearing is now installed.

**Bearing Service:**

1. Lift up seal using a utility knife or pick. If servicing bearings outside of BB cups, remove both seals.
2. Flush out old grease with a de-greaser. Dry bearing to remove any traces of degreaser.
3. Pack bearing with new, clean bearing grease [GR-001].
4. Lightly press seals onto bearing. Seals should sit flush to the outer face of the bearing races.

**IMPORTANT:**

Angular Contact bearings are direction specific! They must be installed in the bottom bracket cup with red seal facing outwards and black seal facing inwards.

**IMPORTANT:**

- Bearings can be serviced without removing from the cups. However, it is often easier to get a more thorough service completed with bearings removed from cups.
- Angular Contact bearings are direction specific and come with two different color seals! Mark your bearings to note which side takes the black seal.