

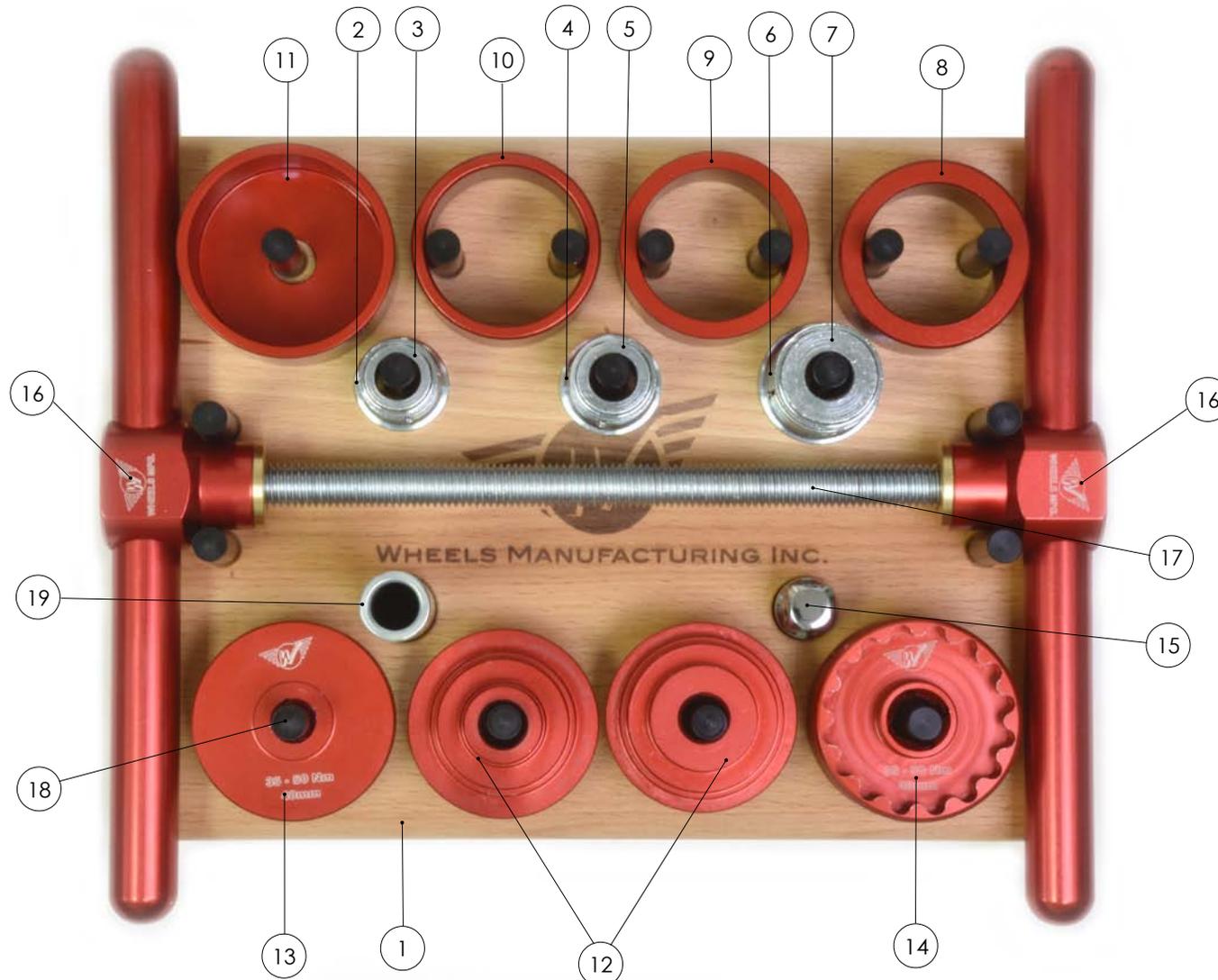
Professional Bottom Bracket Service Tool Kit

PRESS-9-PRO

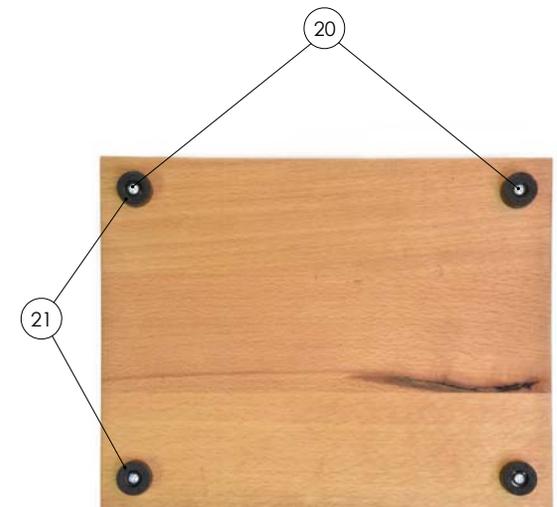


Tool kit for installing, removing and servicing Wheels Manufacturing bottom brackets. Kit includes our new bottom bracket socket tools for installing and removing our BB cups, along with new sealed bearing extractors for 22mm, 24mm and 30mm ID bearings.

Parts:



#	Description	Part #	Qty
1	WOOD BASE	WB-PRESS-9	1
2	22MM SLOTTED BEARING EXTRACTOR	BE-22MM-A	1
3	22MM INNER ADAPTER	BE-22MM-B	1
4	24MM SLOTTED BEARING EXTRACTOR	BE-24MM-A	1
5	24MM INNER ADAPTER	BE-24MM-B	1
6	30MM SLOTTED BEARING EXTRACTOR	BE-30MM-A	1
7	30MM INNER ADAPTER	BE-30MM-B	1
8	39MM ID CUP SLEEVE	SLEEVE-39	1
9	42MM ID CUP SLEEVE	SLEEVE-42	1
10	44MM ID CUP SLEEVE	SLEEVE-44	1
11	RECEIVER CUP (52MM)	RC-52	1
12	UNIVERSAL BOTTOMM BRACKET DRIFT	BB-OB	2
13	48.5 16-NOTCH SINGLE SIDE BB SOCKET	BB48	1
14	48.5/44 16-NOTCH BB SOCKET	BBTOOL-48-44	1
15	3/8" TO 1/2" ADAPTER	BBTOOL-ADAPT	1
16	PRESS HANDLE	PRESS-7-HNASSY	2
17	1/2"-13 THREADED ROD	PRESS7-ROD	1
18	3/8" X 3" PLASTIC DOWEL	DOWEL-3	18
19	PUSHER FOR BEARING EXTRACTOR	BE-PUSHER	1
20	SCREWS	WUB-SCREW	4
21	RUBBER BUMPERS	WUB-BUMPER	4



BB Installation for 48.5mm 16-notch Narrow Flange, Internal Bearing Cups:

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 prepped 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 to fully tighten bottom bracket.
- For carbon BB shells, use recommended grease. Contact frame manufacturer, or go to <https://wheelsmfg.com/carbon-bike-grease>.
- For titanium BB shells, anti-seize compound is recommended.

Wheels Mfg BB cups with narrow flanges can be difficult to install without tools slipping off the cups. Our PRESS-9-PRO eliminates tool slipping, allowing you to reach proper torque on the cups.



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. 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. For internal bearing BB cups with narrow 48.5mm 16-notch flanges, using the narrow socket with the press handles, rod and drifts will allow you to securely hold the socket tools on the BB cups. Thread the narrow socket tool onto the threaded rod.



10. Insert narrow socket + rod through non-drive side cup. Slide the larger BB socket over the rod and up against the drive side cup. Engage the splines on both sockets with each cup.



11. Add the BB drifts to take up any additional space, then spin on a handle until the stack is snug enough to hold the sockets in place. **Do not overtighten!**



12. Attach torque wrench to the narrow socket and tighten cups to 35 - 50Nm.



13. Bottom bracket is now installed. Install crankset per crank manufacturer's instructions. Outer silicone dust seals are placed directly against bearings. For added sealing, apply grease between seal and bearing.

BB Installation for 44 and 48.5mm 16-notch Outboard Bearing Cups:

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 prepped 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>.
- For titanium BB shells, anti-seize compound is recommended.

Wheels Mfg BB cups with outboard bearings have adequate cup to tool surface interface, and do not usually have problems with the tool slipping off the cups.



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. 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.



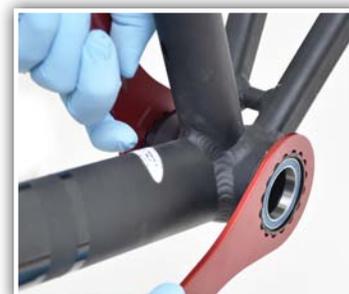
7. Spin on second press handle and fully tighten until drive side cup is flush with frame.



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 [BOTOOL-48-44] to 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. 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. Slide the bearing extractor pusher onto a Wheels Mfg Universal BB Press [PRESS-7 or PRESS-7-PRO] rod. Next, add the matching adapter with the tapered end of the adapter opposite the pusher.



3. Insert handle, rod, pusher and adapter into the backside of the bearing you are removing.



4. Select a sleeve size that has a larger ID than the bearing's OD. Slide receiver cup + reducer sleeve over the rod and up against cup.



5. Spin on second handle and tighten handles together until you feel the bearing pop out of the cup.



6. Bearing is now removed from cup.



7. Remove handle from press. Remove adapter from extractor. Remove extractor from bearing.



8. Clean and dry bearing bore in cup. Apply thin film of Loctite 603 retaining compound to cup.



9. Slide one BB adapter over the press rod. Match the correct size step on the adapter with the cup or bearing. Insert into bearing or cup opposite the bearing you are installing.



10. Slide new bearing onto second BB adapter, matching up the correct size step on the adapter with the bearing ID. Slide both onto press rod.



11. Spin on second handle and tighten handles together until the bearing is seated in the cup.



12. Remove press handles and adapters from cups. Bearing is now installed.

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.

Bearing Service:

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.



1. Lift up seal using a utility knife or pick. If servicing bearings outside of BB cups, remove both seals. Clean seals and set aside. For Angular Contact bearings, note which side takes the black seal.



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.