

- Pro BB Socket Cup and Sets (Items 6460760, 6460769, & 6460770)
- External BB Socket (Item 6460261) & Splined BB Socket (Item 6460202)
- Flat BB Wrenches (e.g. items 6460242 and 6460296) and more.

External Cup Threaded or Thread-Together Bottom Brackets

Pro BB Socket Holder + Pro BB Socket Cup

The *Pro BB Socket Holder* threads directly into the *Pro BB Socket Cup*. This tool combination offers the most versatile solution for installing modern threaded bottom bracket cups. For newer T47 BB cups, or others with minimal tool engagement, this tool combination;

- Pulls and holds the socket inward, so it does not slip off, and
- Prevents the socket from slipping too far inward past the cup flange.

To prevent the *Pro BB Socket Cup* from slipping past the BB cup flange, use the *Small Plate* and included washers. Installed onto the *Main Screw* as shown in Figure 2. Change quantity and thickness of washers to adjust how far the socket can overlap the BB cup. If needed, the *Main Screw* can be unthreaded a small amount to fine tune the spacing.

- Thread M12 end of the *Main Screw* into the *Pro BB Socket Cup*. Add washers and *Small Plate* if using to prevent the *Pro BB Socket Cup* from slipping past the BB cup flange.
- Pass *Main Screw* through BB and install *Large Plate*, 2mm Washer, Spring, and Nut as shown in Figure 2. When Spring begins compressing, tighten Nut 2-3 more rotations to add preload.
- Engage drive tool with the *Pro BB Socket Cup* (3/8" square internal drive or 24mm hex external drive), and start removing BB cup. Do not loosen cup more than 3 rotations to prevent spring from bottoming.
- Unthread the Nut to release tension from the system and finish removing the BB cup. Without full compression applied, the *Pro BB Socket Holder* may remain in place to maintain the socket cup position relative to the BB cup.

Pro BB Socket Holder + Other BB Socket (or BB Socket on Disc)

Install a 2mm Washer onto the *Main Screw* followed by the BB Socket as shown in Figure 3 (or Figure 7). Then follow steps 2-4 above (Substitute *Small Plate* or no plate as parts dictate).

Pro BB Socket Holder + Flat BB Wrench

Install a 2mm Washer onto the *Main Screw* followed by the *Large Plate* and then the Wrench as shown in Figure 4. Then follow steps 2-4 above.

Cartridge Type BBs

Splined Axle: Pro BB Socket Holder + Splined BB Socket

Disassemble *Pro BB Socket Holder*, install the M15/M12 end of *Main Screw* into BB spindle, and then install *Splined BB Socket*, Washer, Spring, and Nut as shown in Figure 5. When Spring begins compressing, tighten Nut 2-3 more rotations to add preload. Then follow steps 3-4 above.

Square Taper Axle: Pro BB Socket Holder + Splined BB Socket

Disassemble *Pro BB Socket Holder* then install the Nut, Spring, Washer, and BB Socket onto the *Main Screw* as shown in Figure 6. Position so the *Main Screw* sticks out ~1cm from the BB Socket. Thread the end of the *Main Screw* into the BB spindle. Tighten the Nut until the Spring begins compressing, tighten Nut 2-3 more rotations to add preload. Then follow steps 3-4 above.

Cartridge BB: Pro BB Socket Holder + Flat Wrench (e.g. 6460250-BB Wrench Shimano® 6-Notch)

Follow splined or square tape instructions above. Instead of Splined BB Socket, use Flat Wrench plus a spacer such as 6460261-External BB Socket to clear the bb axle. See Figure 8.

Pro BB Socket Holder + Over-Axle Socket (e.g. 6460205-Campy BB & Cassette Socket)

Follow square tape instructions above. Instead of Splined BB Socket, use Campy BB & Cassette Socket. For longer axles, a spacer, such as a 17mm 3/8" drive socket, may be needed (no figure shown).

FIGURE 1

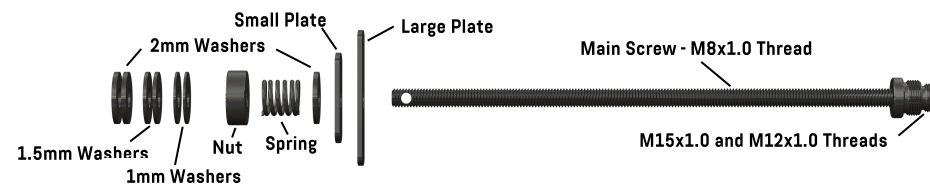


FIGURE 2

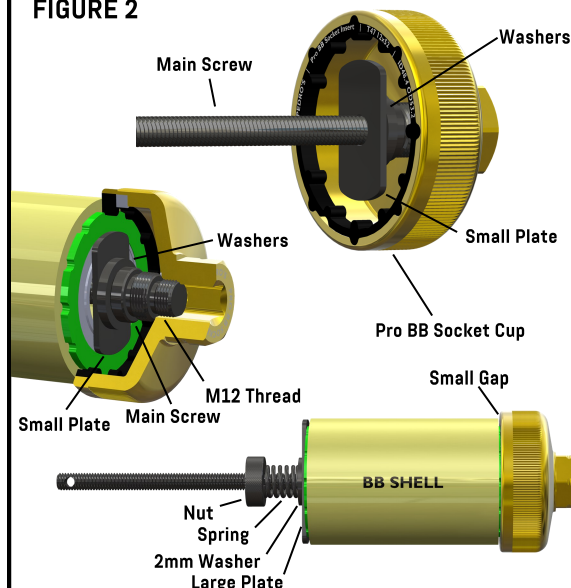


FIGURE 3

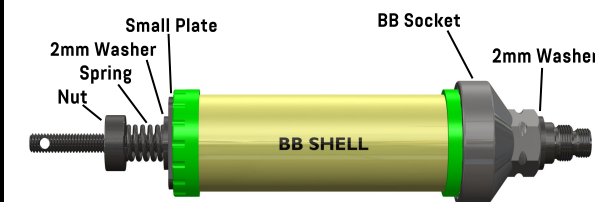


FIGURE 4

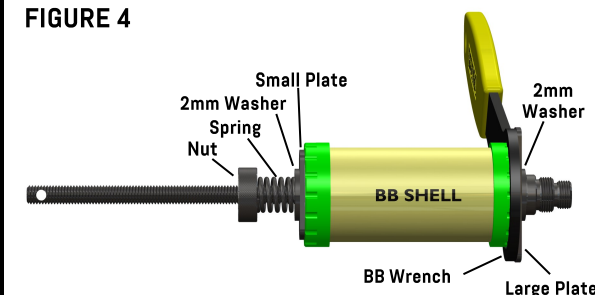


FIGURE 7

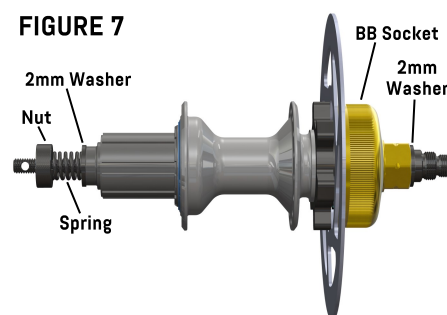


FIGURE 5

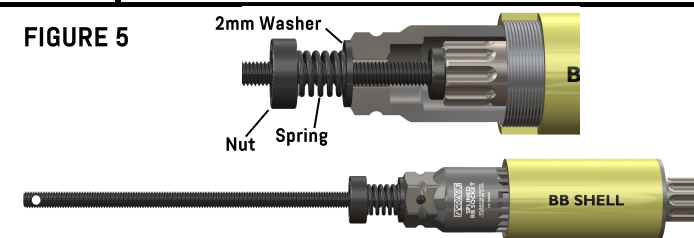


FIGURE 6

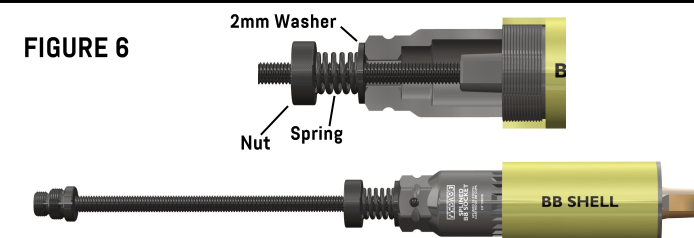


FIGURE 8

