

ThreadFit™ T47 Bottom Brackets



CHRIS KING
PRECISION COMPONENTS®

Congratulations! Since 1976, Chris King has been supplying cyclists with the best made, most reliable components in the market. With proper installation and maintenance, you can expect to enjoy many years of exception performance from the legendary quality that is built into each and every component we make.

Important Notice - Conversion Kits

Chris King ThreadFit™ T47 bottom brackets are designed specifically to interface with our Chris King bottom bracket conversion kits to give our bottom brackets a wide range of crank system compatibility. ThreadFit™ T47 24x and 30x require the use of our conversion kits for correct crank installation. Please see the attached table to help you determine which conversion kit you need. If your bottom bracket shell width or crankset type is not listed on the table or you have questions about the best possible fit for your bike please be sure to contact your nearest Chris King dealer or reach out to us directly at info@chrisking.com or by phone at 800-523-6008.

ThreadFit™ T47 Bottom Bracket Installation

Before beginning your BB installation please be sure that you have the correct Conversion Kit for your frame and crank system. BB installation requires specialized tools. We recommend that a qualified professional bicycle mechanic perform the procedure. To ensure proper installation, when applicable, the use of high quality facing and thread tapping tools are strongly recommended.

FOR CARBON FIBER FRAMES PLEASE CHECK WITH MANUFACTURER REGARDING FRAME PREPARATION.

ThreadFit™ T47 cups require either the use of Chris King 30mm BB Cup Tool ThreadFit™ 30/T47x (TBB006), or Chris King BB Cup Tool ThreadFit™ T47i (TBB007).

Preparation of Bottom Bracket Shell

Proper preparation of the BB shell is required for best BB performance, durability, longevity and reduces the possibility of installation problems.

- 1 Chase the BB shell threads to ensure that threads are properly formed.
- 2 Face the BB shell to ensure that the ends are square and parallel to each other. Be sure to remove all frame paint from BB shell/BB cup interface.
- 3 Using a small file, deburring tool or sand paper, carefully remove any sharp edges or burrs from the BB shell edges.
- 4 Clean BB shell threads and surfaces to remove any chips, shavings, grit, and/or cutting oil.

Installation of Bearing Cups

- 1 Note BB cup orientation marking on outside of cup. Drive and Non-Drive. Apply a generous coating of anti-seize (use Zinc or Copper based anti-seize when installing onto a titanium frame) to the threads on the BB cups, as well as on the BB shell threads on the bicycle frame.
- 2 Make sure that the center sleeve is pressed into the Non-Drive BB cup, sealing the sleeve on the inner edge of the BB cup (it is recommended with ThreadFit™ T47 cups to apply a thin layer of waterproof grease or Tri-Flow™ to the O-ring inside the cup prior to installation).
- 3 Your Conversion Kit will include the correct BB cup spacers for proper frame setup. Please refer to your Chris King ThreadFit™ T47 conversion kit manual and your crank manufacturers manual for specific set up information.
- 4 With proper BB spacers installed on BB cups, thread BB cups into frame using a compatible BB cup spline tool (see below) and torque to 50 Nm (36.88 ft/lbs). The Non-Drive cup threads into the bottom bracket shell clockwise and the Drive cup threads into the bottom bracket shell counter-clockwise.

BB cups are compatible with the following external BB cup spline tools:

ThreadFit™ T47 cups require use of Chris King 30mm BB Cup Tool ThreadFit™ 30/T47x (TBB006), or Chris King BB Cup Tool ThreadFit™ T47i (TBB007).

The Chris King External BB Cup Tool features an optimized spline interface that minimizes the chance of marring BB cup anodization and is compatible with 3/8" socket wrenches and torque wrenches.

Crank Installation

Follow crank arm manufacturer's instructions to determine spacer orientation. Proper spacer configuration is essential for correct bearing preload, chain line and crank arm positioning. Chris King's ThreadFit™ T47 24x/24i BBs are designed to work directly with 24mm and 24/22mm spindled crank systems. Chris King's ThreadFit™ T47 30x/30i BBs are designed to work directly with 30mm spindled crank systems. Your ThreadFit™ T47 24x or 30x bottom bracket requires the use of an appropriate conversion kit in order to be compatible with your crank system. Chris King conversion kits include a manual with suggested setup information. This is for reference and should be used only as a supplement to your crank manufacturers instructions. Please refer to the attached table to determine what conversion kit your frame and crank system requires for proper installation. Conversion kits are available through any authorized Chris King dealer, or directly from Chris King at www.chrisking.com.

- 1 Clean crank spindle and apply a thin layer of grease to spindle surface.
- 2 Spindle should be inserted into BB using only hand pressure. Use of excessive force may cause bearing to separate. If fitting issues are encountered, contact Chris King Customer Service for assistance at info@chrisking.com or call 800-523-6008.
- 3 Before passing spindle through second BB bearing, be sure spindle is properly aligned with BB bearing spindle sleeve. Follow crank arm manufacturer's installation instructions to properly install crank assembly and achieve optimal BB bearing preload.
- 4 Check for bearing play by pushing/pulling the crank arm toward/away from the frame. To eliminate bearing play, confirm proper spacer orientation and readjust bearing preload.

Tech note: three white plastic spindle spacers are included with your conversion kit fine tune the bearing preload on your ThreadFit™ T47 24x/24i or T47 30x/30i bottom bracket. They each have a thickness of .33 mm. These spacers are only required when fine tuning of the BB bearing preload is necessary. Additional spacer kits are available through any authorized Chris King dealer, or directly from Chris King Precision Components.

- 5 Periodically check adjustment during the first 100 hours of use. Keeping optimal preload on BB bearings will help maximize their longevity. DO NOT RIDE WITH LOOSE BEARING ADJUSTMENT.

Bottom Bracket Maintenance

Chris King bearings are designed to provide the maximum life of any bottom bracket with a minimum of maintenance. Besides an occasional bearing preload adjustment, the only service necessary is an occasional cleaning and re-greasing of the bearings. Riding conditions will dictate how often you will need to service your BB. In wet conditions, service may be necessary as often as every 3 months; in dry conditions, up to every 6 months. See the Bottom Bracket Grease Guide on our website at chrisking.com/tech for lubrication and maintenance interval details.

Service of Bearings

The BB bearings can be serviced by two different methods, using a Chris King Injector Tool (available as 24 BB Injector Tool for 24mm bottom brackets, or 30 BB Injector Tool for 30mm bottom brackets. Images and part numbers below) or applying grease manually. Check the bearing by rotating the inner bearing race. If resistance or drag is detected but the bearing feels smooth, a relubrication is due. If the bearing feels gritty, contaminated, or if significant resistance is detected, then it is necessary to fully clean and relubricate the bearing.

BB Bearing Relubrication with Chris King BB Injector Tool

The BB bearing can be easily flushed with new grease using the Chris King BB Injector Tool. This service should be performed periodically. For more detailed bottom bracket service information, information on manually servicing your Chris King bottom bracket without the injector tool, or FAQs please visit chrisking.com/support or email tech@chrisking.com.

- 1 Remove crank set assembly and spindle from BB according to crank set manufacturer's instruction.
- 2 Remove BB bearing spindle sleeves (black plastic pieces) from the inner ring of both bottom bracket bearings by hand. If not removable by hand, carefully insert the tip of a small screwdriver or penknife under outer flange of BB bearing spindle sleeve and gently pry it out of the bearing using alternating prying locations.
- 3 Insert BB Injector Tool into bearing.
- 4 Attach grease gun tip to grease fitting on BB Injector Tool.
- 5 While continuously pressing the BB Injector Tool into the bearing to form a seal, slowly pump small amounts of synthetic waterproof grease into the bearing. Between pumps, turn the bearing by rotating the injector tool back and forth. This motion allows the new grease to be evenly distributed within the bearing, and to completely purge the old grease and contaminants through the front seal. This motion also helps prevent the black rubber seal from accidentally dislodging.
- 6 Wipe purged grease from bearing surface.
- 7 Reinstall bearing spindle sleeve by pressing the sleeve back into bearing's inner race by hand.

Made in the USA

All Chris King Precision Components products are manufactured 100% in the USA using industry leading environmental and quality control standards.

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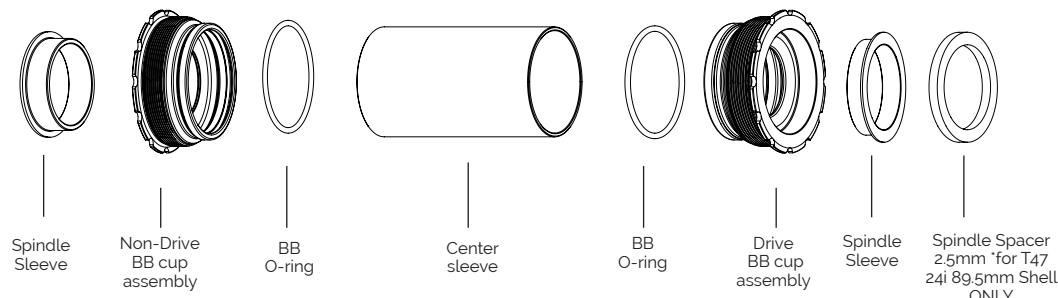
Chris King Precision Components™

2801 NW Nela Street, Portland, Oregon 97210
800.523.6008 | www.chrisking.com | info@chrisking.com

Chris King ThreadFit™ T47 24i Bottom Bracket Conversion Kit Guide				
Crankset Type	BB Shell Width			
24mm Road (Shimano® type)	86.5mm	89.5mm	91.5mm	104mm
No Kit Required	N/A	N/A	N/A	N/A
24/22mm Road (SRAM® type)	Conversion Kit #7	N/A	N/A	N/A
24mm MTB (Shimano® Type)	N/A	No Kit Required	No Kit Required	N/A
24/22mm MTB (SRAM® Type)	N/A	Conversion Kit #6	Conversion Kit6	N/A

Chris King ThreadFit™ T47 30i Bottom Bracket Conversion Kit Guide				
Crankset Type	BB Shell Width			
BB30 Spindle Road	68mm	73mm	83mm	100mm
No Kit Required	N/A	N/A	N/A	N/A
BB30 Spindle MTN	N/A	No Kit Required	N/A	N/A
BB30 Spindle MTN DH	N/A	N/A	No Kit Required	N/A

ThreadFit™ T47 24i/30i BB Assembly

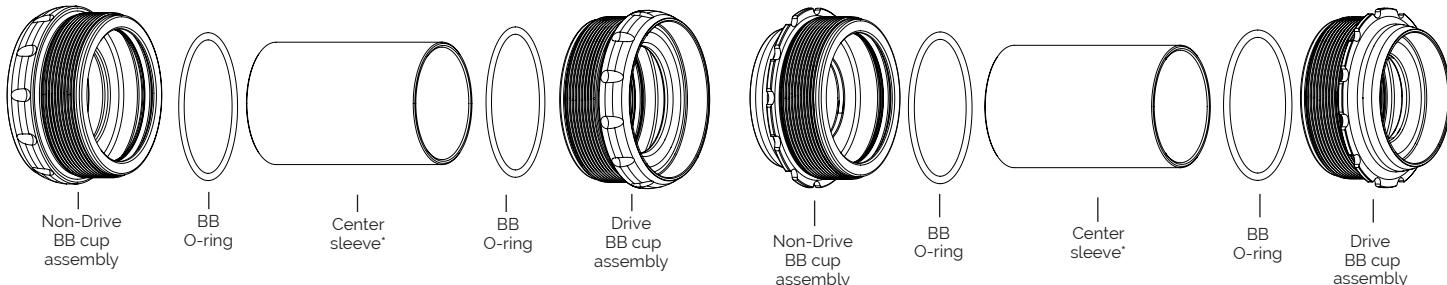


Chris King ThreadFit™ T47 24i Bottom Bracket Conversion Kit Guide				
Crankset Type	BB Shell Width			
24mm Road (Shimano® type)	86.5mm	89.5mm	91.5mm	104mm
No Kit Required	N/A	N/A	N/A	N/A
24/22mm Road (SRAM® type)	Conversion Kit #7	N/A	N/A	N/A
24mm MTB (Shimano® Type)	N/A	No Kit Required	No Kit Required	N/A
24/22mm MTB (SRAM® Type)	N/A	Conversion Kit #6	Conversion Kit6	N/A

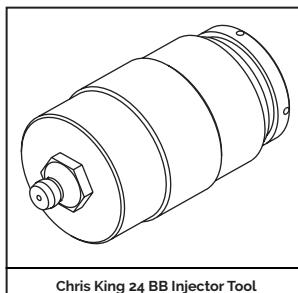
Chris King ThreadFit™ T47 30i Bottom Bracket Conversion Kit Guide				
Crankset Type	BB Shell Width			
BB30 Spindle Road	68mm	73mm	83mm	100mm
No Kit Required	N/A	N/A	N/A	N/A
BB30 Spindle MTN	N/A	No Kit Required	N/A	N/A
BB30 Spindle MTN DH	N/A	N/A	No Kit Required	N/A

ThreadFit™ T47 30x Spindle BB Assembly

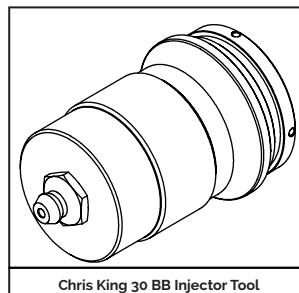
ThreadFit™ T47 24x Spindle BB Assembly



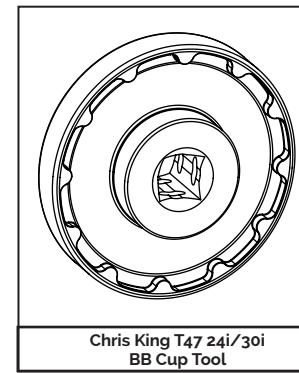
*Chris King ThreadFit™ T47 24x/30x bottom brackets ship with a center sleeve for a 68/73mm bottom bracket shell. For all other bottom bracket shell sizes, the correct center sleeve will be supplied with the appropriate conversion kit.



Chris King 24 BB Injector Tool

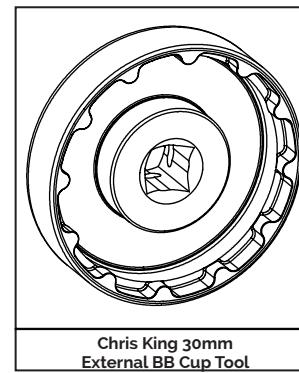


TBB005



Chris King T47 24i/30i BB Cup Tool

TBB007



Chris King 30mm External BB Cup Tool

TBB006

Bringing you better living through sealed bearings since 1976!

