



PARK TOOL CO.

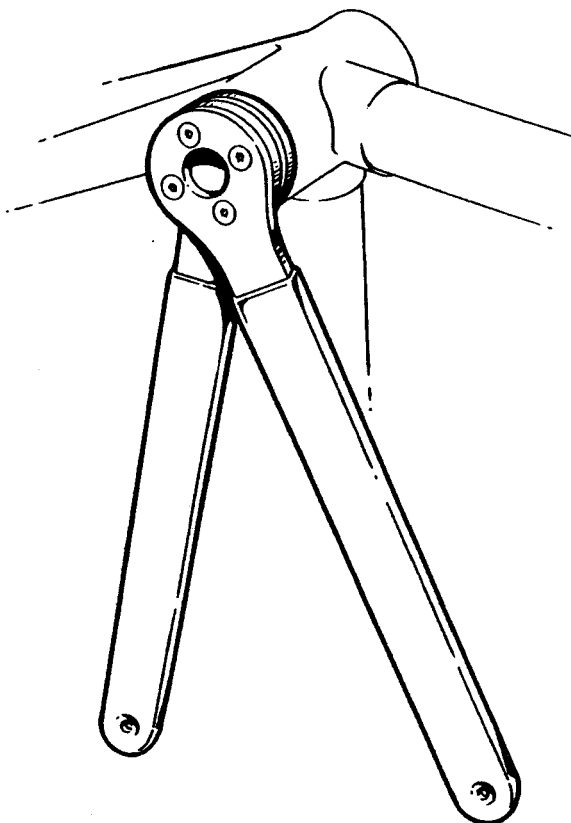
3535 International Drive
St. Paul, MN 55110

SHIMANO BOTTOM
BRACKET ADJUSTING
WRENCH SET
BBT-6

INTRODUCTION

The Shimano CS and LP series of bottom bracket cartridges are designed to be inexpensive and disposable rather than serviceable. In most cases these cartridges provide a satisfactory service life before failure and are simply replaced with a new cartridge. Experience has shown, however, that a small percentage of cartridges are received with unacceptably tight adjustment when new or, the locknut loosens after only a few uses and bearing adjustment becomes loose. In these instances of premature failure it may be desirable to adjust the cartridge rather than replace it. The Park Tool BBT-6 is designed for this purpose.

Because of the limited clearance in the cartridge, the wrench flats on the locknut are very small and consequently somewhat fragile. The BBT-6 is made to very close tolerances but caution and a gentle touch are still necessary to avoid rounding over the locknut. If the flats on the cartridge locknut do become damaged the only solution is replacement of the cartridge. The locknut socket of the BBT-6 is made from tool steel and properly heat treated but repeated rounding over of locknuts will eventually cause enough wear to require its replacement.



INSTRUCTIONS

1. Remove the crank arm assembly from the threaded side of the bottom bracket axle using appropriate tools. This may be either the left or the right side of the bike, depending on the model of cartridge.
2. Use a small screwdriver or a pick to remove the seal from the bottom bracket cartridge.

(Continued on back page)

(Continued from front page)

3. Insert the adjusting nut socket and locknut sockets into the cartridge to engage the corresponding nuts.
 4. Thread the knob/screw with the conical spring into the bottom bracket axle. The spring provides pressure to help keep the wrenches square with the axle and properly engaged on the nuts.
- CAUTION!** The adjusting nut and locknut are left hand thread. Pressure applied in the wrong direction may round over the flats of the locknut.
5. Make certain the wrenches are square with the bottom bracket axle. Hold the inner (adjusting nut) wrench and carefully turn the outer (locknut) wrench clockwise to loosen the locknut.
 6. When the locknut is loose, make the desired adjustment to the adjusting nut using the inner wrench.
 7. Make certain the wrenches are square with the bottom bracket axle. Hold the inner wrench and carefully tighten the locknut against the adjusting nut.
 8. Unscrew the knob/screw and spring from the bottom bracket axle. Remove the wrenches from the cartridge. Thread the knob/screw and spring into the tapped hole in either wrench handle for storage.
 9. Replace the seal in the cartridge and reassemble the crank arm to the bottom bracket axle.

**PARTS LIST FOR THE PARK TOOL BBT-6 SHIMANO
CARTRIDGE ADJUSTING TOOL**

Part No.	Description	Qty.
725	Socket, Adjusting Nut	1
726	Socket, Locknut	1
724	Handle	2
729	Spring, Conical	1
728	Knob/Screw	1
730	Screw, 5mm x 8mm Bevel	6

(Continued from front page)

3. Insert the adjusting nut socket and locknut sockets into the cartridge to engage the corresponding nuts.
 4. Thread the knob/screw with the conical spring into the bottom bracket axle. The spring provides pressure to help keep the wrenches square with the axle and properly engaged on the nuts.
- CAUTION!** The adjusting nut and locknut are left hand thread. Pressure applied in the wrong direction may round over the flats of the locknut.
5. Make certain the wrenches are square with the bottom bracket axle. Hold the inner (adjusting nut) wrench and carefully turn the outer (locknut) wrench clockwise to loosen the locknut.
 6. When the locknut is loose, make the desired adjustment to the adjusting nut using the inner wrench.
 7. Make certain the wrenches are square with the bottom bracket axle. Hold the inner wrench and carefully tighten the locknut against the adjusting nut.
 8. Unscrew the knob/screw and spring from the bottom bracket axle. Remove the wrenches from the cartridge. Thread the knob/screw and spring into the tapped hole in either wrench handle for storage.
 9. Replace the seal in the cartridge and reassemble the crank arm to the bottom bracket axle.

**PARTS LIST FOR THE PARK TOOL BBT-6 SHIMANO
CARTRIDGE ADJUSTING TOOL**

Part No.	Description	Qty.
725	Socket, Adjusting Nut	1
726	Socket, Locknut	1
724	Handle	2
729	Spring, Conical	1
728	Knob/Screw	1
730	Screw, 5mm x 8mm Bevel	6