

BOTTOM BRACKET TOOL

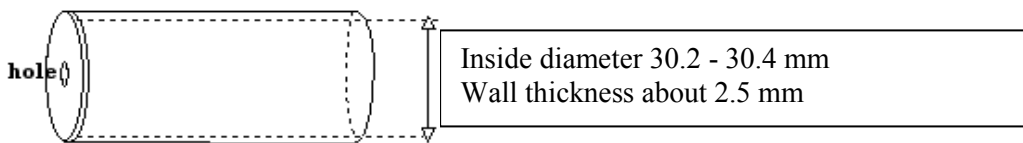
1. Tools required

You will need an alloy or steel tube 9cm - 10cm (4") long with an inside diameter of about 1.2" (one and one fifth inches) and an outside diameter of 35mm, (about 1.4") so that it fits snugly against the bottom bracket housing area of the frame.

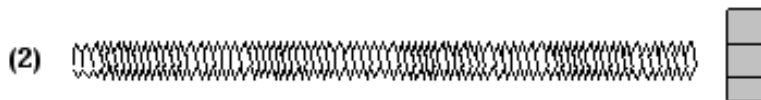
The tube needs to be closed off at one end by a disk of steel with a round, 10mm (0.4") hole in the centre

2) You will also need a piece of threaded steel, thread type M8, between 6 1/2 and 7 inches long (17cm) and a suitable M8 nut to screw onto it.

TUBE (1)



THREADED STEEL (2)



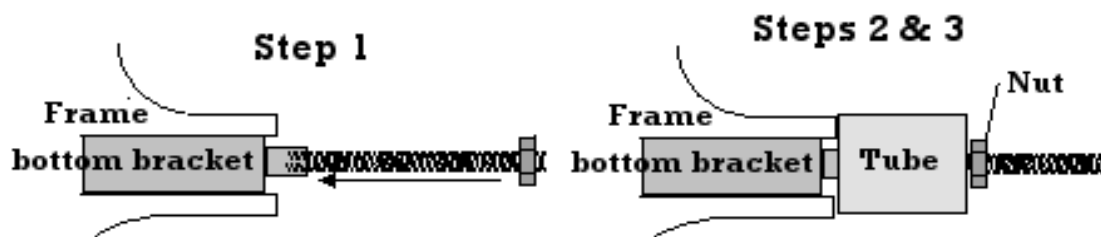
Threaded steel thread type M8, 17 cm long

NUT M8 X 1 mm

If you can't find a piece of threaded steel like this, you can use a normal bottom bracket bolt welded to a piece of M10 threaded steel. In this case you will need an M10 nut on the end of it

HOW TO USE THE TOOL

1. Screw the threaded steel into the bottom bracket.
2. Place the tube over the threaded steel and hold it against the bottom bracket.
3. Screw the nut onto the threaded steel all the way down until it is butting against the closed end of the tube.
4. Hold the nut steady with a spanner, and FROM THE OTHER SIDE OF THE FRAME turn the crank clockwise. In this way the crank will be pulled out of the frame.



FITTING THE BOTTOM BRACKET.

BB Info: Cheetahs are usually supplied with a Shimano BB-UN71 (107 mm) bb, but you can also use the 105 mm length type. 1997 DuraAce bbs are not compatible, because they are larger, wider and are splined !

Note: One end of the BB has a wide threaded ring nut on one end. You will not need this, but leave it on, as this will be removed in steps 6, 7 and 8.

1. Refer to the information about the special bottom bracket tool and put the tool (tube, thread and nut) together
2. With "left" and "right" markings of the bottom bracket in the correct orientation, place the bottom bracket against the right-hand side of the bottom bracket housing.
3. Take the bottom bracket tool and insert it from the left-hand side of the frame.
4. Screw the threaded part of the bb tool (finger tight) into the axle of the bottom bracket to hold the bottom bracket in place.
5. Take the right-hand side crank and just push it over the bb axle (do not bolt the crank on).
6. Turn the crank clockwise, at the same time holding the nut of the bb tool with a spanner. Turning the crank will pull the bb into the housing of the frame and will also push the wide, threaded ring nut off the bb.
7. Keep turning the crank until the threaded ring nut is pushed off and is hanging loosely.
8. Remove the right-hand crank, remove the ring nut and now fit the right-hand crank "properly" with a bolt, and tighten.
9. Take a ruler and, turning the crank slowly, keep measuring the distance between the chainwheel line and the centreline of the frame until the distance is between 47 and 45 mm (1.75" and 1.85").
10. Unscrew and remove the tool and fit the left-hand crank.