

### Tools required:

- Allen Wrench Set (a pair of 8mm wrenches are needed)
- Torque Wrench
- Wrench for External Bearing Bottom Bracket (such as the Park BBT-9 or Shimano TL-FC32)
- Bench Vise or Arbor Press
- Bullit Bearing Tool
- Loctite 242
- Punch
- Mallet
- Grease

### • The Bullit Pro-Pack Includes:

- (x2) 6804 bearings
- (x2) Bearing Cups
- (x2) Bearing Dust Caps
- (x2) M6x22mm pinch bolts
- (x2) Swivel Nuts
- (x2) M6 Washers for Pinch Bolts
- Pivot Axle
- Pivot Axle Cap
- M8x40 shock bolt
- M8x50 shock bolt
- (x2) M8 washers

### The Bullit Bearing Tool:

The press tool is very simple and cheap, and highly recommended for changing the bearings. It makes the process pretty foolproof, and will seat the bearings straight and to the right depth. It is possible to change the bearings without the tool (which we explain below), but the chances of putting a gouge in your parts, hand, or frame goes up quite a bit. It is up to you

### Step 1: Read the Instructions!

It's the right thing to do, so just go ahead and do it. Understand what you are about to encounter. Remove rear wheel, crankset, BB, rear derailleur, and rear brake caliper from frame. Clean off the major dirt so you don't contaminate grease or loctite later on.

### Step 2: Remove the Shock

Use a 6mm allen wrench to remove both shock bolts. Take care not to lose the small washers.

### Step 3: Separate Front Triangle and Swingarm

- Using a 5mm allen wrench, remove both pivot pinch bolts. Take care not to lose the small washers .(Fig.1)
- Hold the pivot axle in place with an 8mm allen wrench, and loosen the pivot cap with another 8mm.
- When the cap is loosened 3-4 threads, give it a tap with your mallet to break the axle loose. Remove pivot cap.

- Push axle out of frame, using a punch and mallet to tap out if necessary. (Fig.2)
- Remove swingarm from front triangle and pull off bearing dust caps.



Fig. 1



Fig. 2

## Step 4: Change Bearings with SCB Bullit Bearing Tool

a) Using your BB cup wrench, remove both bearing cups. The drive side cup is left hand threaded. (Fig. 3)



Fig. 3

b) Install bearing cup in tool as shown, and press bearing out in a bench vise or press. (Fig. 4)

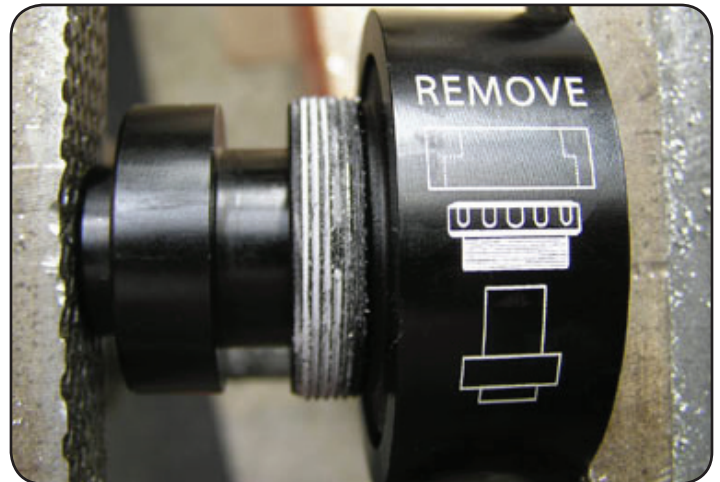


Fig. 4

c) Flip the tool over, and press in new bearings. Go all the way until they stop- they should be recessed slightly from the outer face of the cup.(Fig. 5)  
d) Liberally apply loctite 242 to cup threads and install into frame. Torque to 35-37 ft/lbs. This is pretty tight- just like you would install a bottom bracket.

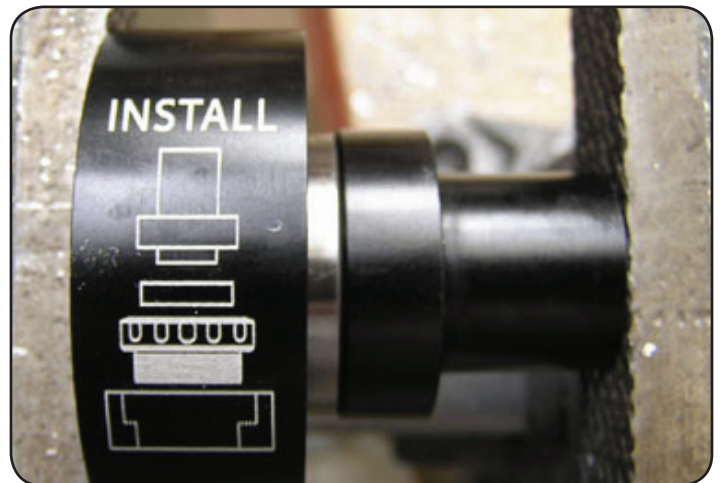


Fig. 5

### Change Bearings without SCB Bullit Bearing Tool

- a) Using your BB cup wrench, remove the drive side bearing cup. This one is a left hand thread.
- b) Use a punch & mallet to remove the bearing from the remaining cup (Fig. 6)
- c) Remove the left side cup (normal right hand thread).
- d) Re-install drive side cup, and repeat bearing removal with the punch.
- e) Remove drive side cup again.



Fig. 6

- f) Place cup and new bearing in vice and press in as straight as you can. If it starts going really crooked, pull it out and try again (Fig.7)

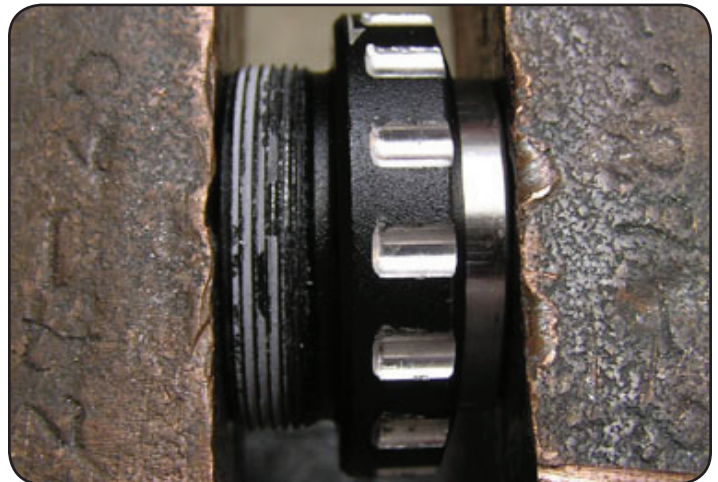


Fig. 7

- g) You need to get it a little deeper, so press again using the threaded portion of the other cup as a driver. Make sure you center it precisely so that it is only contacting the bearing. (Fig.8)
- h) Liberally apply loctite 242 to cup threads and install into frame. Torque to 35-37 ft/lbs. This is pretty tight- just like you would install a bottom bracket.



Fig. 8

## Step 5: Prep for Re-Assembly

- Clean the pivot axle and scrape off dried loctite from the bolts. Coat the pivot axle with Rock and Roll Super Coat Grease, or another high quality, sticky, slick grease.
- Replace swivel nuts in swingarm and coat external surface with a thin layer of grease.
- Install pivot pinch bolts with fresh loctite 242 and washers. Don't tighten them yet.(Fig. 9)



Fig. 9

## Step 6: Assemble Main Pivot

- Apply grease to the concave surface of the bearing dust caps so they will stick to the bearings. Apply them to the bearings concave side in. (Fig. 10)
- Grease the external surface of the pivot axle, and install through swingarm and bearings from the non-drive side.



Fig. 10

- Apply loctite 242 to pivot cap threads and tighten to 33 in/lbs. This is a touchy one, so we really recommend a torque wrench. If you don't have one, at least check that the swingarm moves freely. Looser is better than tighter at this point.(Fig. 11)
- Tighten pivot pinch bolts to 125 in/lbs.
- Check swingarm for smooth movement and ensure there is no side to side movement. If there is side to side movement, loosen the pivot pinch bolts before snugging up pivot axle.

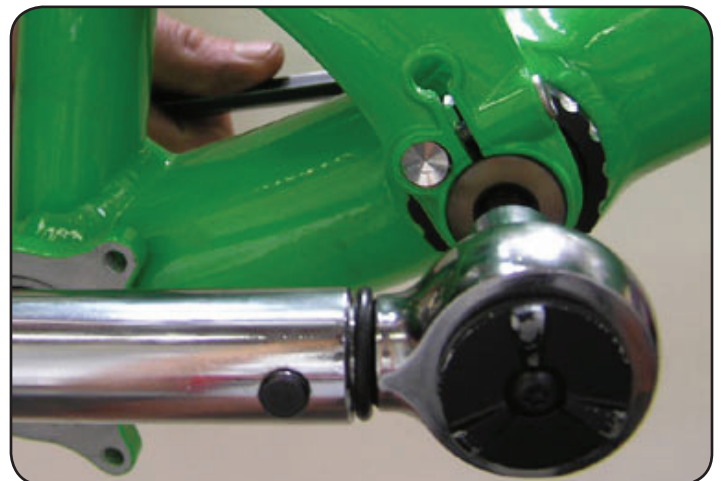


Fig. 11

### Step 7: Install Shock

- a) Apply loctite 242 to shock bolts and install with washers. (Fig. 12)
- b) Torque to 145 in/lbs.

**Now install your crankset and go ride!**

### Dropout Replacement

- a) Loosen through axle pinch bolts and then remove through axle.
- b) Remove all 6 M8 dropout bolts and clean old loctite off.
- c) Apply fresh loctite 242 and install new dropouts. Tighten the bolts incrementally so dropout goes on smoothly and doesn't jam up. These are designed to be very tight so the dropout can't shift around - expect some friction.
- d) Tighten to 110in/lbs.
- e) Grease external surface of the through axle and install.
- f) Grease through axle pinch bolts, and make sure there is a small washer under the head. Tighten to 95 in/



Fig. 12