



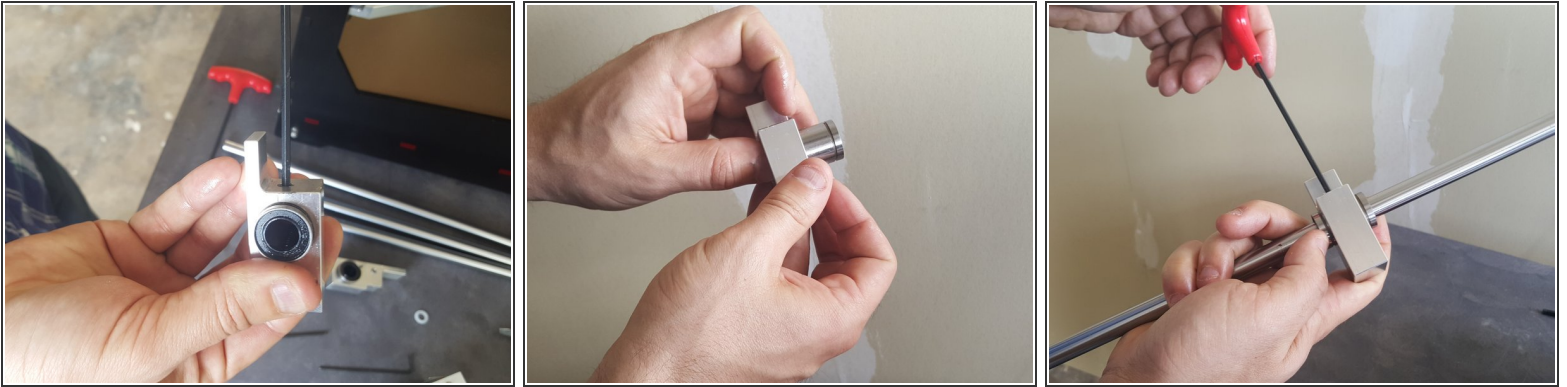
Replacing your X axis, Y axis and attachment head bearings

This guide will walk you through the process of removing your bearings from their mounts and how to reinsert new bearings.

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Step 1 — Removing your X and Y bearings from their mounts, part 1



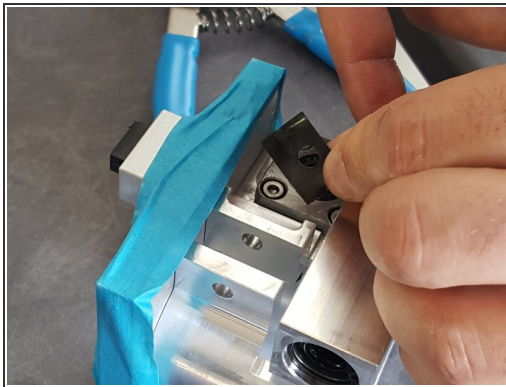
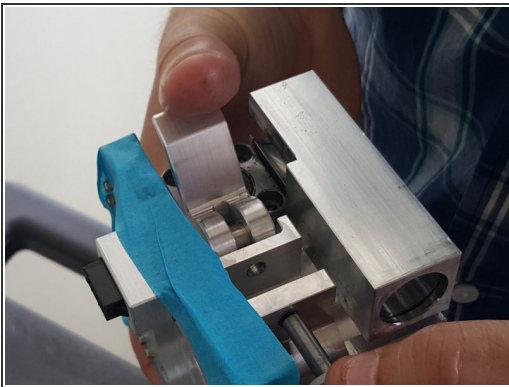
- After disassembling your X and Y gantry you can replace your X and Y bearings as follows
 - Hold your desired X or Y bearing mount with one hand and use an Allen wrench to loosen the set screw by turning it on full rotation, as seen in the first image
 - With your thumb push the bearing through the mount, as seen in the second image
 - Be careful with the bearing when removing it and try not to drop it or get debris inside of it
 - Take your new bearing and insert it into the mount then insert an X or Y axis rod into the bearing
 - Your bearing does not need to be perfectly centered in the mount but try to get it as close as you can
 - Next turn the set screw with an Allen wrench 1/8 of a full turn and then slide the rod back and forth in the bearing
 - Repeat the last part of this step until the bearing does not move with the rod, it is very important that you do not over-tighten the set screw because it may cause damage to the bearing itself

Step 2 — Removing your X and Y bearings from their mounts, Part 2



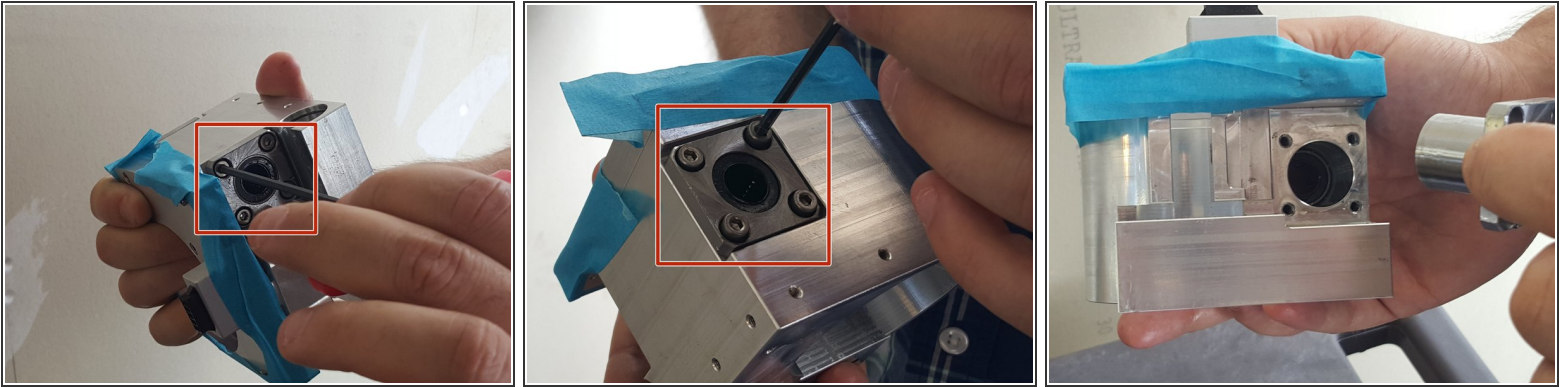
- Repeat the last step of this guide for the X or Y axis bearing that you did not replace

Step 3 — Removing and replacing your attachment mount bearings, part 1



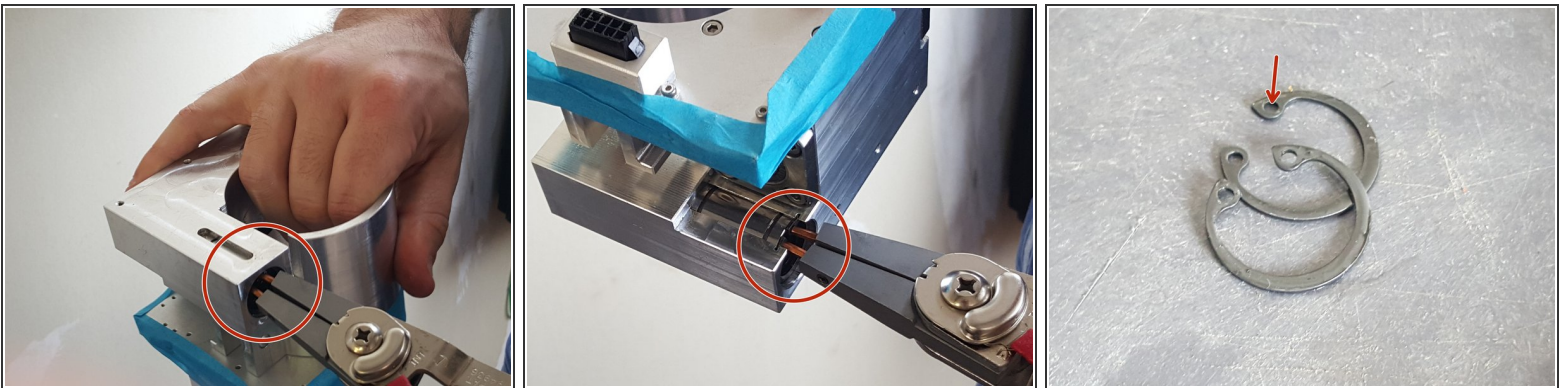
- First you will disassemble the locking latch on the attachment mount but using an Allen wrench to remove the bolt holding all of the components, seen in the third image, to the attachment head
- Pay special attention to the position of all of the components so when you reassemble your locking latch it is the same as when you disassembled it

Step 4 — Removing and replacing your attachment mount bearings, part 2



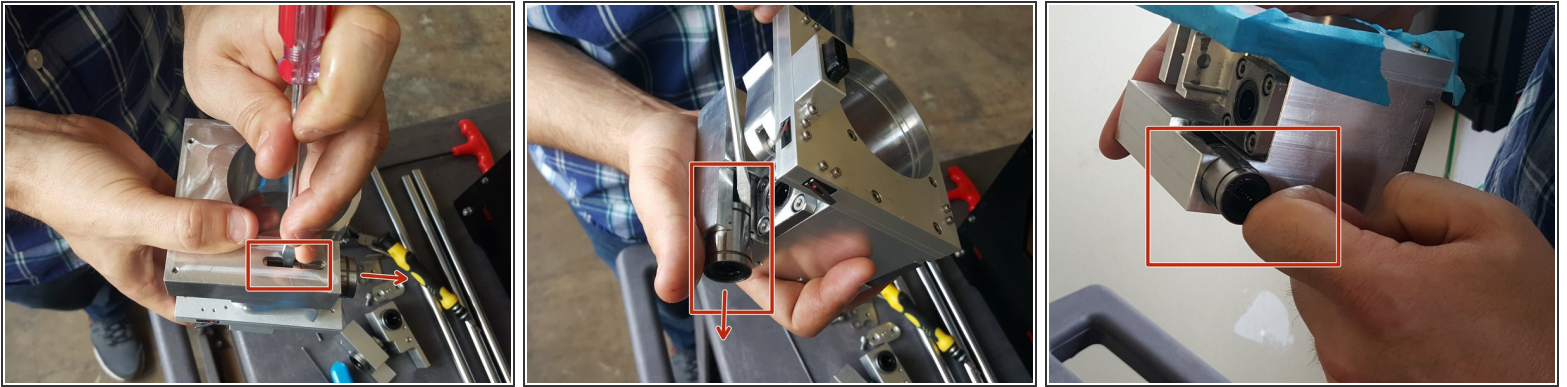
- First you will remove the square flanged bearings with an Allen wrench by unbolting all four bolts from each bearing that has a square mount, as indicated in the first and second image
- Next, pull your bearings out of the attachment head on at a time, as seen in the third image

Step 5 — Removing and replacing your attachment mount bearings, part 3



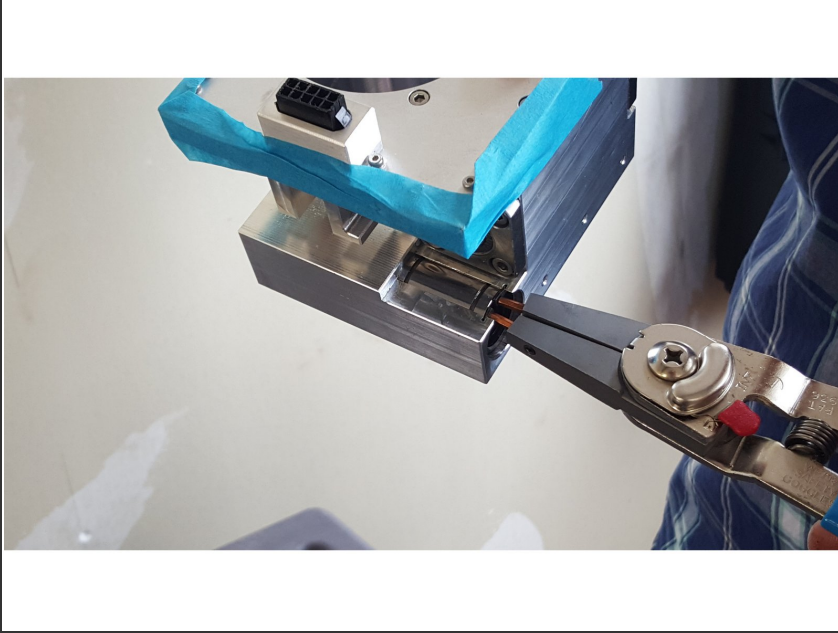
- With a **Snap Ring Pliers** remove the snap rings from both open ends of the round bearings, as seen in the first and second image
- To do this put the pliers pointed tips into the holes in the snap wrings, squeeze your pliers closed and pull the snap wring out with the pliers, the holes are indicated in the third image and you may need a flash light to see them inside of your attachment head
- Be careful you do not lose your snap wrings

Step 6 — Removing and replacing your attachment mount bearings, part 4



- Now you will remove the bearings that you removed the snap rings from
 - Place a *Flat Head* screw driver into the slot on the bearing it self and push the bearing out of the attachment mount, this is seen in the first image and indicated by the *red box* and *red arrow*
 - Next, use your *Flat Head* screw driver to push the other bearing out of the attachment head from the back of the bearing, this is seen in the second image and indicated by the *red box*
- Now you can insert your new bearings in the same locations that you just removed them
 - Use your knuckle to push the bearings passed the inner groove that the snap ring fits into, this is seen in the third image

Step 7 — Re-inserting your snap rings



- Place your snap ring on your snap ring pliers and squeeze them
- Next, insert the compressed snap ring into the groove at the end of the bearings and unsqueeze the snap ring pliers and pull the pliers out
- The direction of the snap ring opening does not matter but make sure you place the snap ring in the groove inside of the bearing opening