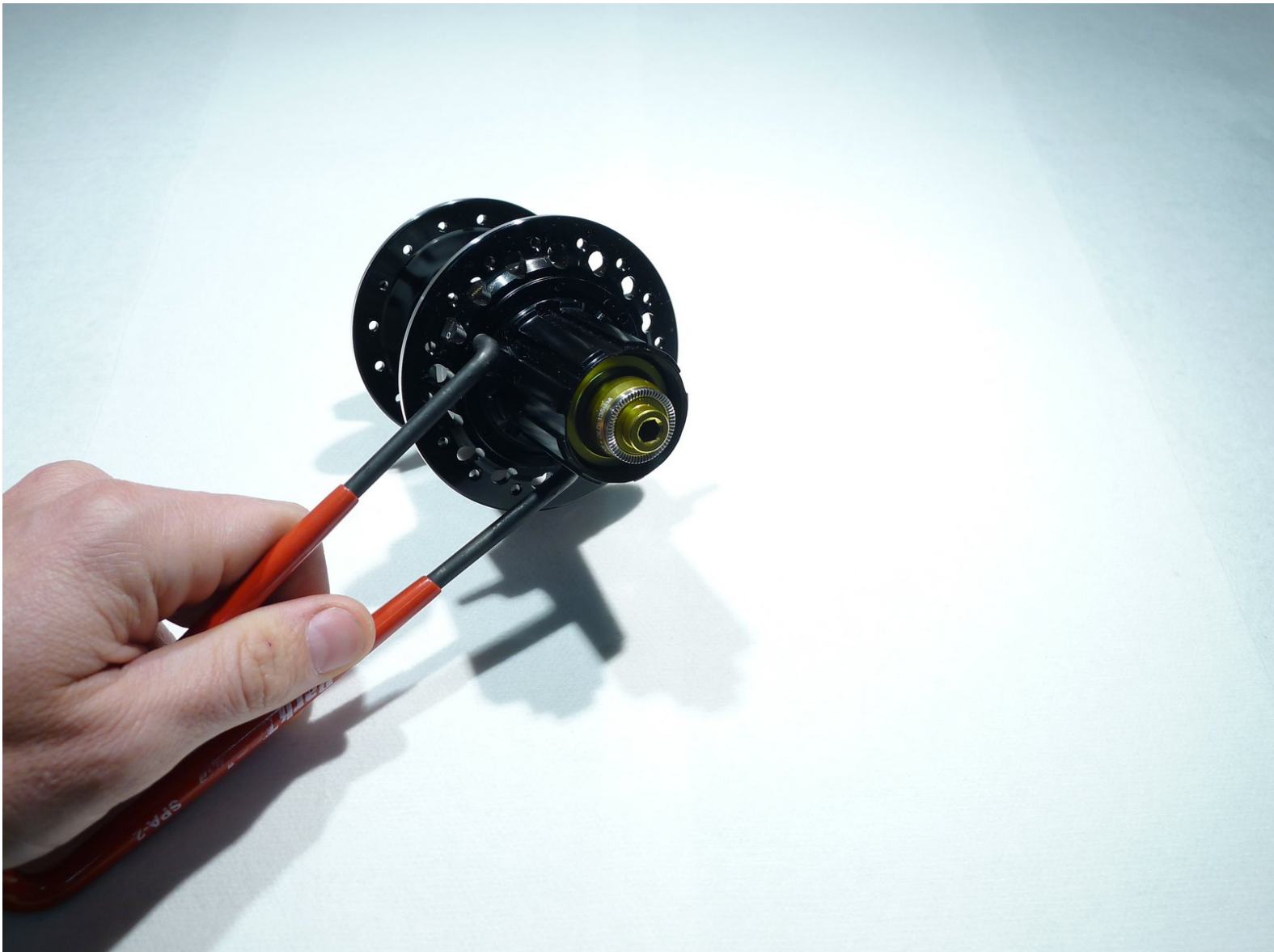




# Gen 1 XCX+ rear hub - 135QR axle install and removal

Service guide for XCX+ rear QR hubs

Written By: The Hive - Jeremy





## TOOLS:

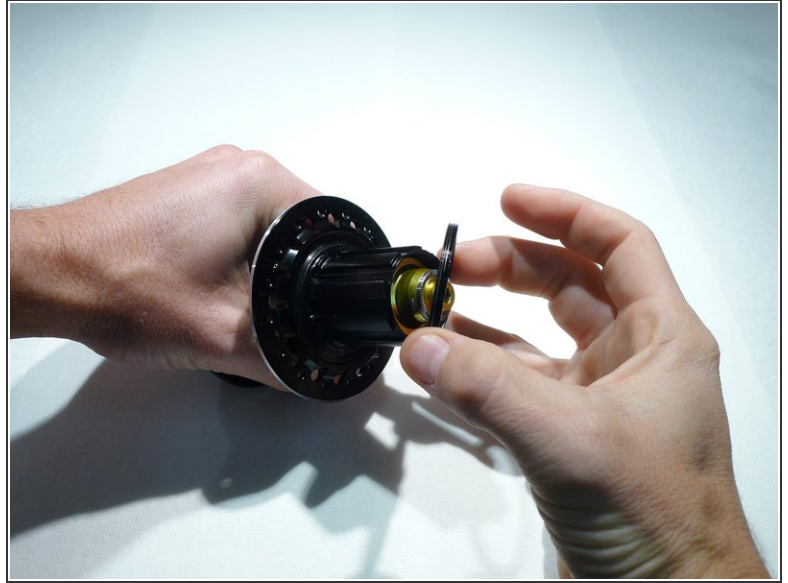
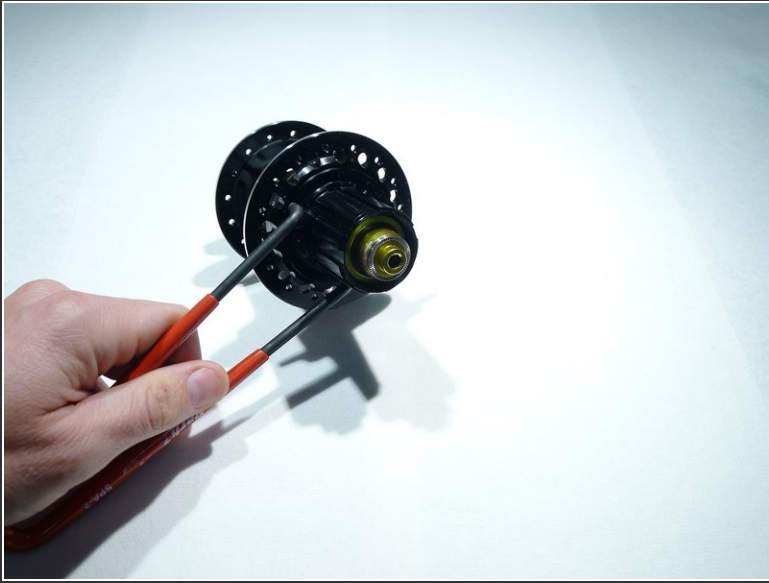
- [19mm cone wrench](#) (1)
- [5mm hex bit for torque wrench](#) (1)
- [5mm hex wrench](#) (1)
- [axle vise](#) (1)
- [Pin spanner](#) (1)
- [Torque wrench](#) (1)
- [Vise](#) (1)



## PARTS:

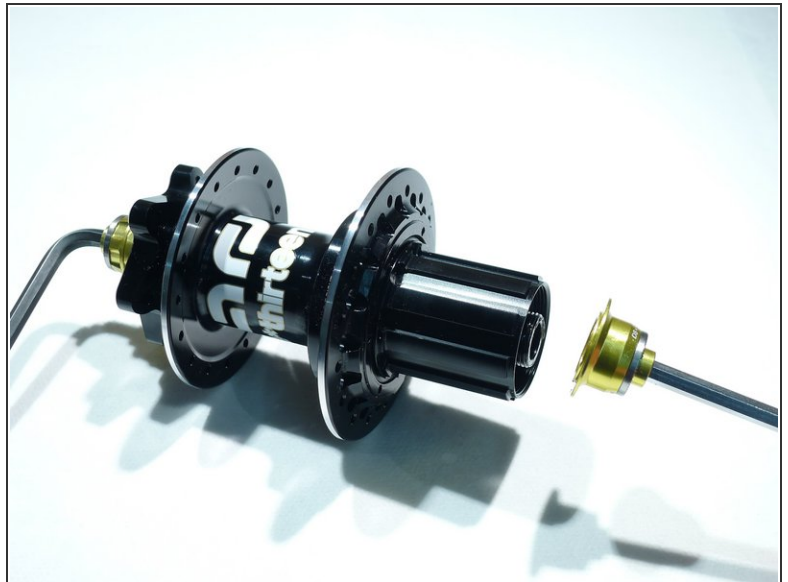
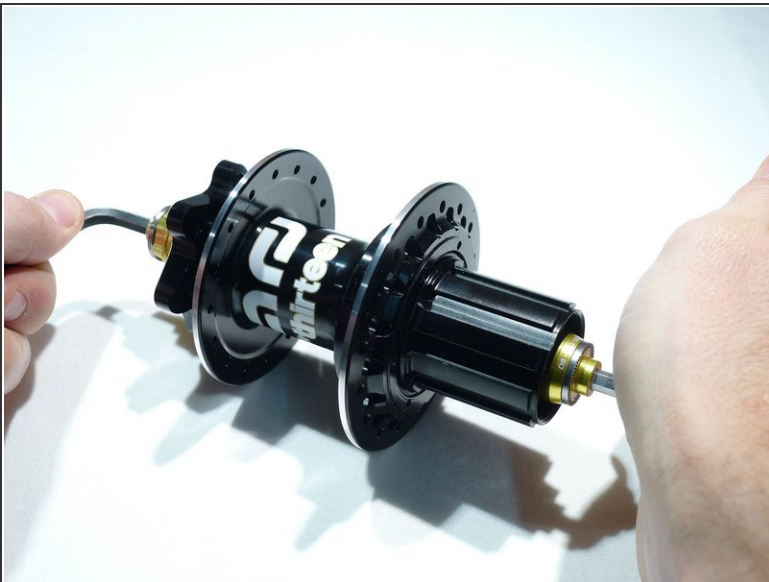
- [grease](#) (1)
- [medium strength threadlocker](#) (1)

## Step 1 — Gen 1 XCX+ rear hub - 135QR axle install and removal



- Remove freehub lockring by turning counter clockwise with pin spanner

## Step 2



- Using two 5mm hex wrenches, loosen the endcaps by turning them counter clockwise from each other
- The driveside endcap will normally loosen first

### Step 3



- Remove the driveside endcap
- Slide freehub assembly off of the axle
- Be careful not to lose the pawls as they may fall while removing the freehub body

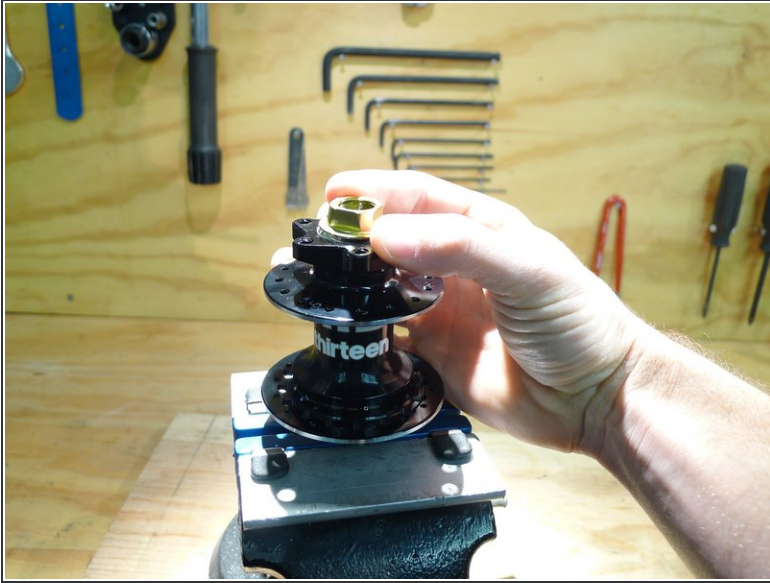
### Step 4



- Use an axle vise or insert the flats on the drive side of the axle into a smooth jaw vise
- While holding the axle in the vise, loosen the non-drive endcap by turning it counter-clockwise

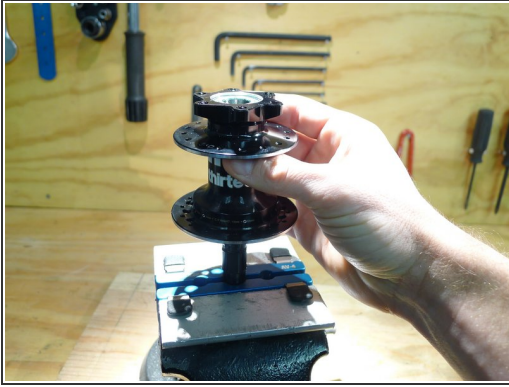


## Step 5



- The preload adjuster may need to be held with a cone wrench while loosening the non-drive endcapdrive side
- Loosen the preload ring by turning it clockwise
- Slide the axle out of the hub shell by pushing from the non-drive side to the drive side

## Step 6



- Slide the hub body off of the axle
- At this point the hub is most of the way apart, you can service bearings, replace worn parts or [just clean things up](#)
- Next, Let's install the axle

## Step 7



- Lightly grease steel axle
- Remember the drive side of the axle is the side with the bearing surface for the freehub body
- Slide the axle into the hub from the driveside
- Use an axle vise or insert the flats on the drive side of the axle into a smooth jaw vise

## Step 8



- While holding the axle in the vise, install the preload adjustment ring by turning it counter-clockwise
- Tighten the preload adjuster by hand
- Put two drops on medium strength thread locker on the threads inside the non-drive side axle



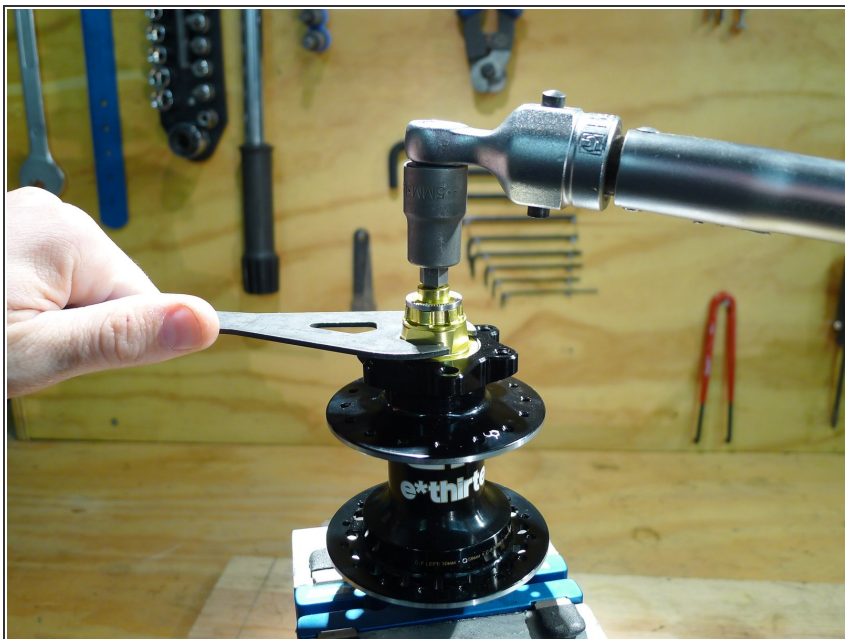
## Step 9



- Install the non-drive endcap by turning it clockwise
- Lightly grease the face where the endcap and preload ring will meet
- Adjust the bearing preload using the preload ring
  - Tighten the preload ring so the bearings no longer have play in them, but such that they also do not have excess drag

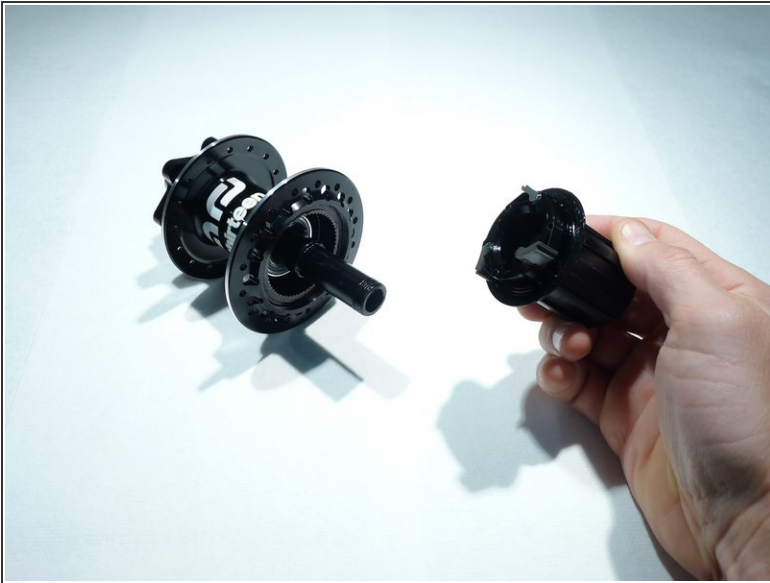


## Step 10



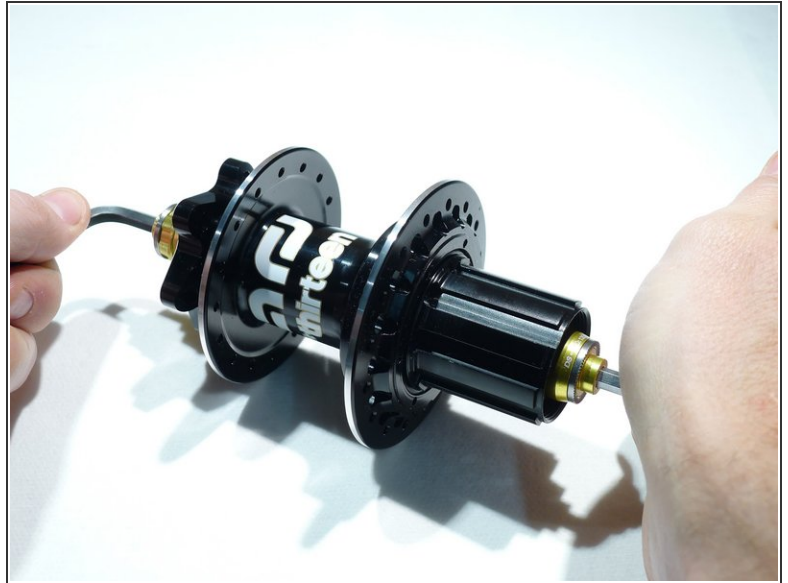
- When you are happy with the adjustment, hold the preload ring with a cone wrench and tighten the non-drive endcap to 6nm
- Remove the axle from the vise

## Step 11



- Next, install the freehub assembly
- Learn how to lube the freehub properly using the [freehub service instructions](#)
- Slide the freehub body over the axle
- Turn freehub counterclockwise so that the pawls compress the springs and slide into the hub
- A tool may be used to lightly compress the pawls

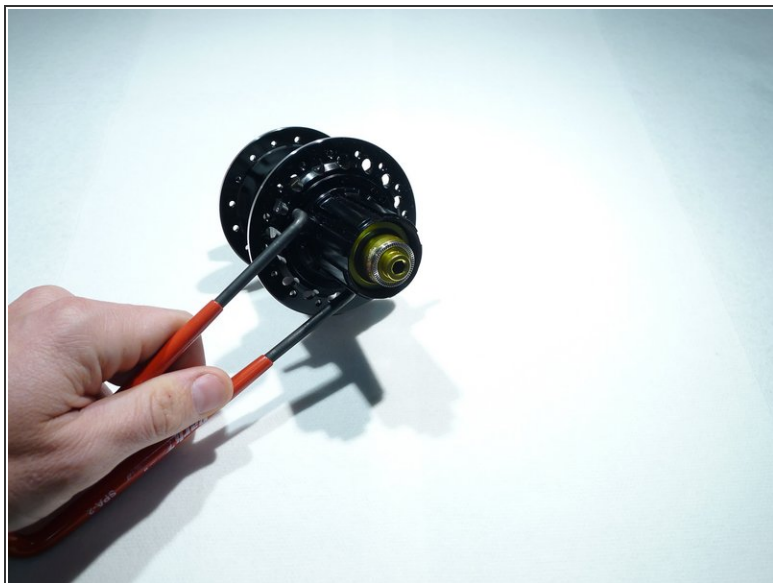
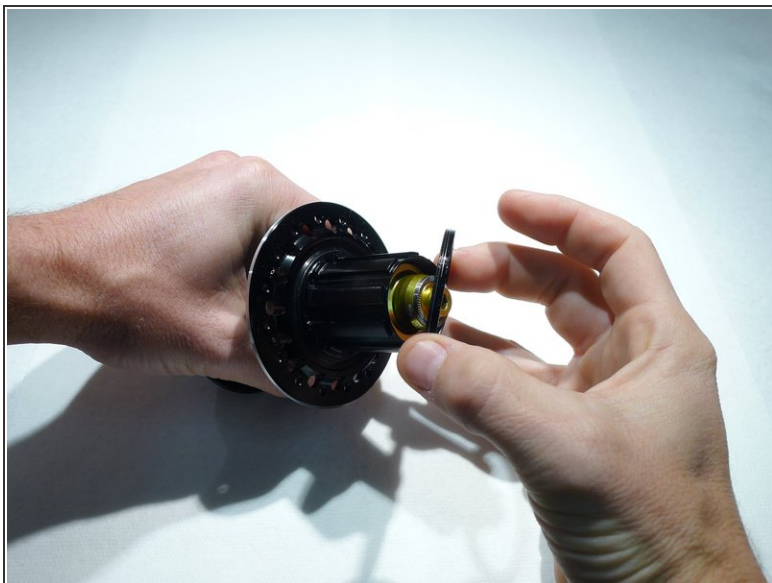
## Step 12



- Put one drop of medium strength threadlocker on threads inside the driveside endcap
- Install the endcap by turning clockwise
- Tighten to 6nm



## Step 13



- Reinstall the freehub dust seal by turning clockwise
- tighten to snug

Thanks for reading, now get out there and ride!