• 17mm Open Ended Cone Wrenches (x2)

• 12mm Allen Wrench (x1)

• Loctite 242 or 243 Blue

• 3 in 1 oil or a very light weight hub grease/oil like Dumonde Tech Pro X freehub oil
1A. Start by using the two 17mm open ended cone wrenches on the flats of the end caps of both the drive side (right) and non-drive side (left) of the rear hub and twist counter clockwise.

NOTE
Dust seal is optional and only fits Sram XD and Shimano HG drivers.

1B. If the drive side (right) end cap comes off first, you are all set to pull the freehub body/cassette off, proceed to 1D.

If not, continue with 1B instructions.
1C. Insert the 12mm Allen wrench into the non-drive side (left) with one 17mm open ended cone wrench on the drive side (right) and the drive side end cap should come off.

1D. Once the drive side end cap is off, pull hard to remove the freehub body. Clean and inspect the pawls/drive ring.

1E. Check for a thin washer spacer on the inner hub shell bearing.
ASSEMBLY INSTRUCTIONS

2A. If everything looks good, apply a liberal amount of 3 in 1 oil or your choice of light weight hub grease to the drive ring/freehub body interface. Reinstall the thin washer (if it is not already in the hubshell), then the freehub body.

2B. Reinstall the freehub body and seal.
2C. Apply a small amount of Loctite 242 or 243 Blue to the threads of non-drive side endcap.

2D. Thread the non-drive side end cap back on and tighten with a 17mm open ended cone wrench (left) a 12mm Allen wrench (right) till snug and no play.

2E. Apply a small amount of Loctite 242 or 243 Blue to drive side end cap or shaft threads and re-install.

2F. Thread the drive side end cap back on and tighten with two 17mm open ended cone wrenches till snug and no play.
NOTE
Some freehub bodies appear different and either will work in work in our hub.

Sram XD and Shimano HG share a 16mm drive side end cap.

Shimano Microspline has a separate 21mm drive side end cap.

Bearings
Hub bearing replacement is a bit more involved and requires bearing pullers.
This video shows how to do it: https://youtu.be/5CSDz5hitbs

We don’t carry the bearings, but they are pretty standard:
For the front and rear hub shells the bearings are two 17287 LLB
For the XD and Shimano free hub body there is one 17287 LLB and one 6803 LLB

If you have any question on the condition of the pawls/drive ring please send a photo via email to Warranty@Ibiscycles.com.