



REYNOLDS KT HUB SERVICE (1): SEAL DRAG

To better service our customers we have created the following service information sheet for our Attack, Assault, and Solitude wheels. These wheelsets all use the same hub and are built in the same facility. We have determined that there is the potential for drag coming from the seal cover on the freehub body. This cover is a large black flange that is located on the inner portion on the freehub body, against the hub shell. This black seal cover is pressed on to the freehub body before the freehub is installed on the hub.

During both shipping and also cassette installation, this black seal can be pushed out of position, making contact with the hub seal that is located underneath. This contact may create a drag on the hub when the freehub body is being held in place and the wheel is spinning (Free-wheeling). If you experience this, the fix is very simple and requires very few tools.

1. Start by removing the cassette from the wheels. Once the cassette is removed you can now insert a 5mm hex wrench into each end of the axle. Remove the end cap from the drive side on the axle. If the non-drive end cap comes off, leaving the drive side in place, insert a 10mm hex wrench into the non-drive side of the axle to hold it in place. Now remove the end cap from the drive side of the axle.
2. Install the smallest cog on to the hub and thread the lock-ring hand tight. It is best to wrap a rag around the teeth of the cog. Brace the rim on a soft surface on the floor while holding the top of the rim with one hand. Now with the other hand pull on the freehub body using the cog and with the rag wrapped around it for extra grip. It will take a little force but the freehub should slide off the axle.
3. Once you have the freehub body off, you can now press the black seal cover back into place. Using a bench-vise, open the jaw enough to allow the ratchet part of the freehub body to pass through them so that the black seal cover comes to rest on the top side of the jaws. With a rubber mallet tap lightly on the lock-ring side of the freehub body. Rotate the freehub 900 and tap again. Repeat this process 2 more times.
4. At this point the black seal cover should be seated back in place. It is now time to reinstall the freehub body. Slide the freehub body back on to the axle. When the ratchet end makes contact with the pawls inside the hub, rotate the freehub body counter-clockwise while pushing the freehub body into place. The freehub body should now be engaged and seated in place.
5. Install the end caps back on the axle and use the 5mm hex wrench to torque the end caps back into place.
6. Remove the lock ring and smallest cog. Spin the wheel while holding the freehub body to make sure that the freehub is functioning properly and the seal drag is at an acceptable amount.

If the hub still experiencing drag, contact Reynolds Cycling at (801) 565-8003 or at info@reynoldscycling.com.