

# **NUKEPROOF**

## **HOW TO CHANGE/CONVERT THE FREEHUB ON YOUR NUKEPROOF HORIZON & NEUTRON V2 HUB**

This guide will allow you to convert Horizon to any freehub and Neutron from HG to XD. Separate guides are available for converting a Neutron hub to microspine and also replacing freehub bearings.

### **ITEMS REQUIRED**

- Pick
- Flat head screwdriver
- Grease
- Kitchen roll or rag
- Replacement freehub



### **DISASSEMBLE**



1. Remove the new hub seal from the freehub by pressing down the pawls. This has been sent fitted to the freehub to prevent damage during transit.





2. Remove the driveside end cap.



3. Pull off freehub as you turn it **ANTI CLOCKWISE**.



4. Remove bushing – Silver on Neutron and Black on Horizon. **Note:** this may be stuck in the back of the freehub.



5. Inspect the hub seal for damage.



6. If the seal is damaged, remove it by pushing a flat head screwdriver or pick underneath and pull it off.



7. Clean off the old grease and ensure no other parts are worn or damaged.





8. We are now ready to fit the new freehub



9. Apply Nukeproof hub grease to the bearing, seal seat and around the ratchet ring



10. If you removed the hub seal in step 6, get the new seal and determine front and rear. The front of the seal has the V shape groove.



11. Push the seal into the hub shell and ensure it is correctly seated.



12. Refit bushing on axle.





13. Grease pawls.



14. Push the freehub onto the hub shell turning **ANTI CLOCKWISE**



15. Refit driveside end cap.



16. If you have converted to an HG hub, you will have a spacer left over. This needs to be fitted before you fit the cassette. This spacer is **NOT** required for XD or microspline freehubs and cassettes.

The conversion is now complete. Spin the wheel/freehub to ensure that the freehub is moving as normal. You can now refit your cassette and go ride!