

# NUKEPROOF

## GUIDE FOR STRIPPING HORIZON AND NEUTRON V2 HUBS

For this guide we have used a hub with a Shimano HG freehub. For SRAM XD and Shimano Microspline drivetrains follow the same procedure but note that there's an extra bearing in the freehub which also needs removing. The procedure is the same for both our Horizon and Neutron V2 hubs.

### TOOLS REQUIRED

- Hammer
- Internal Circlip Pliers - 1.3mm tips
- Soft Hammer
- Bearing Punches
- Small flat head screwdriver
- Something to support hub (block of wood with 32mm wide hole bored)

### STEP BY STEP INSTRUCTIONS:



1. Pull off driveside end cap.



2. Pull off non-driveside end cap.



3. Pull off freehub turning the freehub anti-clockwise as you pull.



4. Take bushing off the axle (it may be in the back of the freehub).



5. Remove seals from hub shell driveside and non-driveside using a flat head screwdriver to lever under the seal.



6. Put your hub over the hub support non-driveside down. Carefully hit the end of the axle to remove the non-driveside bearing.





7. When the bearing has been removed from the non-driveside, the axle will pull out of the hub so it can now be removed.



8. Turn the hub over so it is now driveside down. Using a bearing punch, hit the driveside bearing out from the back. After each hit, move position on the bearing for the next hit so it comes out evenly.



9. Get your freehub and remove seal from outside bearing using a flat head screwdriver.



10. Put the freehub driveside down on your hub support and use your finger to push the spacer to the side to make the bearing visible. If the spacer doesn't move, hit the back bearing with the bearing punch which should allow the spacer to move. Using your bearing punch hit the driveside bearing out from the back.



11. Remove the spacer from the freehub.

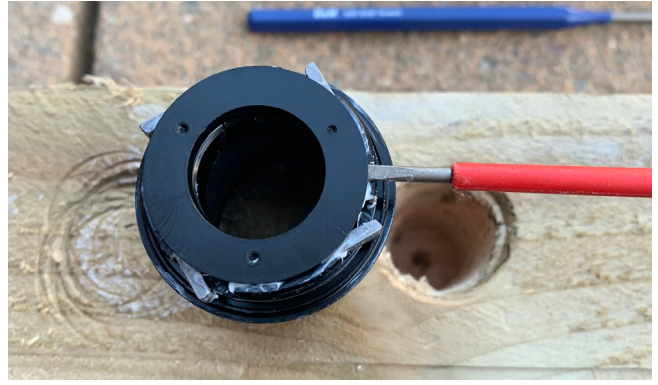


12. The last bearing is held in place by a circlip, use internal circlip pliers with 1.3mm tips to get the circlip out.





13. Using your bearing punch, hit the last bearing out of the freehub. Again, this bearing should be hit in various places to ensure it comes out straight.



14. Remove the plastic cap from the rear of the freehub using a thin flat head screwdriver.



15. Remove the pawls using the flat head screwdriver.



16. Remove the springs using the flat head screwdriver.



17. The hub is now fully stripped.

A hub rebuild guide is available to download separately.

Exploded diagrams are available from **Nukeproof.com**

Spare parts are all available via a Nukeproof dealer.