

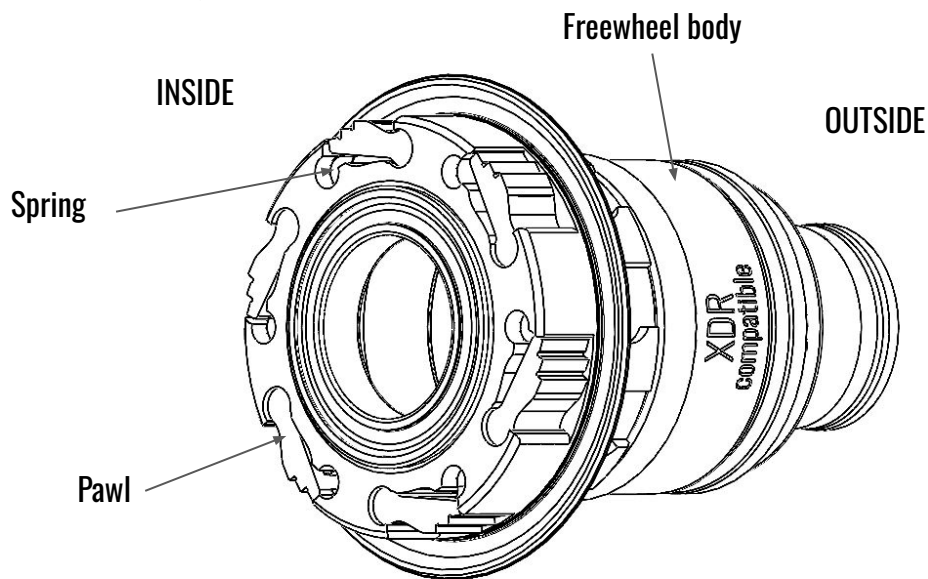


POEtry69 & 138 Freewheel - POE modification - XDR, HG, MS, N3W

Congratulations on purchasing your new Tune product, you made a great choice! We take great care to ensure our products are manufactured to the highest quality standards and that our valued customers have the right guidance to properly maintain their products, helping them last a lifetime. This guide applies to POEtry 69 and 138 (XDR, HG, N3W, MS). It doesn't apply to Yokto (POEtry 40).

Please find in this guide :

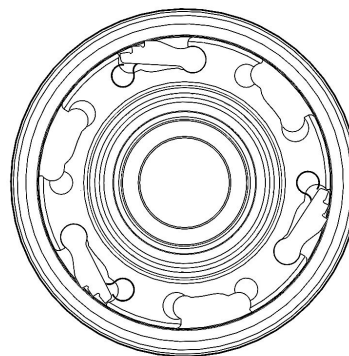
1. POEtry 69 and 138 system introduction
2. Conversion from POEtry 69 to 138
3. Conversion from POEtry 138 to 69



1. POEtry 69 and 138 introduction

On all the new Micro and Nano range, we introduced a new freewheel system that we called POEtry 69 and POEtry 138. This freewheel is build only in Micro and Nano hubs, and not on Yokto (which is using POEtry 40). All Micro and Nano rear hubs use the exact same freewheel body and the same 69 teeth steel toothed ring. The only difference is that we build the Centerlock (non boost, 142mm) hubs with 3 pawls (to have 69 point of engagement) while the 6-bolt (boost, 148mm) hubs are build with 6 pawls, making 138 points of engagement. 1 freewheel that fits both worlds!

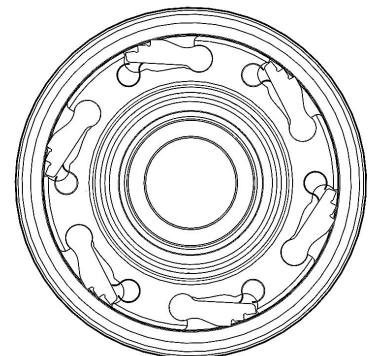
POEtry 69



Build on :

Micro Centerlock (non boost,
142mm)
Nano Centerlock (non boost,
142mm)

POEtry 138



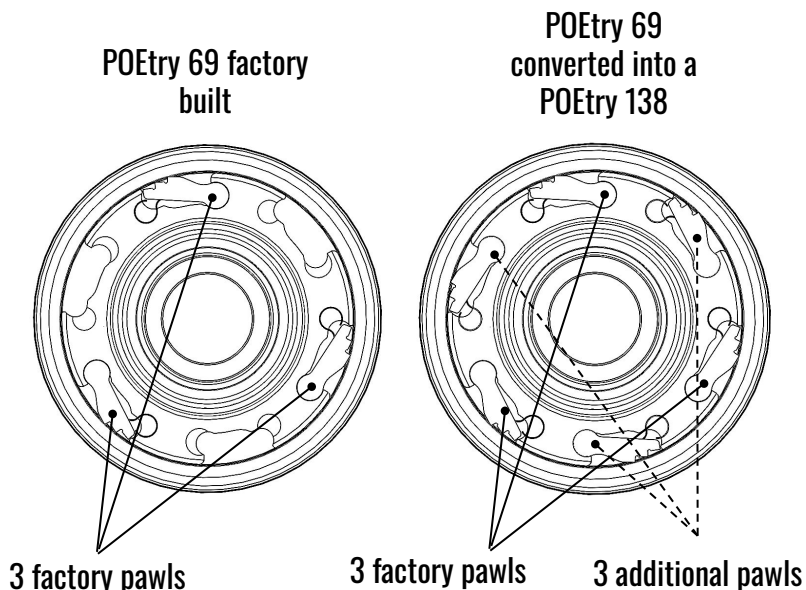
Build on :

Micro 6-bolt (boost,
148mm)
Nano 6-bolt (boost,
148mm)

2. POEtry 69 to 138

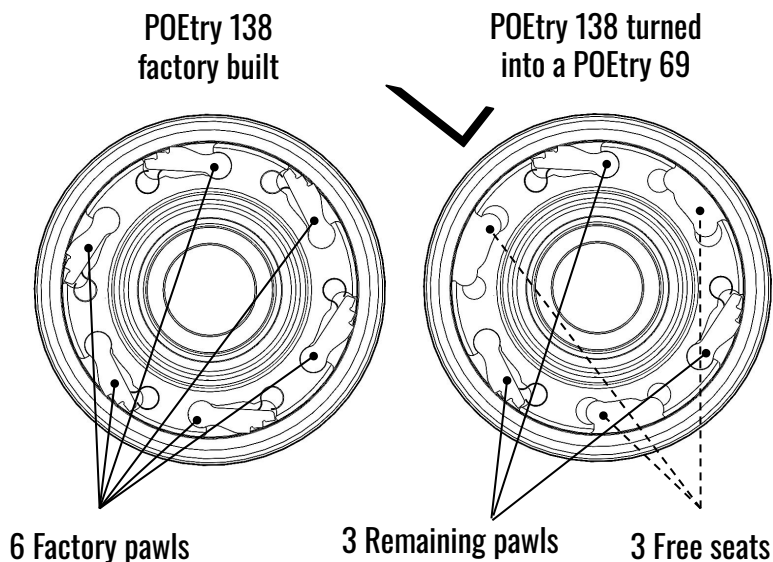
When it comes to points of engagement, on Micro and Nano Centerlock (non boost, 142mm), your POEtry 69 freewheel can have 2 settings. POEtry 69 will come from our factory with 3 pawls and 3 springs installed. You can buy an extra set of 3 other pawls and springs to transform your POEtry 69 into a POEtry 138. To do so, simply install the new springs and pawls in the free seats of the freewheel body. You'll need to push down the springs to properly install the pawls. But take care : due to manufacturing tolerances, pawls lengths can vary from .01 to .02mm, and for that reason we always recommend to never mix old pawls with new ones. Always have 1 on 2 pawls the same.

Tech tips : Going from 69 points of engagement to 138, will slightly increase drag, but it will offer a much quicker response, and more sound. To make it quieter or louder, please refer to the freewheel service manual.



3. POEtry 138 to 69

When it comes to points of engagement, on Micro and Nano 6-bolt (boost, 148mm), your POEtry 138 freewheel can have 2 settings. POEtry 138 will come from factory with 6 pawls and 6 springs installed. You can remove 3 pawls and 3 springs to turn it into a POEtry 69. But take care : 1 on 2 seats must stay empty, Pawls must be removed like on the drawing. If you have 3 pawls, and 2 pawls are next to each other, it can lead to serious failure. Never remove more than 3 pawls.



Tech tips : Going from 138 points of engagement to 69 will slightly reduce drag and sound, and will offer a slower response time. To make your hub quieter or louder, please refer to the freewheel service manual.

HOW YOUR PAWLS MUST NEVER BE INSTALLED :

