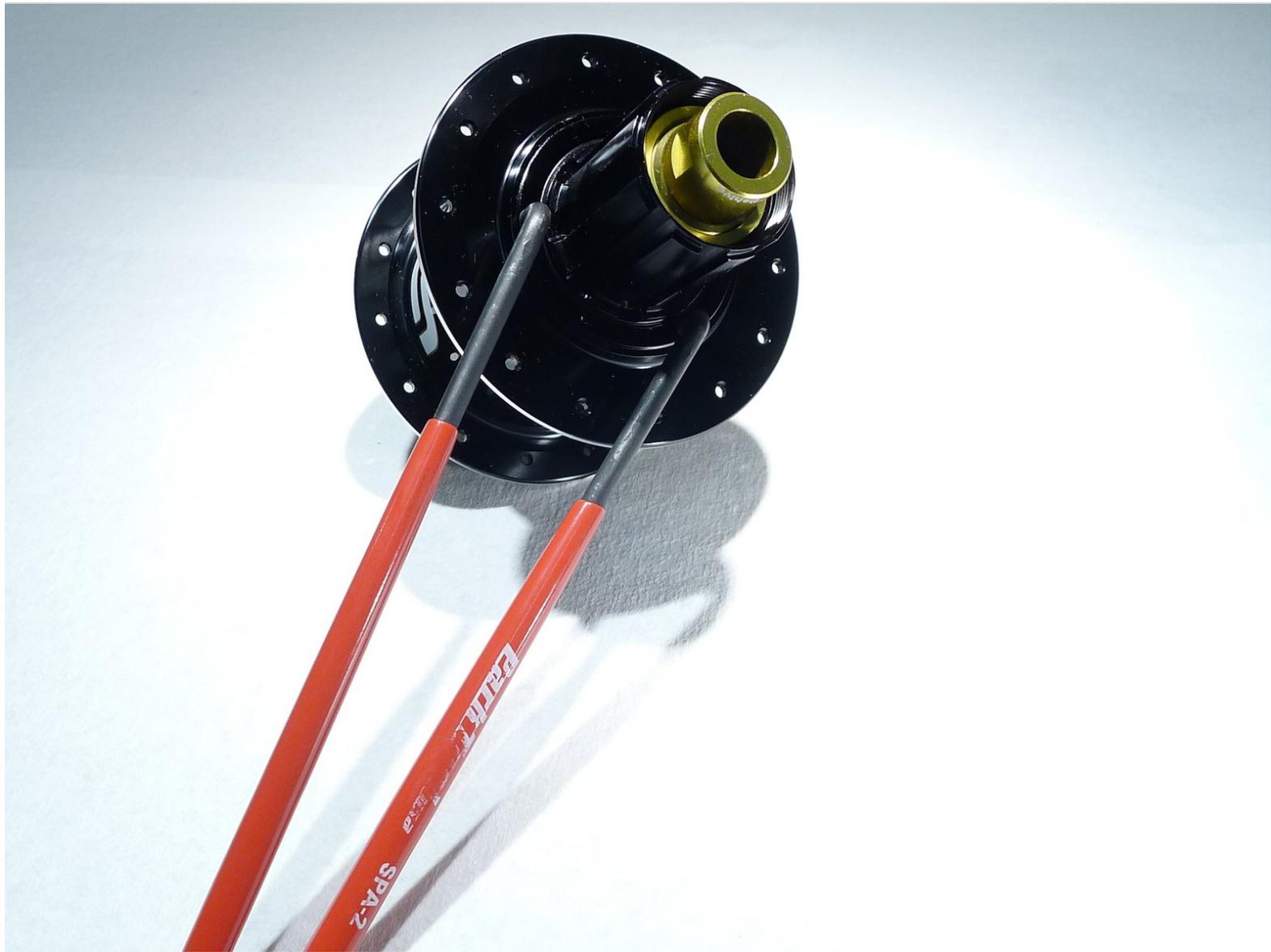




Gen 1 axle - TRS+ rear hub - 12x142 and 12x135 axle install and removal

How to remove and install the 1st generation 2pc axle used in 12x142 and 12x135 TRS+ hubs. This axle has since been replaced by the generation 2 axle which is backwards compatible for all TRS+ rear hubs

Written By: The Hive - Jeremy



INTRODUCTION

[video: <http://www.youtube.com/watch?v=oHadfkhT5zc>]



TOOLS:

- [1.5mm hex wrench](#) (1)
- [18mm cone wrench](#) (1)
- [19mm cone wrench](#) (1)
- [Pin spanner](#) (1)

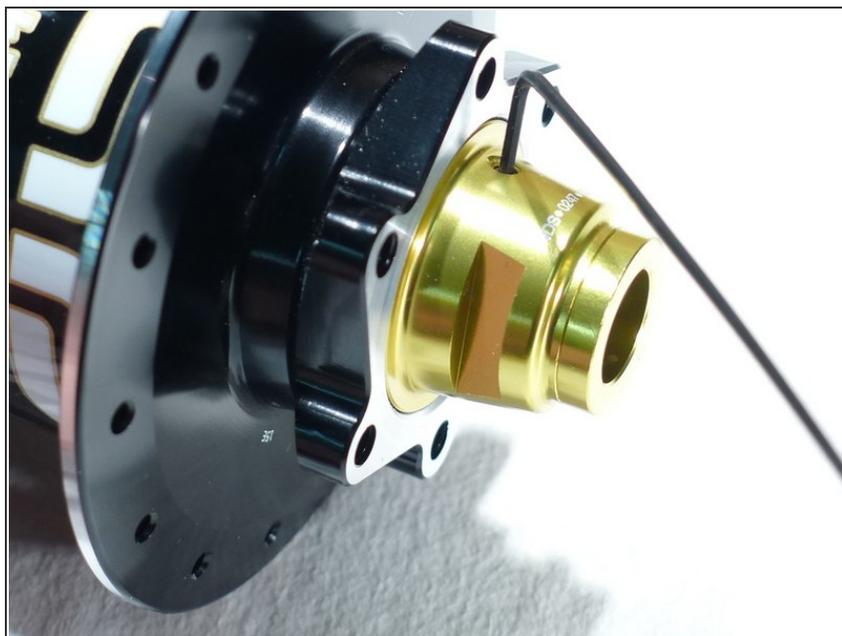


PARTS:

- [grease](#) (1)
- [Dumond Tech freehub oil](#) (1)
- [high strength threadlocker](#) (1)

Step 1 — Gen 1 axle - TRS+ rear hub - 12x142 and 12x135 axle install and removal

- Remove freehub lockring by turning counter clockwise with pin spanner

Step 2

- Loosen both 1.5mm grub screws on non-drive side endcap

Step 3



- Loosen hub by turning non-drive endcap clockwise
- ⓘ Use cone wrenches as needed, but often this can be done by hand

Step 4



- Slide axle and freehub assembly out of hub shell
- ⚠ Be careful not to lose the pawls as they may fall while removing the freehub body

Step 5



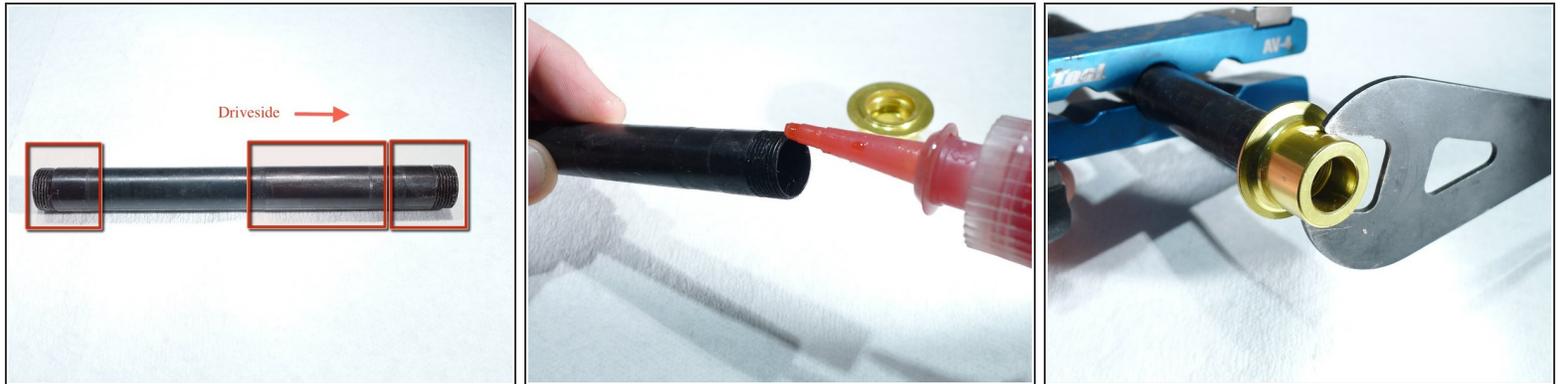
- Remove the axle reducer

Step 6



- At this point the hub is most of the way apart, you can service bearings, replace worn parts or [just clean things up](#)
- Next, let's install the axle

Step 7



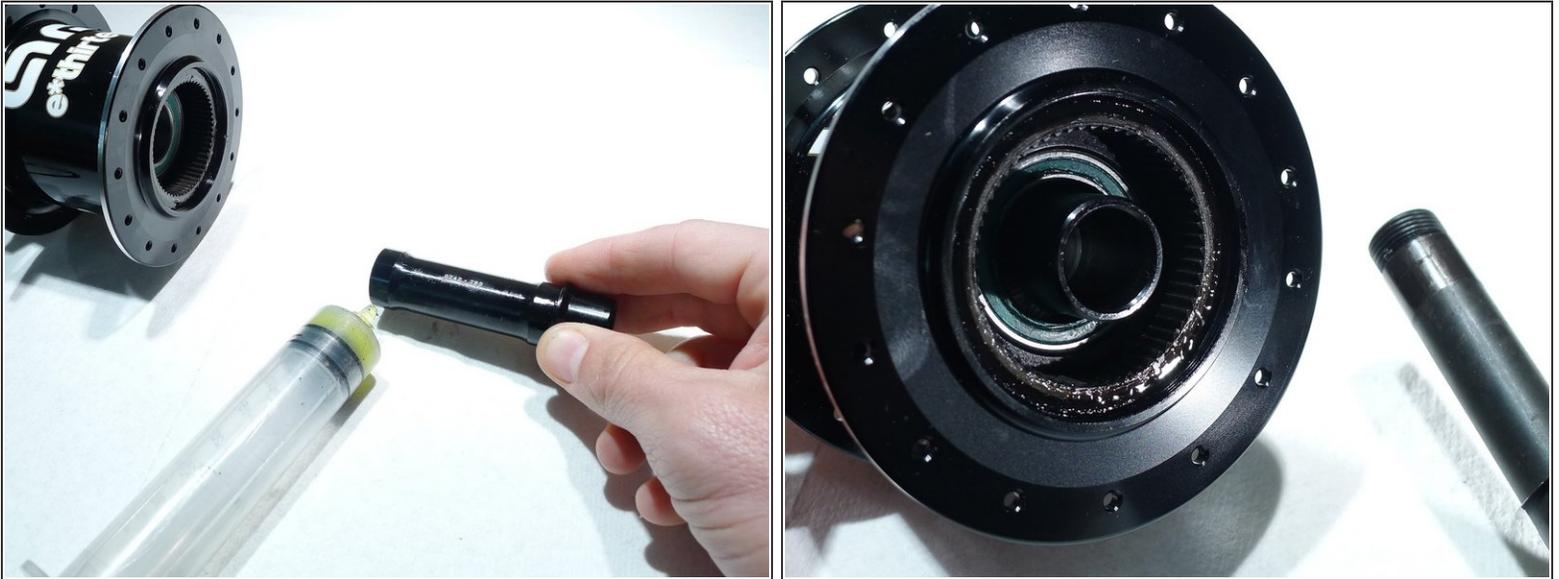
- Install drive side endcap onto steel axle
 - The drive side of the axle is the side with the bearing surface for the freehub body
 - Put two drops of high strength thread locker on endcap threads
 - Torque to 6nm using an axle vise to hold the axle

Step 8



- Lightly grease steel axle
- Slide freehub body onto axle

Step 9



- To install the axle, start by lightly greasing the reducer
- install it into the hub body from the drive side
 - Be sure it is fully seated in the hub bearings

Step 10



- Slide the axle and freehub assembly into the hub shell
- Turn freehub counterclockwise so that the pawls compress the springs and slide into the hub
- ⓘ You may need to use a tool to lightly depress the pawls as you turn the hub
- Need to know how to lube the freehub? Go [here](#)

Step 11



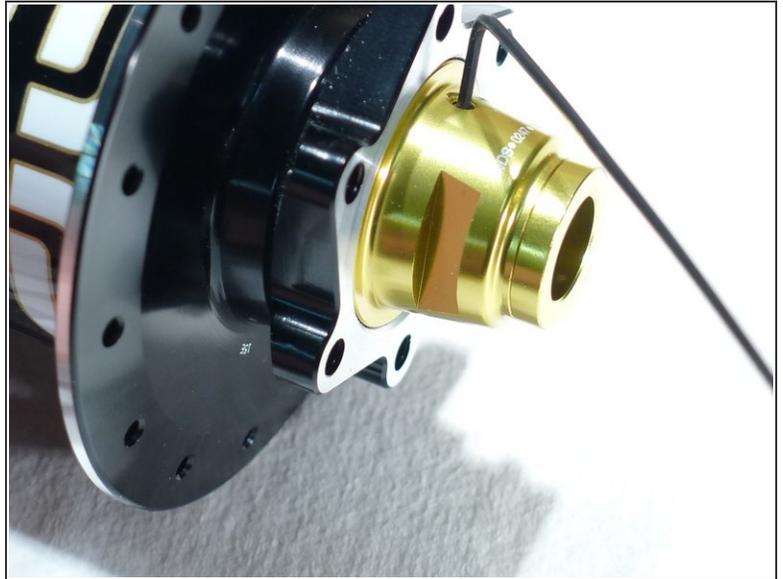
- install the freehub seal locking ring

Step 12



- Lightly grease non-drive endcap threads
- Install non-drive endcap
- ⓘ Note that the endcap has a left hand thread so turn counter clockwise to tighten

Step 13



- Adjust the hub bearings, this can often be done by hand
- Tighten the 1.5mm screws to 3nm

Thanks for reading, now get out there and ride!