



## BMX Hub Installation Instructions and Product Guidelines

Thank you for purchasing Stealth Hubs. We at True Precision are confident that you will be amazed by the quick engaging, high quality feel of our product. This Stealth hub is sure to bring you years of trouble free riding. This guide is intended to provide basic information that will help you install, maintain and become familiar with our products. If, after reading this guide, you have any questions, feel free to contact us and we will be glad to help you out.



Please be certain to follow this list of guidelines when installing or servicing your Stealth hubset:

### **Cog Installation**

To install the cog onto the drive body, use the supplied TORX T-10 wrench. Avoid over-tightening. You can apply loctite 222 or 242 to the screws to prevent loosening. After the first ride, double check that the cog clamp screws are still tight. Re-tighten if necessary. For a video, see the Support section of our website [stealthhubs.com](http://stealthhubs.com).

### **Break In Period**

Our hubs are well sealed against the elements. However, seals do cause drag. After a few rides, the bearings and seals should "break in" and the hub should spin more freely. If drag persists, try adjusting the bearing preload with the wheel installed on the bike (see below).

### **Bearing Preload Adjustment**

If you experience excessive drag or overly loose wheel, you will need to adjust the bearing preload. This is best if done while the wheel is installed on the bike. On the non-drive side, loosen the 2.5mm socket head screw on the clinch nut. Tighten or loosen the clinch nut to achieve a compromise between drag and wheel shake. When properly adjusted, re-tighten the clinch nut screw. Do not over tighten the clinch nut screw. For a video, see the Support section of our website [stealthhubs.com](http://stealthhubs.com).

### **Maintenance intervals**

In dry climates and riding conditions, once a season is adequate. In wet or extreme climates, the hub will require service more frequently.

### **ATF clutch lubrication**

The engagement mechanism (clutch) is a precision mechanism that requires the correct type of lube to function properly. We require that the clutch be lubed only with Automatic Transmission Fluid (ATF). If any other type of lubrication is used, especially thick grease, the clutch may not engage properly and the warranty will be voided. Only a small amount of ATF is necessary for re-lubrication, about 1/2 teaspoon is enough, this is about 1-2 drops per clutch roller element. For a video, see the Support section of our website [stealthhubs.com](http://stealthhubs.com).



### **General Warnings**

- 1) Do not lubricate the clutch with anything other than Automatic Transmission Fluid (ATF).
- 2) Other than cleaning and re-lubricating the rear hub drive mechanism after extended use, the hub should not be disassembled in any way. Any damage caused by this procedure or any modification will void warranty and could cause failure.



## **General Warnings (-cont-)**

- 3) Do not use abrasives or solvents to clean hubs.
- 4) Always use clean, lint-free rags when cleaning internal parts.
- 5) Our hubs are user serviceable and very easy to disassemble. However, any service beyond inspection, cleaning and re-lubricating of the engagement mechanism and bearings should be performed by our factory technicians at our facility.
- 6) Radial lacing of our hubs will void the warranty. Radial lacing can cause cracking and possibly failure of the hubshell. We recommend 3 or 4 cross lacing.



## **Abbreviated Service Overview**

A typical service is cleaning, inspection and re-lubing. A video demonstrating this service is available at the Support section of our website [stealthhubs.com](http://stealthhubs.com). A brief overview of a service is as follows: Thoroughly clean the exterior of the hub before dis-assembly. This prevents any contaminants from entering the hub when it is disassembled. Remove the clinch nut and pull out the axle and drive body as a single unit. Remove the axle from the drive body. Inspect the bearings inside the drive body for contamination, roughness and play. Inside the large end of the hubshell is the clutch. Inspect the clutch for dirt or rust. Especially important is the black plastic clutch spring retainer. Check this for cracking or deforming. If everything looks and feels good, lube the clutch with a small amount of ATF and reinstall the drive body into the clutch. Reinstall the axle and tighten the clinch nut. If any damage or roughness is noticed, contact us for replacement parts and further instruction. For a video showing the entire service procedure, see the Service section of our website [stealthhubs.com](http://stealthhubs.com).



## **Warranty**

True Precision Components warrants its hub products to be free from defects in materials or workmanship for a period of 5 years from the original date of purchase. True Precision Components warrants its hub bearings to be free from defects in materials or workmanship for a period of 1 year from the original date of purchase. Any True Precision Components product that is found by True Precision Components to be defective in materials or workmanship will be repaired or replaced at the sole discretion of True Precision Components providing it is returned to our factory freight prepaid. This warranty does not cover damage or failure resulting from misuse, abuse, alteration, neglect, normal and reasonable wear and tear, crash or impact, failure to perform routine maintenance as instructed, or use other than that for which the product was intended. If a defect is found, our entire liability and your sole remedy shall be, at our option, free repair or replacement of the True Precision Components product. True Precision Components shall not be held liable for any indirect, special or consequential damages. This written express warranty is in lieu of all other warranties, implied or expressed, and does not cover any representation or warranty made by dealers beyond the provisions of this warranty. This warranty gives you specific legal rights, and you may also have other rights which vary state to state.

To get the latest copy of these instructions, visit our website; [www.stealthhubs.com](http://www.stealthhubs.com) or call us with any questions (805) 964-4545