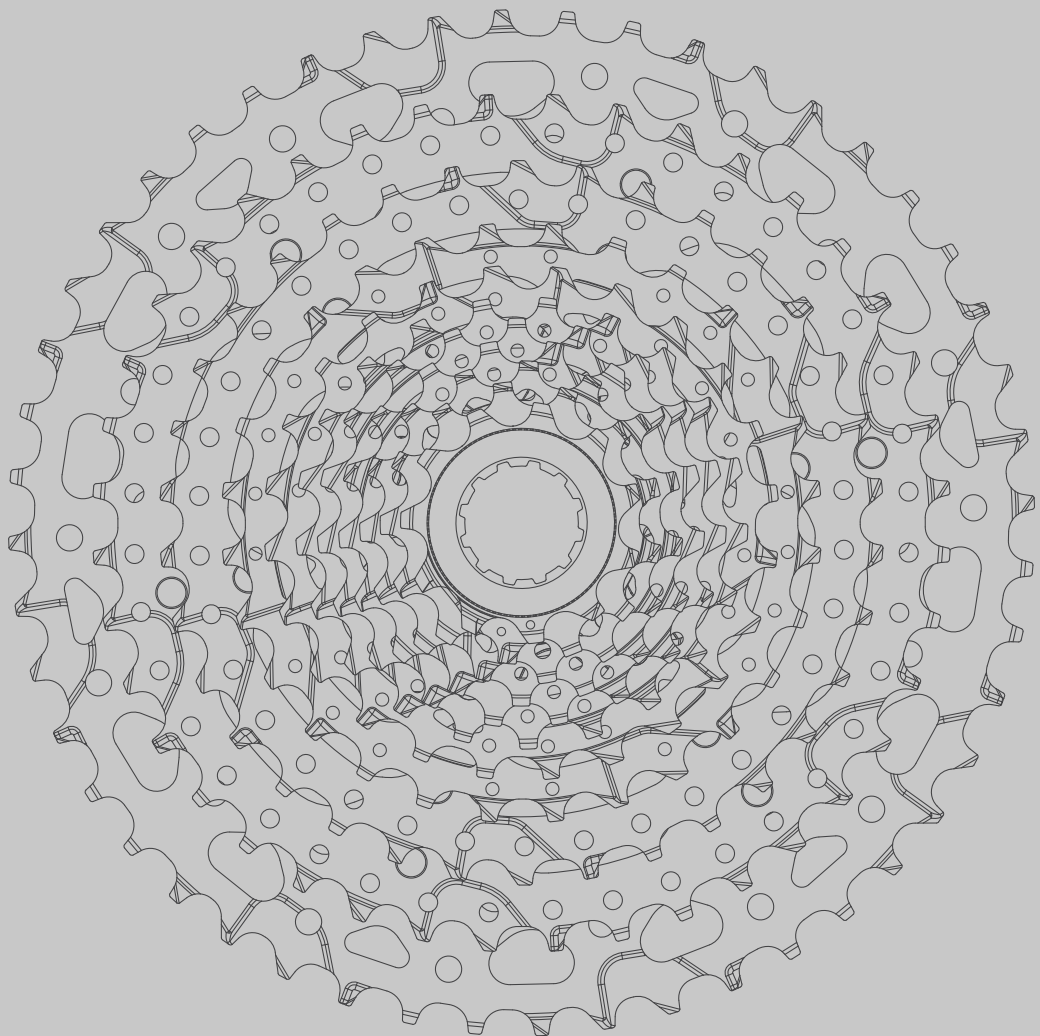


# microSHIFT

## Sword Cassette User Manual



†SWORD

# Important Notice

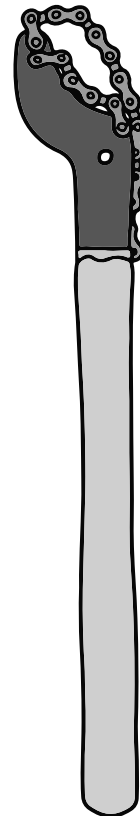
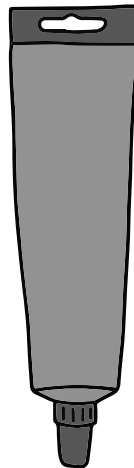
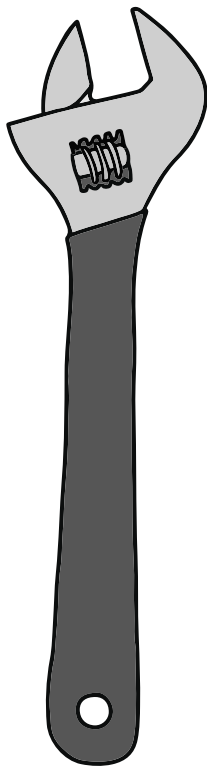


## REMINDER

Before installing the products, please read and understand the installation procedures. Improper installation can lead to premature product failures or even injuries. If you have any questions on how to install, please contact us or consult with a professional bicycle mechanic.

# Tools and Supplies

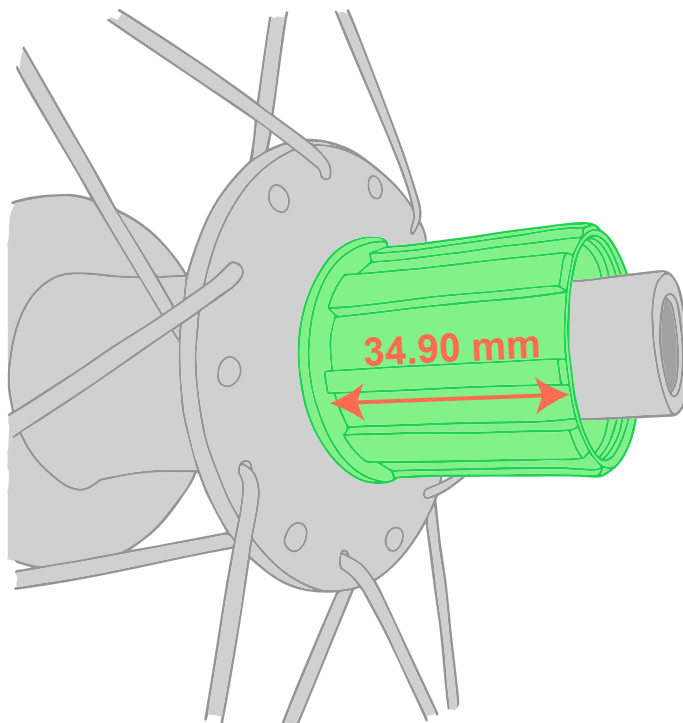
1. Large sized wrench or torque wrench
2. Cassette locking tool
3. Grease
4. Chain whip





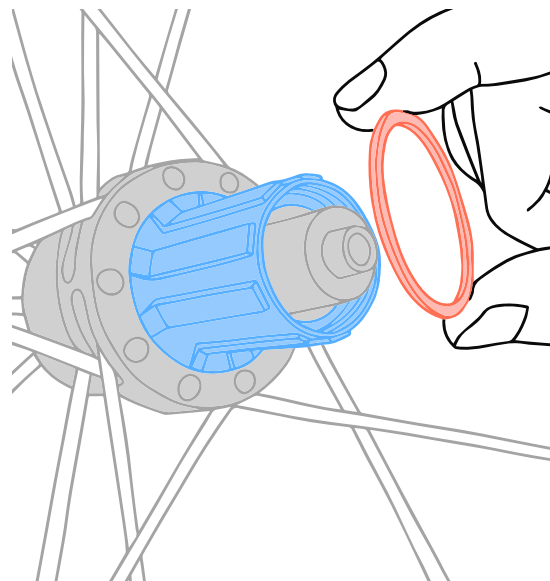
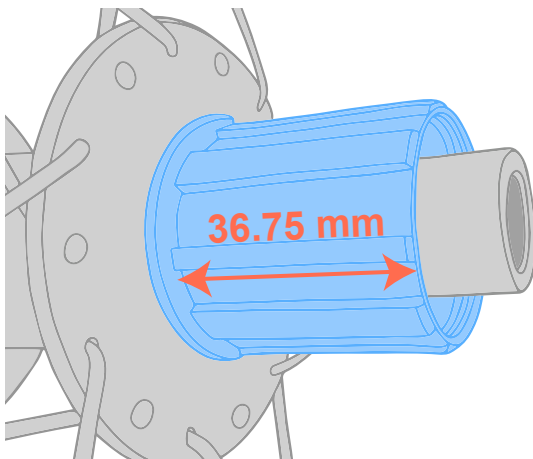
## Standard 8 / 9 / 10 Speed Freehub Body

The Sword cassette fits directly on a standard **8/9/10 speed HG freehub body** (length **34.90mm**).



## Road 11-Speed Freehub Body

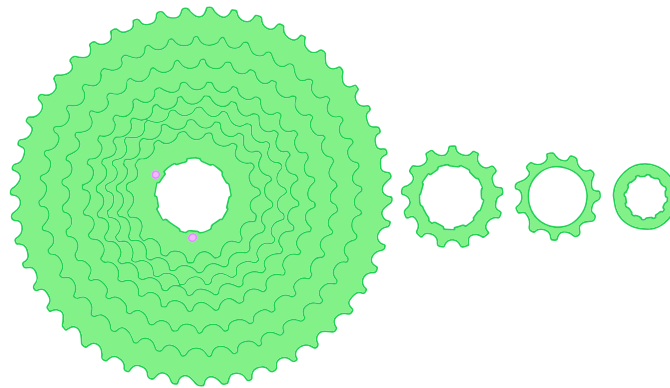
To install a Sword cassette on the newer **11 speed road HG freehub body** (length **36.75mm**), first slide a **1.85mm spacer** onto the freehub before installing the cassette.



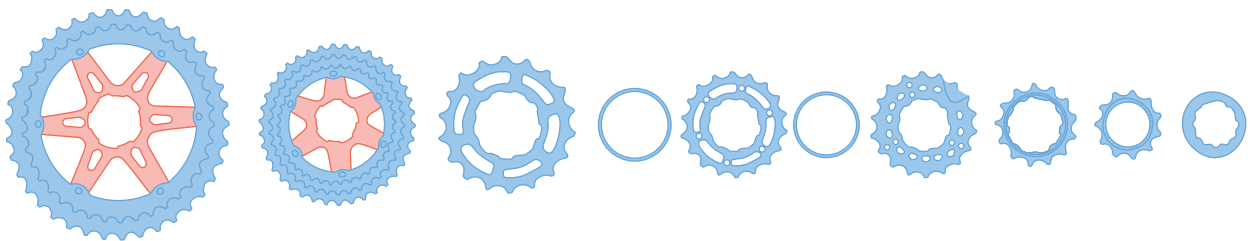
# Sword Cassette Installation

Part III

Sword **H-series** cassettes use 8 individual steel cogs connected with two or three **pins** and individual 13t and 11t cogs for easy installation.



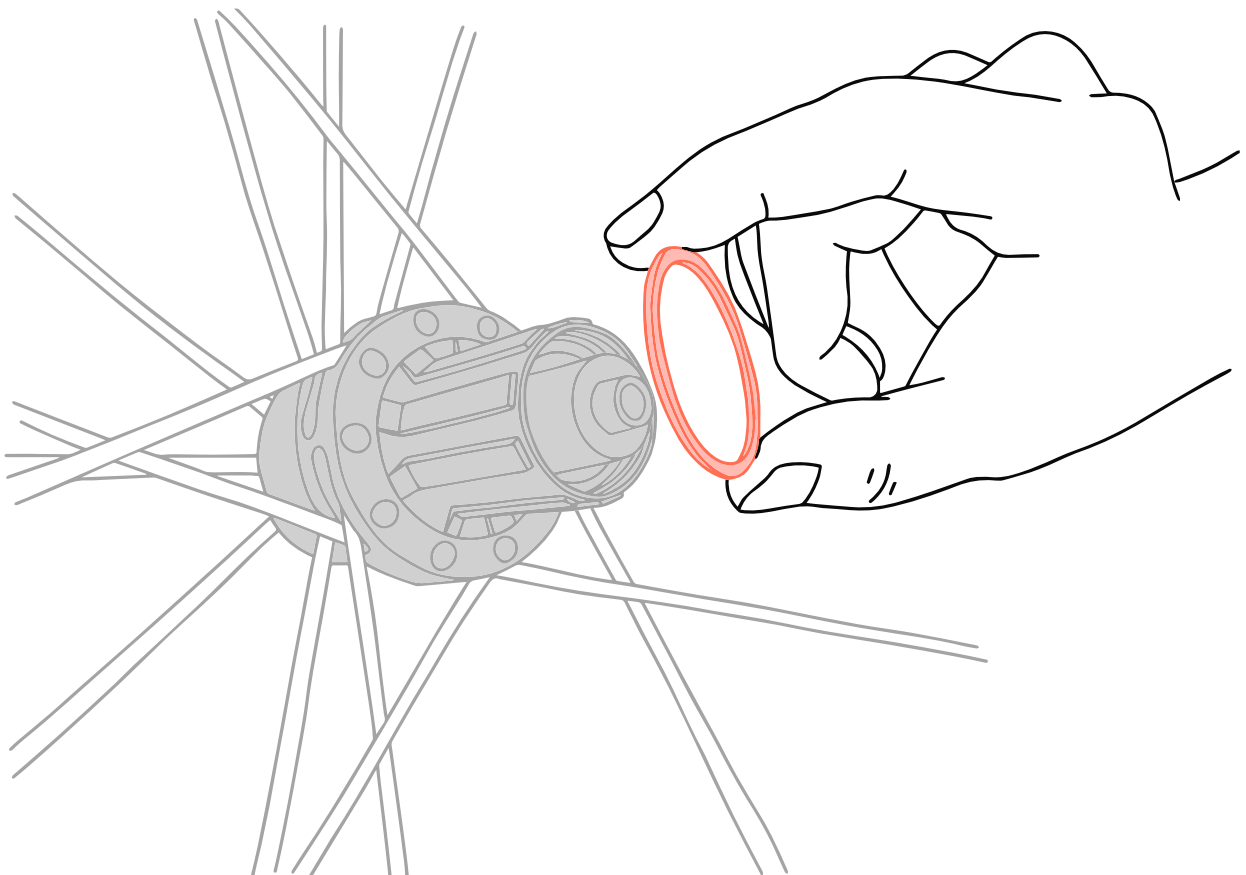
Sword **G-Series** cassettes use two **aluminum spiders** to mount the largest 5 cogs, with smaller cogs and spacers installed individually.





## 11-Speed Road Freehub Body Only

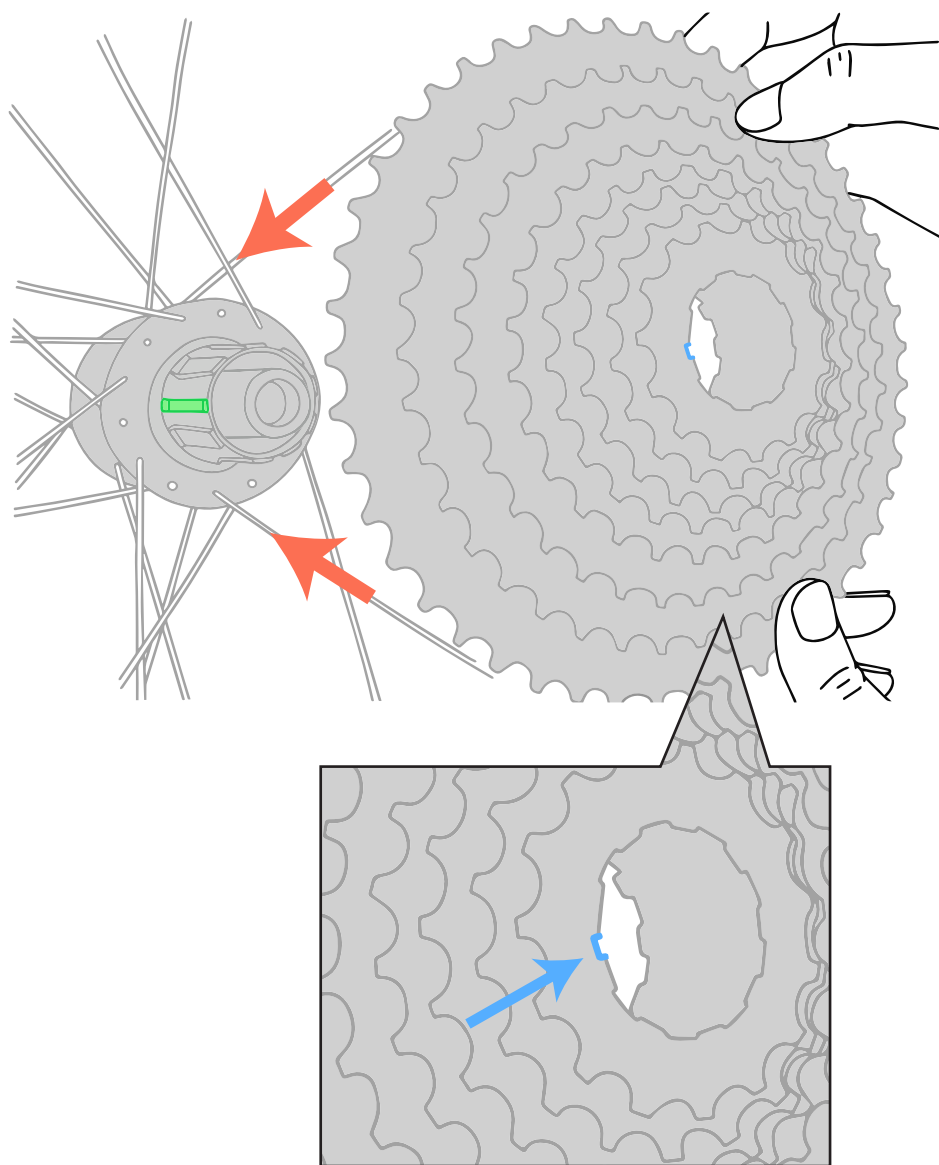
To install the Sword cassette on the wider 11-speed road freehub body, slot in a **1.85 mm cassette spacer** before you install the cassette.



# Cassette Installation

Part I

Align the **small spline** on the freehub body with the **small spline recess** on each cassette component, then slide on each component in order as shown in the **Installation Order** section of this manual.

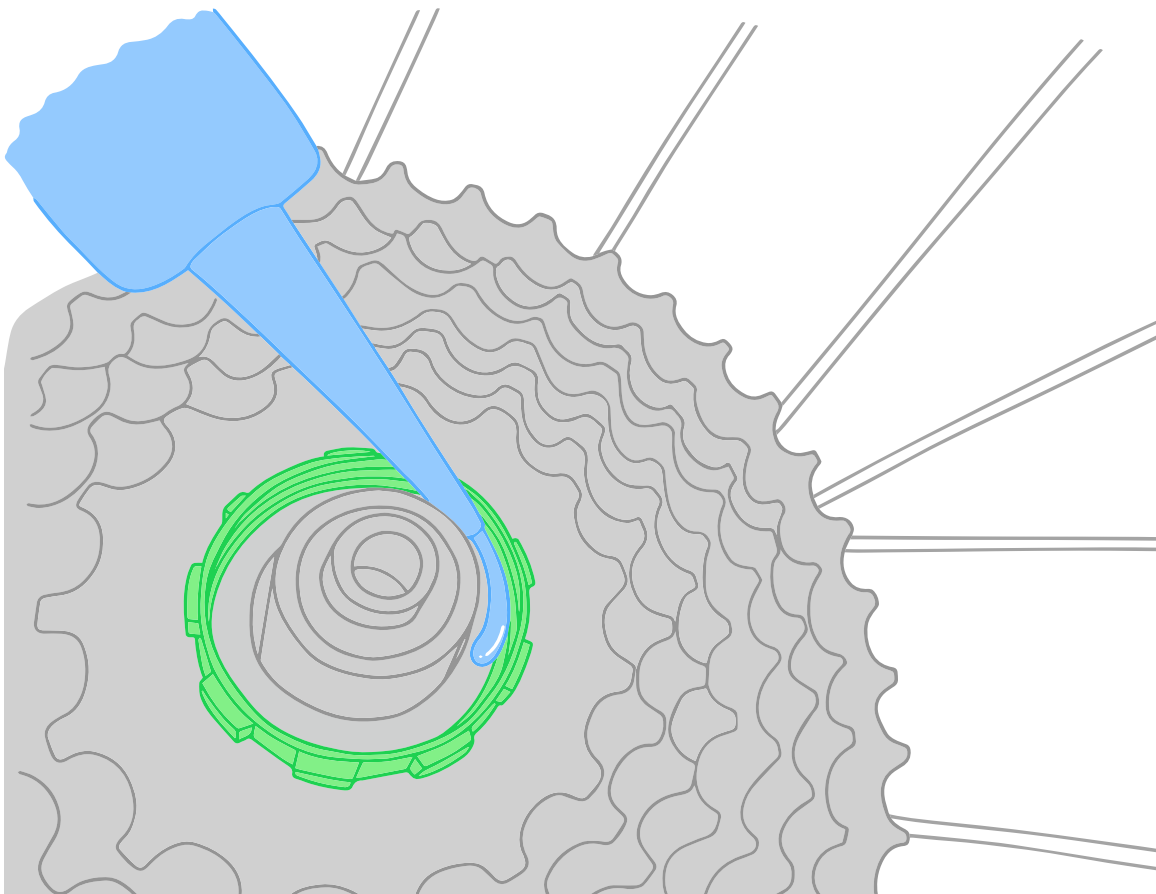




# Lockring Installation

Part I

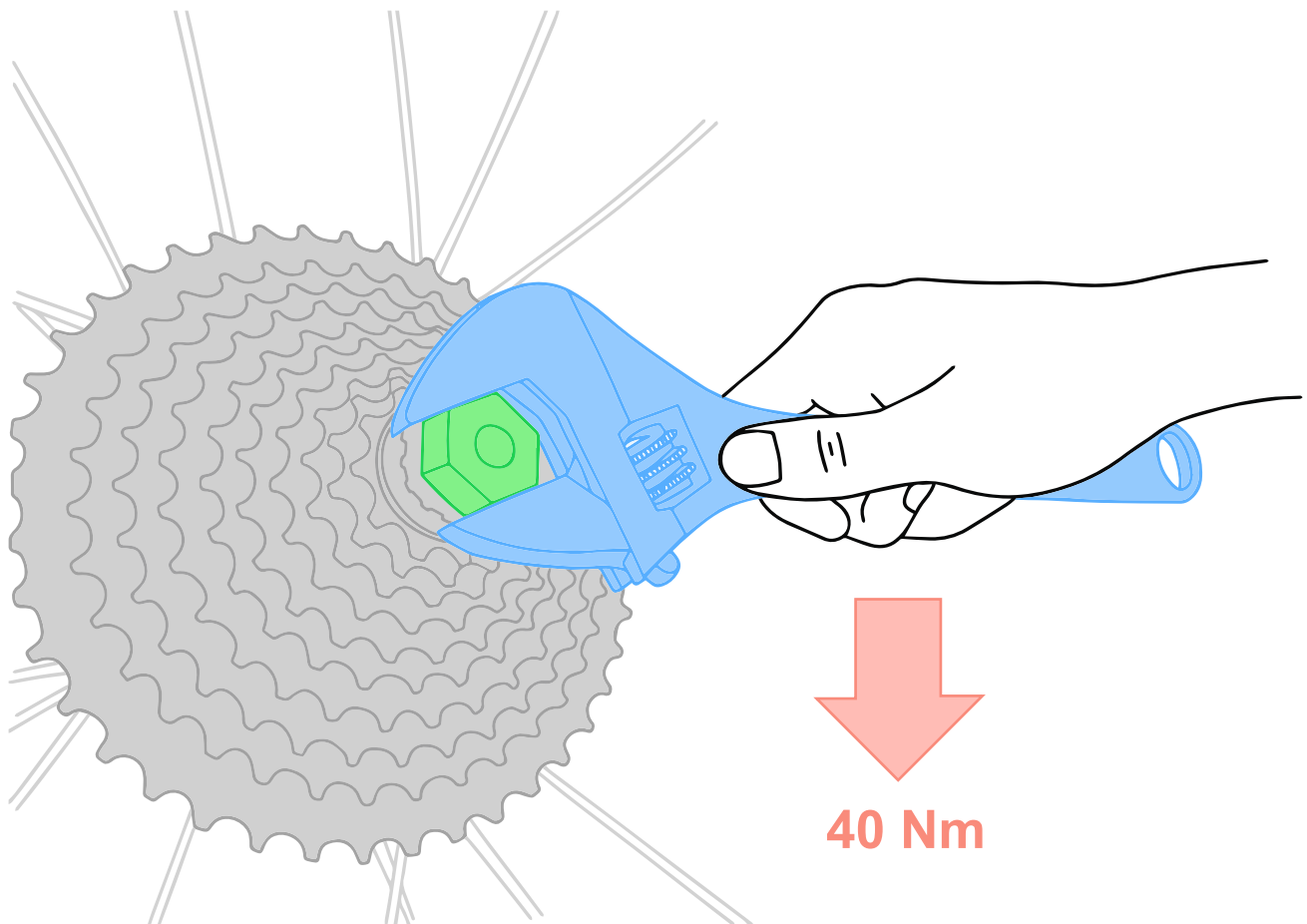
Apply **grease** to the **lockring thread** on the inside of the freehub body.



# Lockring Installation

Part II

Thread on the lockring using a **lockring tool** and a **large sized wrench**. Tighten the lockring to **40 Nm**.

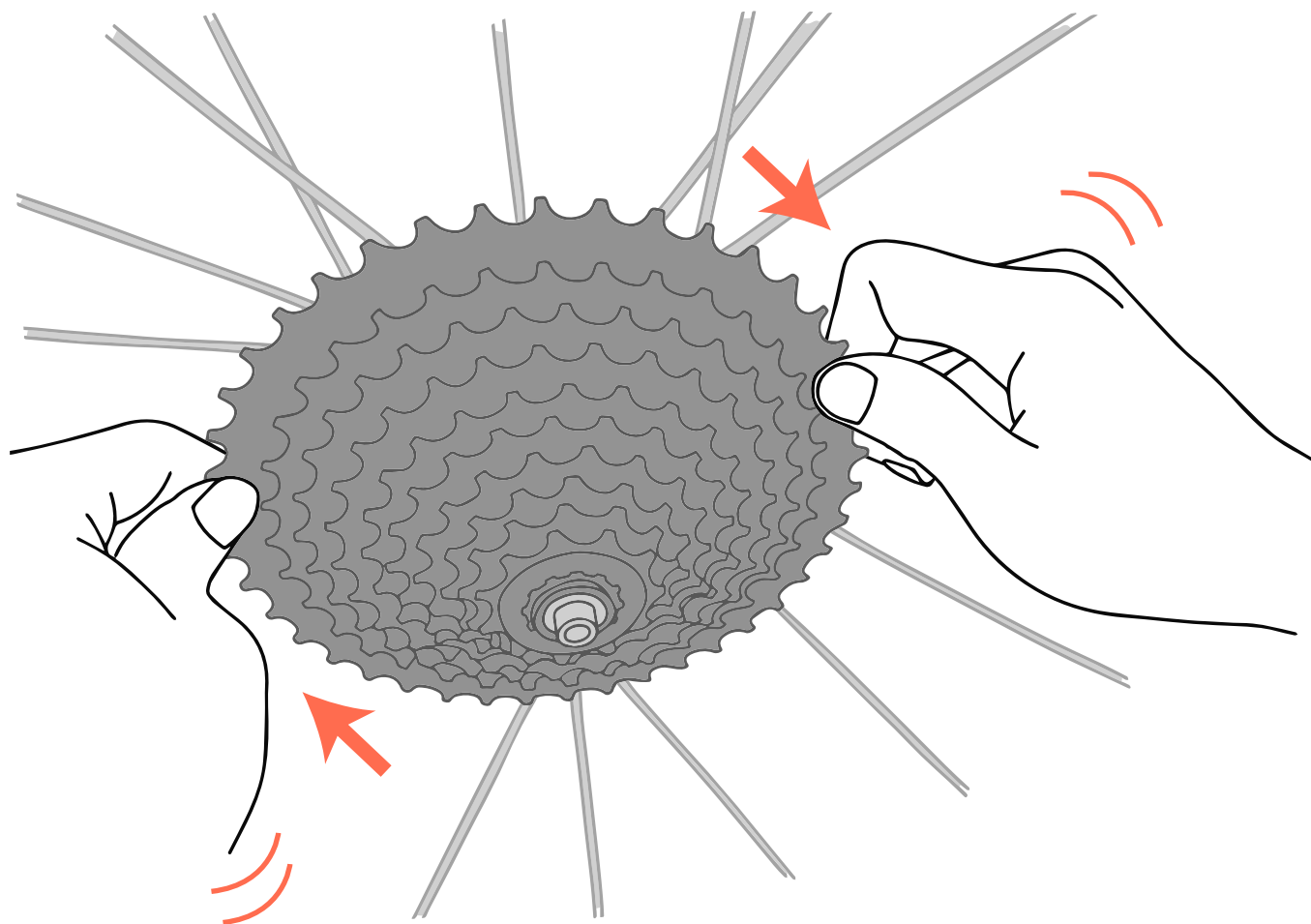


## Check for Cassette Free Play

Part I

There should be no free play in the cassette cogs after the lock ring is tightened.

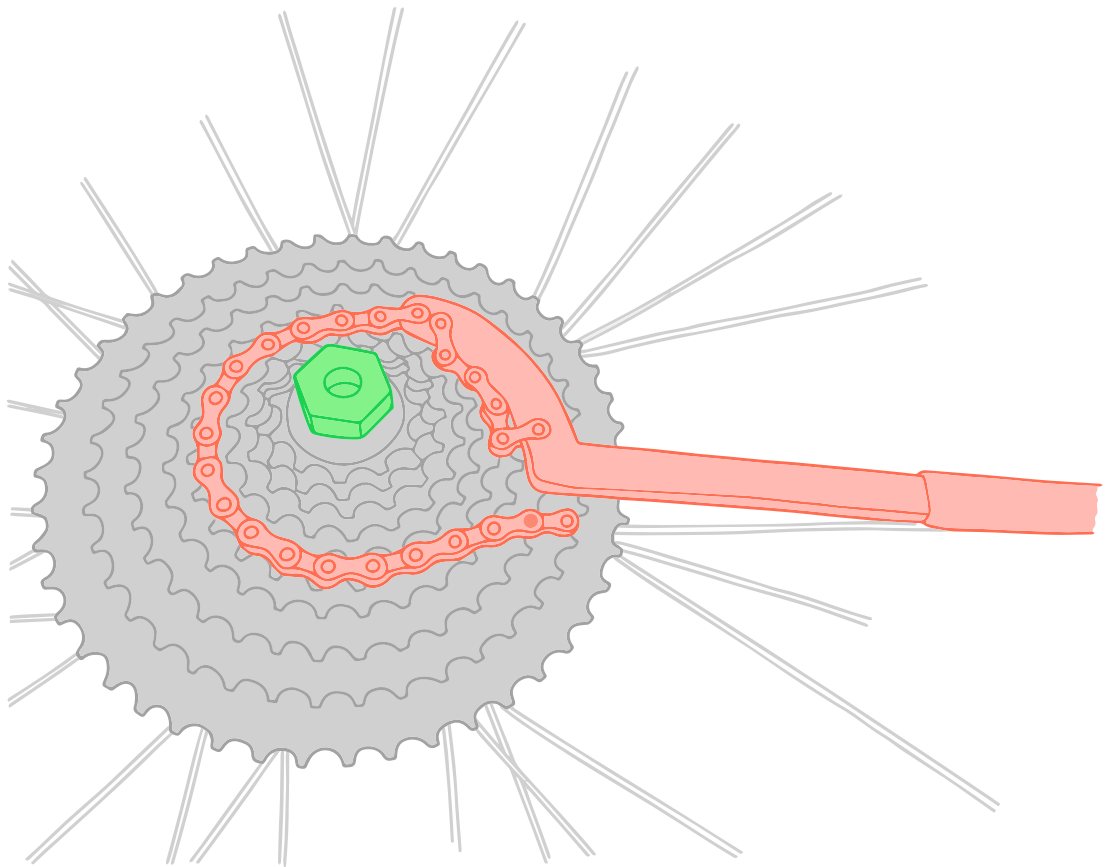
If there is play, double check the **Installation Order** of the cassette. Make sure the correct spacers and cassette components are installed.



# Loosening the Lockring

Part I

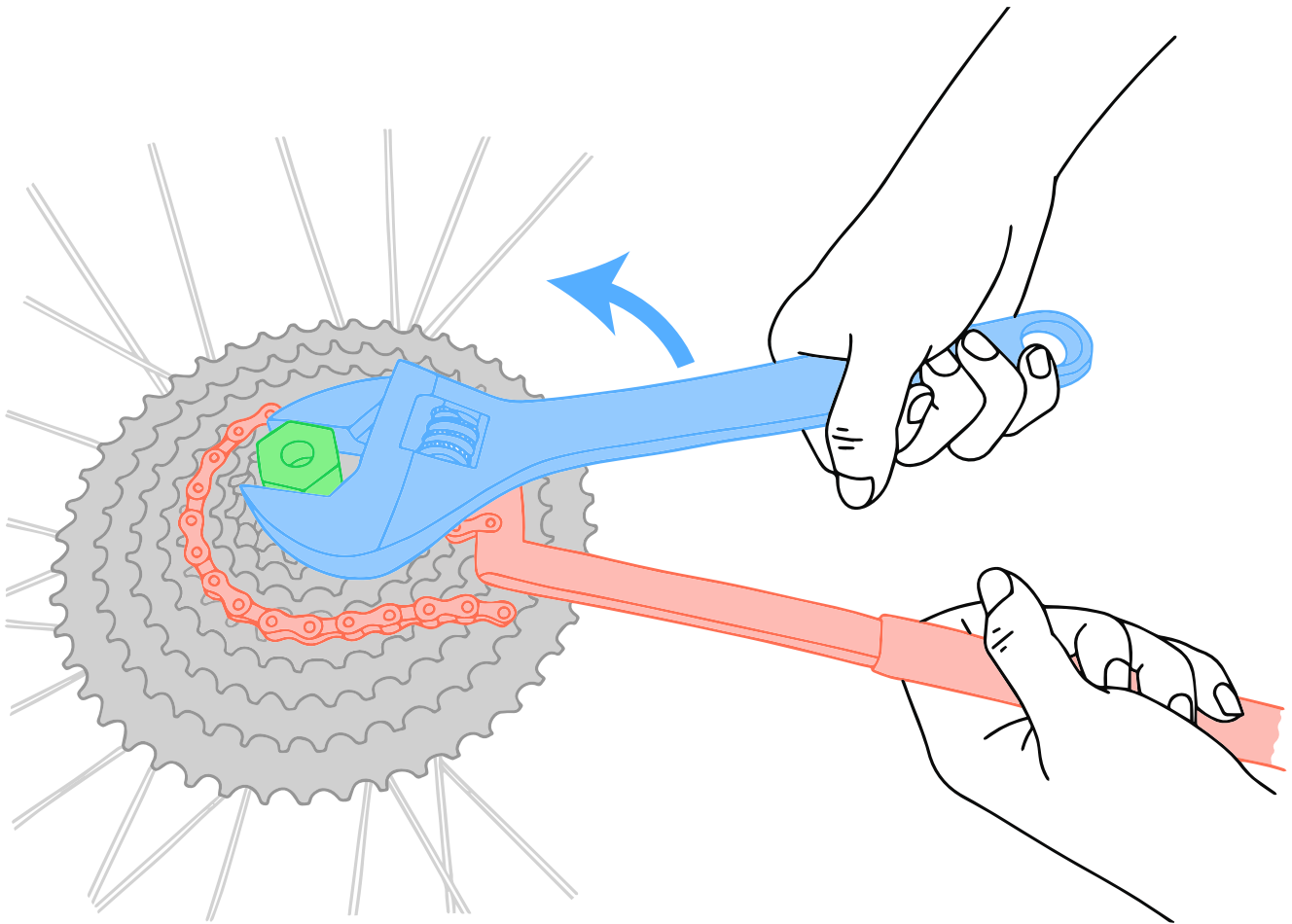
Begin by placing a **chain whip** on the cassette cog. Place the **cassette lockring tool** into the lockring.



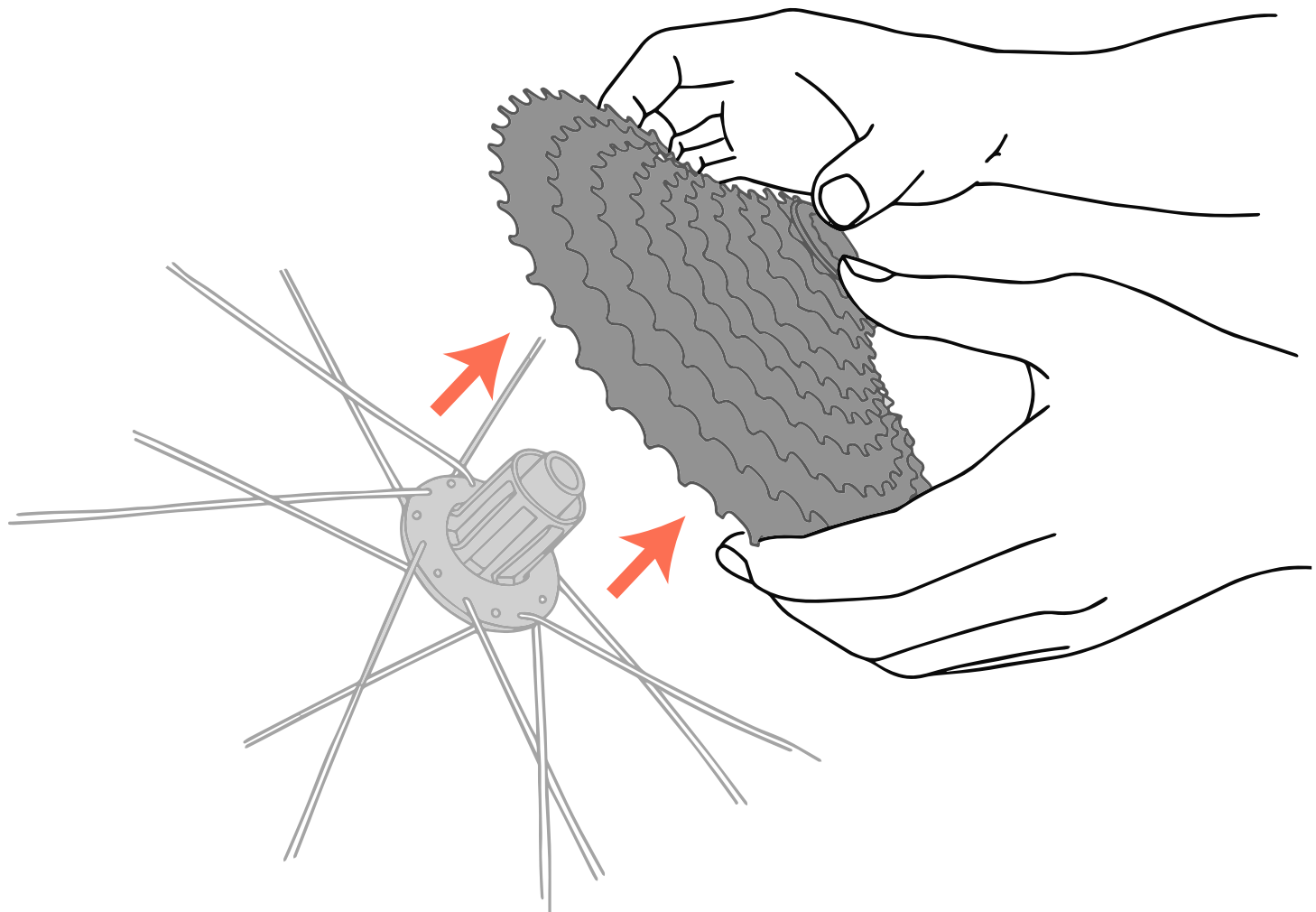
# Loosening the Lockring

Part II

While hold the cassette in place with the **chain whip**, turn the **lockring tool** counter-clockwise with a **wrench**.



Once the lock ring is removed, pull the cassette away from the hub.



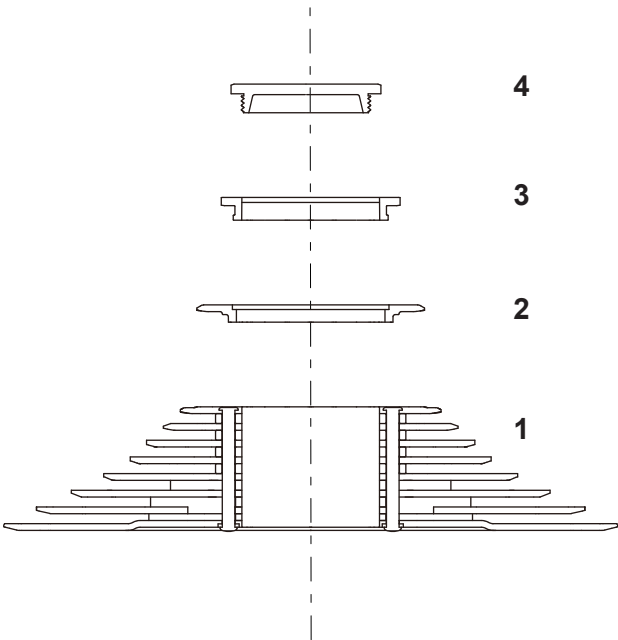
# Sword Cassette Installation Order

Part I

**Models:**

CS-H105 11-38

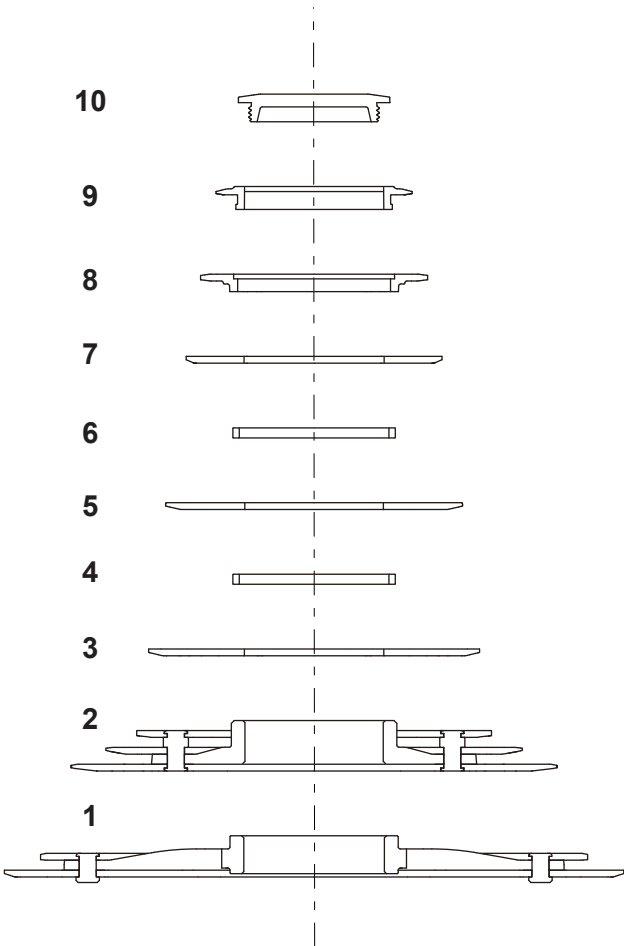
↑ Installation Order ↓



**Models:**

CS-G105 11-38

↑ Installation Order ↓



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