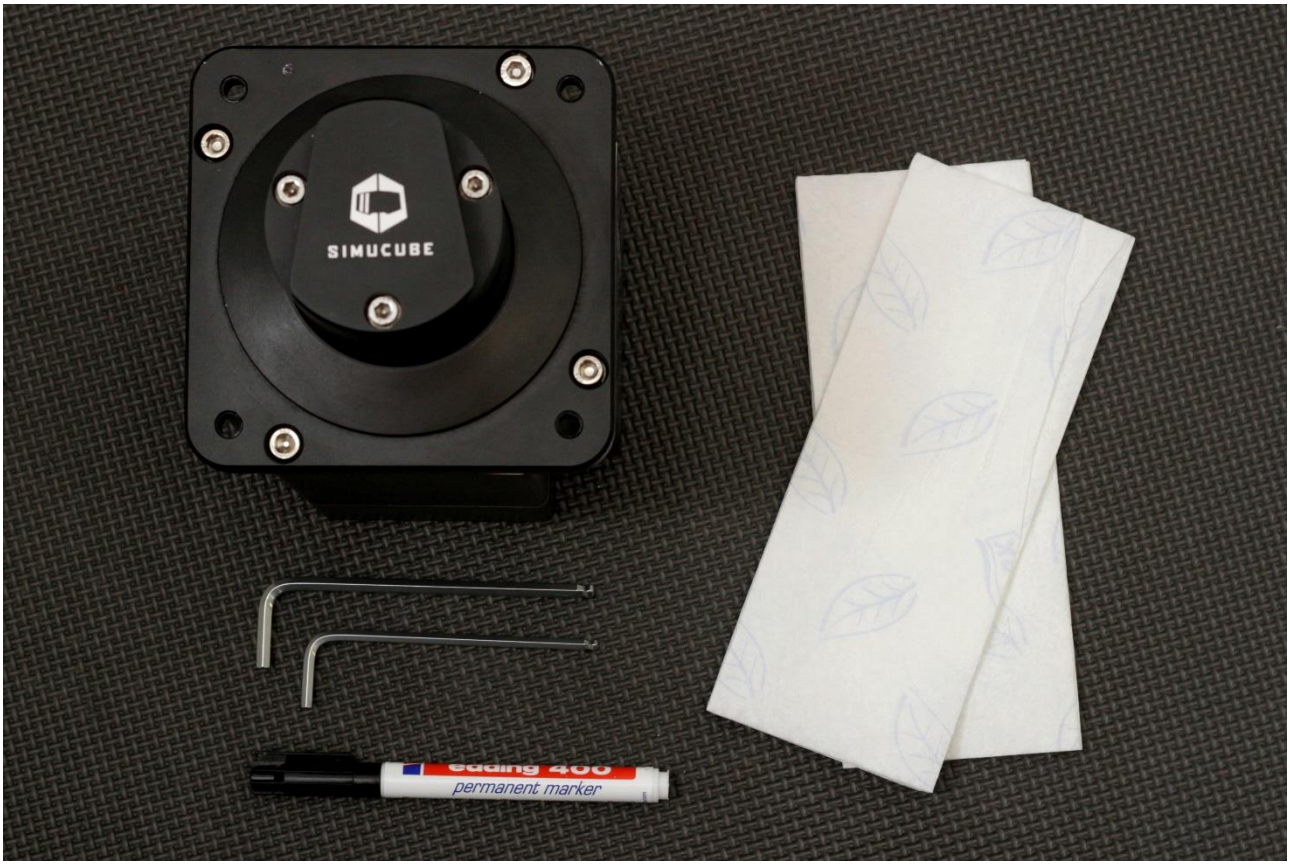
Checking tightness of Simucube Quick Release system

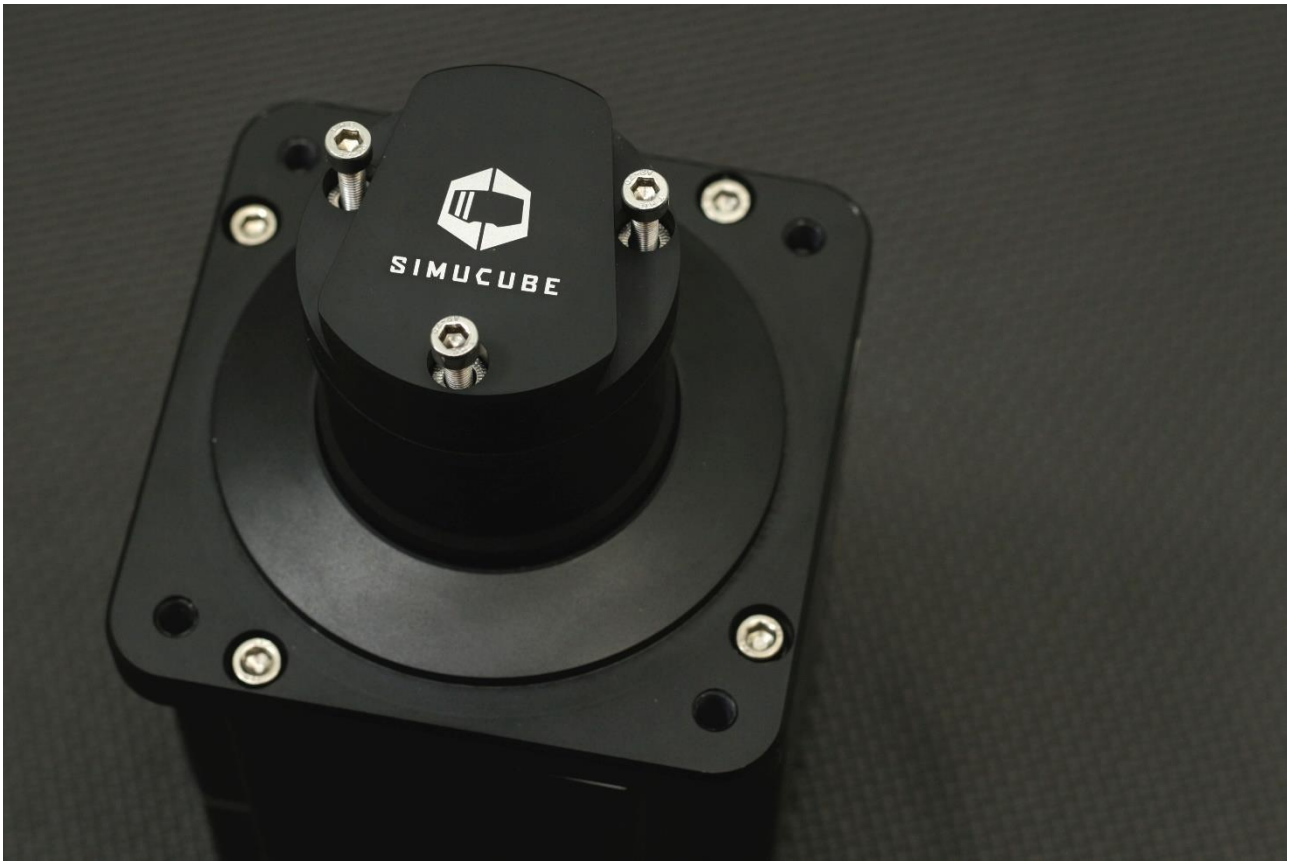
Some Simucube 2 users have asked how to tighten Simucube Quick Release system (SQR). This document describes the process of ensuring tightness of SQR attached to a Simucube 2. Follow this document if you have encountered an issue where SQR slips around Simucube 2 motor shaft or if you need help in disassembling or assembling SQR.

The following materials are needed:

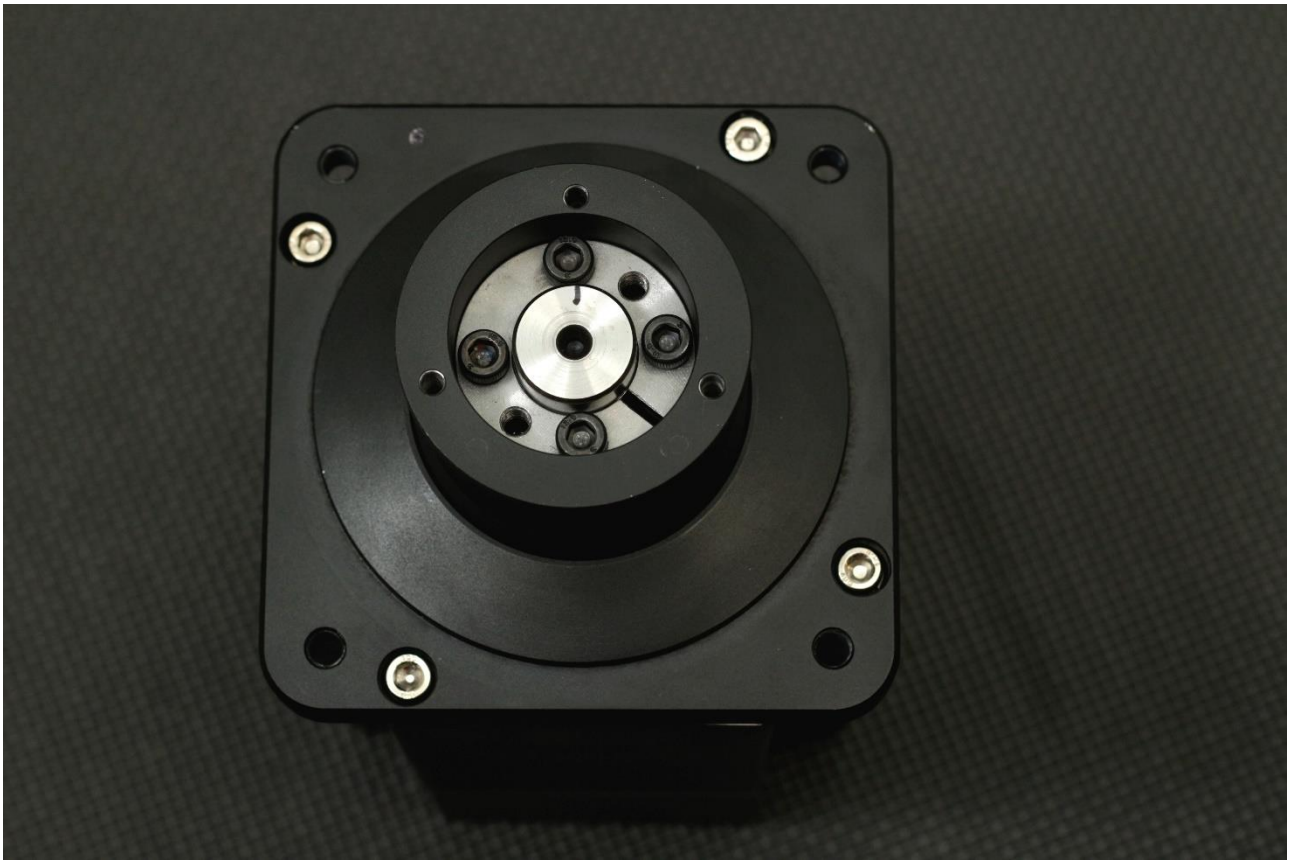
- 4 and 5 mm hex keys
- paper towels
- marker (optional)



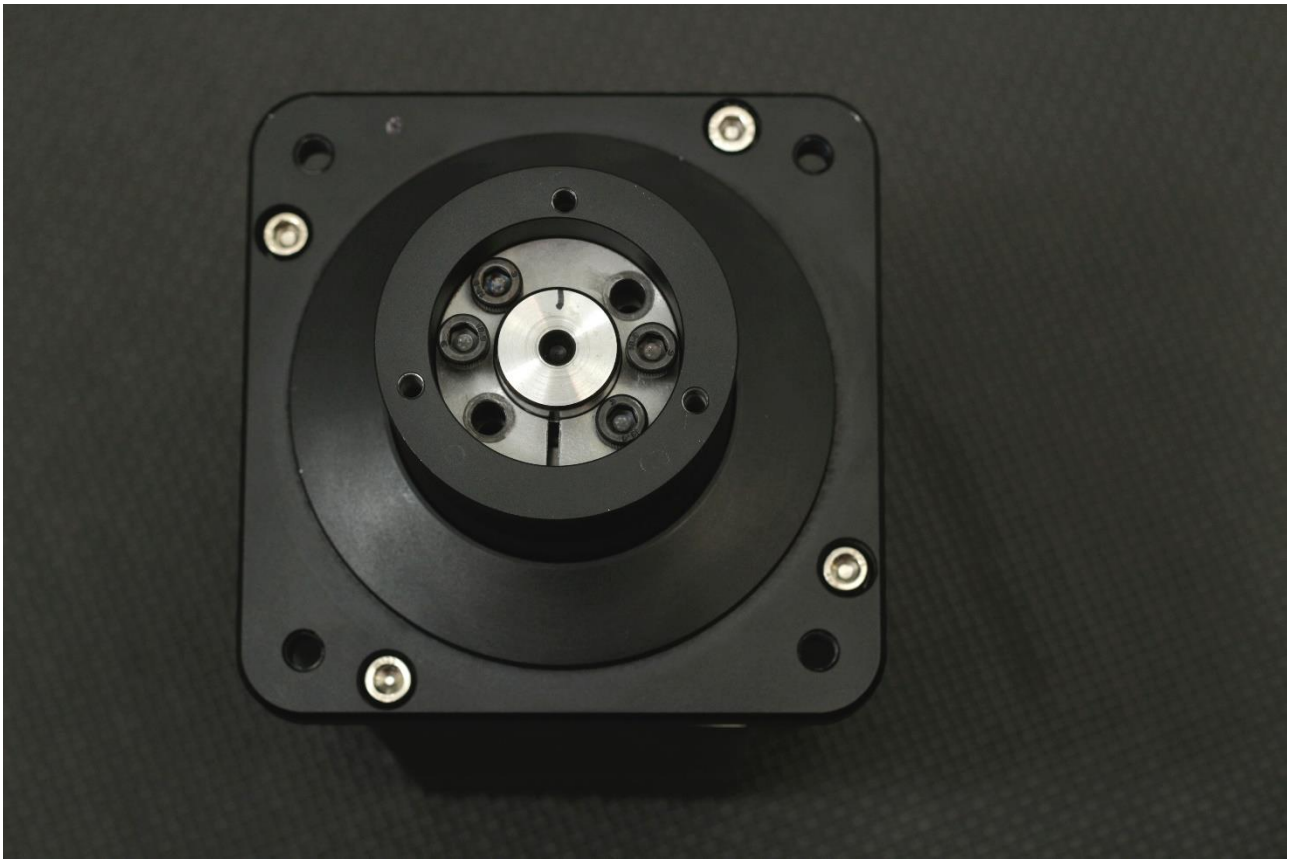
Open the three bolts on the top of SQR and remove the top part.



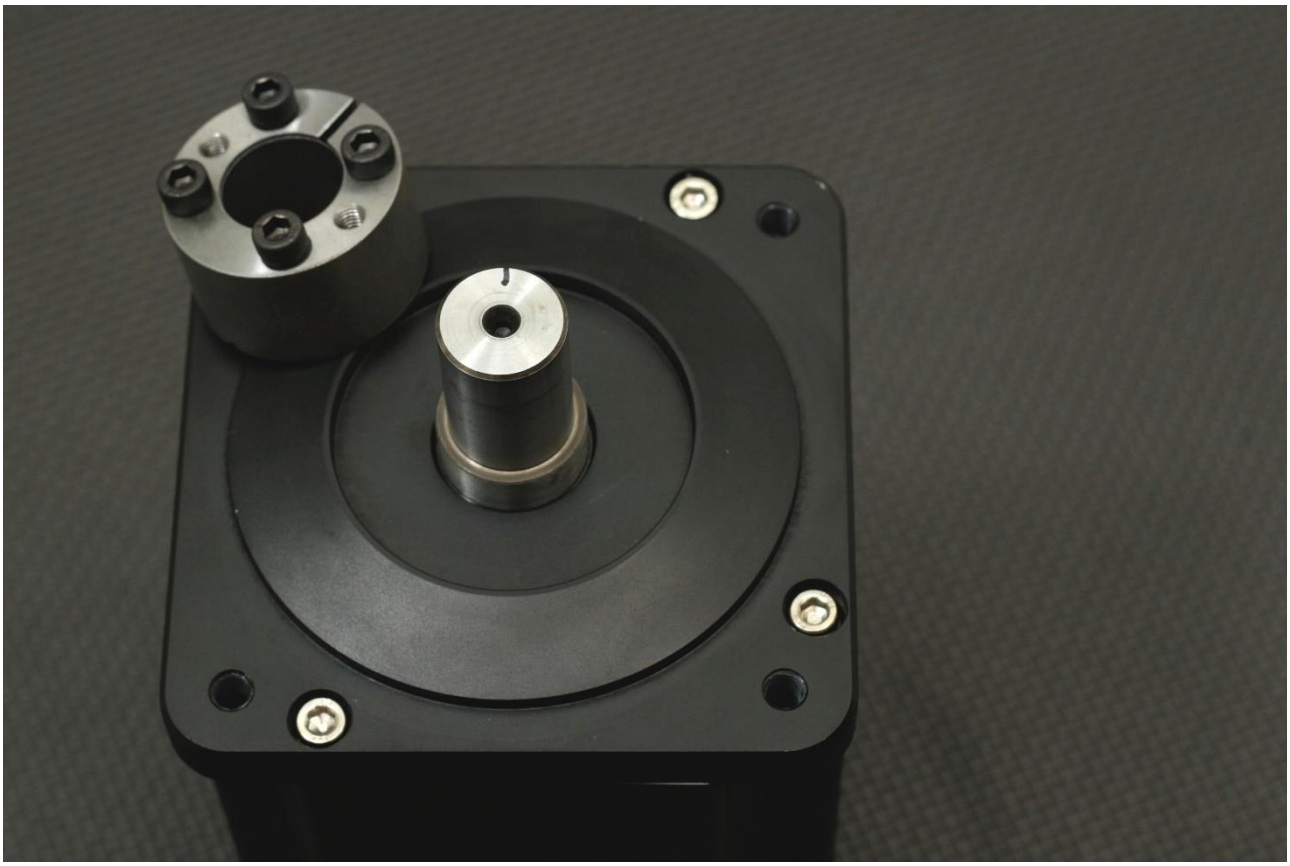
If you don’t want to lose the SQR position, draw some markings to remember the SQR position related to the motor shaft.



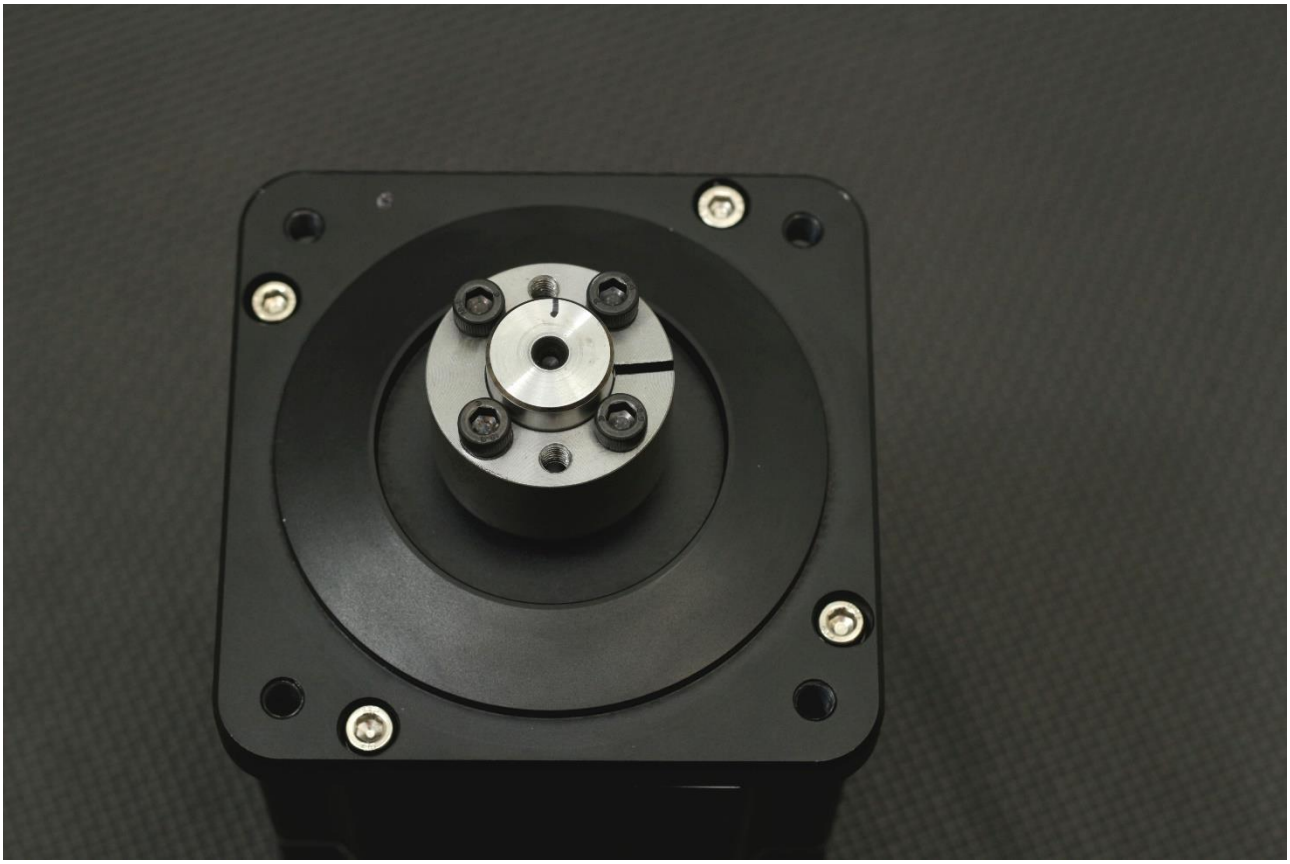
Open the four cone clamp bolts and remove the cone clamp and the SQR outer tube. If the cone clamp can’t be removed after opening the four bolts, it can be opened by screwing one or two cone clamp bolts to the two empty threaded holes.



Clean the motor shaft and the cone clamp from possible grease with a dry paper towel.

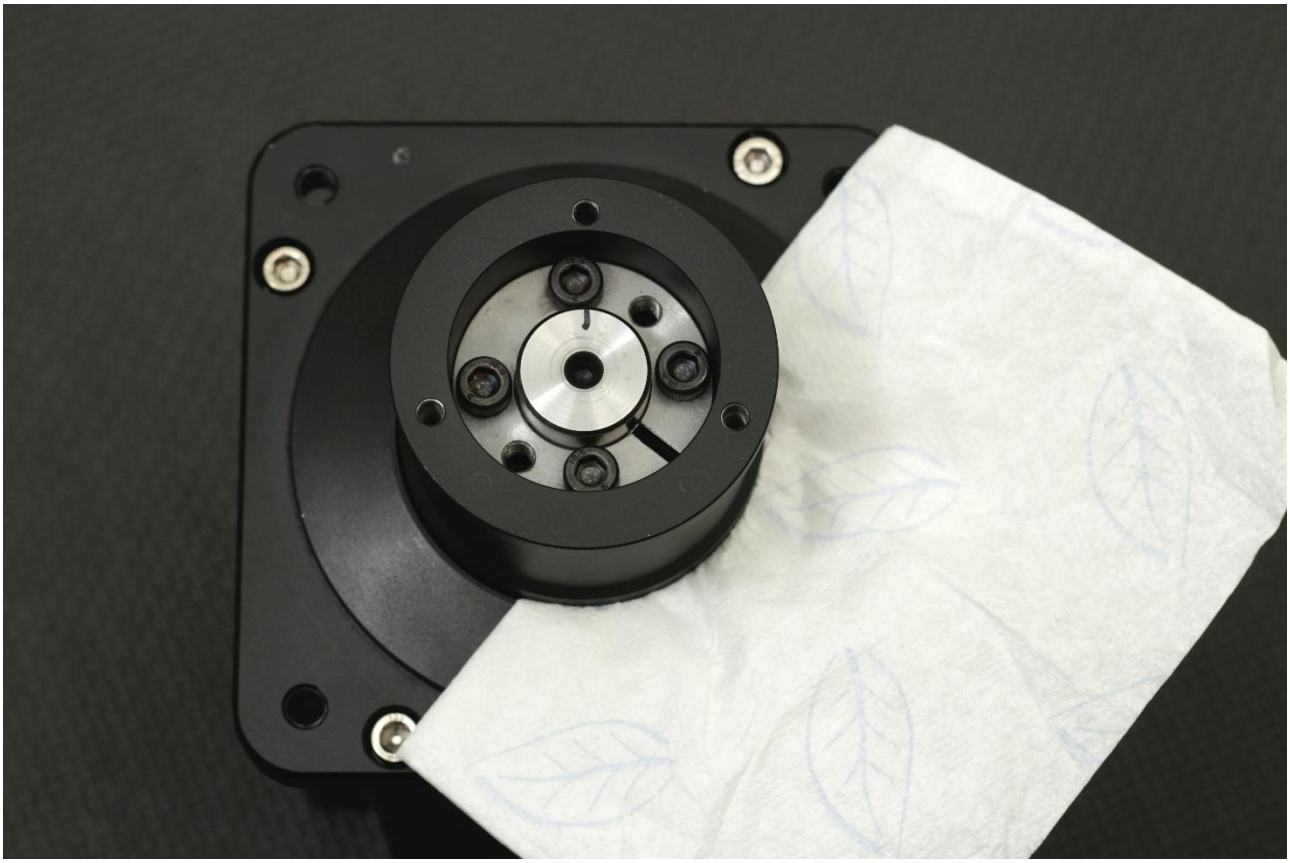


Insert the cone clamp around the motor shaft again.



Insert a paper towel or any suitable thin and soft sheet to prevent the SQR outer tube touching the motor front plate.

Insert the SQR outer tube around the cone clamp and the motor shaft. Tighten the four cone clamp bolts. Recommended tightening torque for these four bolts is 5-10 Nm.



Remove the paper towel, insert the Quick release top part and tighten its three bolts.