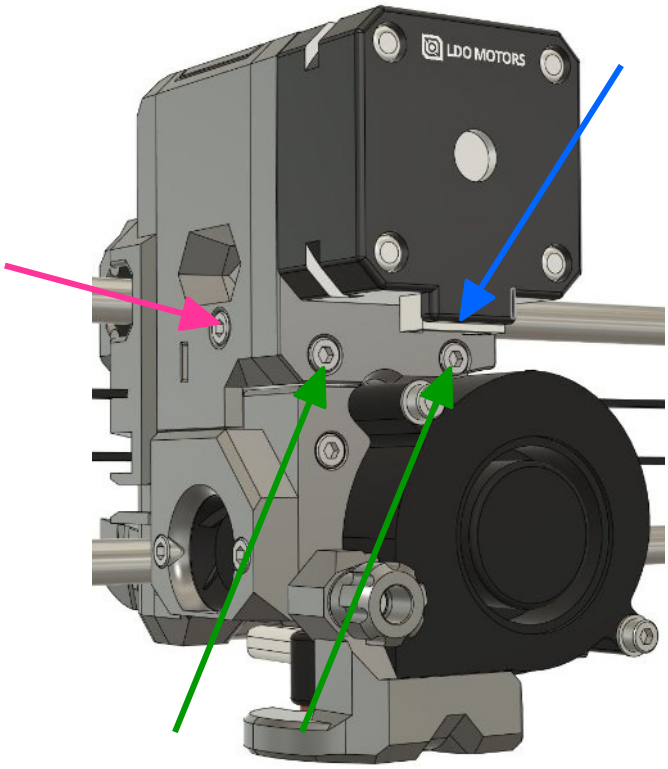
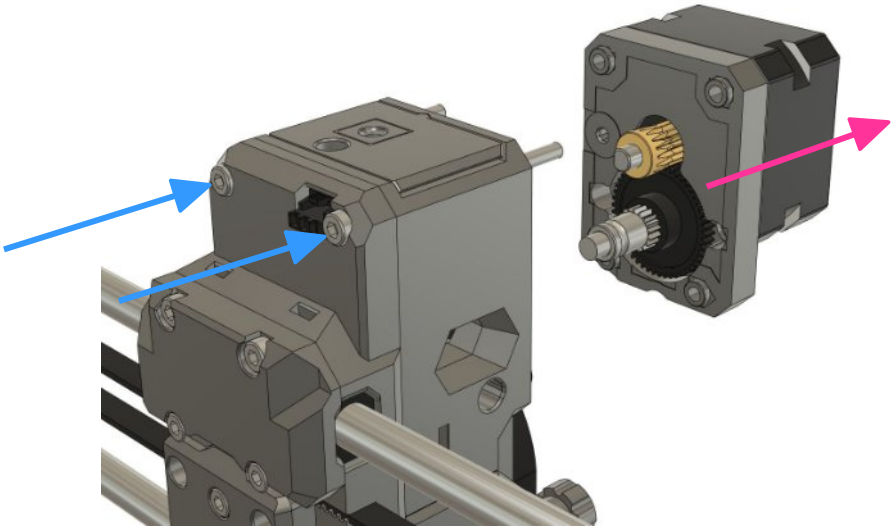
BearExxa V2 MMU2S Assembly Guide

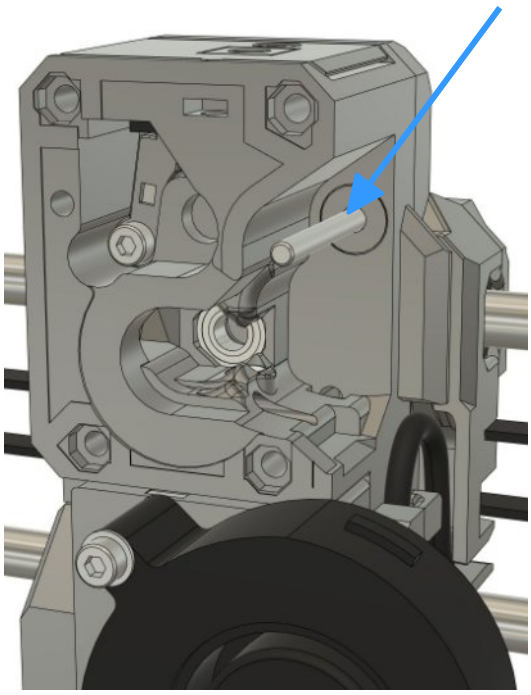
1. Disconnect the extruder motor cable as we will remove it temporarily. Then unscrew the M3x40 (with spring) of the tensioner and the two M3x30 of the motor plate



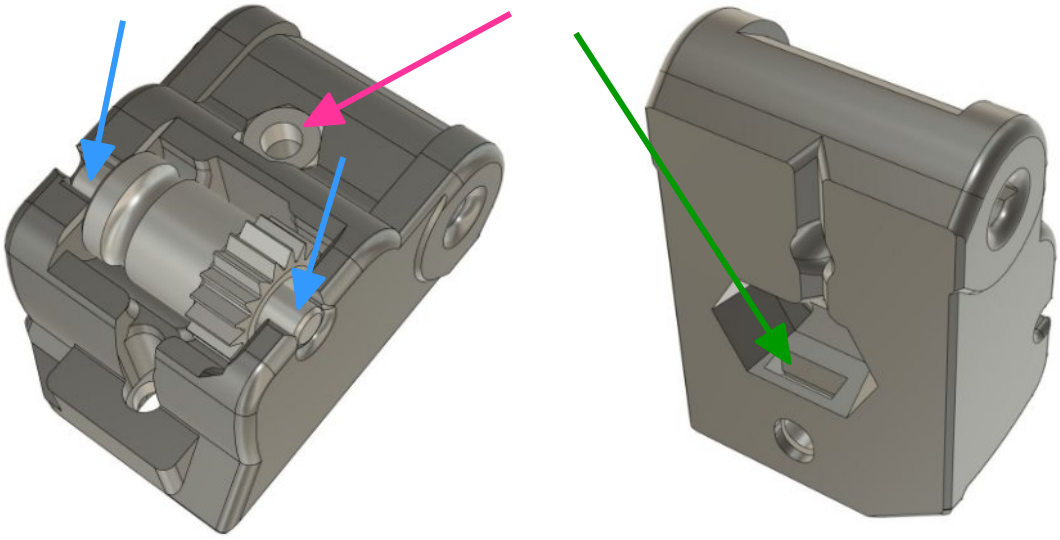
2. Release the two M3x50 screw and remove the motor with the plate and gears



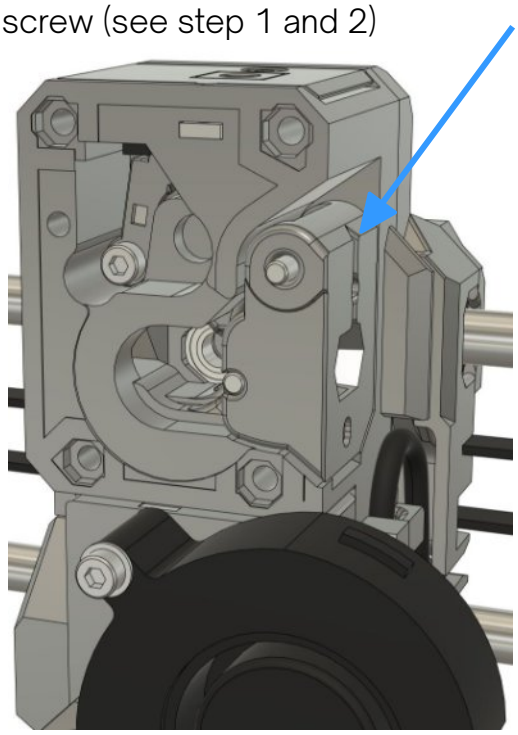
3. Remove the standard e_tensioner



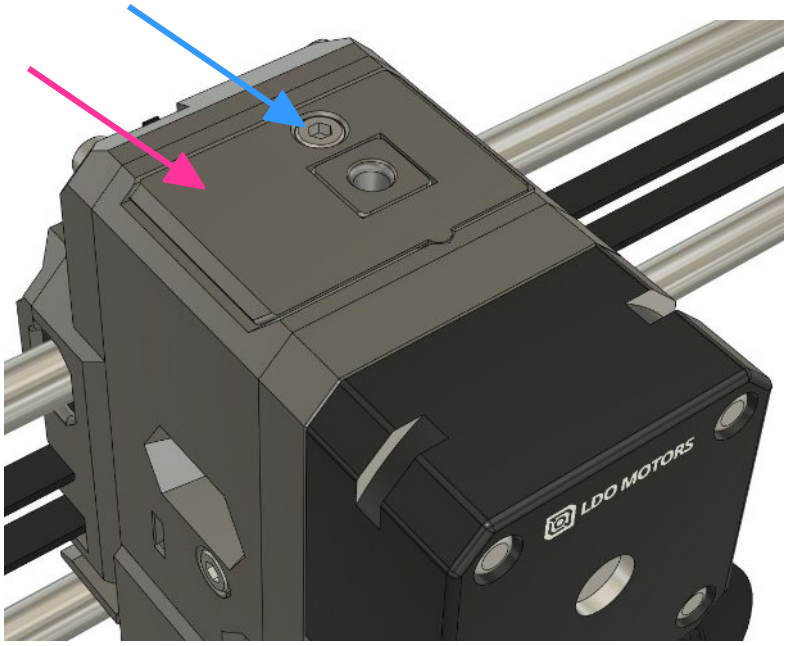
4. Swap the shaft with bearings and Bondtech gears from the standard e_tensioner to the e_tensioner_mmu2s (do not press on the Bondtech gear to insert it but on both side of the shaft). Insert one M3 hex nut. Then insert the M3 square nut from the other side



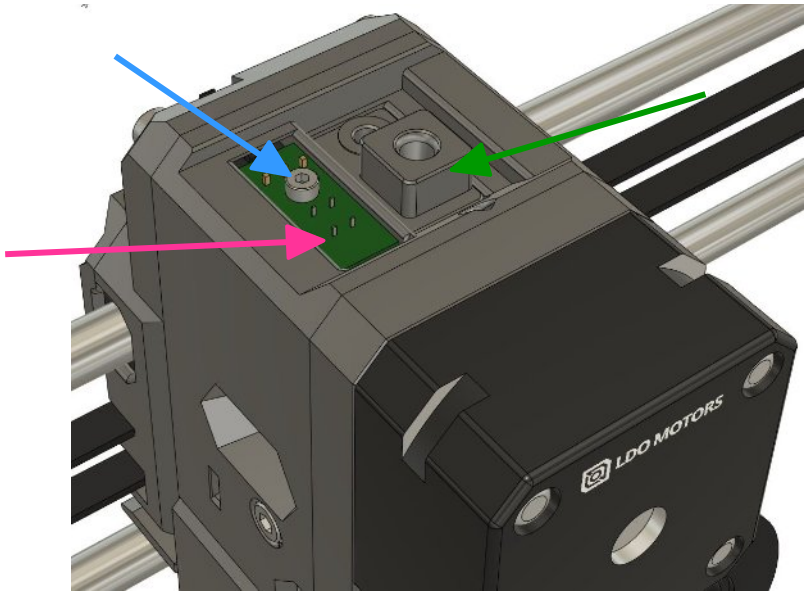
5. Install the new e_tensioner_mmu2s on the extruder body and screw back the motor and the tensioner screw (see step 1 and 2)



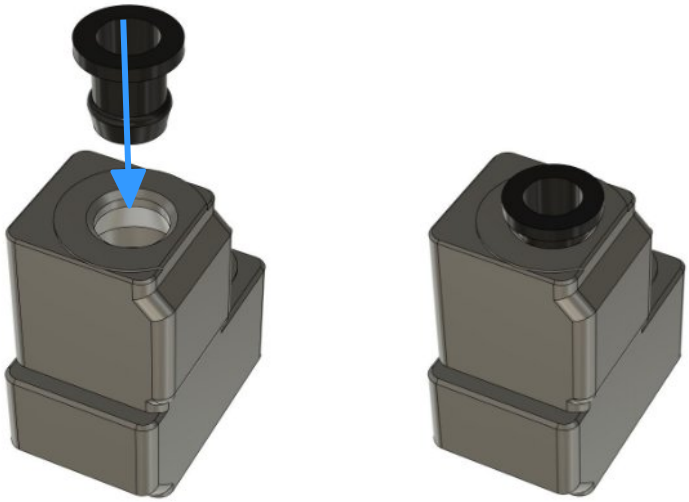
6. Unscrew the M3x18 and remove the e_fs_cover



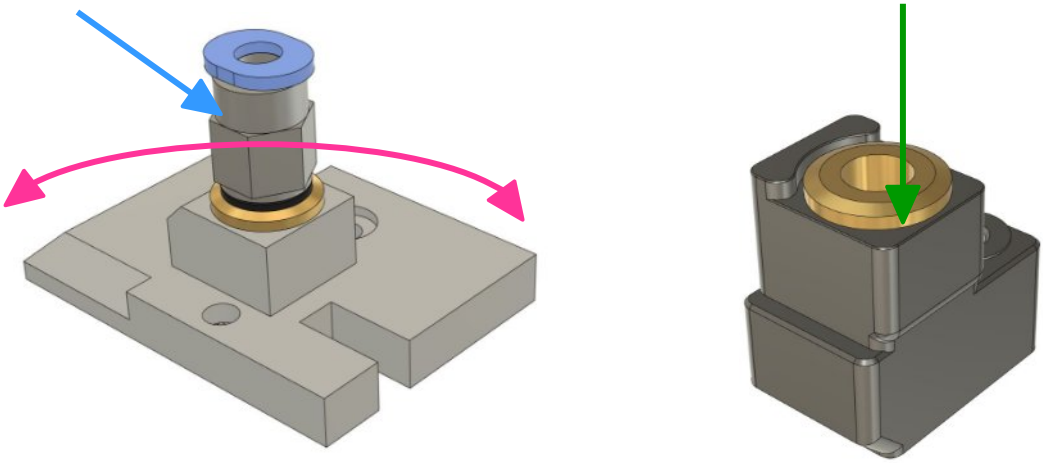
7. Unscrew the M2x12 and remove the filament sensor. Remove the e_fs_adapter as well (be careful with the metal ball inside).



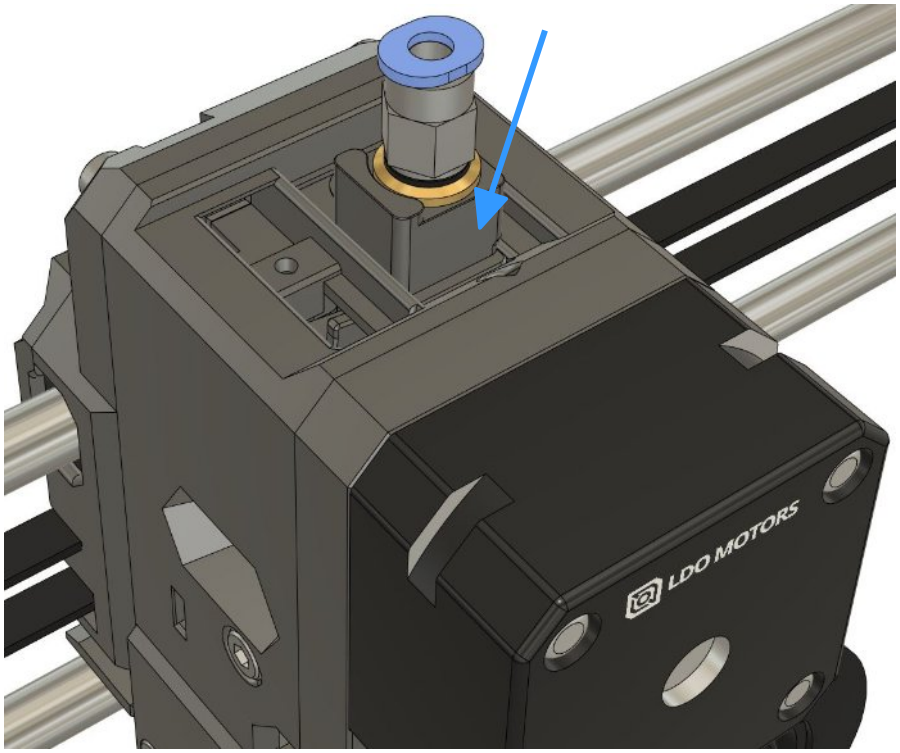
8. If you are using the PTFE mount option 2 with the E3D collet (e_fs_adapter_mmu2s_e3d) then install the collet in the part. After this, skip the next step and go directly to step 10



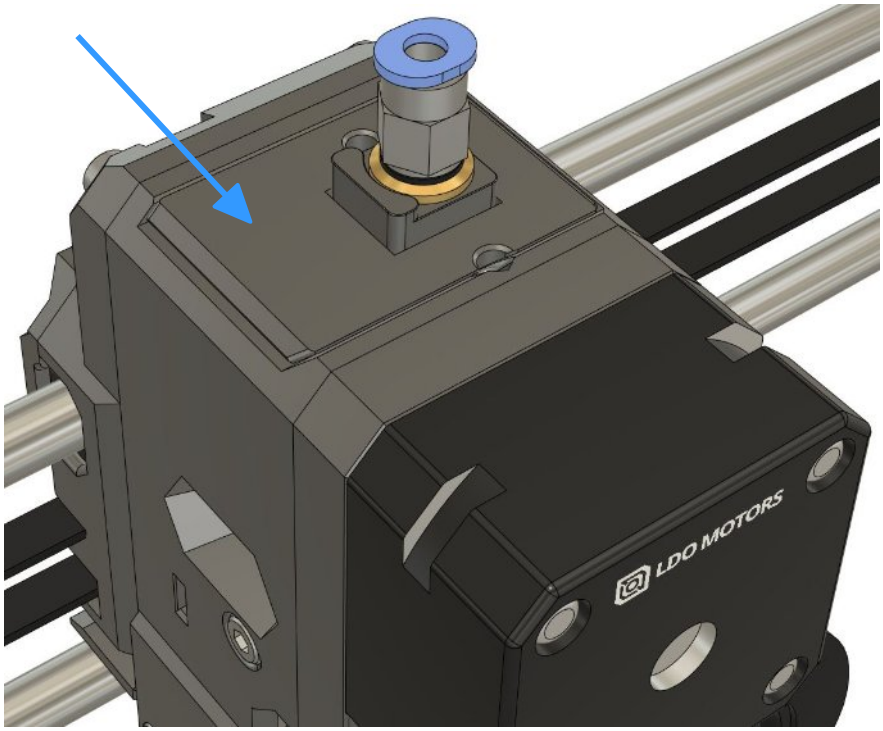
9. If you are using the PTFE mount option 1 with the Prusa hardware, then first screw the Festo coupler into the Prusa part. To remove the brass insert, use the Festo coupler as a lever and force it to the sides, repeat until the insert gets loose. Then unscrew the Festo coupler and press the brass insert in the e_fs_adapter_mmu2s_prusa with a vice or a plier wrench.



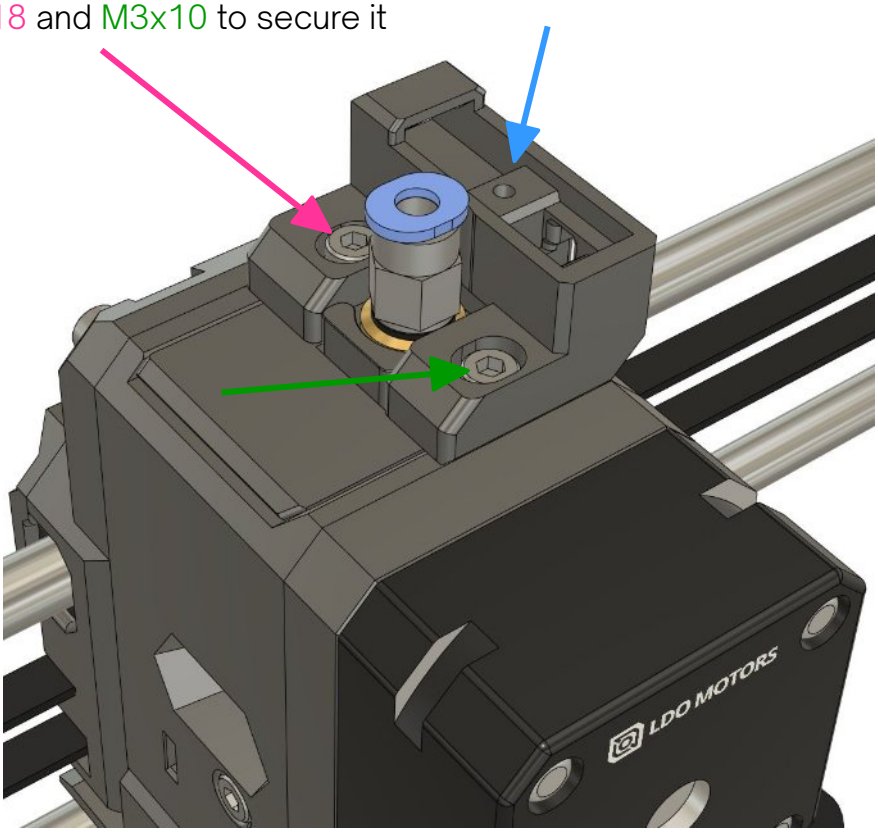
10. Insert the e_fs_adapter_mmu2s_xxx inside the extruder body (we use the option 1 Prusa as example). You do not need to care of the little lever previously used for the filament sensor, the adapter has space for it)



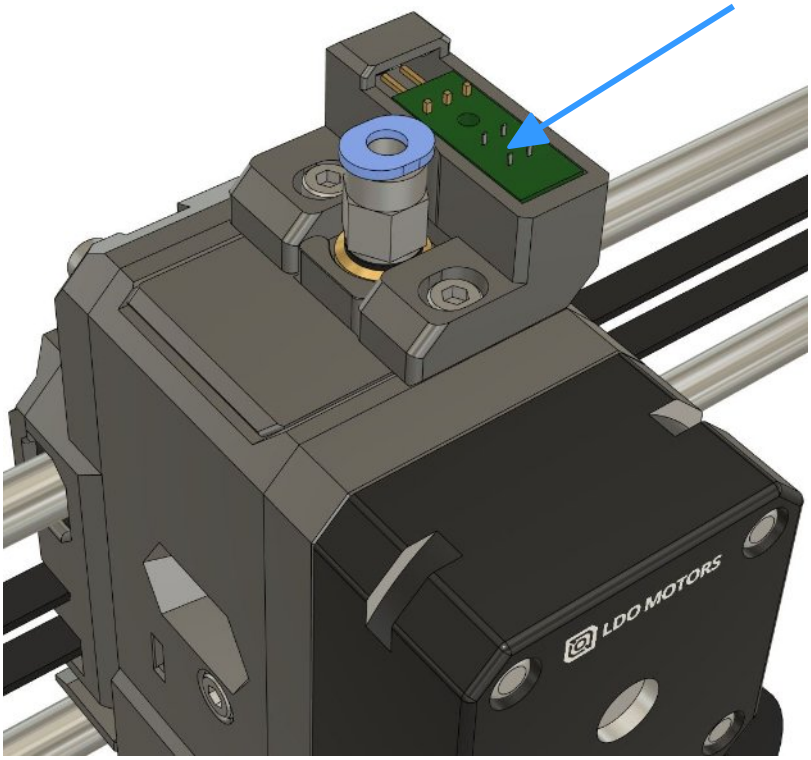
11. Add the e_fs_cover_mmu2s on top of the extruder body



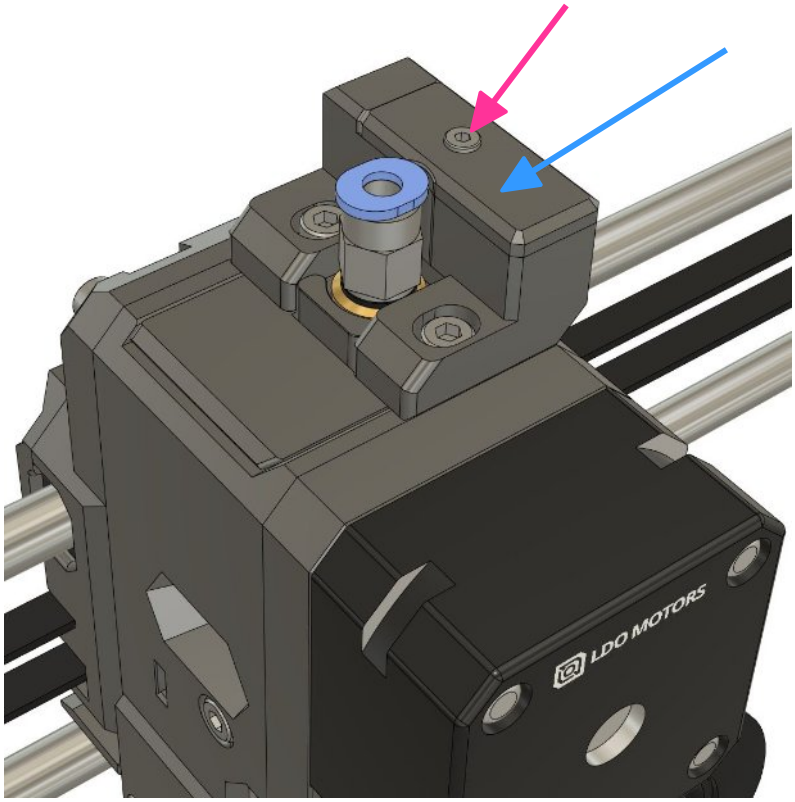
12. Place the e_fs_chimney_mmu2s on top to close the cover and thread an M3x18 and M3x10 to secure it



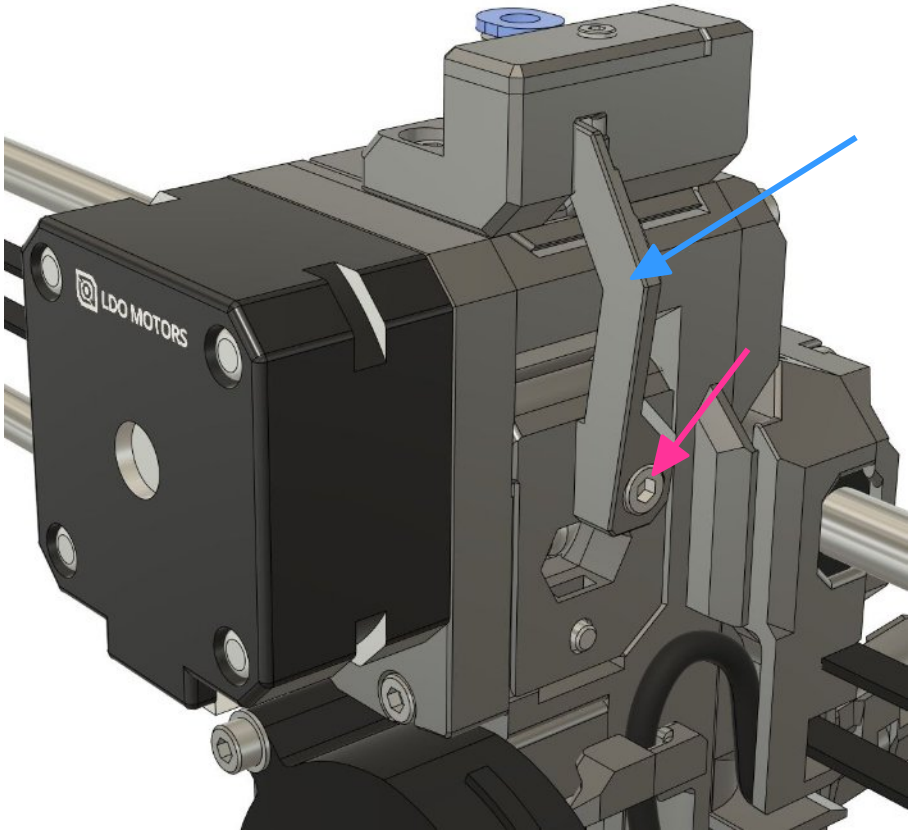
13. Install the filament sensor



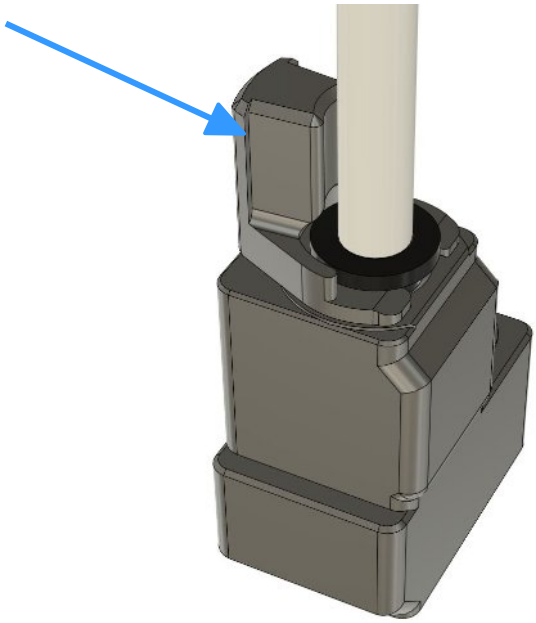
14. Close the chimney with the e_fs_chimney_cover_mmu2s and the M2x8 screw



15. Add the lever e_fs_lever_mmu2s on the side and secure it with an M3x14 screw



16. Insert the PTFE inside the Prusa coupler or E3D collet. If you are using the option 2 with E3D collet, lock the PTFE in place with e_fs_adapter_mmu2s_e3d_clip



17. Follow the Preflight Check & Calibration guide from Prusa : https://help.prusa3d.com/guide/8-preflight-check-calibration_219068 . Note that the filament sensor calibration works the same way as the Prusa version.

Happy Printing:)