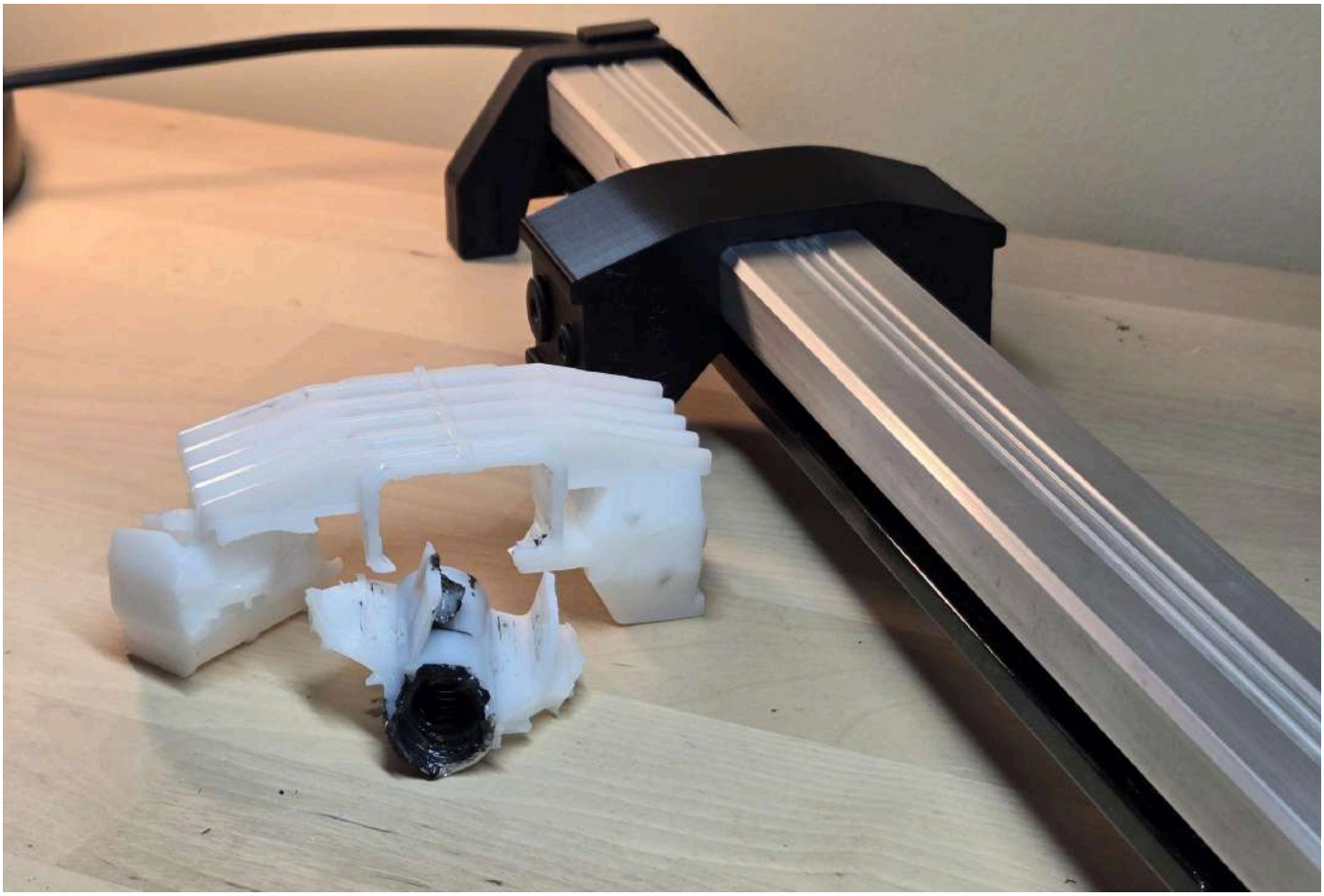
MotoMotion LMD12517W-4 Linear Actuator Block Replacement Manual



Tools Needed

- Standard size Phillips screwdriver
- Cordless drill with Phillips bit (optional but recommended)
- Silicone grease (optional but recommended)

Document Information

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Product: https://barlowfabrication.com/products/lmd12517w-4

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Removing the Assembly

There are no photos or guide to removing this assembly from the couch. This part was sent to me for development, and I do not have any documentation for removal. Depending on the type of couch or lifting chair, tipping the chair on its side or back will make access to these mechanisms easier.

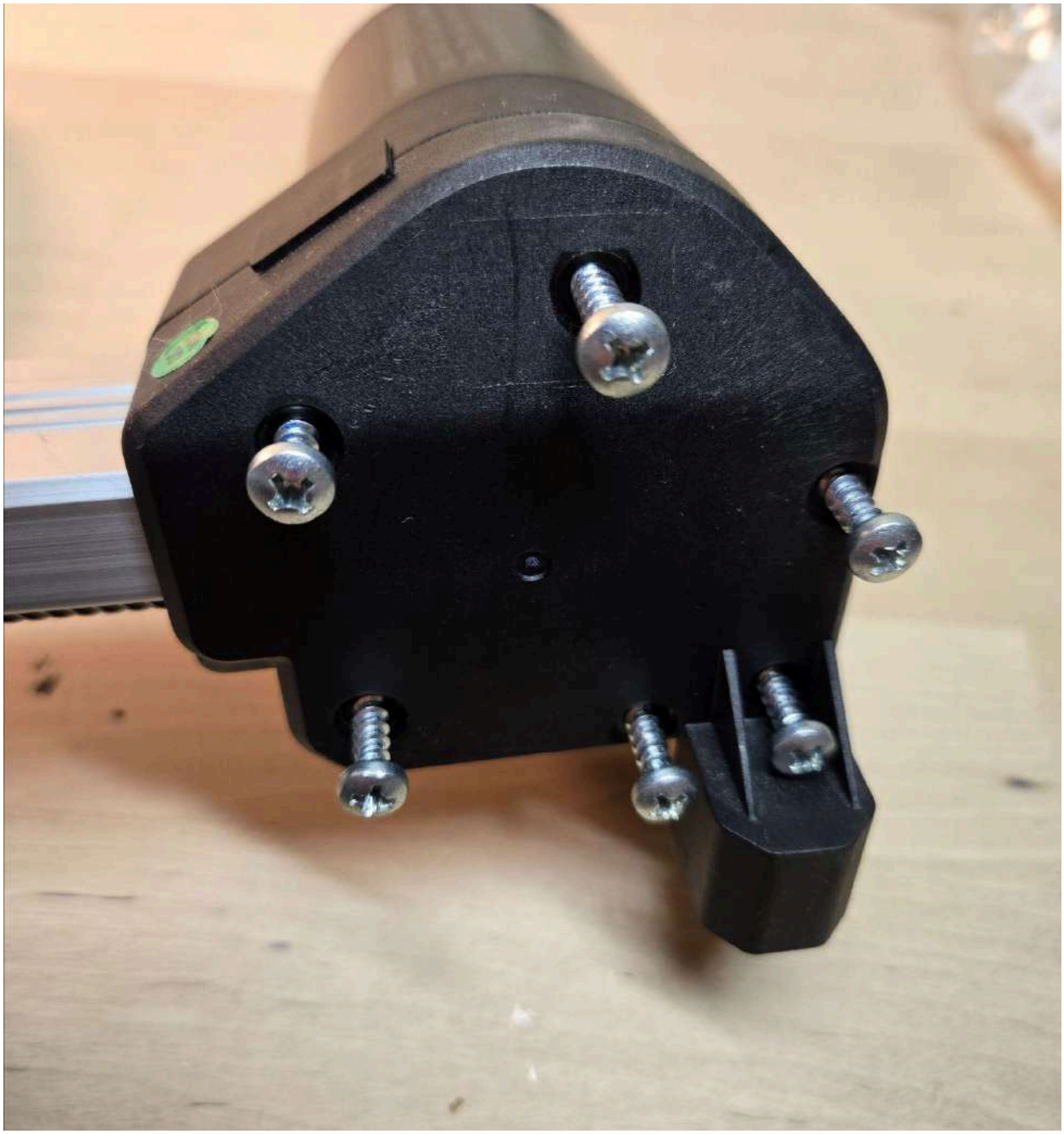
Generically the instructions are:

1. *Unplug all wires into the reclining actuator*
2. *Undo any pins or fasteners securing the actuator to the couch frame*

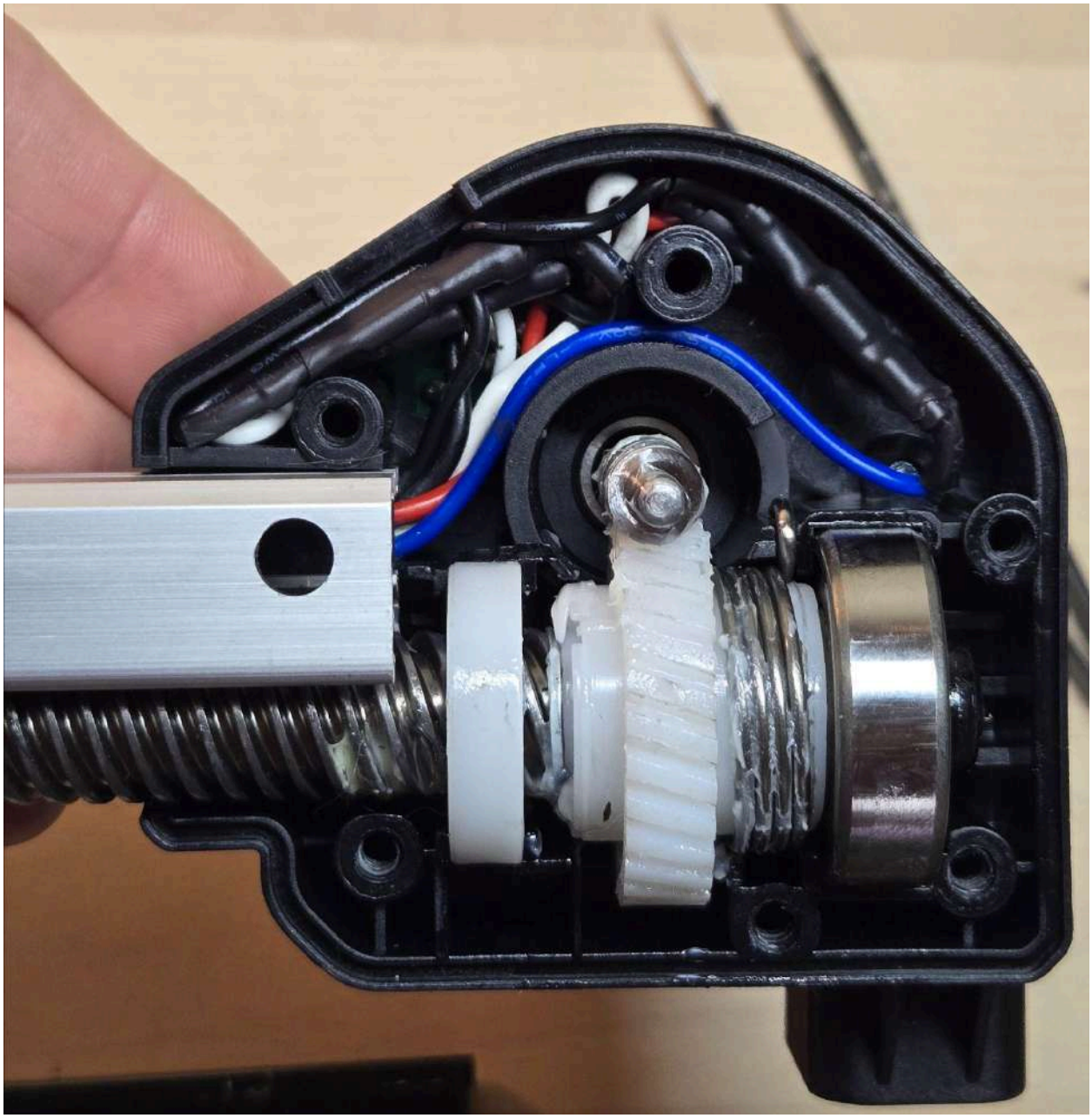
This is an unfurnished part of this guide. Please send any photos of this to contact@barlowfabrication.com, and I'd love to include them to help other folks have clear instructions on how to remove their assembly.

Removing the Old Broken Block

1. Remove 6 screws. These screws are quite long, I would recommend a cordless drill if it is available.



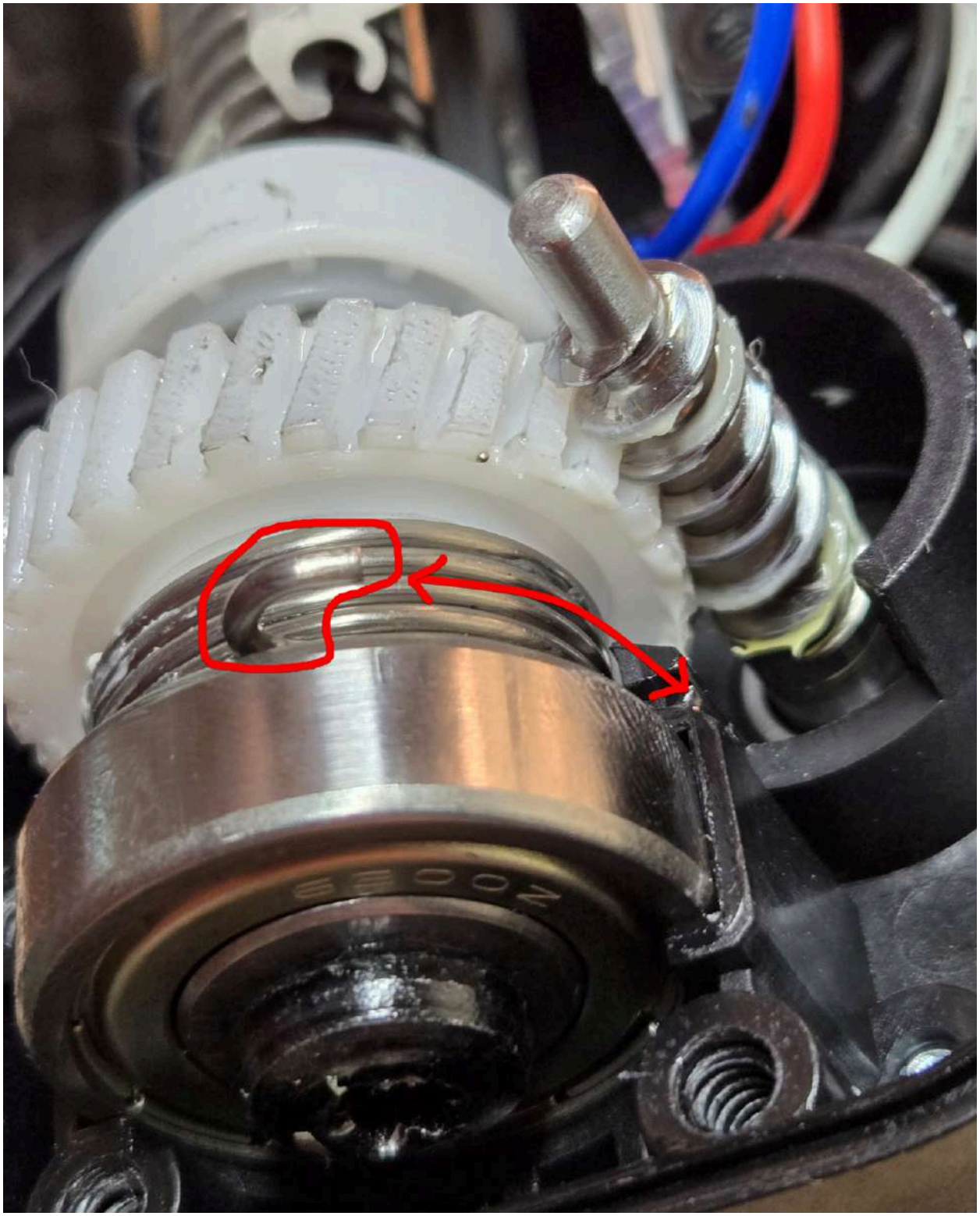
2. Remove gearbox cover. There are no clips holding it in place, only the fasteners that were just removed. Here is what that looks like:



3. Make sure the orientation of the aluminum rail remains in the same orientation throughout. It may be worthwhile to mark it with a marker or tape to not lose the orientation. As you can see in the above photo, the wires come out of the rail at the closest part of the pocket where the wires rest.

4. Use some pliers or flat screwdriver to unhook the spring from the motor housing

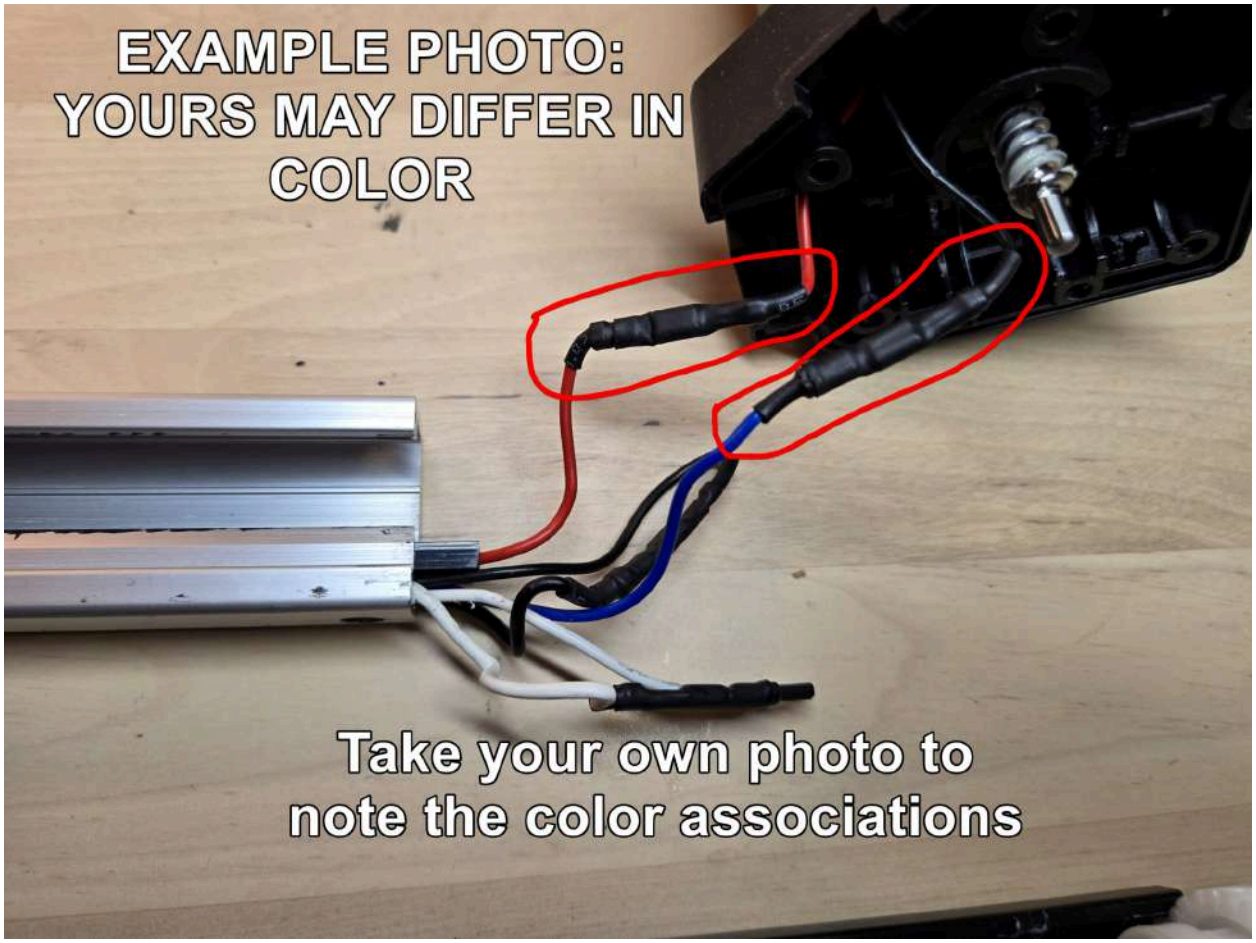




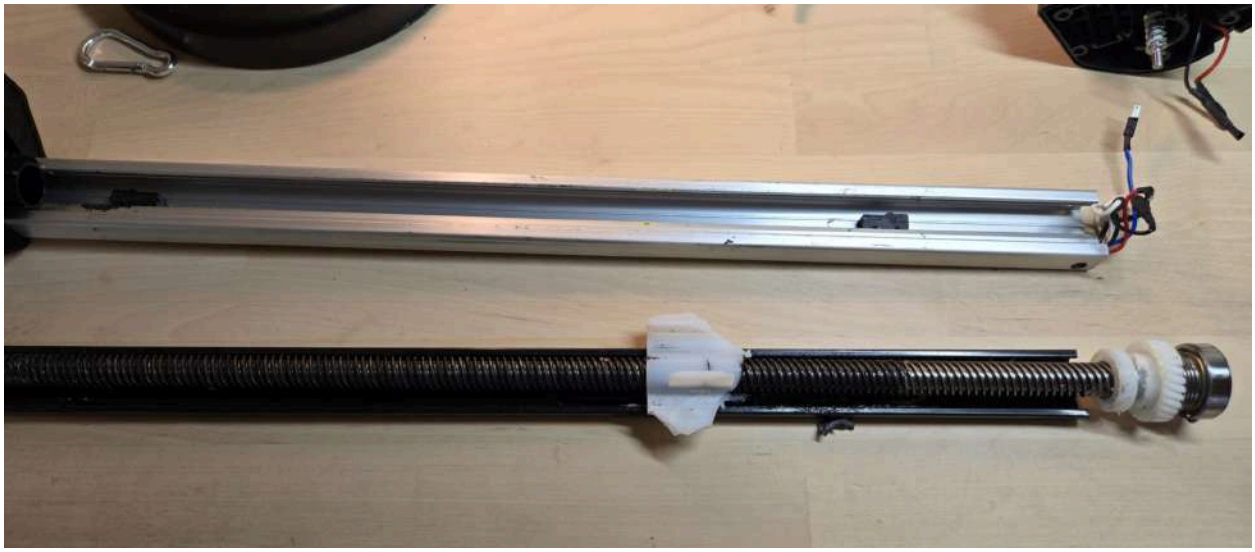
5. Rotate the plastic gear off of the worm gear, being careful not to pull on any of the wires that are attached. Pulling the bottom of the plastic gear will rotate it off of the worm gear.



6. **Critical Step!** Take a photo of your wiring as it is in your assembly such that you can plug it back in the exact same after unplugging. (the

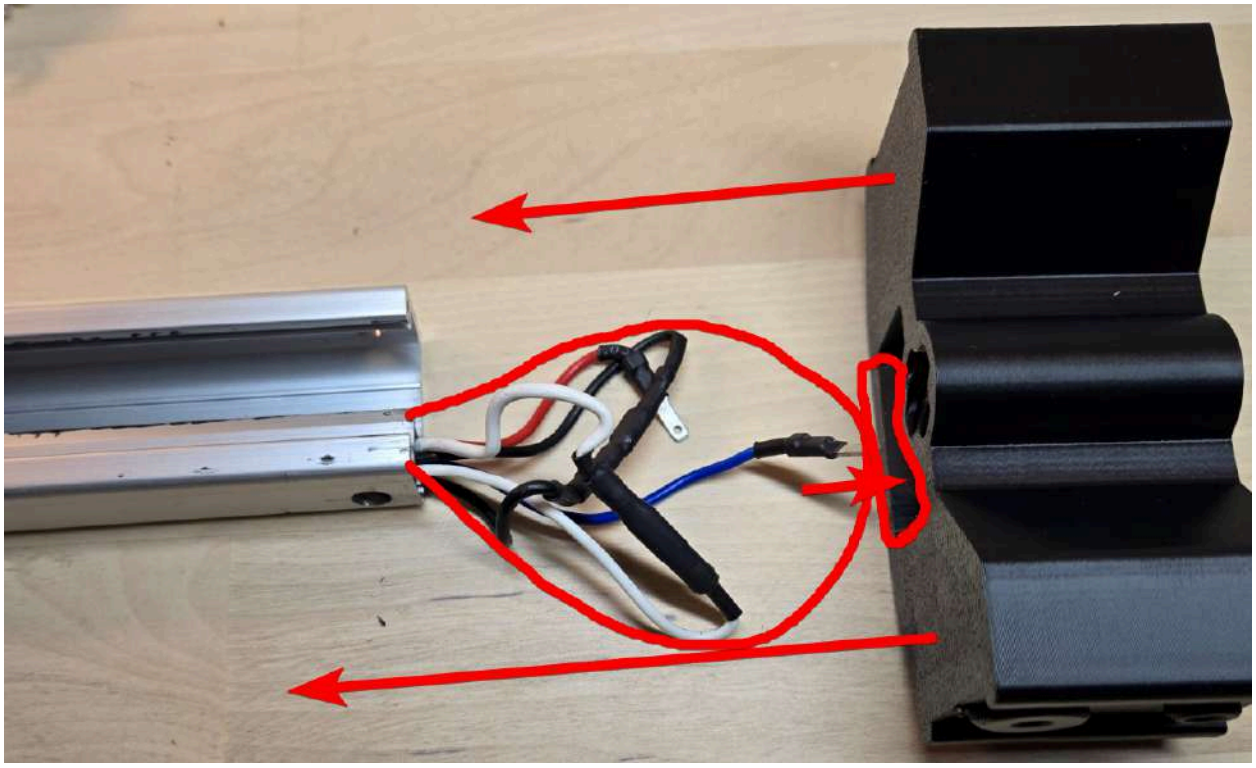


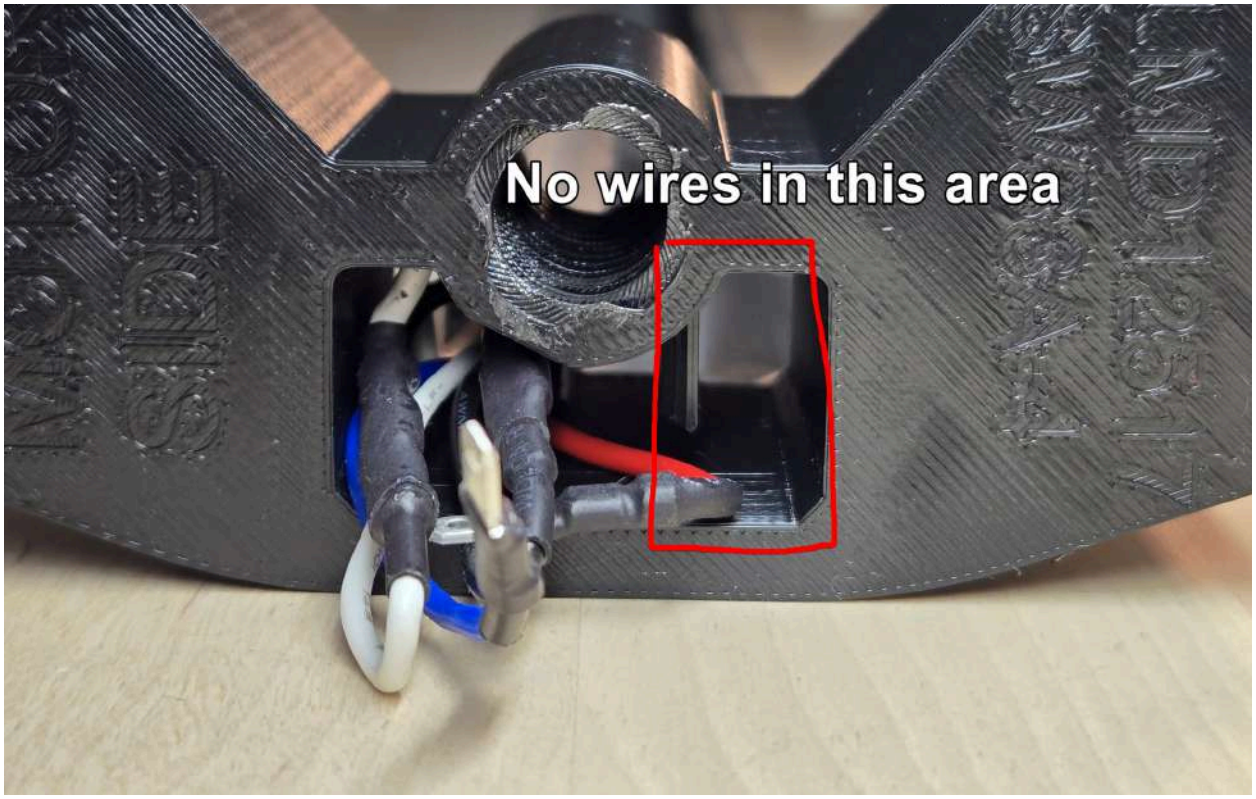
7. Carefully unplug the wires from the motor



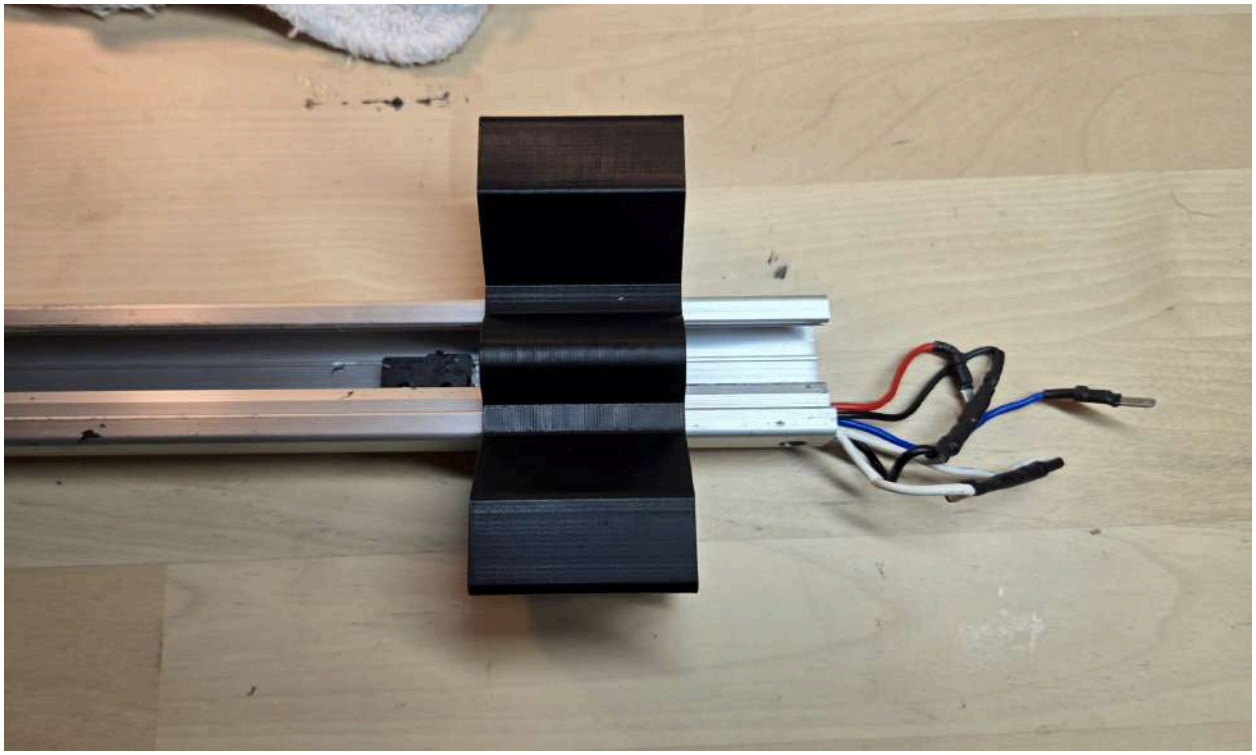
8. Separate the lead screw from the aluminum rail. Be careful to not get the wires caught on the broken plastic block as it is removed. I set it on the black plastic lower rail because it's covered in grease.
9. Twist the broken block off of the lead screw.
10. (Optional) At this time if you have some grease, you can apply it to the threads on the block so they will be spread around by the lead screw.

11. Retrieve the replacement plastic block and fish the wires through the gap. Make sure to leave space for the limit switch actuator, as pictured below

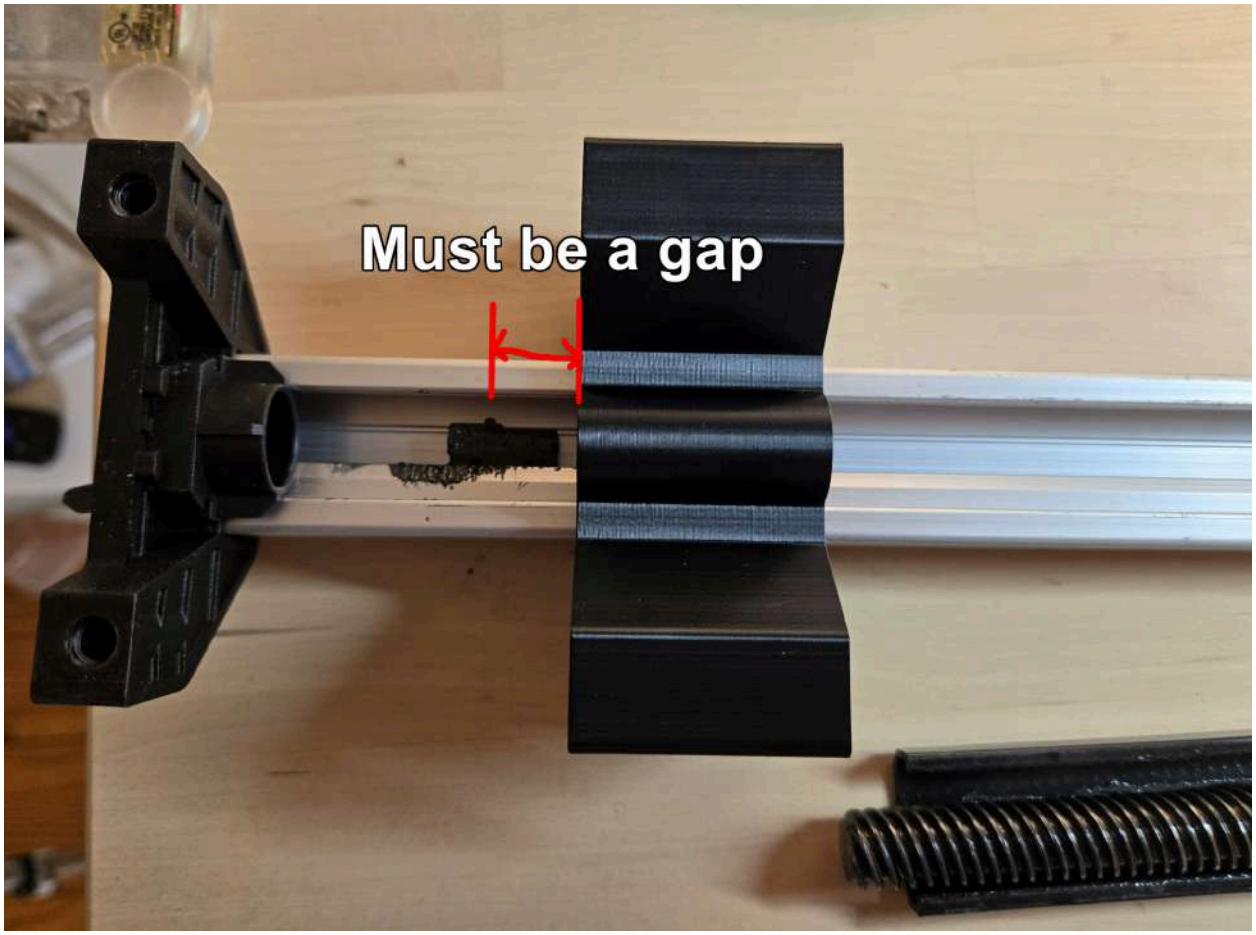




12. This is what it should look like if all of the wires were fished through correctly



13. Slide the block down the aluminum rail, and make sure to keep it in a position so it is not past the limit screw

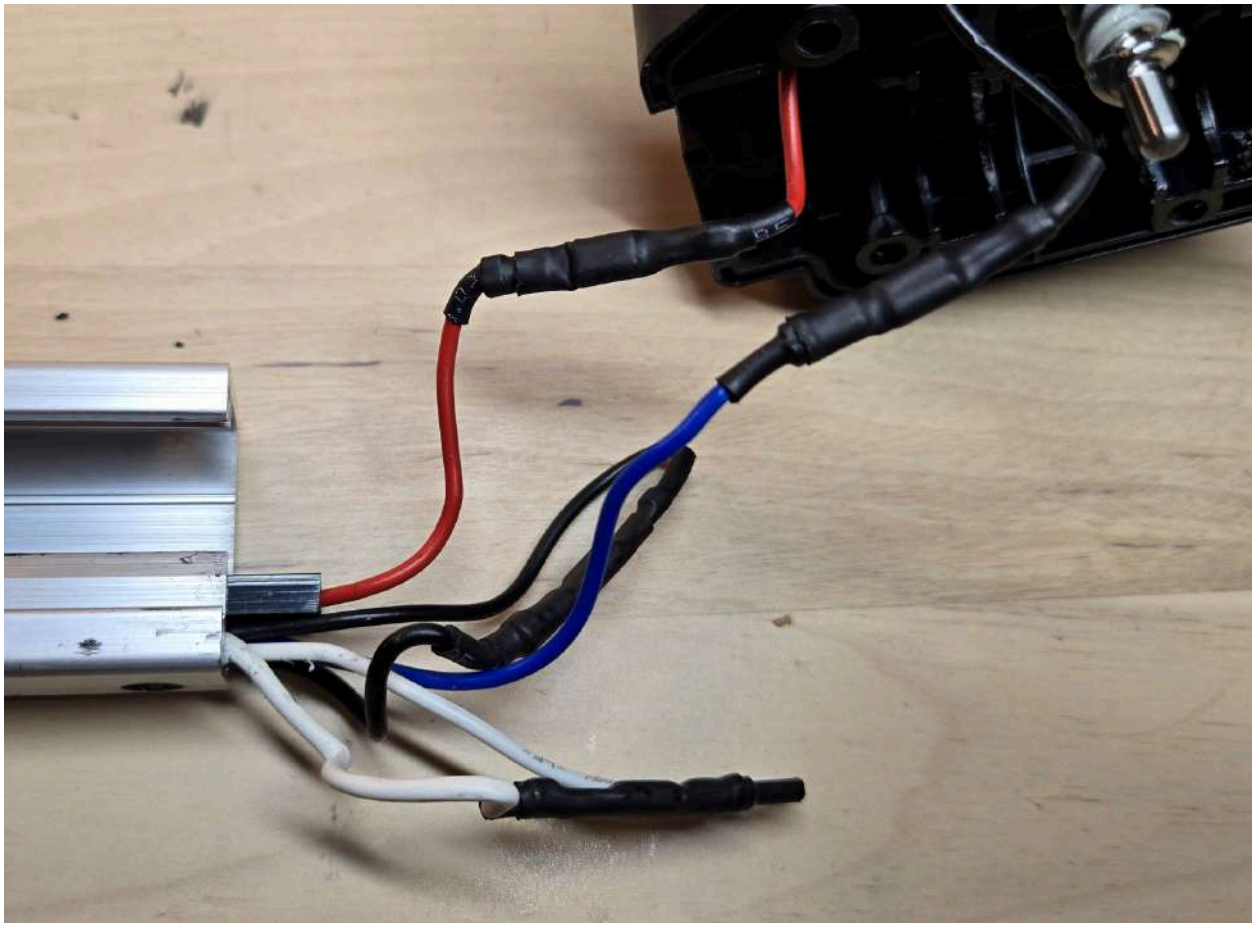


14. Place the lead screw back on top of the aluminum rail, and screw it into the new plastic block

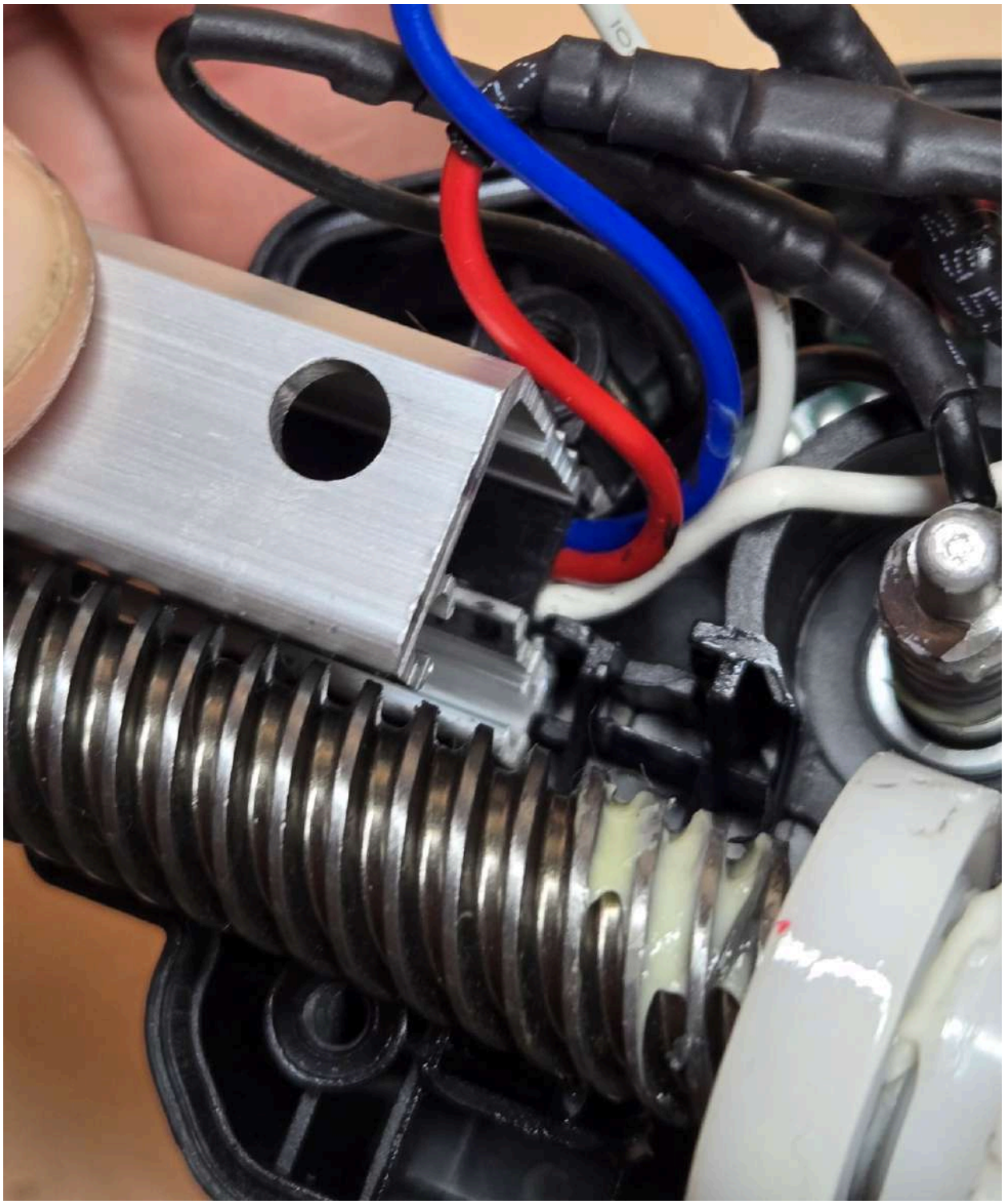


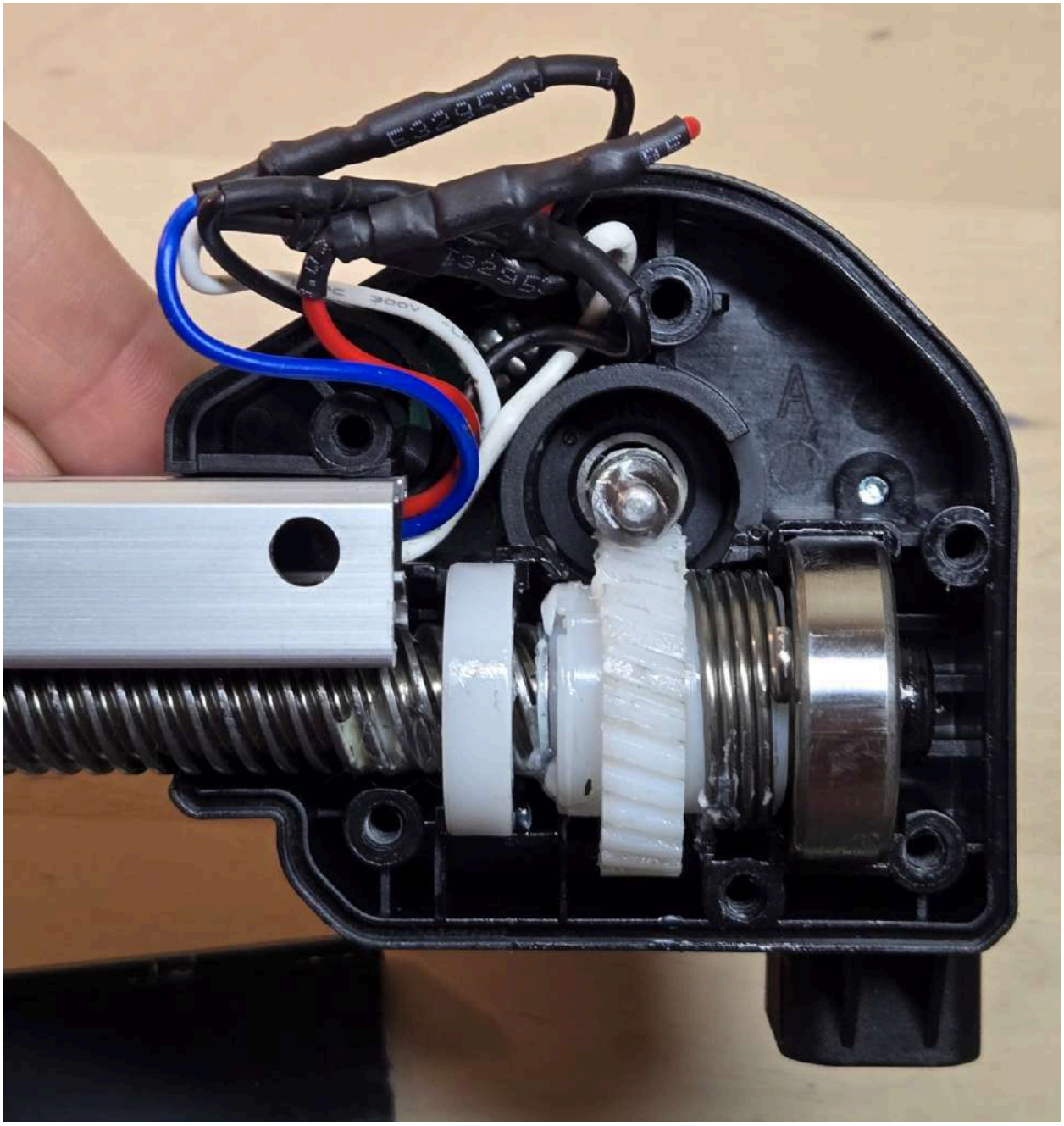
15. Keep screwing it in until the plastic gear at the motor end is close to the end of the aluminum rail. It will likely need fine adjustment when mounting the rail back to the motor

16. Refer back to the photo you've taken of your own couch from Step 6, and plug the wires in the same way they were before. *Photo for reference only, your colors may not exactly match!*

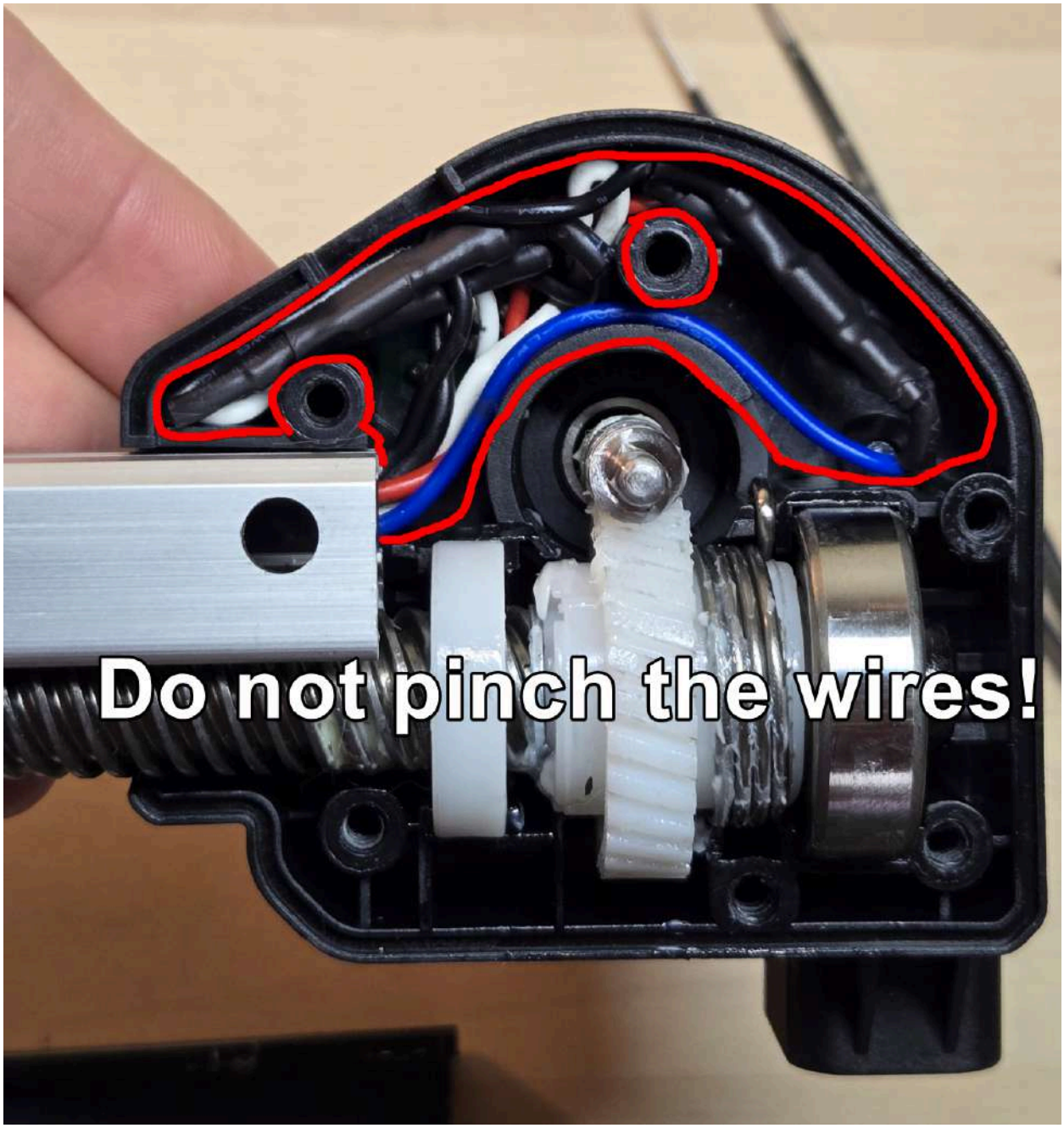


17. Press the plastic gear, bearing, and rail back in the motor housing. This part can be finicky due to the rotation of the gear causing the lead screw to shorten in length.





18. Get the wiring to fit back into the empty space made for it



19. Do not pinch any of the cables in the gearbox housing. Doing this can potentially damage the wires.

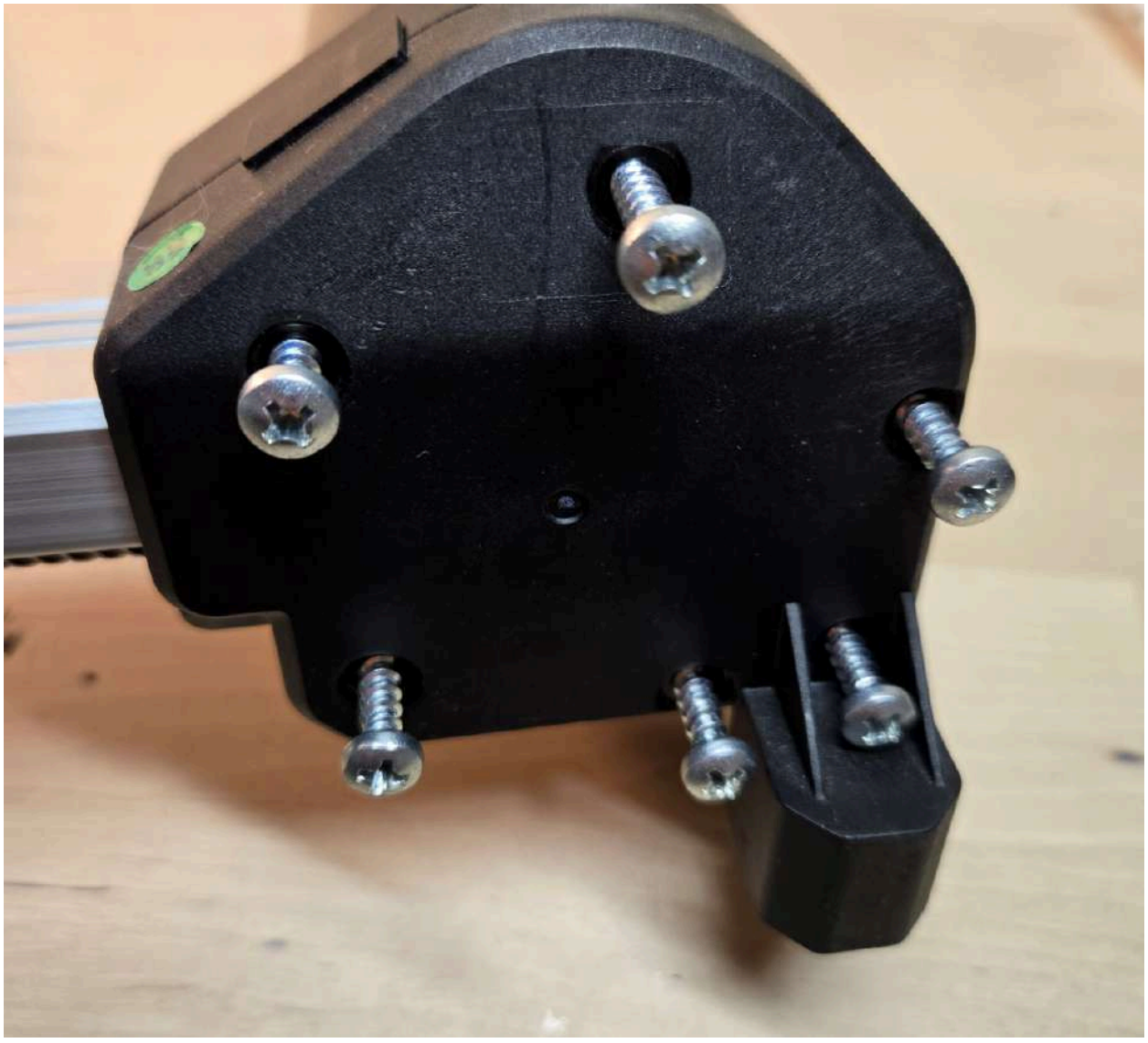
20. Before closing up the housing, make sure that the spring is hooked back into position



21. Reposition the cable cover back between the motor housing pieces, and press the motor housing cover into place. This is the step to be on the lookout for pinched cables.



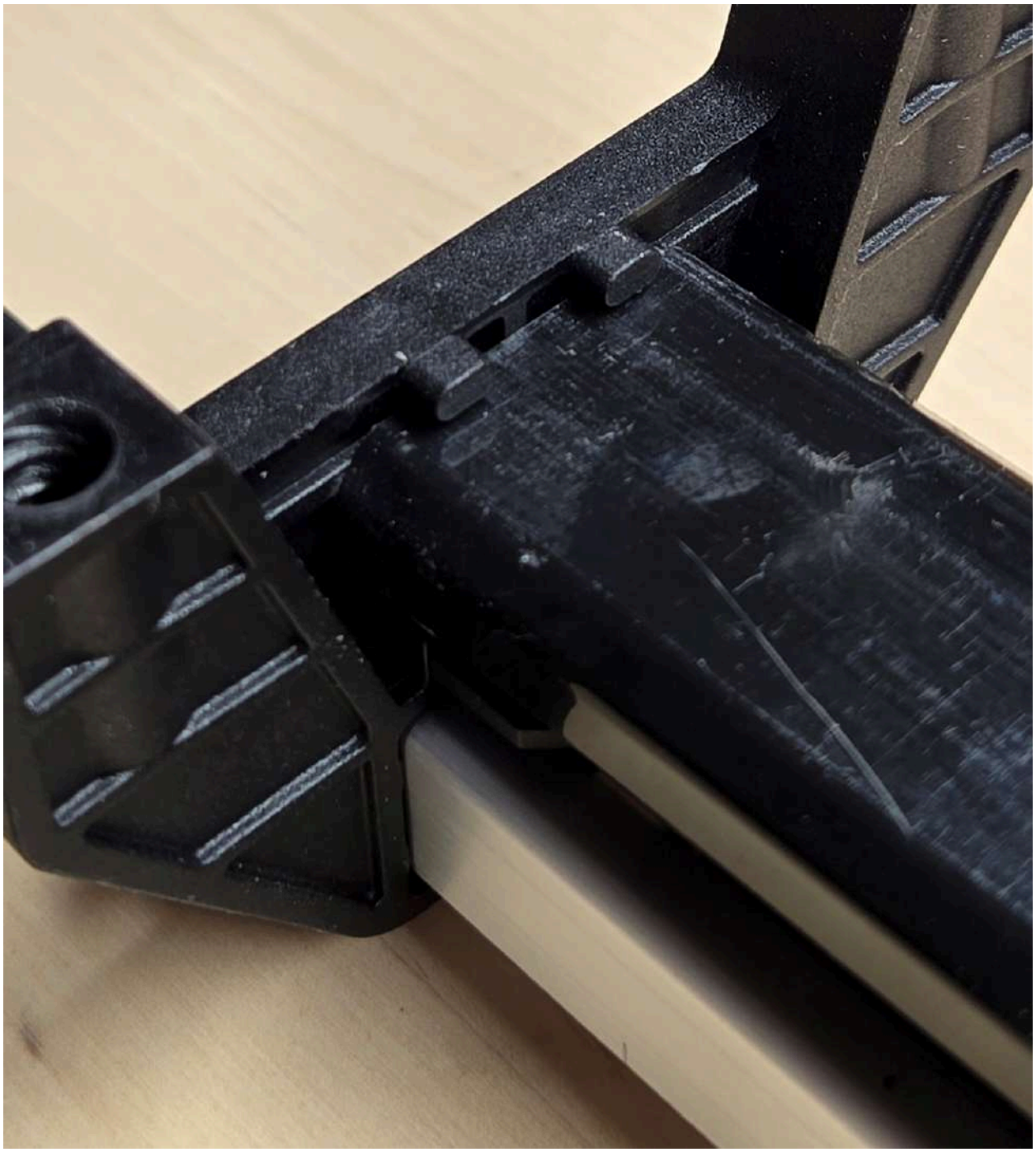
22. Screw the 6 screws into the motor housing



23. Position the black plastic cover back into place. Start on the motor side and slot it into the housing.



24. Flex the black plastic by bending the middle of it upwards, to shorten it and slot it under these two black retaining tabs.



Reinstallation of the Motor Assembly

As stated in the removal, this part of the guide is incomplete. Installation will depend on your couch. Feel free to shoot any questions or photos to me, and I will be happy to give a more tailored answer to your replacement! *contact@barlowfabrication.com*