Step 1: Taking Apart the MECO Scrubber

Materials

MECO Scrubber

Tools

Sander or Dremel with Cutting Tool

Horizontal Bandsaw or Dremel with Cutting Tool

Phillips Head Screwdriver

1. At the end of the scrubber where the scrubbing attachment connects, there are two rounded extrusions on the outside of the black round connector. Use a sander or Dremel tool to remove these extrusions and make it flush with the rest of the black rounded end. This allows the round black motor cover to be removed.

2. Use a screwdriver to remove the 6 screws that connect the round black motor cover at the scrubber end. Set these screws aside because they will be used during assembly. They will be referred to as the **Motor End Screws**.

3. Slide off the black motor cover and the flexible grey piece underneath.

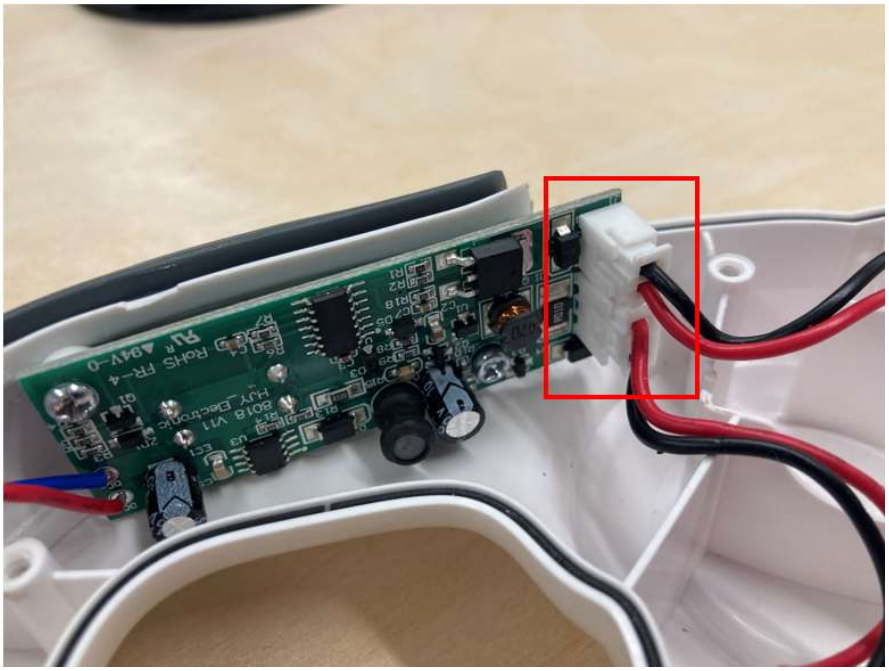
4. Use a screwdriver to remove the three screws connecting the gearbox to the scrubber. These can be identified with the wide tabs. Set these screws aside because they will be used during assembly. They will be referred to as the **Gearbox Screws**. Do not remove the other three screws because they hold the gearbox together.

5. Use a screwdriver to remove the two screws connecting the two halves of the scrubber.

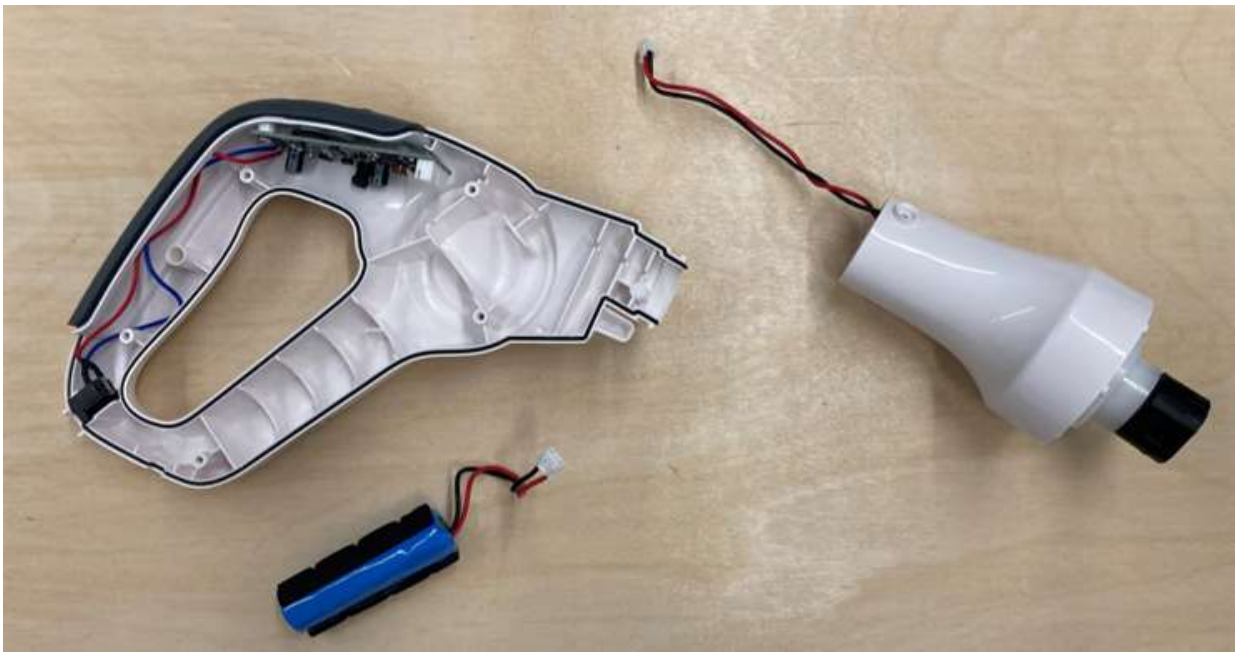
6. Carefully pull the two halves apart.

7. Use a screwdriver to remove the 5 screws that hold together the two halves of the handle.

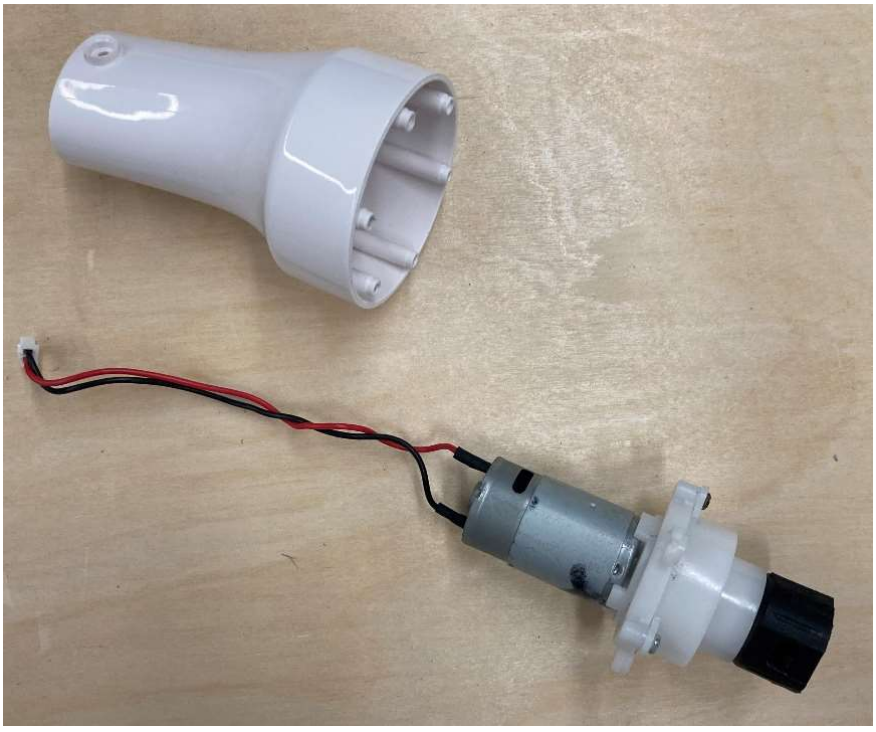
8. Carefully pull off the top half of the handle to expose the electronics.



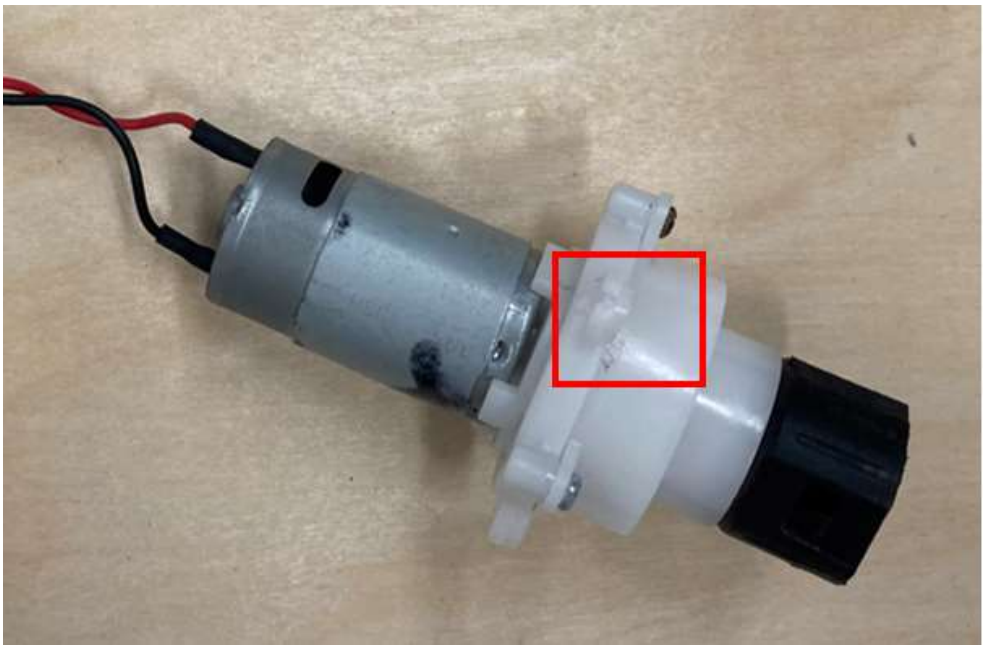
9. Pinch and pull apart the two connectors on the PCB.



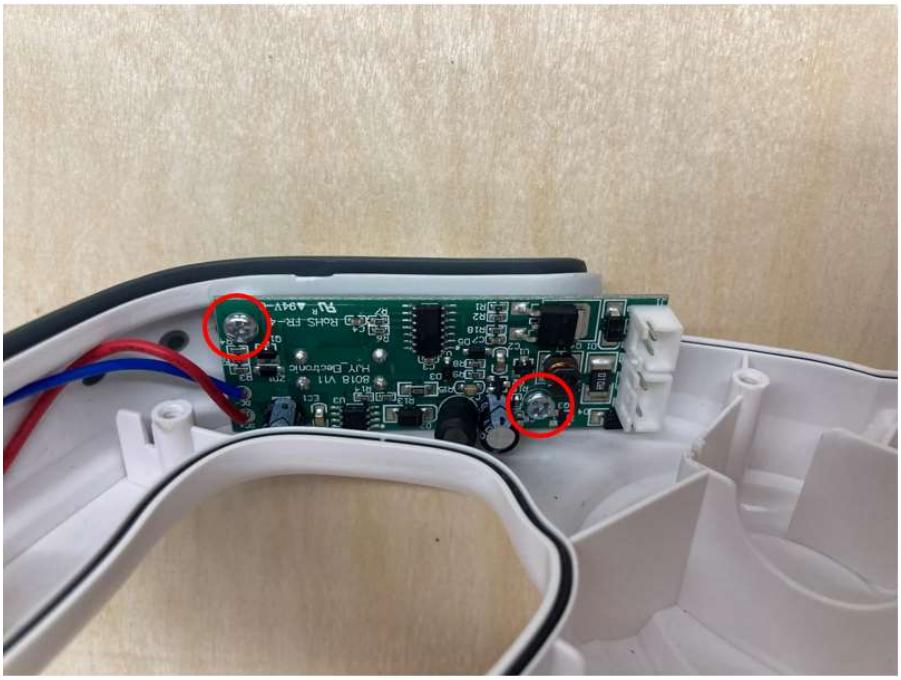
10. Remove the battery and detach the scrubber end.

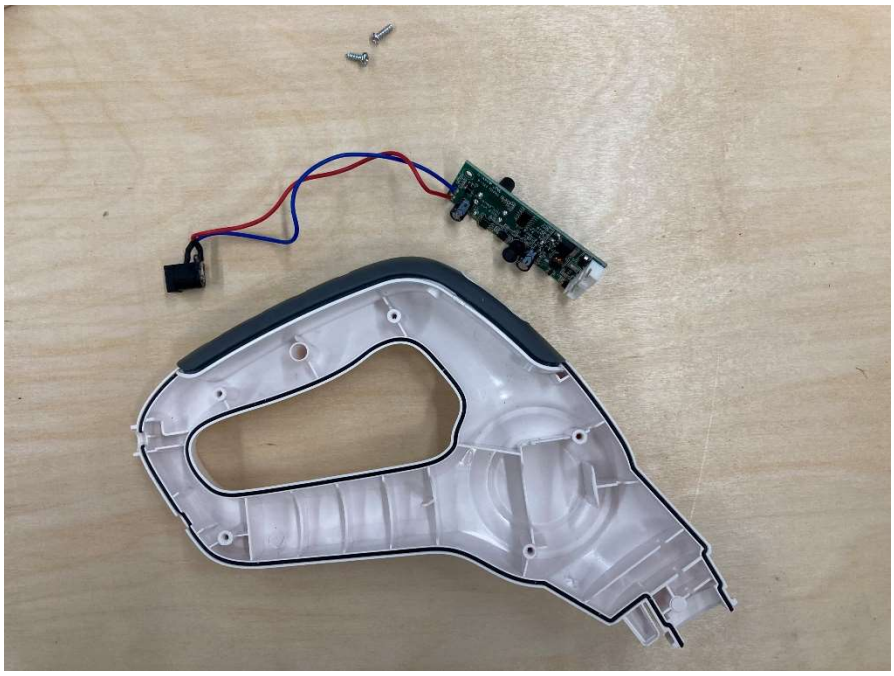


11. Slide out the motor and gearbox from the scrubber end.

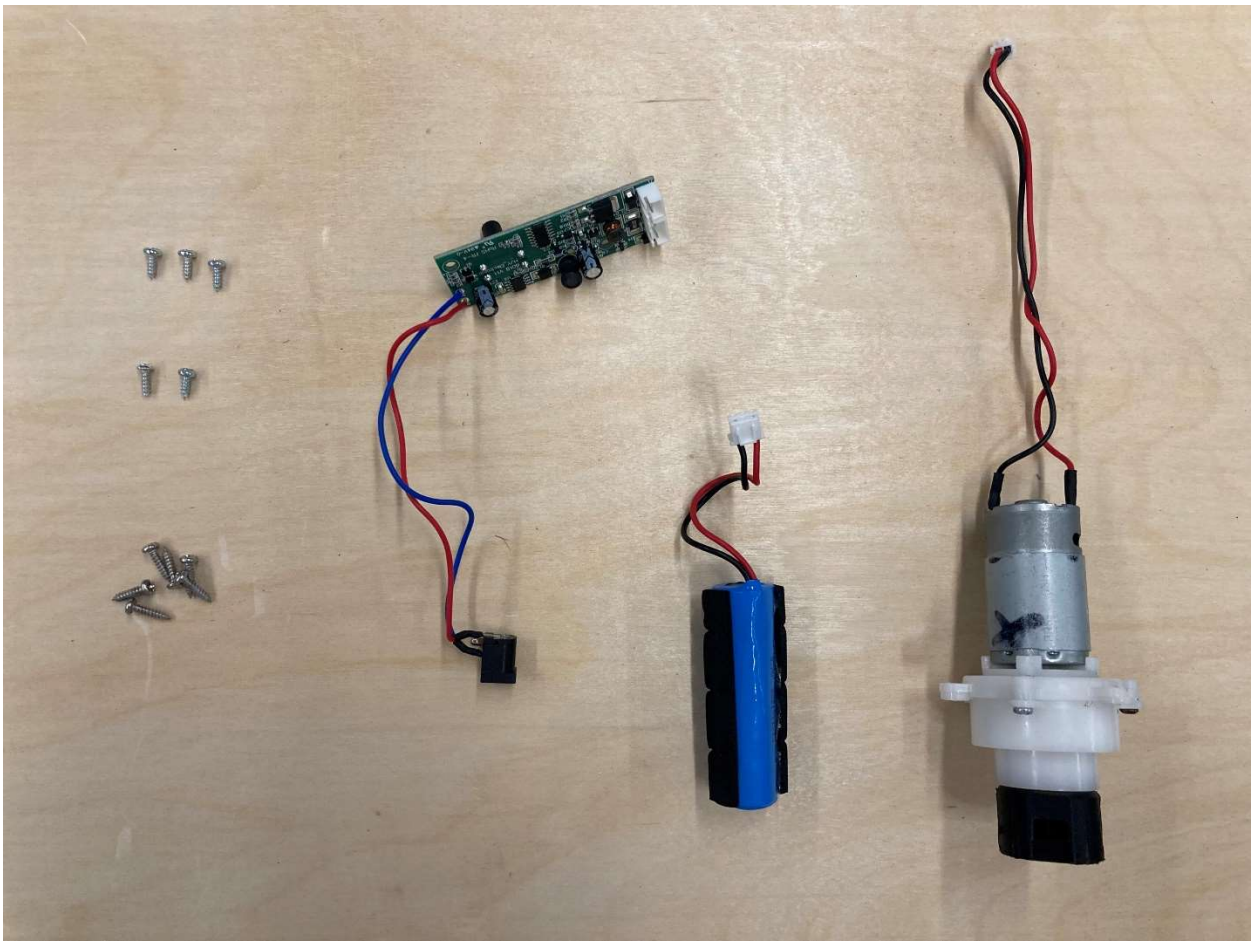


12. Use a Dremel Cutting Tool or Horizontal Bandsaw to remove the hollow cylindrical extrusions that held the Gearbox Screws. Cut so that only flat tabs with screw holes remain. This will allow the gearbox to be installed properly in future steps.





13. Use a screwdriver to remove the two screws mounting the PCB to the bottom half of the handle. Set these two screws aside because they will be used during assembly. They will be referred to as the **PCB Mounting Screws**. Carefully remove the PCB and Power Jack from the handle.



14. Ensure you have all these parts for the rest of the assembly:
    - Motor and Gearbox
    - Battery
    - PCB connected to Power Jack
    - 6 Motor End Screws
    - 2 PCB Mounting Screws
    - 3 Gearbox Screws

    All other parts will not be used.