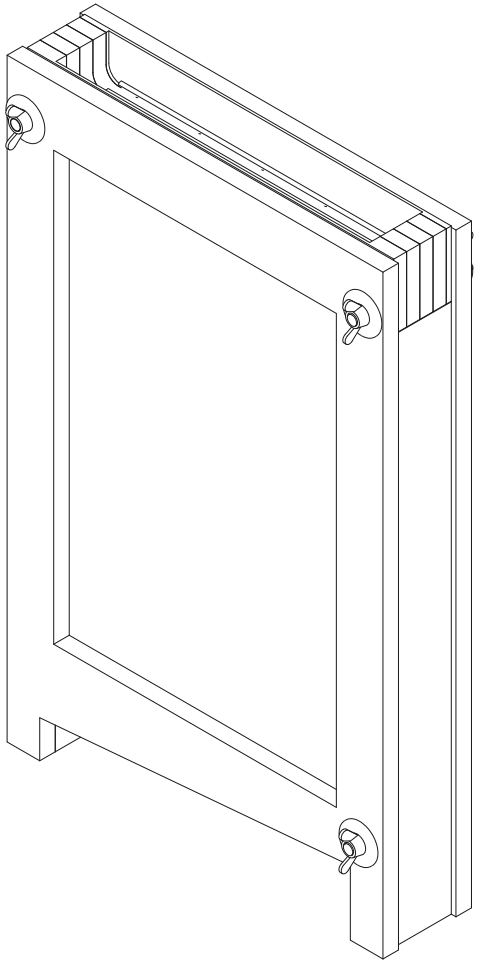
ACRAEA 2.0 ASSEMBLY MANUAL

Step by Step Instructions



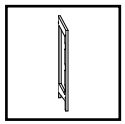
ASSEMBLY MANUAL BY
JC and the Turtles

MACHINE HARDWARE BY
Turtles

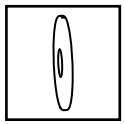
INDEX

STEP 1 GET THE BACKFRAME READY

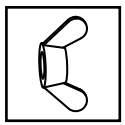
Step 1/7 1 min



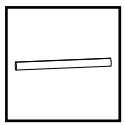
1x Casing back wall



3x Washer



3x Thumbscrew



3x Threaded rod

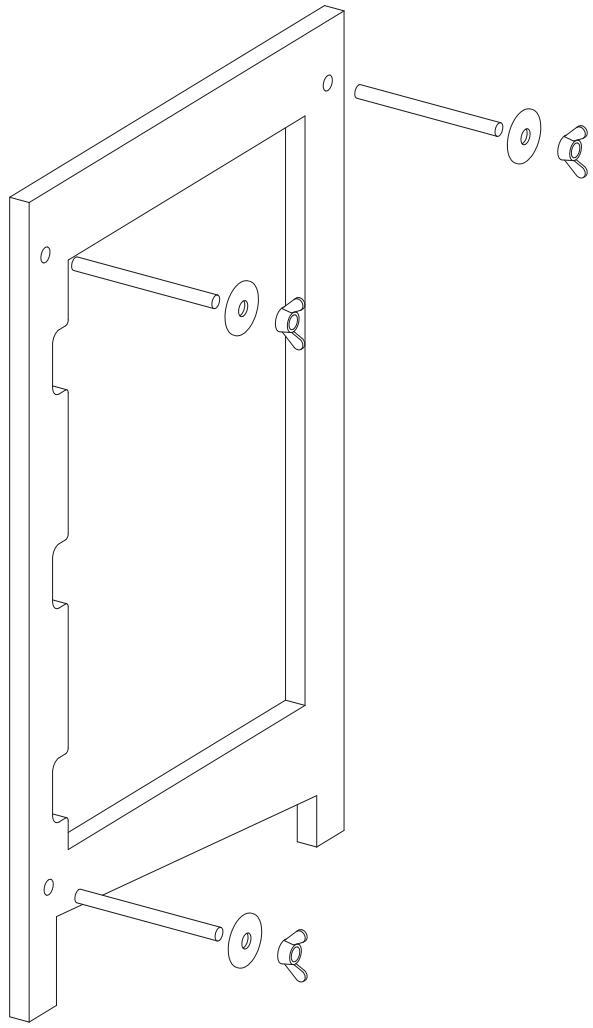
R1. The inner cutouts in the Casing back wall are customised for the used heating elements

R2. Mind the orientation of the frame

R3. Insert the threaded rods with the washers and thumbscrews

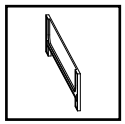
R4. Lay it flat down on a table with the thumbscrews pointing down

R5. Add a piece of material on the bottom corner for more stability during assembly stabilisation

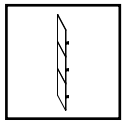


STEP 2 ADD THE FIRST LAYER

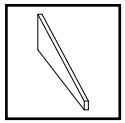
Step 2/7 1 min



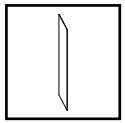
1x Feed Backwall



3x Heating Pad



1x Heating Spacer



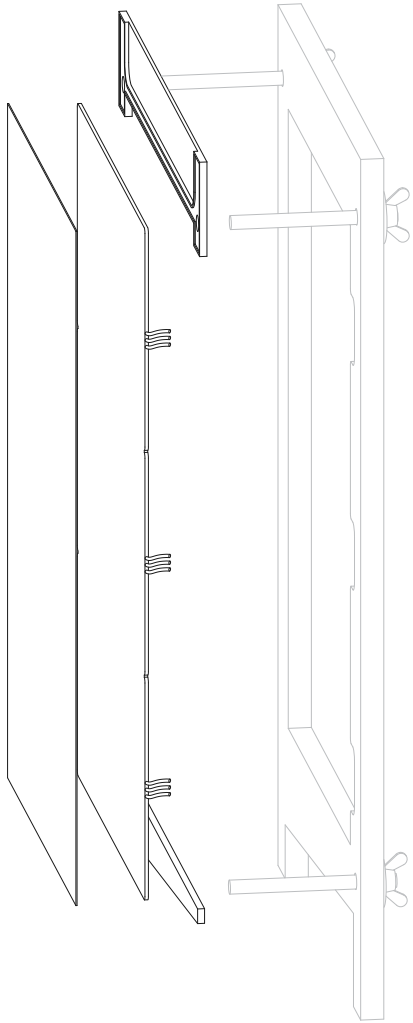
1x Plate

R6. Choice of heating module: the first plate has the heating pads glued to it

R7. Slide the feed backwall onto the rods

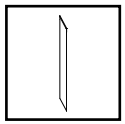
R8. Align the top corners of the heating module with the feed backwall

R9. Align the triangular heating spacer on the bottom corner of the heating module



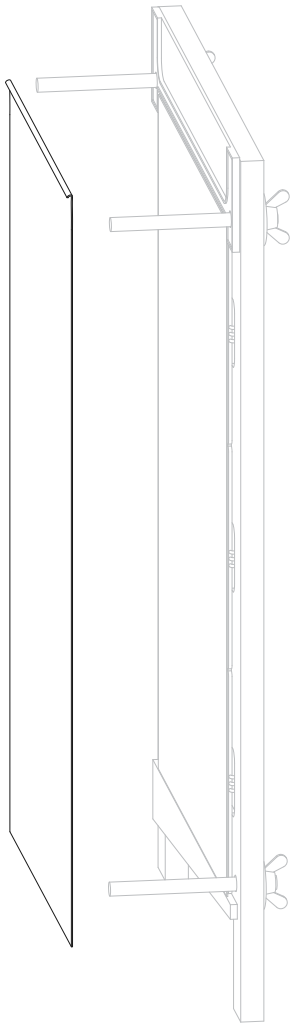
STEP 3.1 ADD THE WICK

Step 3/7 1 min Correction: Skip this step - see next step



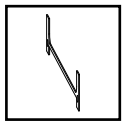
1x Wick

R10. Add the wick
R11. Ensure it is pointing about 1cm above the bottom corner of the feed backwall
R12. Ensure equal spacing to both side corners of the plate

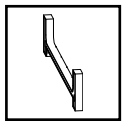


STEP 3.2 ADD THE FEED SPACER

Step 3/7 1 min



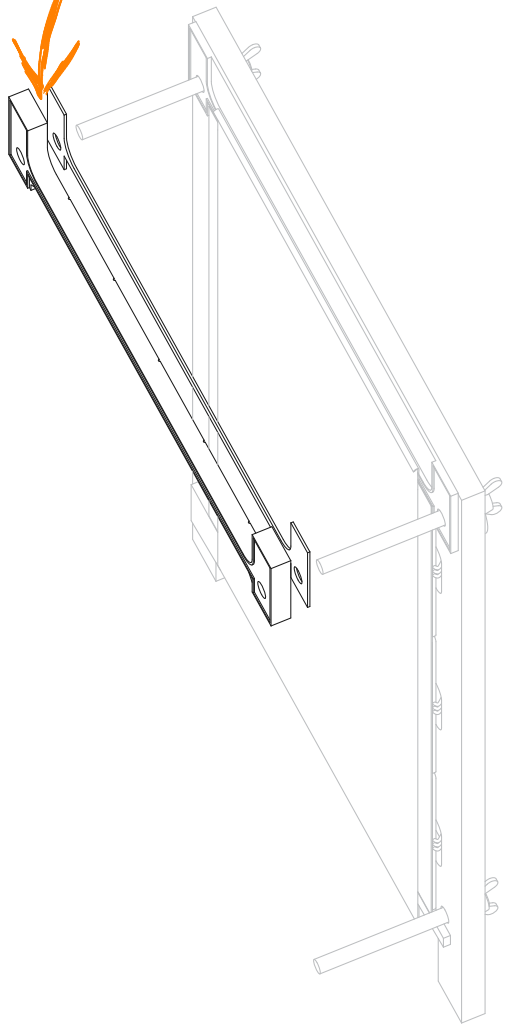
1x Feed Sealing



2x Feed Spacer

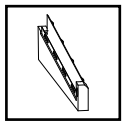
R13. Slide the feed sealing onto the rods
R14. Make sure the material is pushed fully down on the threads
R15. Add the feed spacer

Correction: Step 3.1 happens after .R13

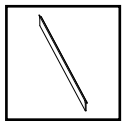


STEP 3.3 ADD DRAINAGE AND SEALING

Step 3/7 1 min



1x Drainage



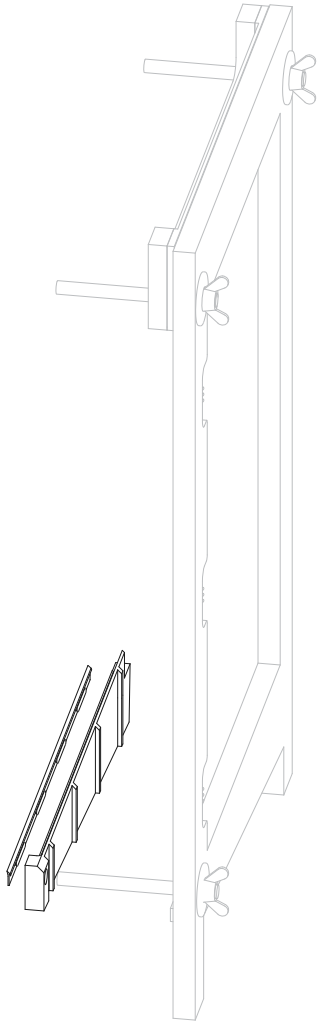
1x Sealing Drainage

R16. Add the drainage and align it parallel to the plate corner

R17. Ensure the noses of the drainage are on top of the clot

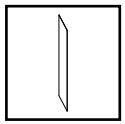
R18. Sealing option (A) clip 3d-printed sealing onto drainage

R19. Sealing option (B) add small amount of food-grade silicone on the indentation for the plate



STEP 3.4 ADD THE PLATE

Step 3/7 1 min

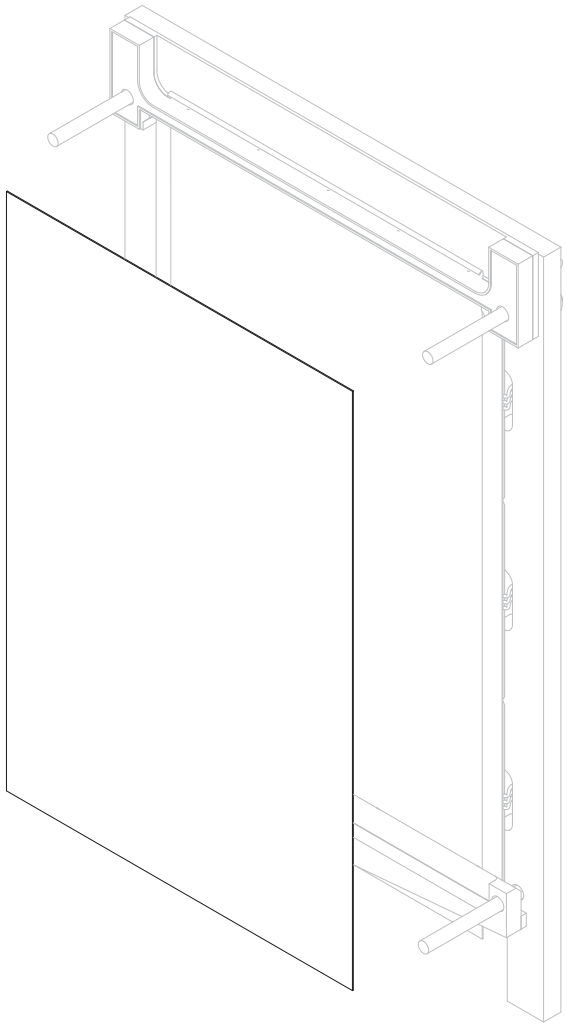


1x Plate

R20. Align the plate in the corners of the feed spacer

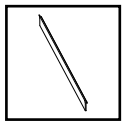
R21. for option (A) align the plate on the sealing on the drainage

R22. for option (B) align the plate on the indentation

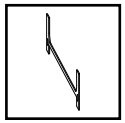


STEP 4 REPEAT STEP 3 TWICE

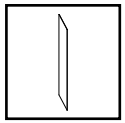
Step 4/7 1 min



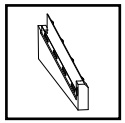
2x Sealing Drainage



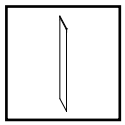
2x Feed Sealing



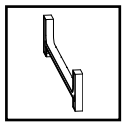
2x Plate



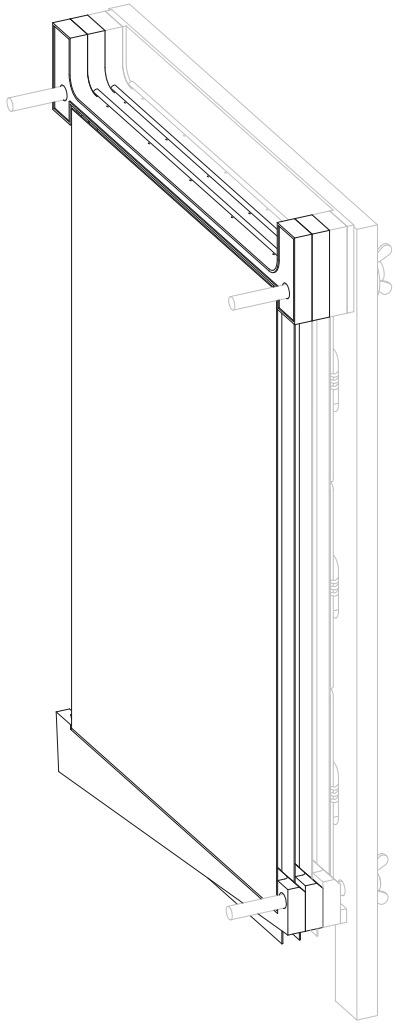
2x Drainage



2x Wick

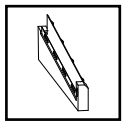


2x Feed Spacer

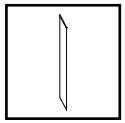


STEP 5.1 ADD THE LAST WICK AND DRAINAGE

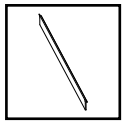
Step 5/7 1 min



1x Drainage

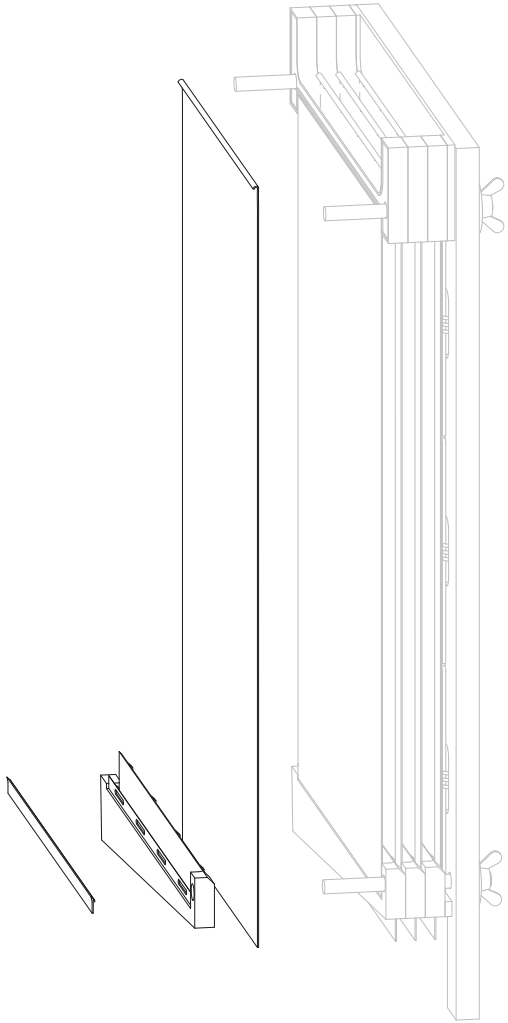


1x Wick



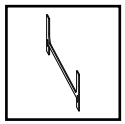
1x Sealing Drainage

R23. Add the wick,drainage and drainage sealing as before

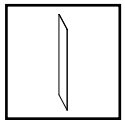


STEP 5.2 ADD THE TOP FEED SPACER AND PLATE

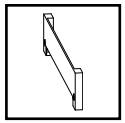
Step 5/7 1 min



1x Feed Sealing



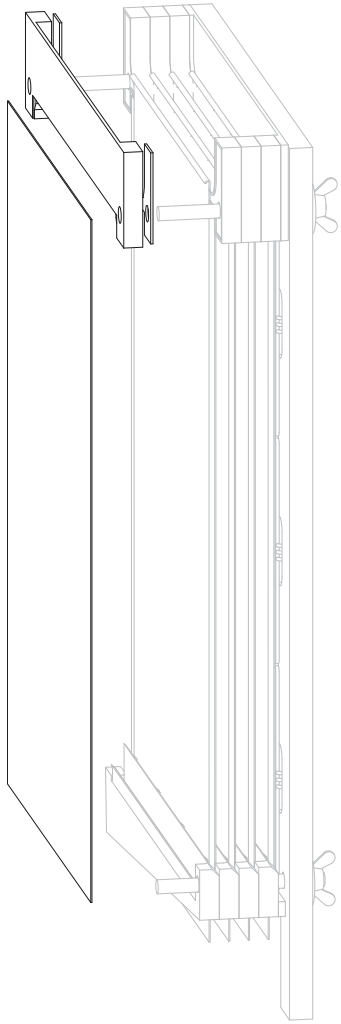
1x Plate



1x Feed Frontwall

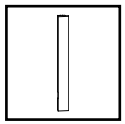
R24. Add the feed front wall with the flat side up

R25. Add the last plate

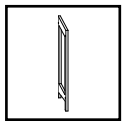


STEP 6 ADD THE SIDEWALL AND THE TOP FRAME

Step 6/7 1 min

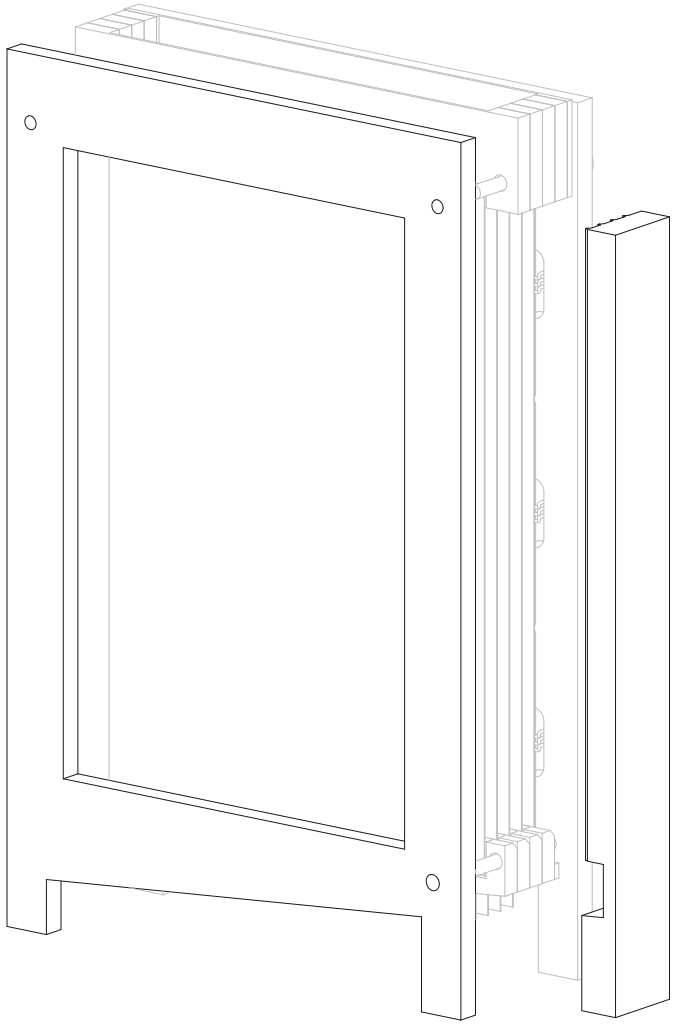


1x Casing right wall



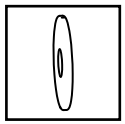
1x Casing front wall

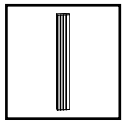
R26. Add the right side wall
R27. Add the casing front wall

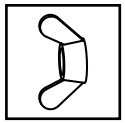


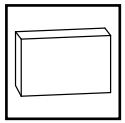
STEP 7 CLOSE THE MODULE

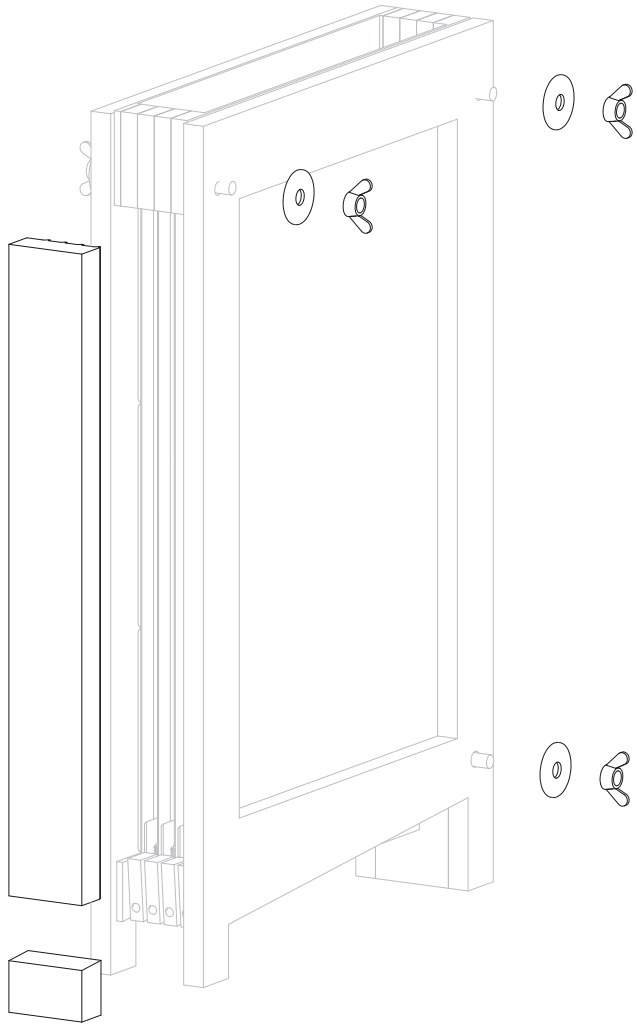
Step 7/7 1 min


3x Washer


1x Casing left wall A


3x Thumbscrew


1x Casing left wall B



R28. Add the casing left wall A and B

R29. Close the module by tightening the bolts equally
to a medium strength (like closing a plastic bottle)

R30. Pull down the cloths to stretch them nicely.
- If it is to hard to pull, loosen the bolts slightly
- If the cloth is not grabbed well, tighten the bolts slightly

R40. Inspect the Stages thoroughly using a torch
The Wicks have to be all be flat down on the plates.
At no point, not even with a lint, touch the other side.
This will contaminate your pure water side.
Finally: Tighten all the thumbscrews on both sides well.