

FOCUSTRONIC

SETTING NEW STANDARDS

Instruction for Alkatronic's Upgrade Kit for Batch 1 Units.



Alkatronic

Contents



Contents:

1. 2x DC pumps
2. 4x Cable ties
3. 4x long screws (for DC pumps)
4. 4x nylon bushings (for DC pumps)
5. 4x black washers (for DC pumps)
6. 2x short screws (for stepper)
7. 2x black bushings with thread (for stepper)

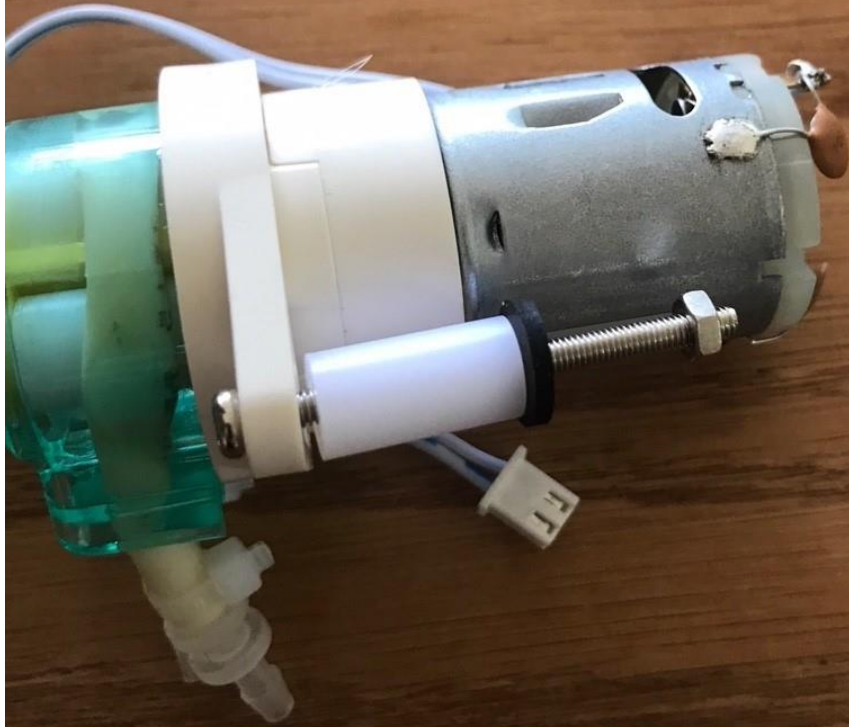


Step 1:

1. **Make sure your hands are dry before proceeding.**
2. **Unplug the Alkatronic from power.**
3. Remove all 7 screws using a Phillips screwdriver.
4. Put the screws in a small container as you will need them when putting back the back cover.
5. Do not over-tighten the screws when you install back the back lid.

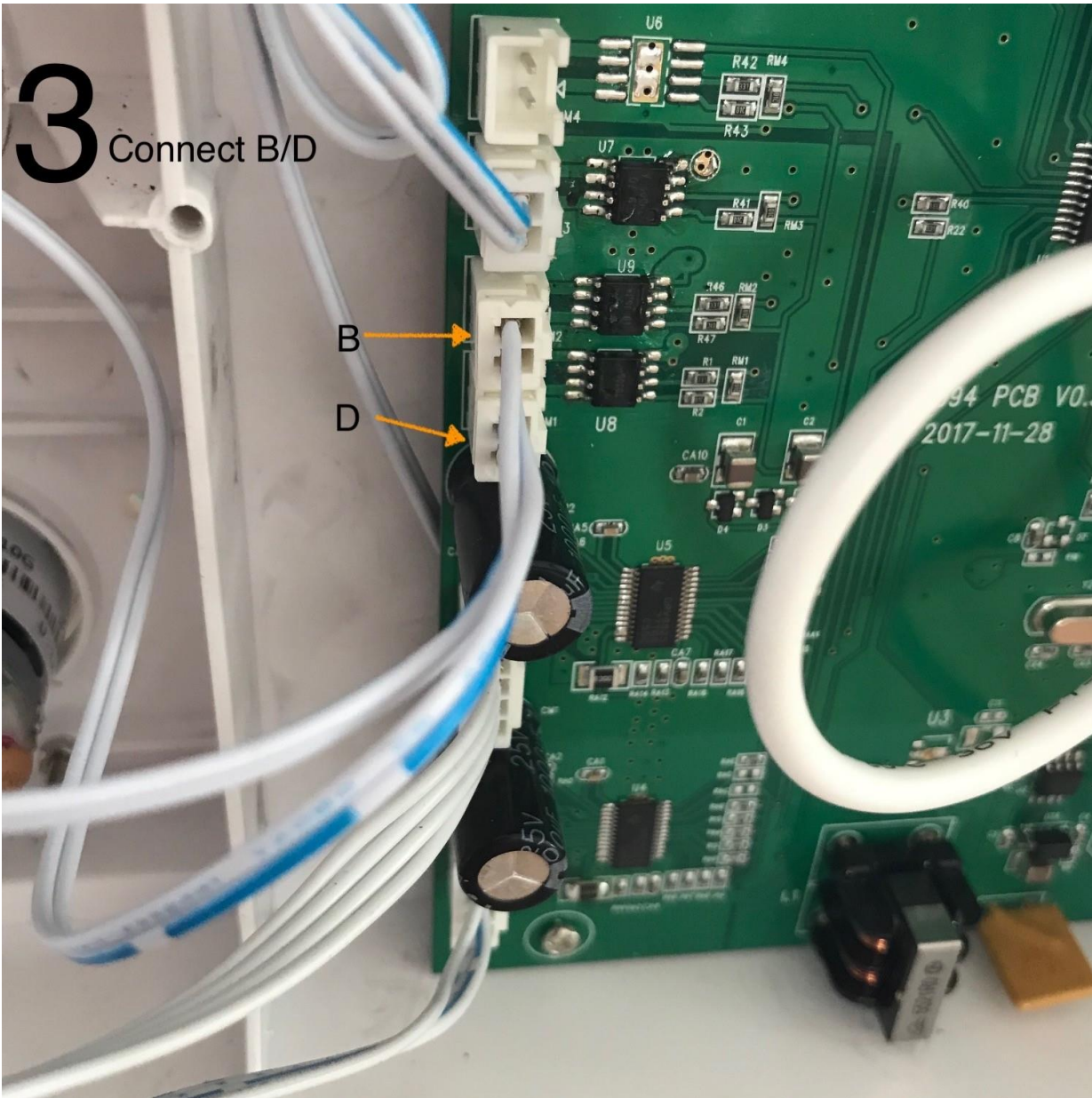
2

Assembling of Motor B/D



Step 2:

1. Included in the upgrade kit, there are 4 long screws for each motor.
2. Assemble the small parts as the photo on the right.



3 Connect B/D

Step 3:

1. Unplug the connectors. Make sure your hands are dry.
2. Pump B and Pump D are labeled in the photo on the right.
3. Do not pull on the wires. If needed, use a small pliers to gently remove it from the socket.
4. Unscrew the original pumps and remove them from the unit.
5. Keep these original pumps as spares.

Assembled and connected B/D

4

B

B

D

D

Step 4:

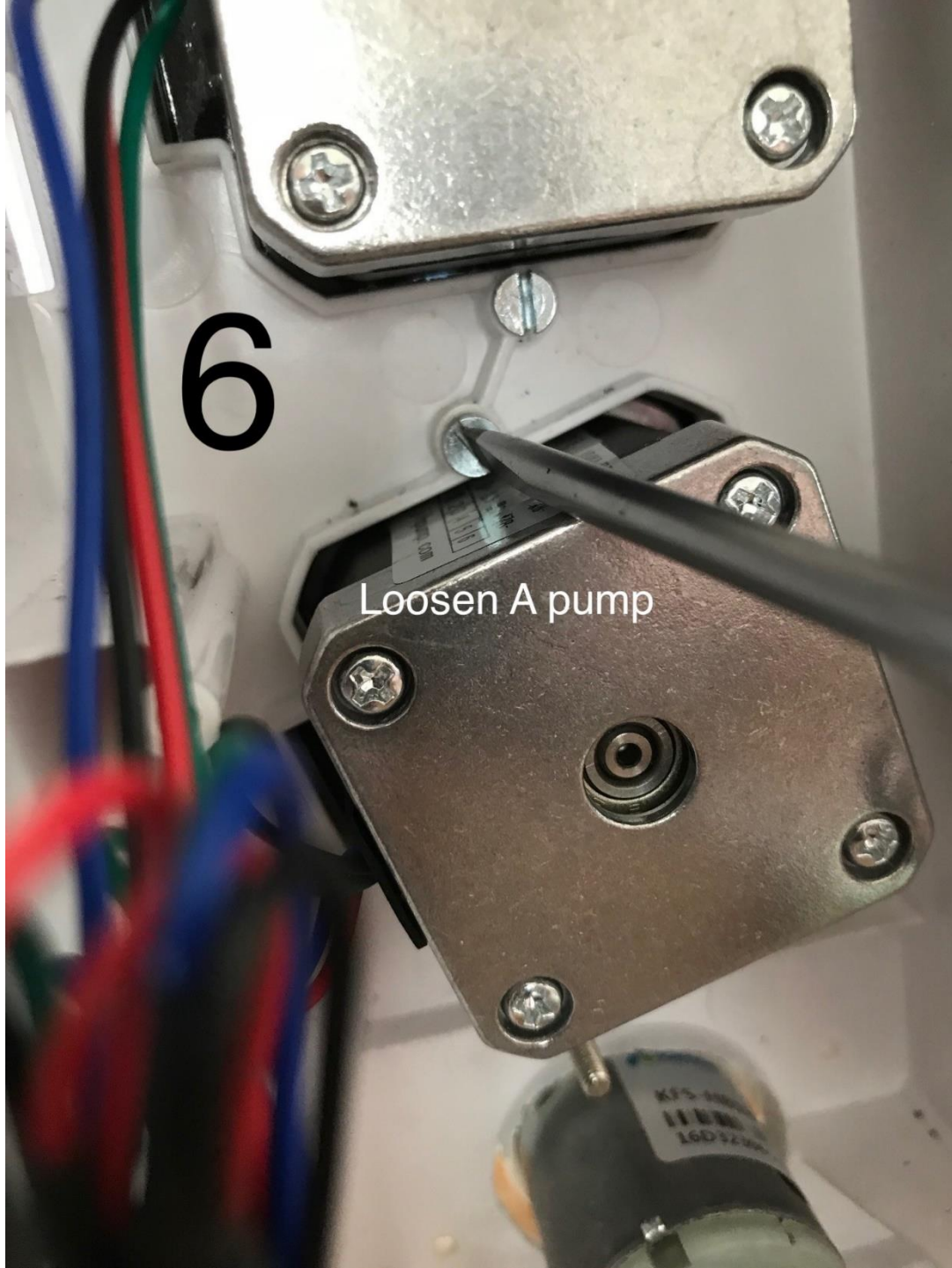
1. Using the long screws and nuts provided with the kit, install back the Pump B and Pump D.
2. After installing the new B and D pumps, connect back the connectors to the sockets.
3. Pump B is above Pump D.

5

Loosen upper hose to A pump

Step 5:

1. Remove the hoses from Pump A. (2nd pump from the top – water in pump)
2. Top hose of the pump is from tank water.
3. Bottom hose of the pump flows into the test beaker.



6

Loosen A pump

Step 6:

1. Loosen Pump A from the back of the unit with a slotted screwdriver. (2 screws)



Step 7:

1. Remove the backing tape from one of the rubber rings.
2. Carefully apply the 2 halves together so they are aligned perfectly.
3. Repeat for the other 2 pieces.

8

Mount the rubber rings in this way



Step 8:

1. Remove the backing tape from one of the half rubber ring from step 7.
2. Align it carefully to the edge of the opening for Pump A as shown in the photo on the right.
3. Do the same for the second piece.
4. Make sure the opening is not blocked by these rubber rings.

9

Screwn in Bushings(2 pc)



Step 9:

1. Included in the kit, screw in the black bushings into the pump. One on each side of the pump.



Reinsert Motor A

Step 10:

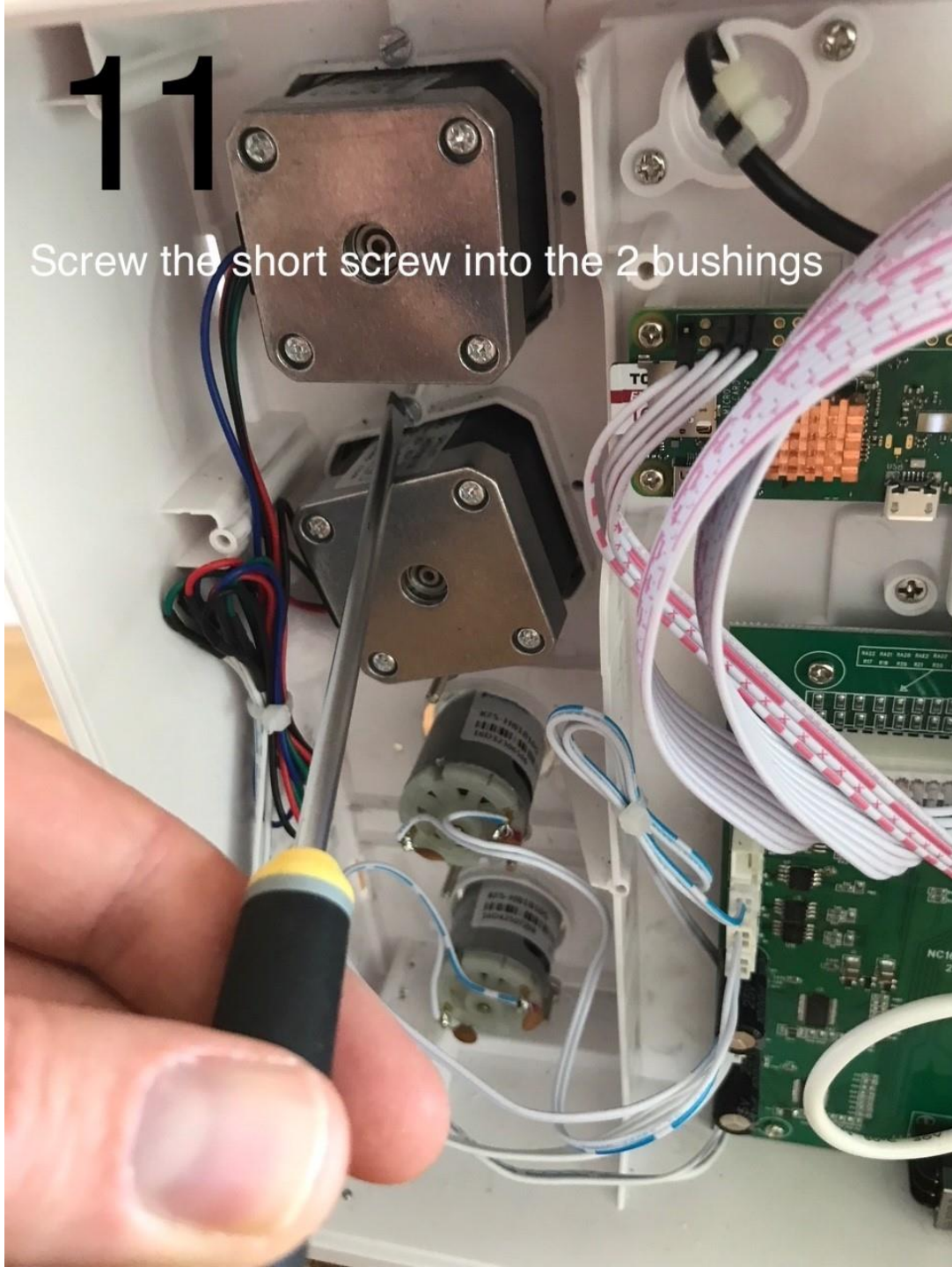
1. Insert Pump A back into the case.
2. Gently push the pump into the case. May need to apply light pressure if the black rubber rings are too close to the edge of the opening.

10

Motor A reinserted

11

Screw the short screw into the 2 bushings

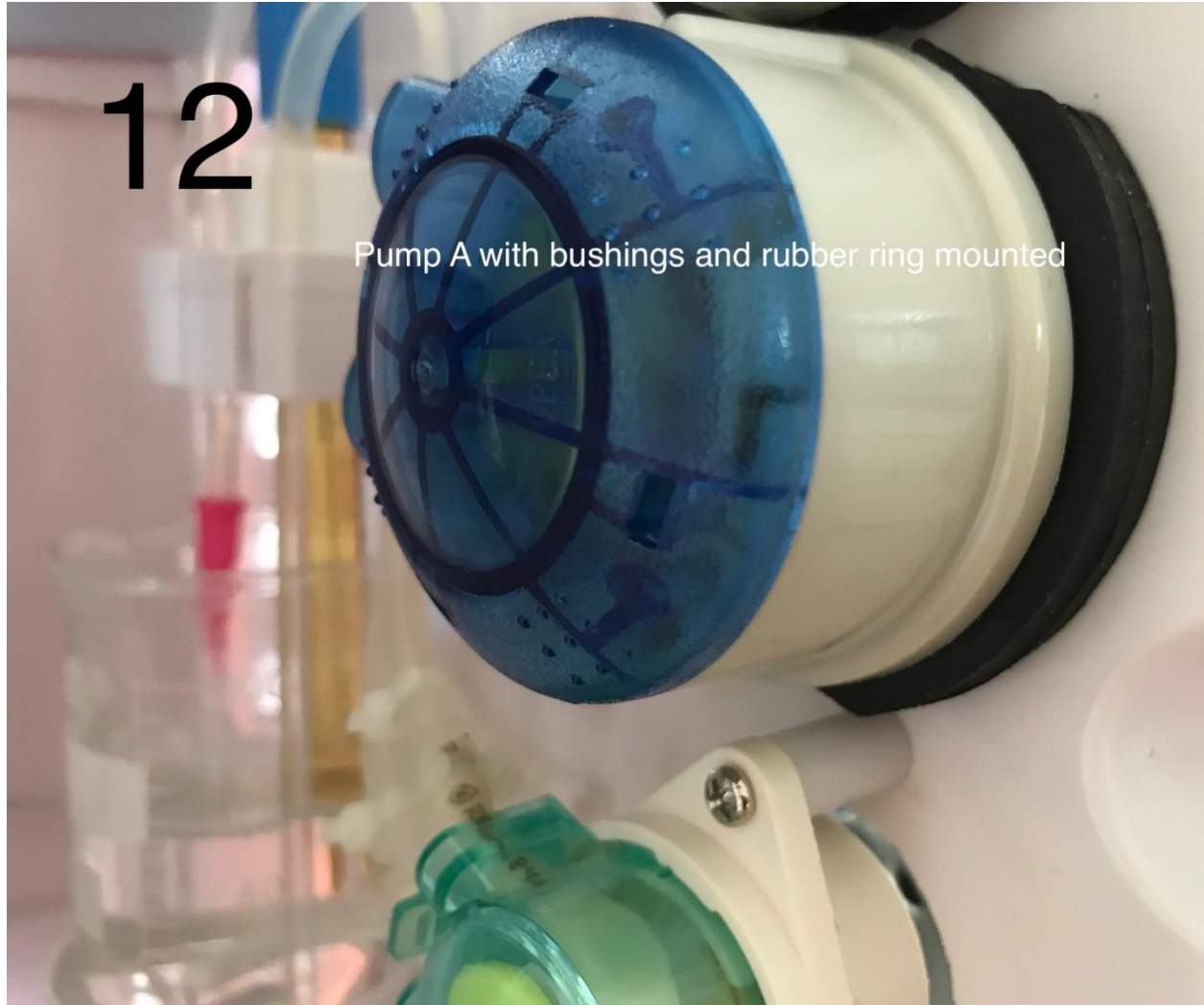


Step 11:

1. Using the 2 short screws included in the kit, fasten the pump to the plastic case.
DO NOT over tighten – stop when you can feel the screw is tight.
2. Try priming Pump A to make sure the pump is not in contact with the plastic case.
3. When the pump is free from the plastic case, the sound will be much more quiet than before.

12

Pump A with bushings and rubber ring mounted



Step 12:

1. Connect back the hoses to the Pump A.
2. Top outlet: water in from tank
3. Bottom outlet: water from pump to test beaker.

End of Document