

EJLOX

ASSEMBLY AND DISMANTLING GUIDE



EJUOX

REQUIRED TOOLS TO BOTH TOOLS TO BO

- Various-size flat screwdrivers
- PHILLIPS SCREWDRIVERS, MEDIUM AND LARGE SIZE
- Torx screwdrivers, size T20 and T25
- ALLEN KEY, SIZE 10
- Wrench, size 13
- Multi-Grip Pliers
- Rubber Hammer



Unscrew and remove all the plugs with the help of a large flat screwdriver







To unscrew the motor-access plug, use the size-10 Allen key



To remove the front cover, unscrew the two screws on the sides and the two on the bottom







Remove the front cover by lifting it carefully and unplugging the display flat cable



Unscrew the four screws in picture to remove the top cover



To remove the side covers, just pull sideways and upwards

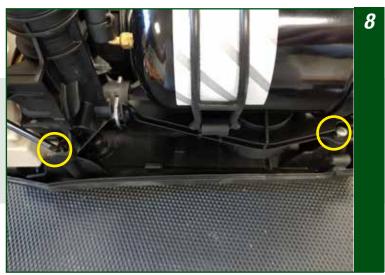


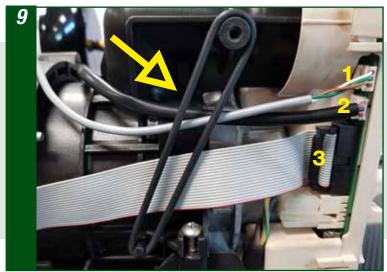
Remove the bottom cover, by undoing its screws



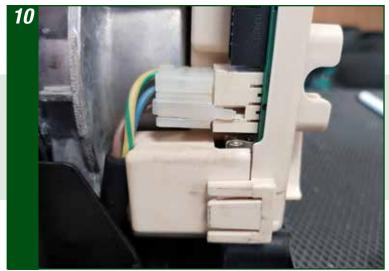


Finally, remove the back cover by unscrewing four screws (the two in picture and the symmetrical ones on the other side)





Pull off the o-ring in picture and keep it separated from the rest: due to its peculiar deformation Unplug the connectors: 1-pressure sensor; 2-flow sensor; 3-display flat cable



Unplug the power cable connector by first lifting the plastic tooth highlighted in the picture



Remove the power cable, paying attention to the positioning (required for a correct reassembly)

Errpox





Turn the connector counterclockwise until in position





Unscrew the two Phillips screws and the two torx screws



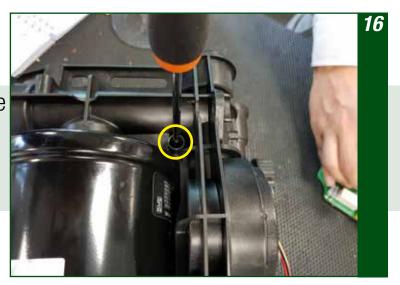
Remove the connector with the help of a flat screwdriver, be careful not to damage the plastic parts; remove the main board block



Check the connector's condition and if necessary replace the o-ring



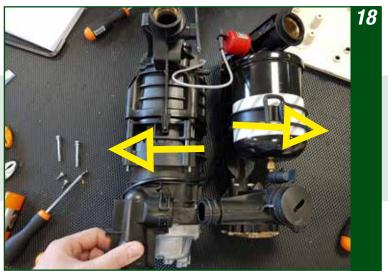
Unscrew the screw in picture



Pull out the klammer in picture



Separate the two main blocks by pulling them apart





Check the condition of the fittings



Remove (pull and lift) the rubber protection which keeps the expansion vessel in place



Pull out the klammer



Remove the expansion vessel just by pulling it out of its fitting



To access the non-return valve, unscrew the plug (keep it separate from the other plugs, since they have a different thread)



Remove the non-return valve by pulling it out with the help of the multi-grip pliers

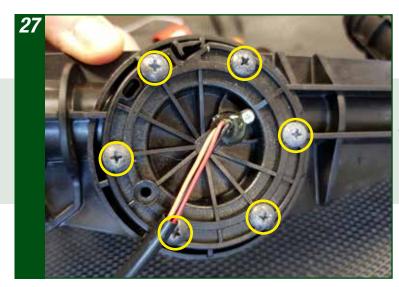




Check its conditions and, if required, replace the o-ring



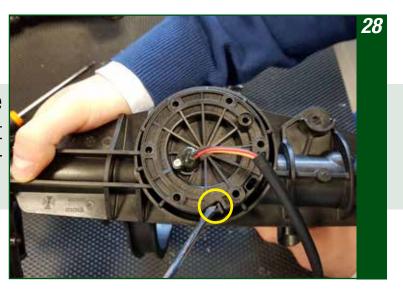
Remove the pressure sensor by unscrewing it (counterclockwise); if required, replace the o-ring



Unscrew the flow sensor's six screws

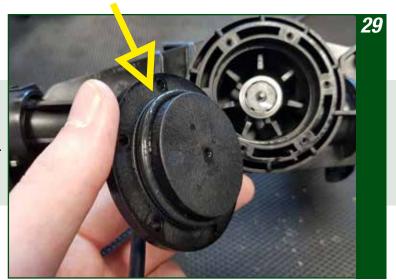


Take it off by pulling from the highlighted position with a flat screwdriver



Check/replace the o-ring

Remove the flowmeter

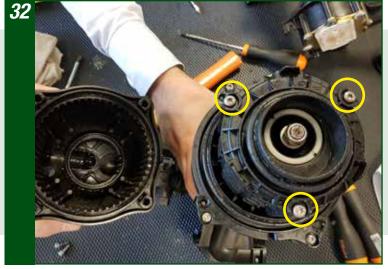


Unscrew the four torx





Remove the pump body (you will need the hammer and/or a flat screwdriver)



Unscrew the three torx screws to uncover the stages

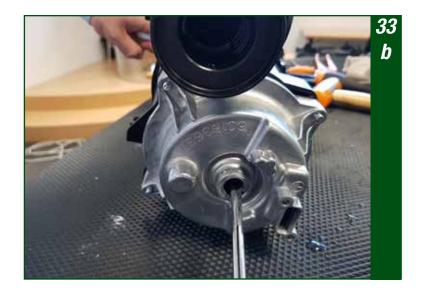
NOTE: these three screws are torx screws in E.sybox Mini 3, while they are Phillips screws in any previous E.sybox Mini model



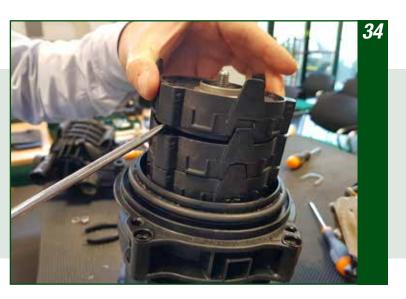
To undo the top nut, keep the shaft still with a flat screwdriver from the bottom, and unscrew the nut with the wrench (or vice versa)

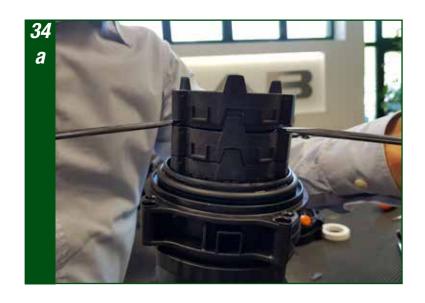






Use 1 or 2 flat screwdrivers to lift the stages and remove them one by one. Lift from the diffusers edges and not from the impellers. Be careful not to damage the plastic.











Pull out the washer



Extract the mechanical seal and pull it out







Unscrew the 4 screws at the corners (see picture) and remove the two plastic bands



Extract the seal disc



Check the shaft for corrosion or other problems, check the seal disc o-ring



Use the T20 torx screwdriver to remove the four screws, then, with the help of flat screwdrivers, separate the motor body from the motor casing





Check the casing, the o-rings and the low part of the shaft





NOTE: For an easier assembly, lubricate all the o-rings and gaskets.

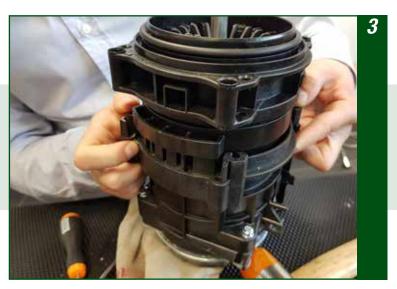
Reinstall the motor cover by fastening its four torx screws



Insert the seal disc



Put back the plastic bands as shown in picture





Insert and fasten the four corner screws



Insert the mechanical seal in the shaft and push it well until it looks like in the next picture





Insert the washer



Insert the first stage in the position shown in picture, making the highlighted parts match



Insert the impeller
Repeat for all the stages (3 total stages for E.sybox Mini 3, 2 stages for all the previous E.sybox Mini models)





Put back the nut and its washer



Fasten the nut with the wrench, keeping the shaft blocked with a screwdriver at the same time



Put back the cover of the last stage

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Check the o-ring, replace if necessary



Screw the three torx screws (Phillips screws if the model is older than Mini 3)

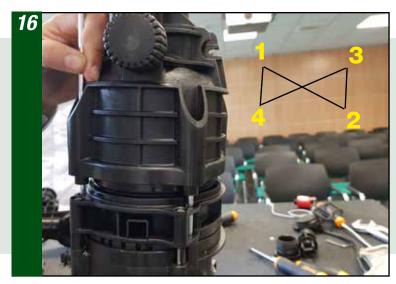


Put back the pump body so that the highlighted parts are on the same side, and push down well



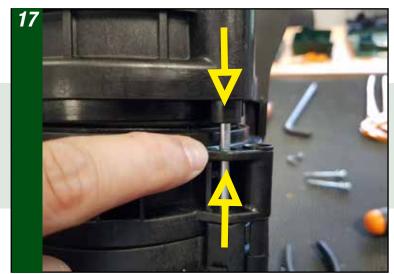


Tighten the four torx screws of the pump body



For a tight and balanced fastening, screw the four screws a little at a time and following the order shown in picture

NOTE: Optimal torque range: 2.7 – 3.1 Nm



Tighten till the parts shown in picture touch

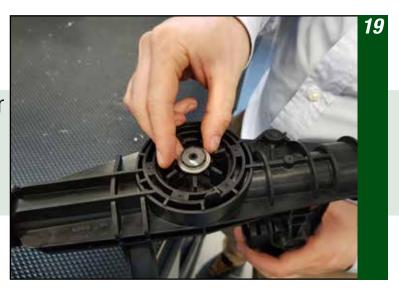


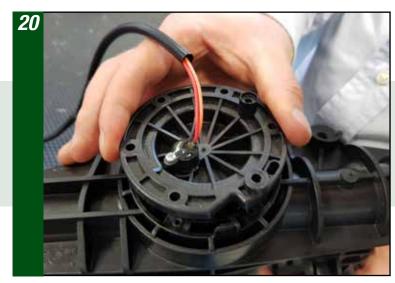
Insert the non-return valve and screw the plug (remember it is different from the external plugs)



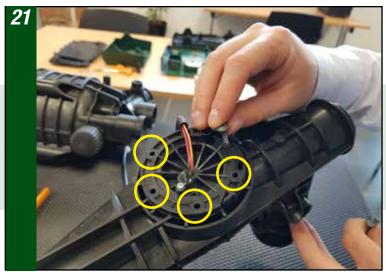


Insert the flowmeter





Put back the flow sensor in the right position



Screw its six screws



Screw the pressure sensor (clockwise)



Insert the pressure vessel through its own fitting



Place the vessel rubber protection



By using the pliers, secure the klammer back to its position

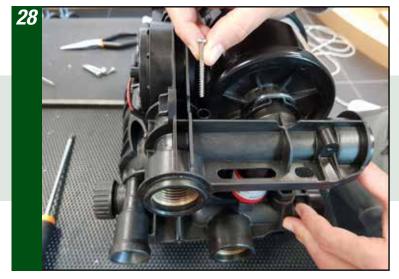




Gently hammer to insert the klammer completely



Reconnect the sensors block with the pump



Secure it with the screw shown in picture

Errpox



Put back the klammer



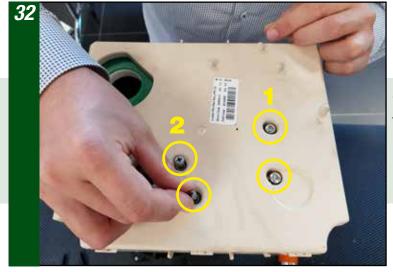
Put back the pump's upper gasket (replace if necessary)



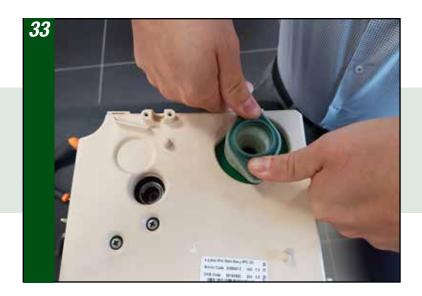
Position the main board correctly, help yourself with the screws and the pump body gasket

Apply a new layer of thermal paste on the heatsink before reinstalling the main board





Screw the two torx (1) and the two Phillips (2) screws



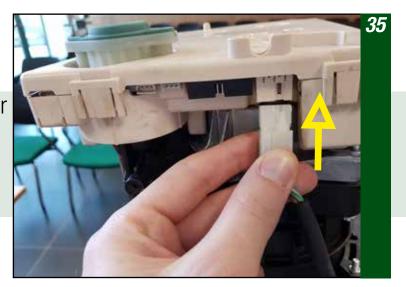
Place the connector in the position shown in picture and push down until it clicks



Turn 90 degrees clockwise

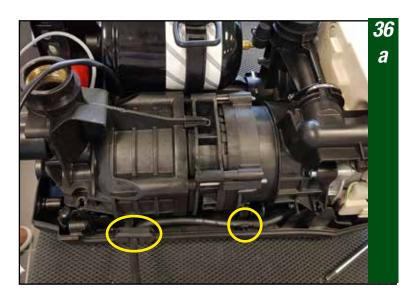


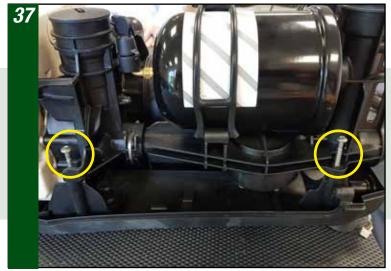
Insert the power cable connector



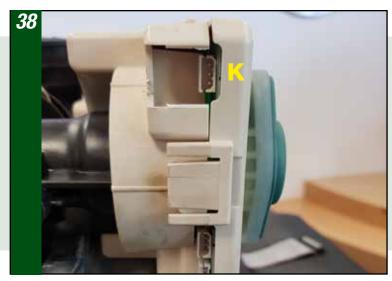
Reposition the power cable correctly as shown in pictures







Place the whole inside block on the back cover and secure it with its four screws (the two in picture and the corresponding ones on the other side)



Check the connections for dirt, oxide, etc before reconnecting all the components

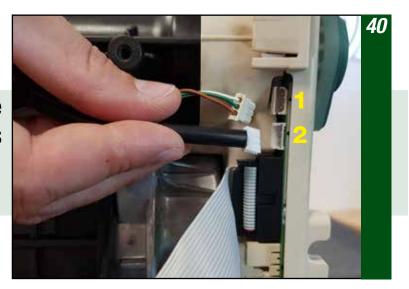
If present (KIWA version of E.sybox Mini), reconnect the KIWA pressure sensor (K)



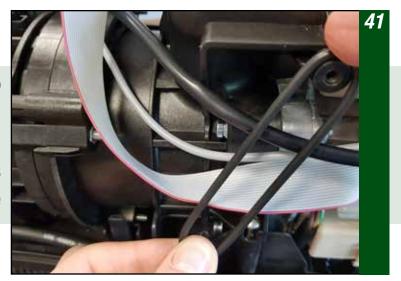
Plug in the display flat cable



Plug in the connectors of the pressure (1) and flow (2) sensors



Put back the specific o-ring (do not use other o-rings of the pump) and make sure it is positioned correctly, keeping all the cables inside



Put back the bottom cover, aligning it carefully to the main block





Screw the four screws of the bottom cover



Insert the side covers, first pushing downwards and then sideways. Pay attention to the power cable position



Place the top cover



Screw all the plugs



Plug in the display flat cable to the display board connector, on the lower side of front cover



Put back the front cover





Screw the two side screws (arrows) and bottom screws (circles) to secure the front cover



Screw all the plugs





Screw the motor-access plug by using the Allen key



