

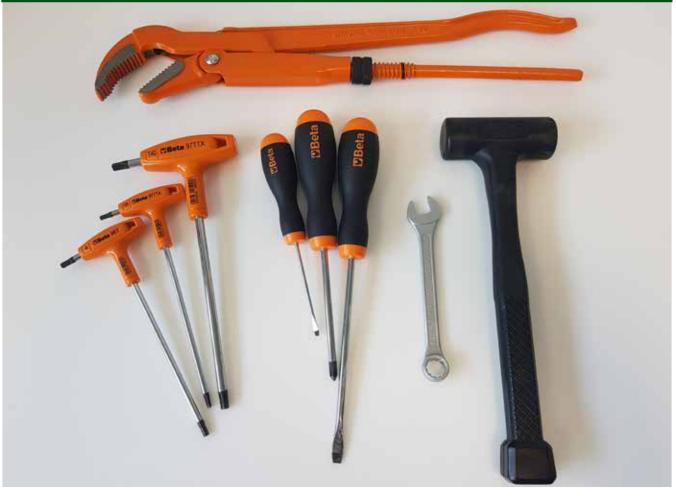
## E.JJOX

## ASSEMBLY AND DISMANTLING GUIDE



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#### **REQUIRED TOOLS**



- VARIOUS-SIZE FLAT SCREWDRIVERS
- Phillips screwdrivers, medium and large size
- Torx screwdrivers, size T20 and T25
- Allen Key, Size 4
- WRENCH, SIZE 13
- MULTI-GRIP PLIERS (2 PCS)
- RUBBER HAMMER



Pull up and remove the transparent cover



Take out the hex key tool



Take out the flat tool





Pull out the small key tool



The small key may be used to unscrew the front display's small screws. This will allow the user to rotate the display and adapt the view to the position of installation



Put the hex key tool and flat tool together: the flat tool may be inserted both in the hole no. 1 and 2, according to the needs and comfort of the user





With the resulting composite tool, unscrew the all the external caps

















Note that the non-return valve access cap (left) has a bigger size than the other ones (1 ¼" vs 1"). Be careful not to mix them up when reassembling the pump



Pull out the non-return valve. Use the composite tool (or pliers)



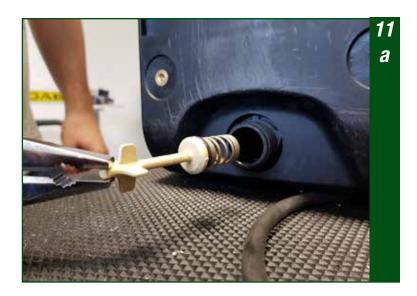
Unscrew the self-priming valve access cap





## Pull the self-priming valve out (use pliers if you cannot do it manually)



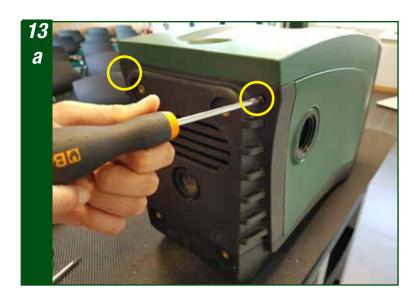


If the pump is working with a positive suction head, trade places of the screw and the spring to exclude the self-priming effect and avoid noises during priming





To remove the front cover, unscrew the highlighted screws from the top cover and the bottom cover





Lift the front cover, paying attention not to pull the flat cable excessively



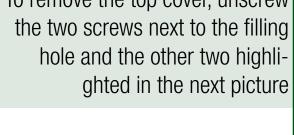
## Erybox

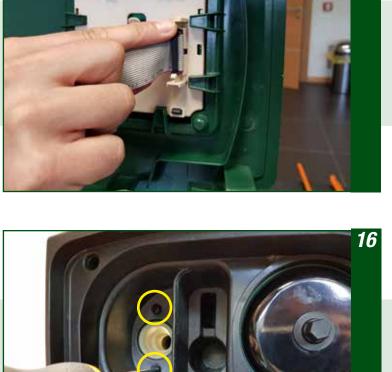


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Unplug the display flat cable from the display board

To remove the top cover, unscrew the two screws next to the filling hole and the other two highlighted in the next picture

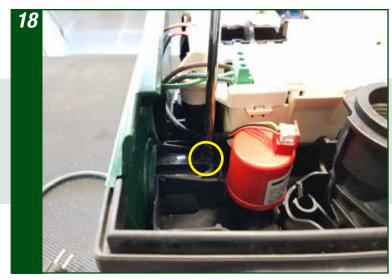








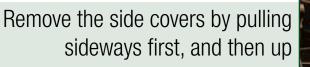
Remove the top cover

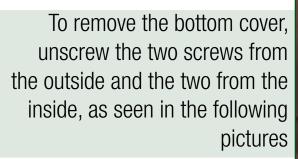


Remove the fittings on the sides with the help of a flat screwdriver, by inserting it as shown in the picture below



## e.rybox





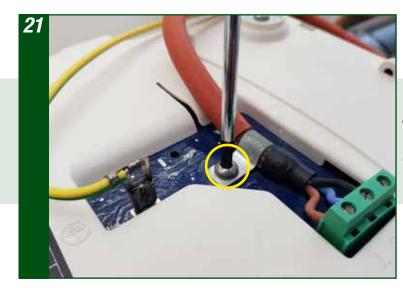






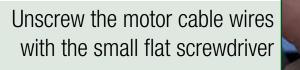




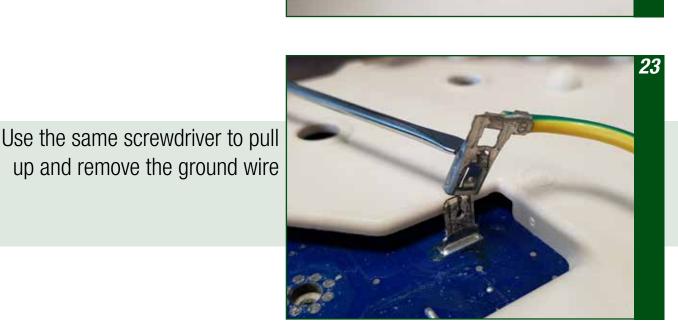


Using the T20 pin torx screwdriver, remove the metal band that secures the motor cable to the main board

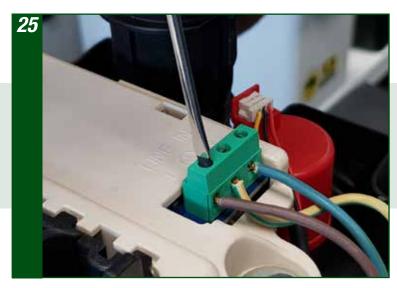
## e.rybox



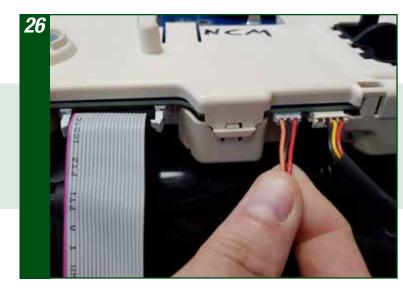
Pay attention to the position of the motor cable, in particular the slots through which it passes (see picture). The cable must be positioned identically when assembling the pump







Unscrew the power cable wires



Unplug the pressure sensor (1) and flow sensor (2) connectors

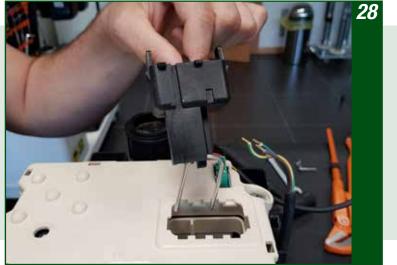


Lift and remove the extractor accessory in picture





To easily remove the pressure vessel's klammer, after pulling out the extractor, rotate it by 180° and reinsert it. Push it well till it clicks. Then pull it out again, and you will see it has caught and removed the klammer

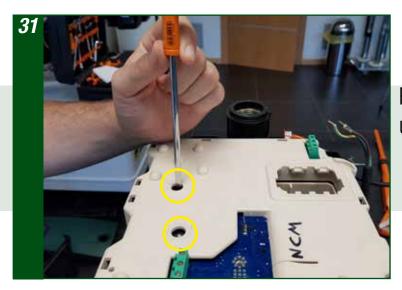


Easily pull out the pressure vessel



Unscrew the two screws and washers highlighted in this picture

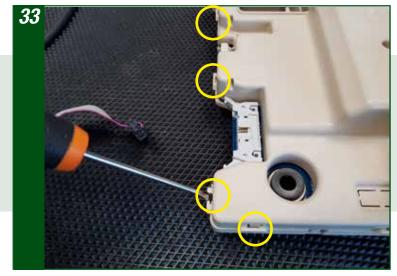




Remove the other two screws by using the Allen key



Gently lift and remove the main board block



If an inspection/analysis of the electronic board is required, remove the covers by opening the plastic joints with the help of a small flat screwdriver



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Before removing the pressure sensor, remove the protection cap to check the state of the connection wires

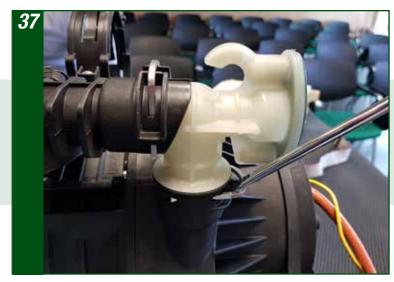


Remove the pressure sensor by unscrewing it counterclockwise

Unscrew the three circled screws to detach the suction duct





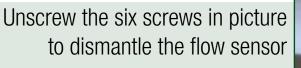


Pull out the klammer on the filling duct side



Lift and remove the sensors block

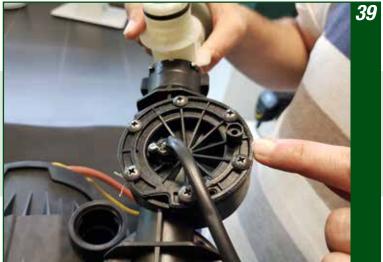
## e.rybox

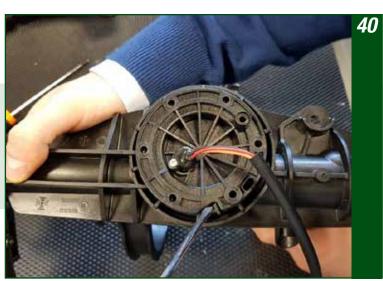


Lift the cover with a screwdriver inserted in the marked part

Check/replace the O-ring

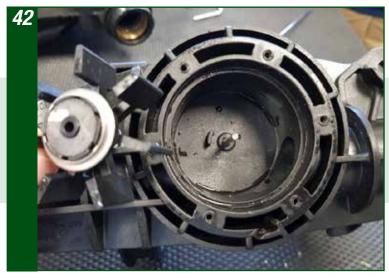




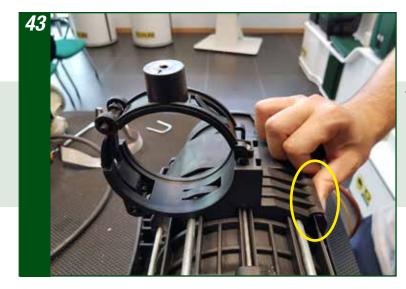




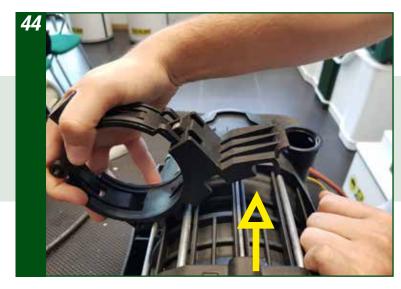




Remove and check the flowmeter



To remove the pressure vessel's support, first lift and detach the highlighted part



Tilt it as shown in picture and lift to remove completely





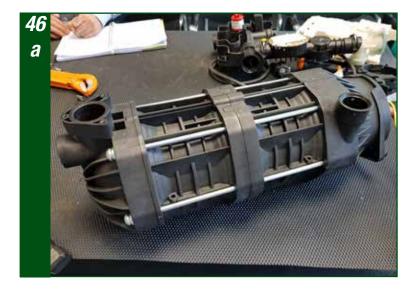


Remove the back cover first by unscrewing the two circled screws



Then use the rubber hammer to detach the cover from the pump





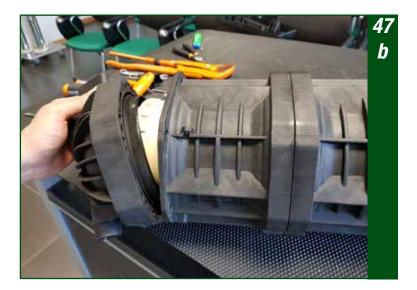


Unscrew the six torx screws (T40 torx screwdriver) and use the rubber hammer to remove the pump body

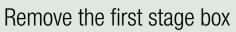










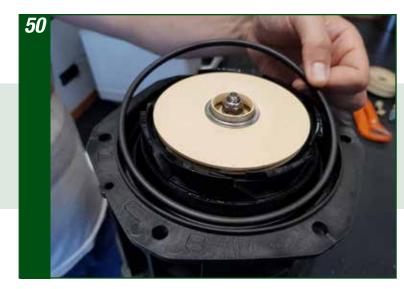








Use the rubber hammer to detach the outer cover



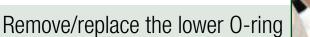
Remove/replace the upper O-ring

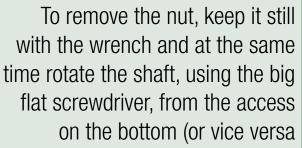


Lift and remove the cover



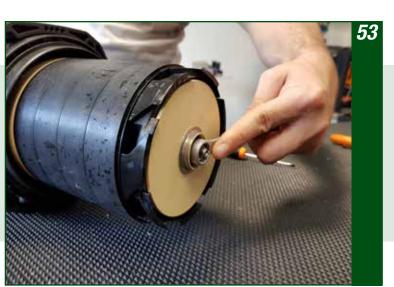
## e.rybox















After removing the nut, remove the washer



Using two screwdrivers as levers, lift and remove the first stage



You should be able to remove the other stages (or most of them) all together, otherwise keep using the screwdrivers to facilitate the operation







If required, dismantle the stages in their single parts: diffuser (conveyor, left, and diffuser box, right) and impeller (middle)



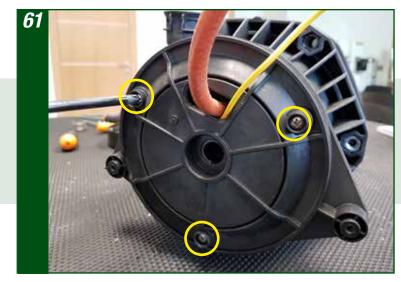
Remove the last stage box

Remove the washer

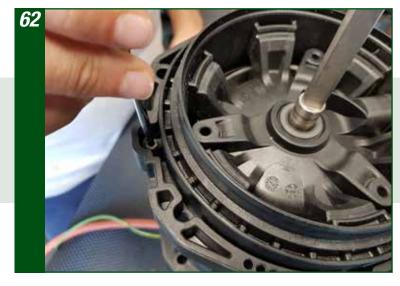




Remove the mechanical seal's rotating part



Unscrew the three screws of the bottom motor cover



Remove the torx screws (use the T20 pin torx screwdriver) to undo the motor casing





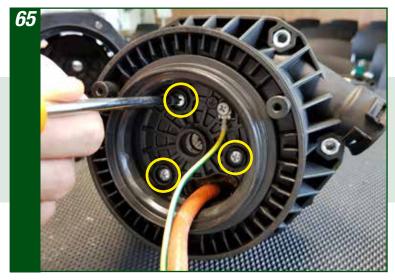


By means of the rubber hammer, remove the casing

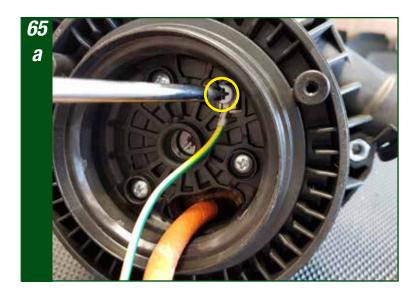


Remove/replace the O-ring





Unscrew the fours screws (three fastening screws + ground wire) and remove the bottom motor support

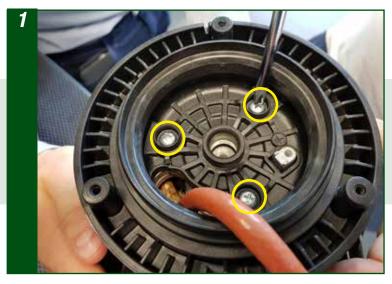




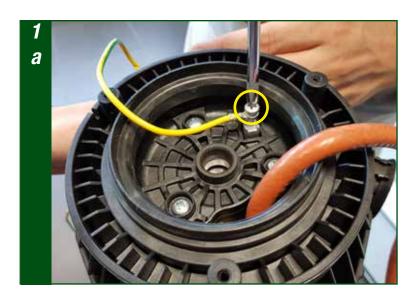








Assemble the motor support by screwing the four screws in the pictures (three fastening screws + ground wire)

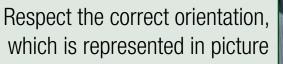




Insert the motor cable and the ground wire in the hole of the lower motor cover, and let it slip in position

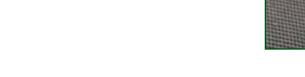
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## e.rybox

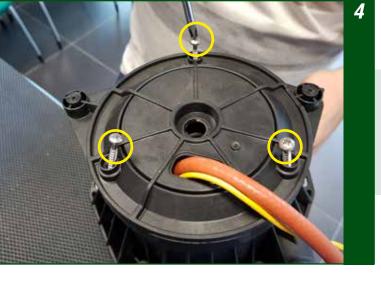


Screw the three screws and close the cover

Reposition the motor vertically, install the O-ring







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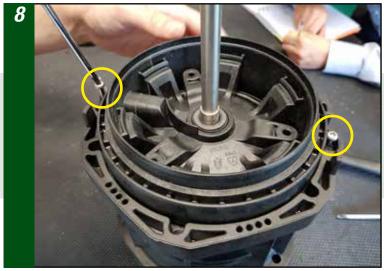
#### **ASSEMBLING**



Insert the main motor casing, aligning the parts as shown in picture



Using the two multi-grip pliers, tighten the two parts, acting on opposite sides at the same time (be careful not to damage the plastic)



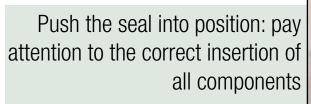
Fasten the two torx screws





Insert the mechanical seal, first the fixed part (if it had been removed), then the rotating part







Insert the washer







Insert the bottom stage box



Insert all the stages









Always push downwards to make sure all the hydraulic parts are well packed



Insert the nut washer

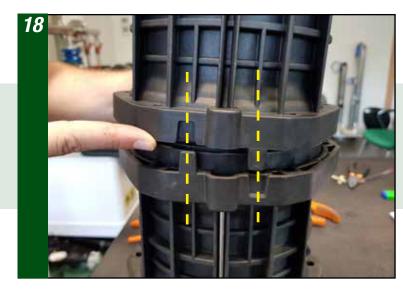
Insert the nut and secure it by holding it still with a wrench and screwing through the shaft's bottom access hole using the big flat screwdriver







Install the O-ring



Insert the plastic body covering the hydraulics, aligning it correctly as shown in picture



By means of the two multi-grip pliers, tighten the body downwards, acting on opposite sides at the same time (be careful not to damage the plastic)





Insert the top stage box



Install the pump body's O-ring



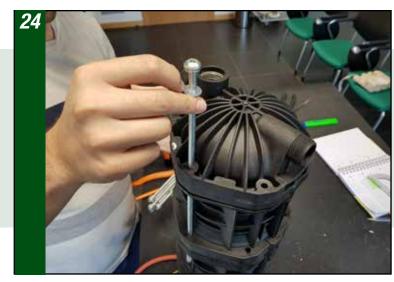
Insert the pump body in the right position (see picture)



## **ASSEMBLING**



Using the two multi-grip pliers (and the rubber hammer if required), close the pump body



Insert and screw the six torx screws, alternating the sides for a more uniform tightening

**NOTE:** Optimal torque range: 5.8 – 6.2 Nm







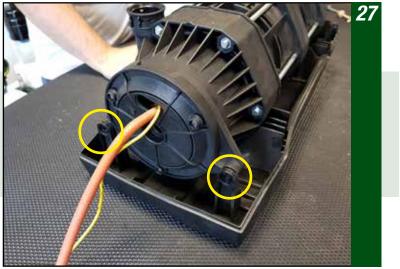


While screwing, keep the nut in position

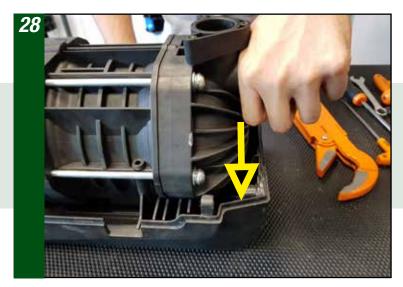
Place the pump on the back cover



First insert the part highlighted in picture



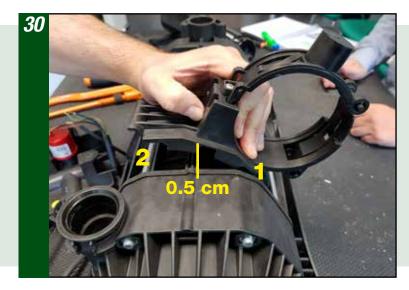




Then push downwards from the top part of the pump



Tighten the two screws in picture



To install the pressure vessel's support, insert from position no. 1 first, then push down position no. 2 and slot in the component

**NOTE:** this component will not fit any possible position. The distance at which it will, is around 0,5 cm from the pump body



e.rybox

Replace/install the O-ring of the filling duct

Assemble the sensors block with the pump by pressing it in position

Insert the klammer







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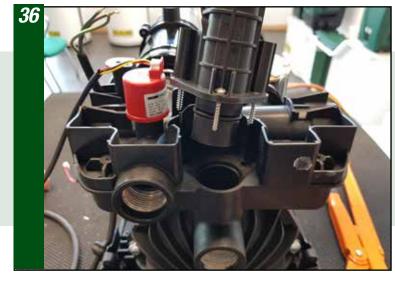




Insert the pressure vessel through its support and into its fitting



Secure the vessel by inserting the klammer



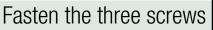
Insert the suction duct: there is only one right position, due to the particular shape of the component and the consequent positions of the screws





Push the part well in position





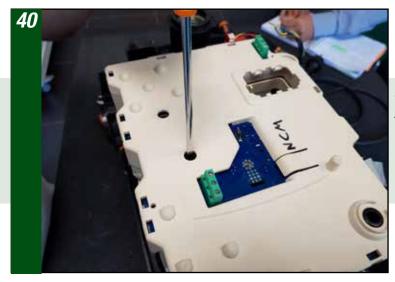




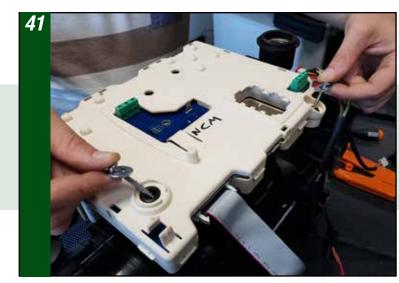
NOTE: spread new thermal paste on the heatsink before reinstalling the main board



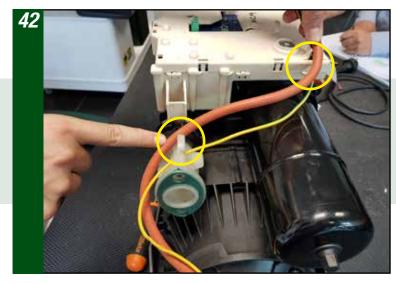




Screw the two hex screws using the Allen key



Screw the two Phillips screws and do not forget the washers



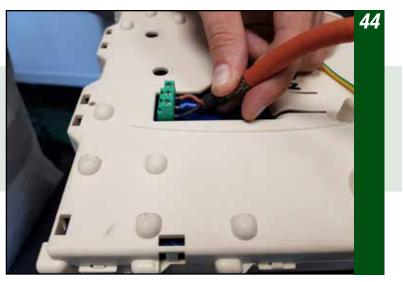
osition the motor cable as shown in picture, letting it pass through the right spots



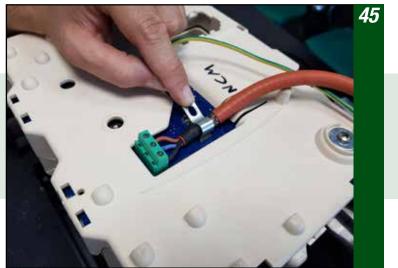


Insert the ground wire



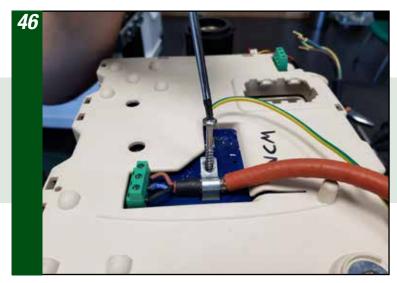


Insert and fasten (using the small flat screwdriver) the motor cable wires



Insert the metal strip

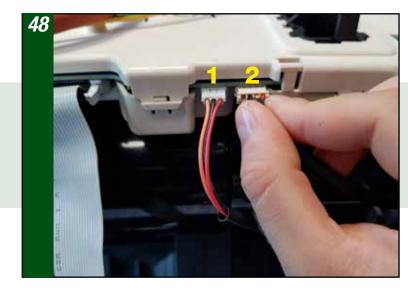




Secure the strip by screwing it to the board



Insert and fasten the power cable wires

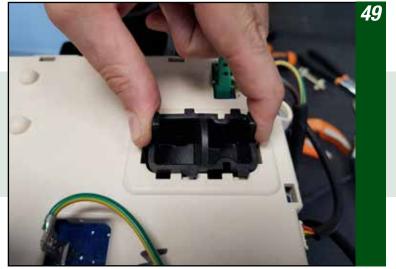


Plug in the connectors of the flow (1) and pressure (2) sensors





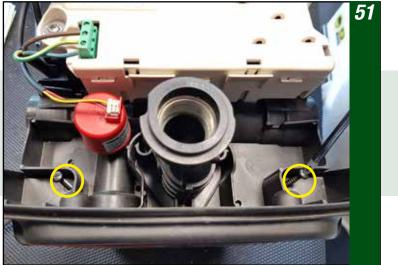
Insert the extractor accessory



Insert the bottom cover

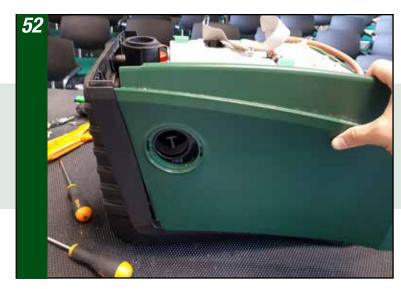


Screw the four screws highlighted in this picture and in the following one



## **ASSEMBLING**





Insert the right-side cover

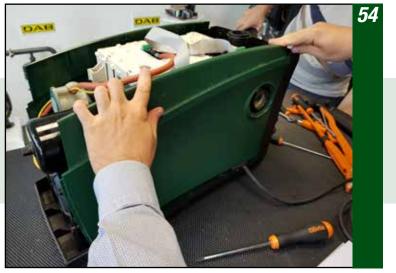


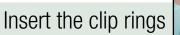
Before inserting the left-side cover, place the cable gland in the right position





Insert the left-side cover



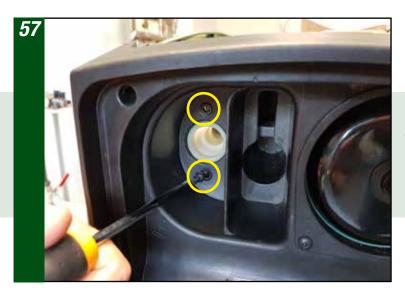




Insert the top cover







Screw the two screws next to the filling-duct hole



Screw the two screws highlighted in the picture



Plug in the display flat cable at both extremities







Insert the front cover



To fasten the front cover, screw the two screws seen in this picture, on the top-cover side, and the two in the following picture, on the bottom-cover side







Before reinstalling the non-return valve, check/replace the O-rings



Use the composite tool to insert the non-return valve

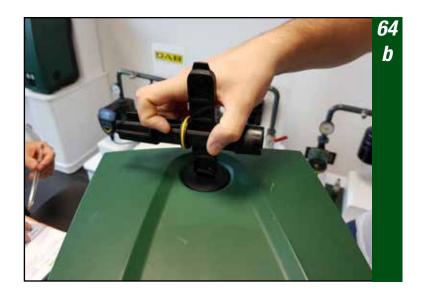


Close all the external caps by screwing them with the composite tool



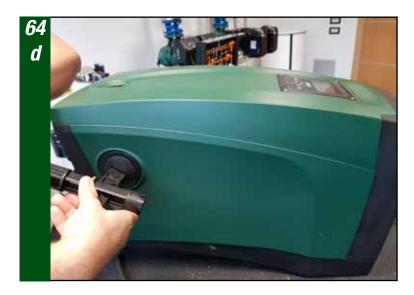




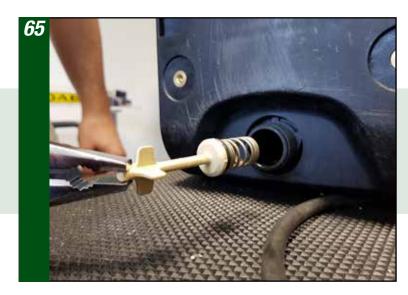












Insert the self-priming valve (Negative suction head position)







(Positive suction head positiion)

Screw the cap

