

GRUNDFOS
ILLUSTRATED SERVICE INSTRUCTIONS

MQ
50/60 Hz



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Fitting the non-return valve in the suction port

1



Remove the suction port.

2



Fit the non-return valve into the suction port.

3



Fit and tighten the suction port.

Dismantling the pump

1



Remove the screw of the clamp.

2



Remove the clamp.

3

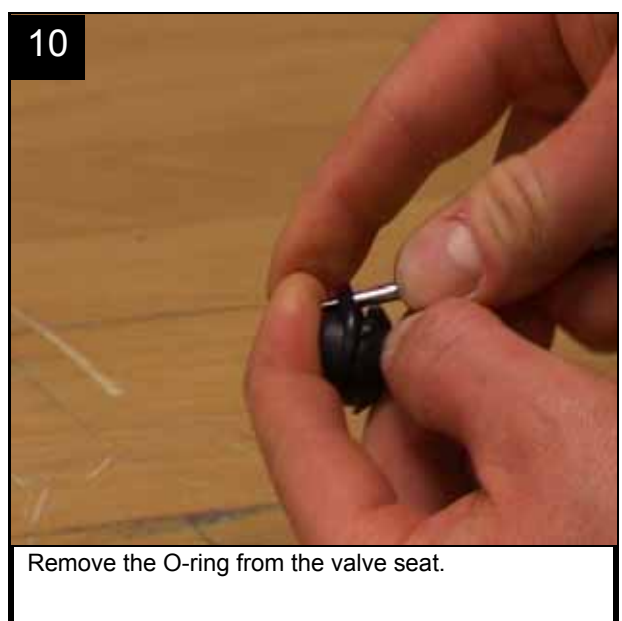
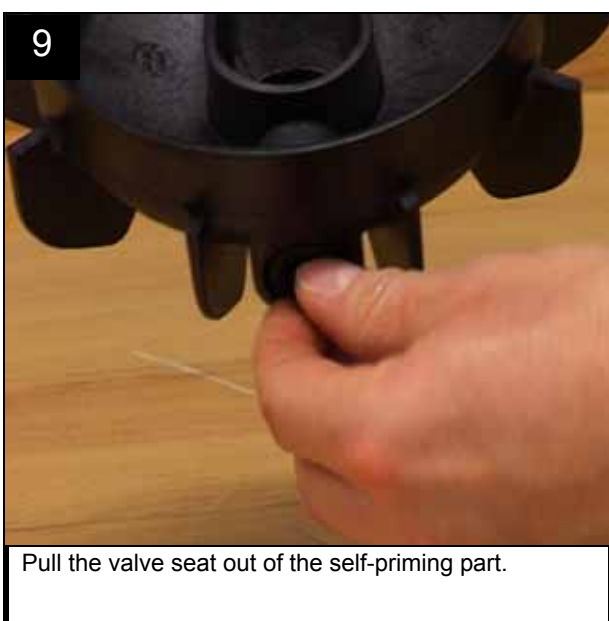
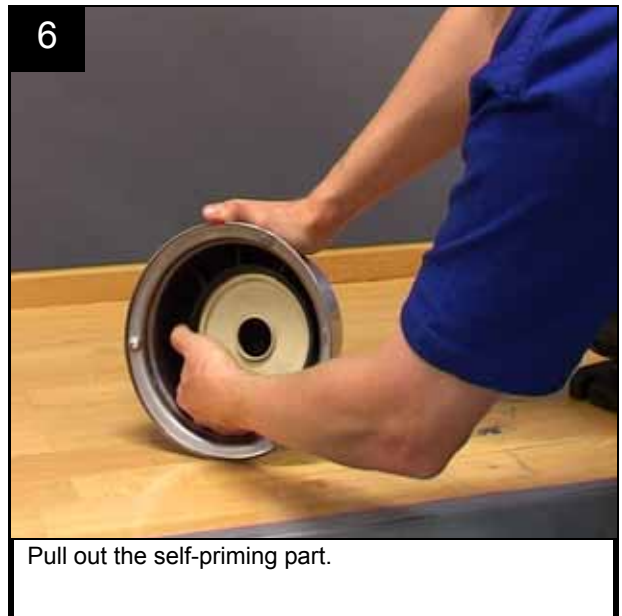


Remove the screws of the pump sleeve.

4



Loosen the pump sleeve using a screwdriver.



11



Remove the O-ring from the inlet part.

12



Remove the plug in the middle of the motor cover.

13



Hold the shaft with a screwdriver.

14



Slacken the impeller nut while holding the shaft.

15



Remove the washers.

16



Remove the impellers and chambers.



Remove the washers.



Pull off the rotating shaft seal part using two screwdrivers.



Remove the stationary shaft seal part if the motor is not to be pulled out.



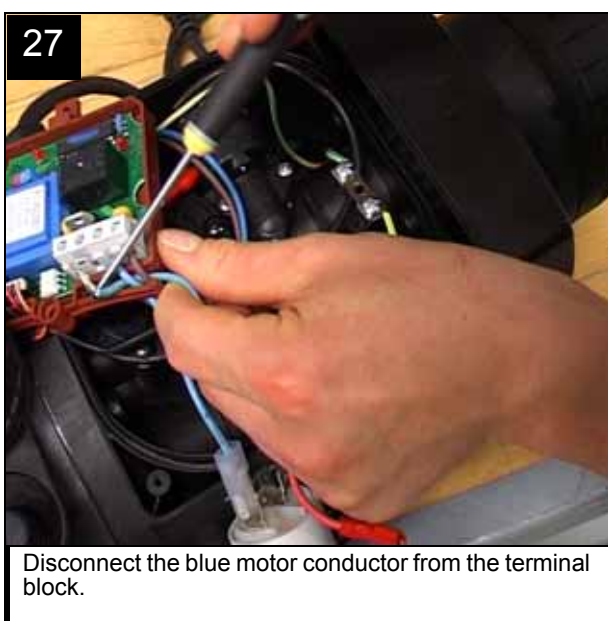
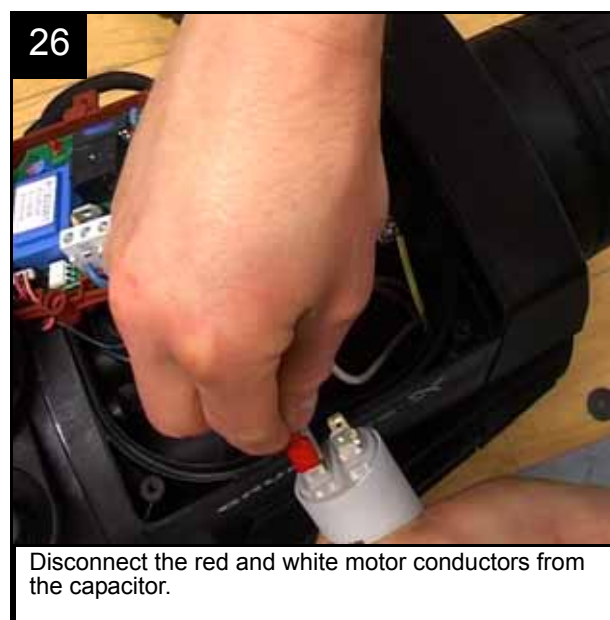
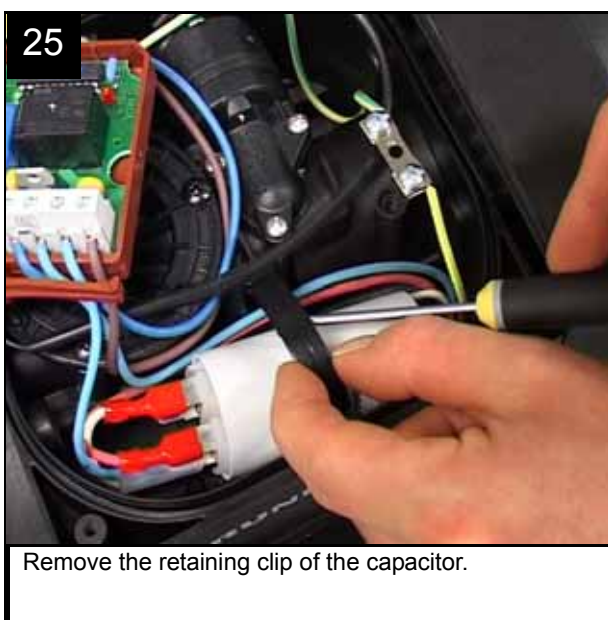
Insert a screwdriver between the pump housing and the rubber ring, and prise out the stationary shaft seal part.



Pull the rubber ring out of the pump housing using a screwdriver, and remove both rings.



Remove the four screws of the terminal box cover.







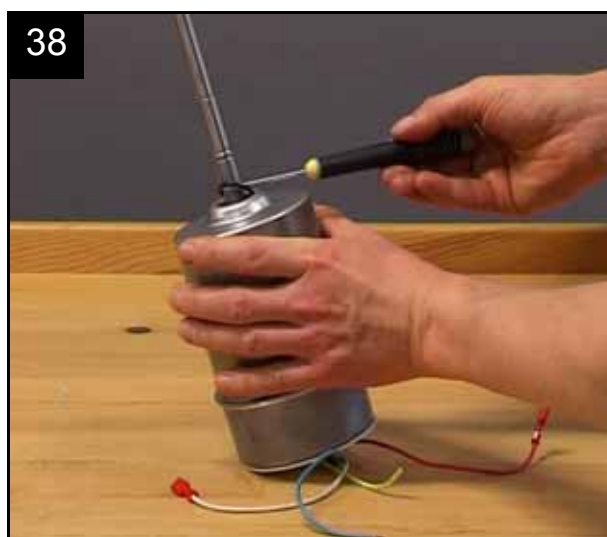
Pull out the motor conductors.



Push out the motor.



Remove the O-ring from the motor.



Remove the O-ring on the shaft using a screwdriver.



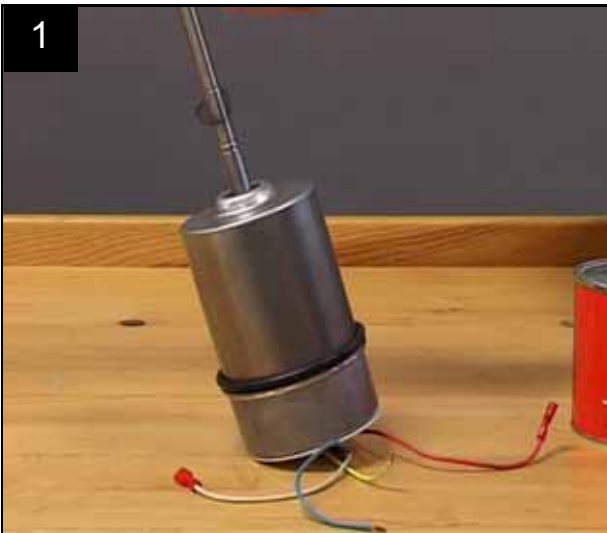
Remove the stationary shaft seal part if it has not been removed (picture 19).



Remove the rubber ring.

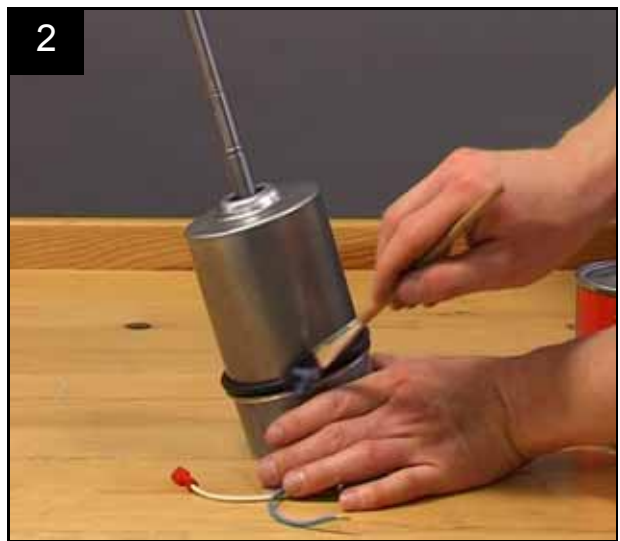
Assembling the pump

1



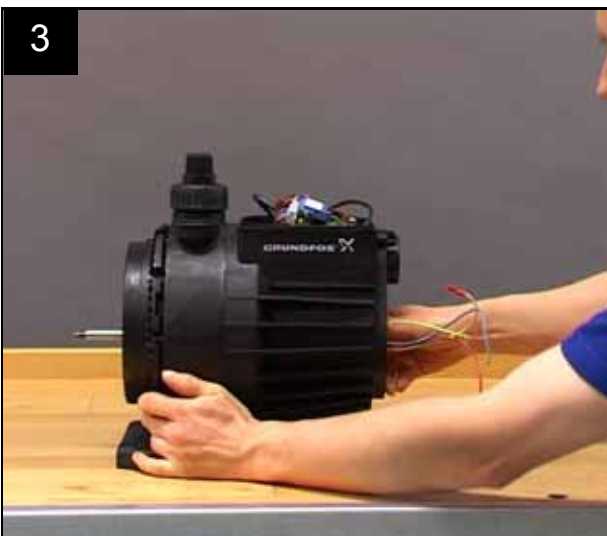
Lubricate the O-ring for the motor shaft with O-ring grease, and fit it on the shaft.

2



Fit the O-ring on the motor, and lubricate it with O-ring grease.

3

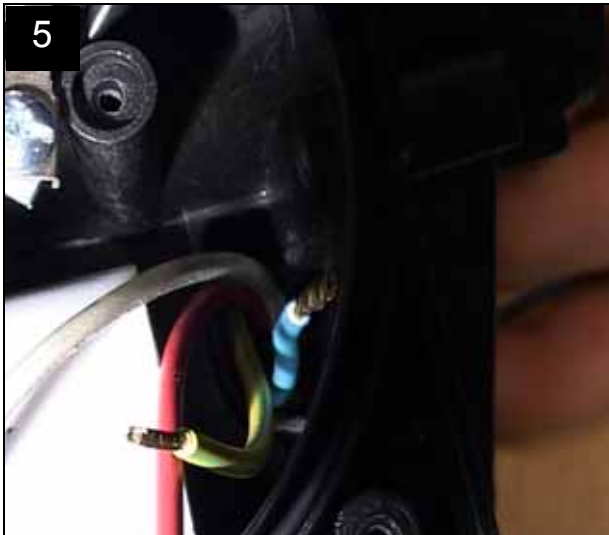


Push the motor home in the pump housing.

4



Take the motor conductors through the hole into the terminal box.



5

The conductors enter the terminal box through the bottom.



6

Lubricate the O-ring of the end cover with O-ring grease.



7

Fit the end cover.



8

Lubricate the O-ring of the pressure tank with O-ring grease.



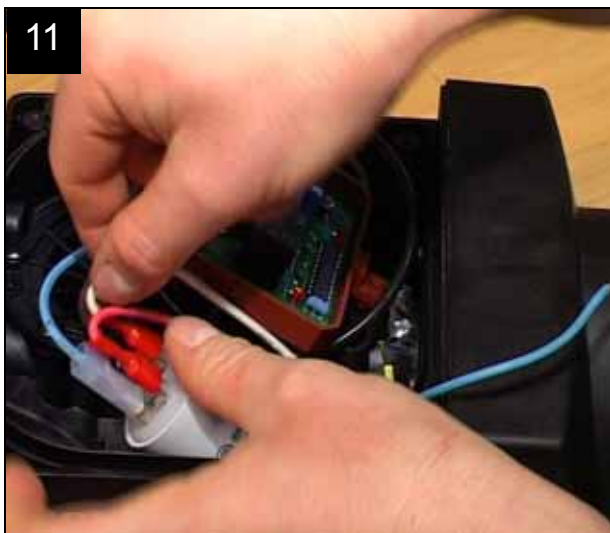
9

Screw the pressure tank into the hole. Tighten the pressure tank by hand.

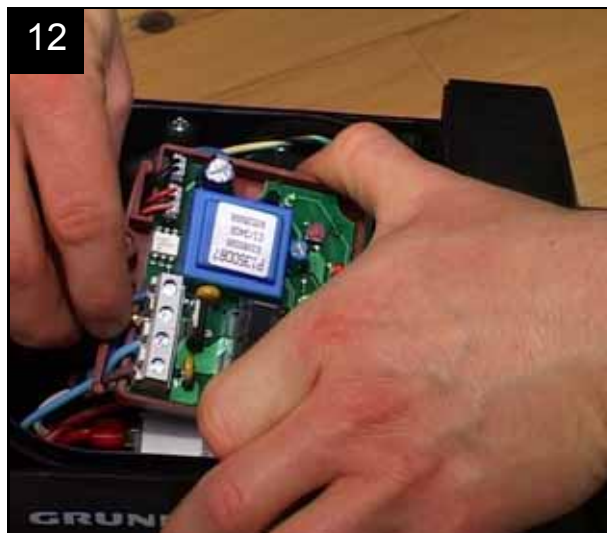


10

Fit the cover on the pressure tank.



11
Connect the motor conductors to the capacitor. The red conductor together with the blue one. The white one by itself.



12
Fit the blue conductor from the motor into the terminal block, and fix it.



13
Fit the retaining clip on the capacitor.



14
Fasten the control unit.

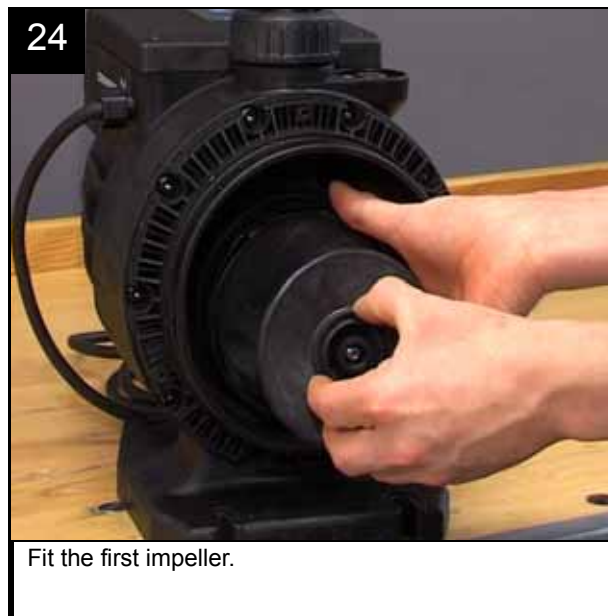
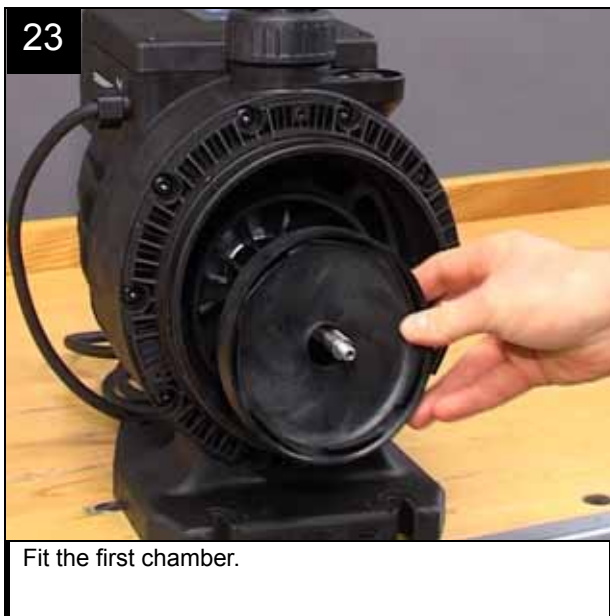


15
Tighten the screw to fix the earth conductor.



16
Fit the terminal box cover with the four screws.











Fasten the pump sleeve.



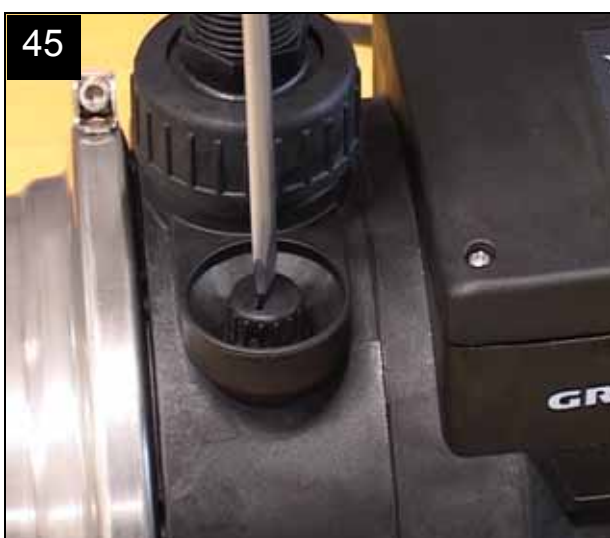
Fit the clamp on the pump.



Fit the screw in the clamp and tighten.

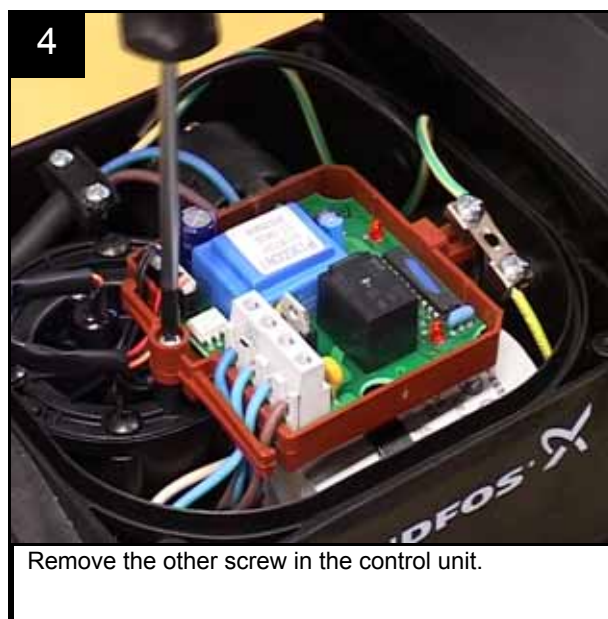


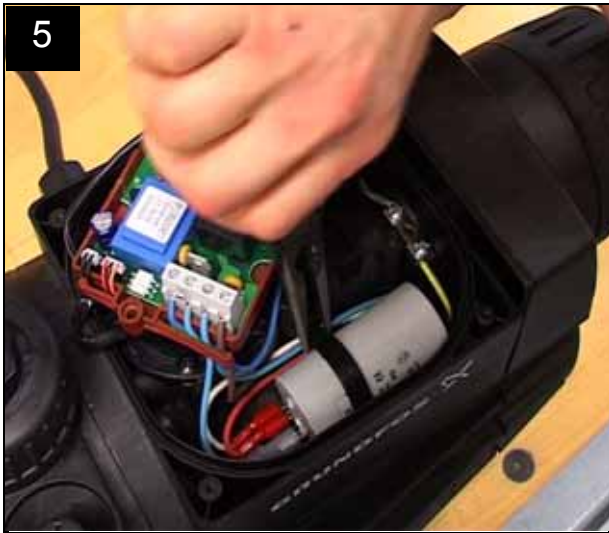
Fit the plug into the end cover.



Tigten the drain plug lightly.

Replacing the capacitor





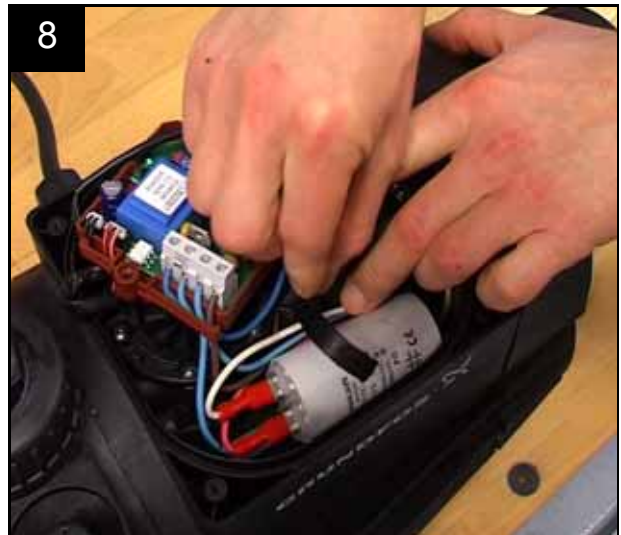
Remove the retaining clip of the capacitor.



Remove the conductors from the capacitor. Note their colour and position.



Connect the conductors with the new capacitor. The red conductor together with the blue one. The white one by itself.



Fit the retaining clip of the capacitor.

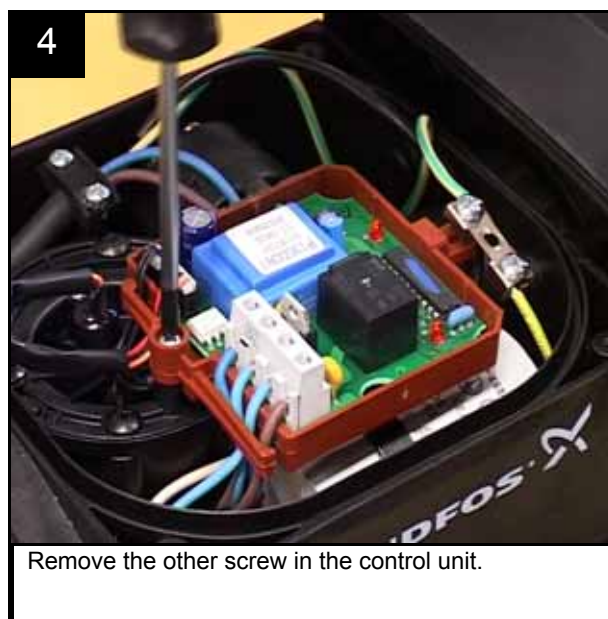


Fix the control unit and earth terminals with two screws.



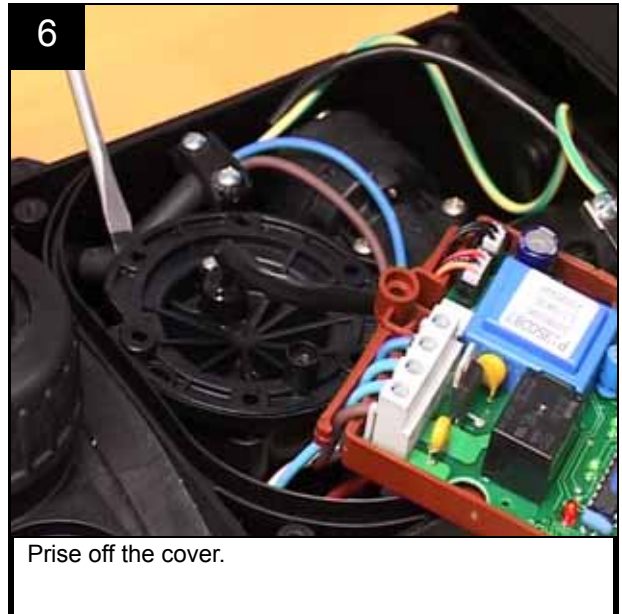
Fit the terminal box cover.

Replacing the flow sensor

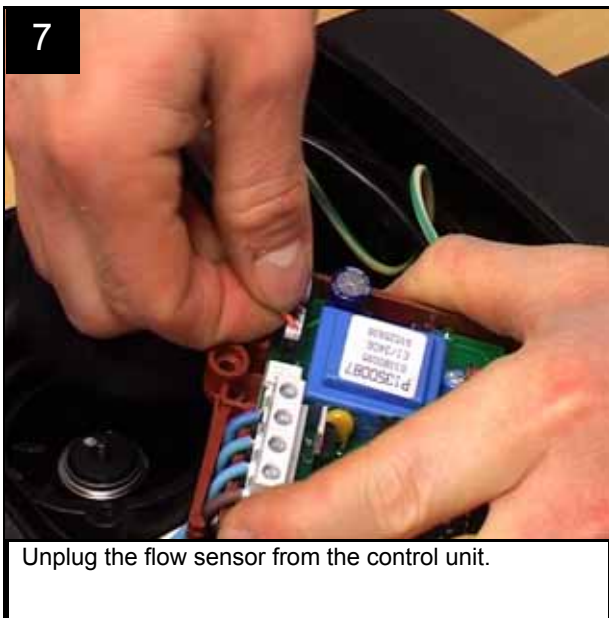




Remove the screws of the flow sensor cover.



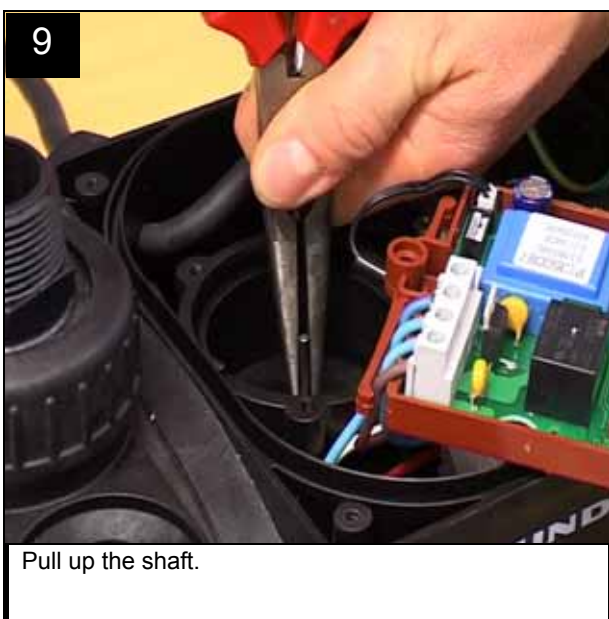
Pry off the cover.



Unplug the flow sensor from the control unit.



Lift up the flow sensor wheel.



Pull up the shaft.



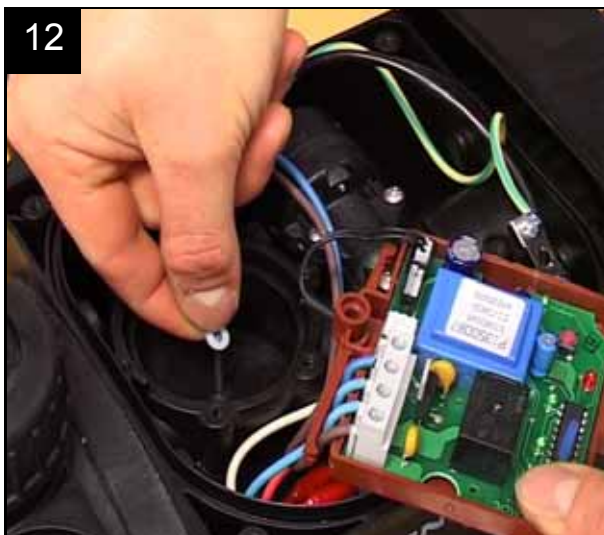
Remove the washer. It may be necessary to apply a little grease to the finger to make the washer stick to the finger.

11



Fit the shaft.

12



Fit the washer on the shaft.

13



Fit the wheel. The magnet of the wheel must point upwards.

14



Fit the cover on the flow sensor.

15



Tighten the screws.

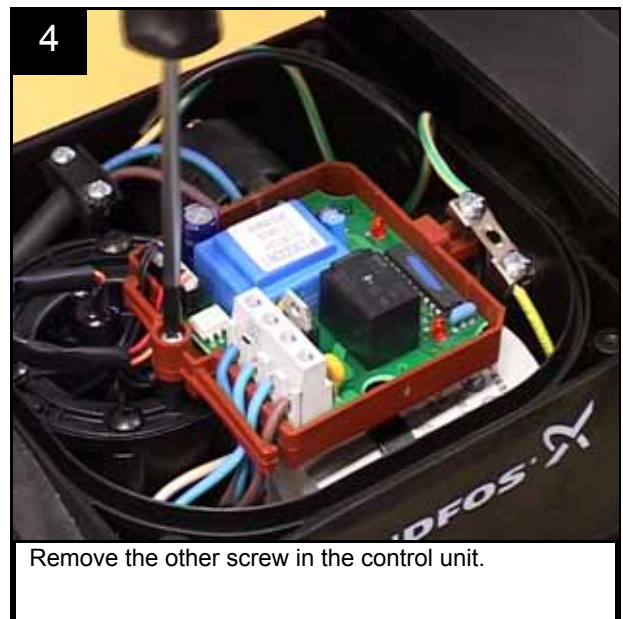
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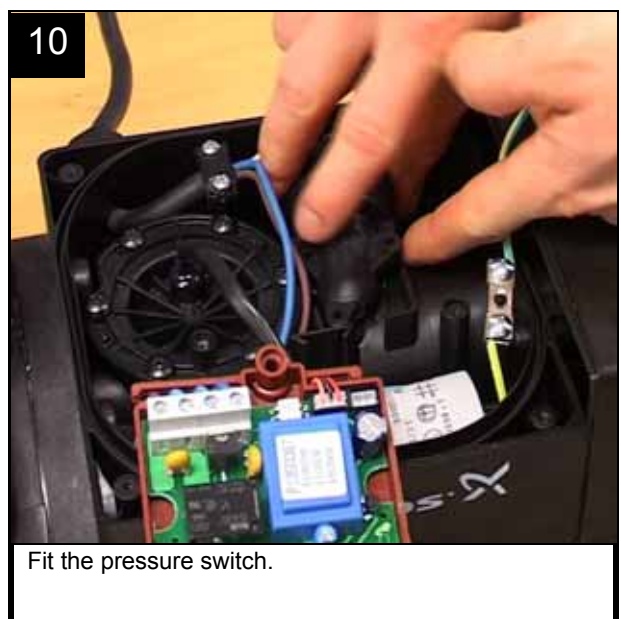
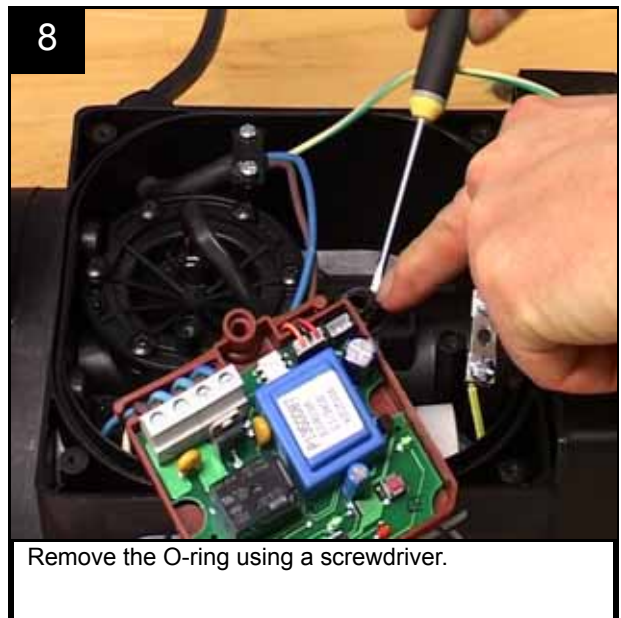
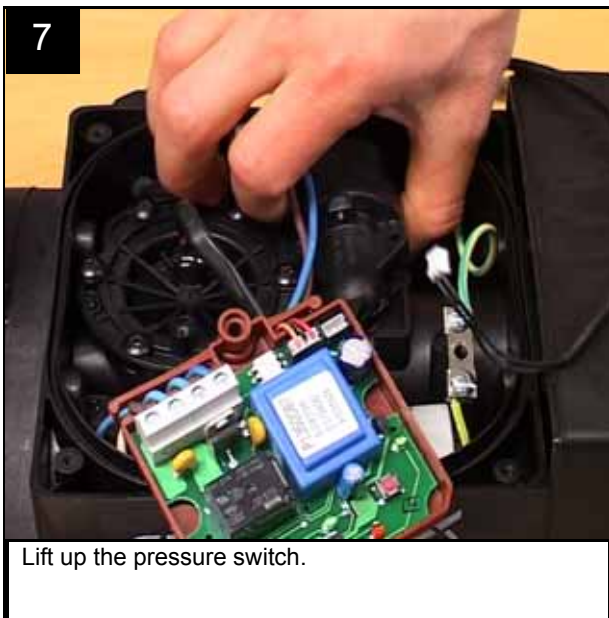
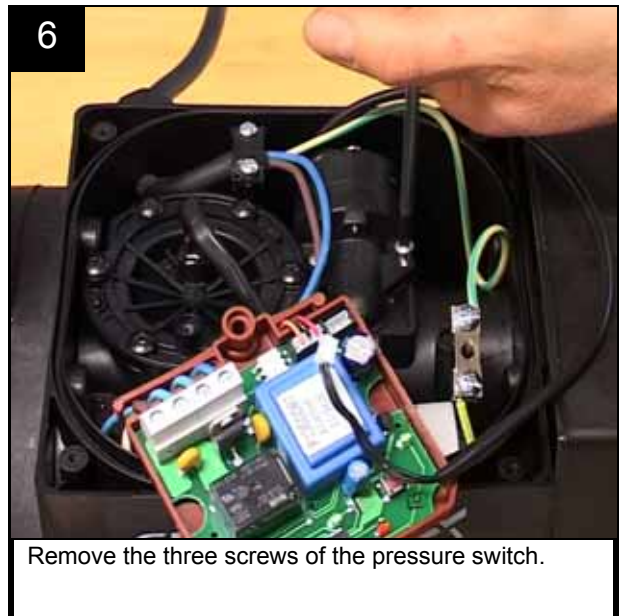
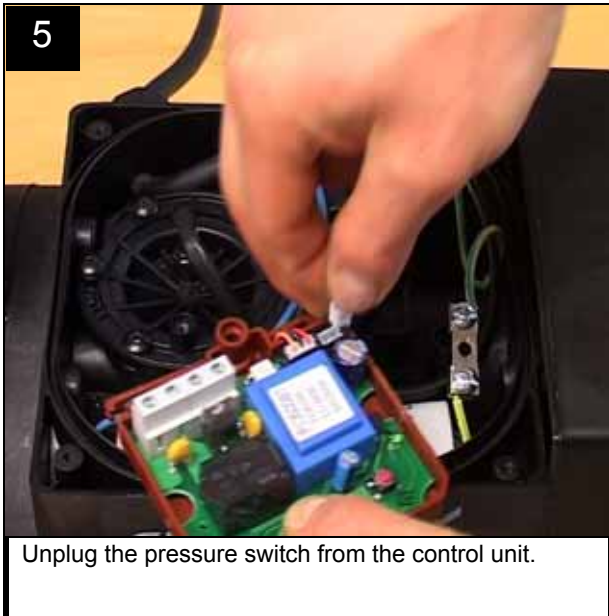


Connect the flow sensor to the control unit.



Replacing the pressure switch







Fix the pressure switch.



Connect the pressure switch to the control unit.

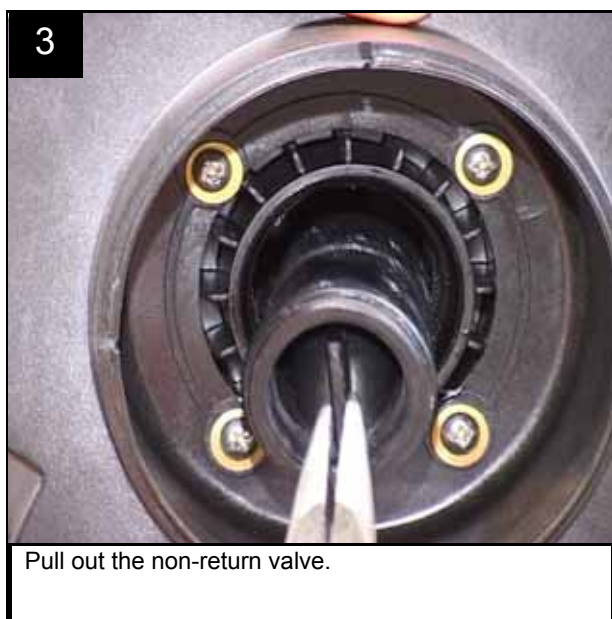


Fix the control unit and earth terminals with two screws.



Fit the terminal box cover.

Replacing the non-return valve of the outlet





Fit the non-return valve in the pump housing.



Fit the pressure tank. Tighten it by hand.



Fit the cover.

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Subject to alterations.