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Alesco[®]
INDUCTION HEATER



A80 MANUAL / PART LIST

MANUAL A80 V1-V2

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Version history manual

2.2 Added picture 29 to better illustrate the hose package connection

2.2 Added ref. to picture 29 in chapter Removal of front cover page 11-12, Removal of tank pump housing page 13.14, Removal of hose package page 14, Removal of circuit board OPFP11 page 16, Removal of pressure sensor page 17-18

2.3 In spare part chapter "Tank" page 25. Changed to correct spare part number for "Tank rear lid assembly"

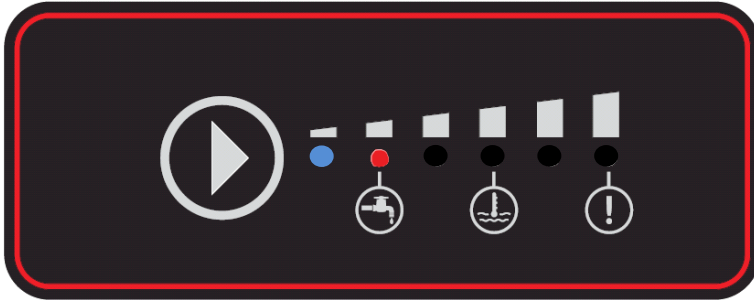
2.4 Added "how to check the hose package" page 22

Alarm codes A80

The A80 have three main alarm codes: flow, heating and general fault. Press the “arrow” button to access the full alarm code

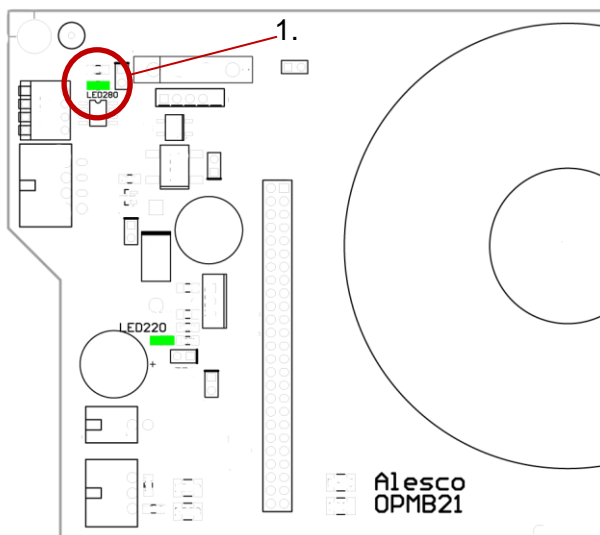
Flow alarm

Flow to low



Actions:

- Check the hose package so that it is not pinched or folded so that the flow is obstructed. Straighten/unfold the hose package if necessary.
- Check the hose package and inductor that it's not leaking water. Change the hose package/inductor if necessary.
- Check if the water pump is running by checking if the water is circulating inside the water hoses. If not check if the water pump power LED is on at the main board OPMB20/21, if not change OPMB20/21. See picture 1 pos 1
- If the LED is on change the water pump.

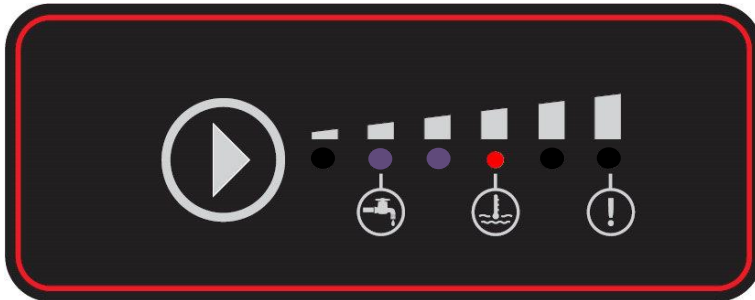


Picture 1

Pump and control power LEDs location on OPMB20/21

Heat alarms

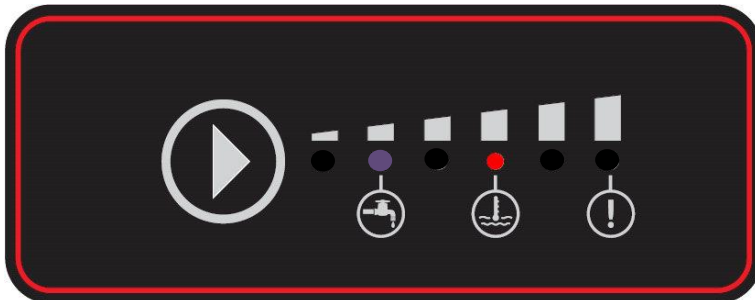
Cooling block



Actions at cooling block overheated:

- Check the water temperature in the tank, change the water if necessary or use the external cooling adapters to cool down the tank.

Machine overheated

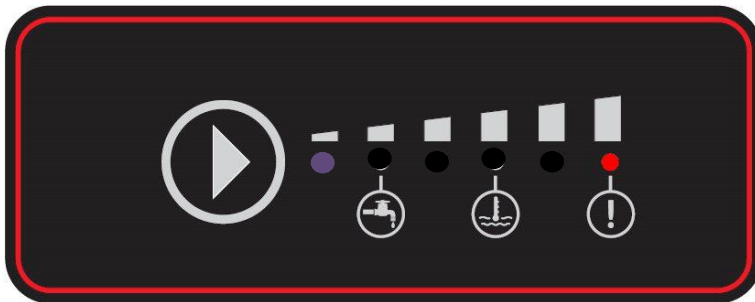


Actions at machine overheated:

- Check that the ambient temperature is not exceeding 40 °C if not change main board.
- Check for visible heat damage at the main board OPMB20/21 if seen change main board OPMB20/21.

General alarm

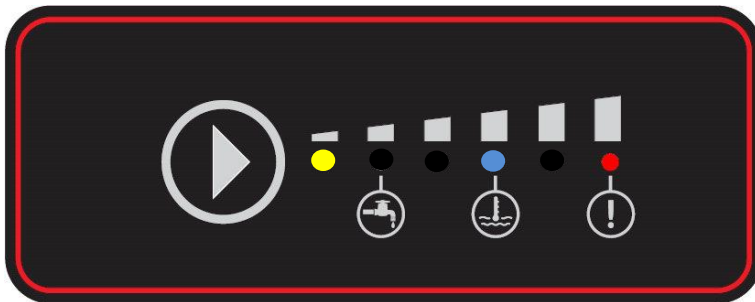
50/60 Hz unsynchronized



Actions:

- Restart the machine.
- Make sure not to have the machine plugged in during start up using electric generator. If the alarm triggers change the main board OPMB20/21.

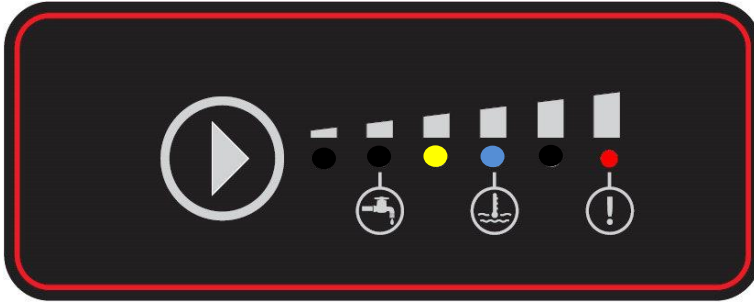
Over current in



Actions:

- If the alarm triggers directly when pressing the trigger switch, check the hose package or the inductor. Change hose package/inductor if necessary.
- If this happens during heating, check the hose package/inductor and that the electric installation is ok.

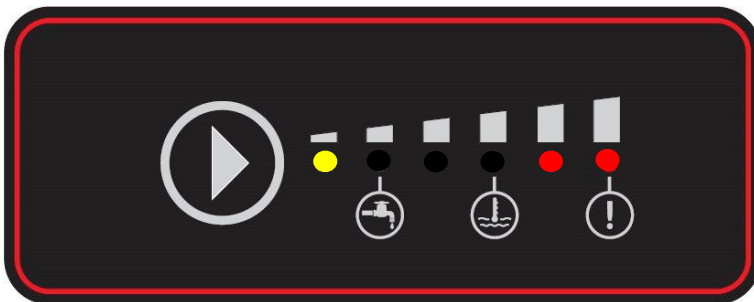
Over current out



Actions:

- If the alarm triggers directly when pressing the trigger switch, check the hose package or the inductor. Change hose package/inductor if necessary.
- If this happens during heating, check the hose package/inductor and that the electric installation is ok.

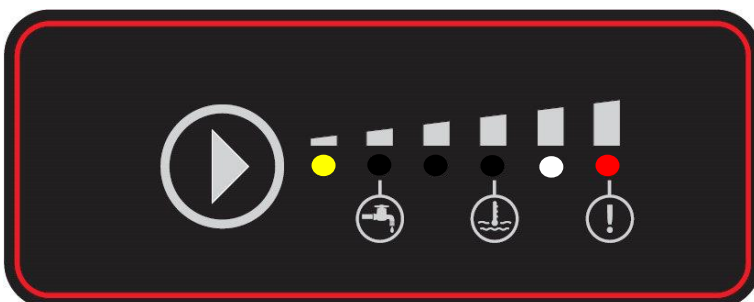
Regulator fail current to high



Actions:

- Check the hose package or the inductor. Change hose package/inductor if necessary.

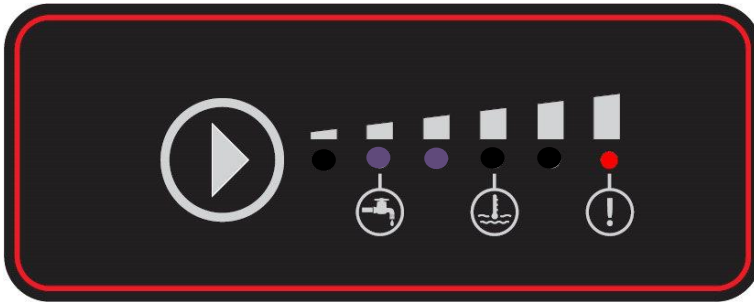
Regulator fail current to low



Actions:

- Check the hose package. Change hose package if necessary.

Cooling block sensor fail



Actions:

- Change circuit board OPMB20/21

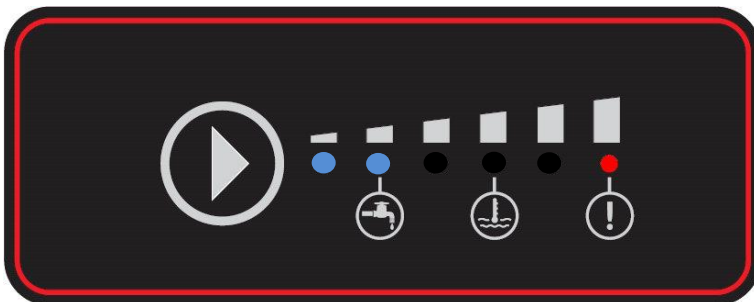
Machine sensor fail



Actions:

- Change circuit board OPMB20/21

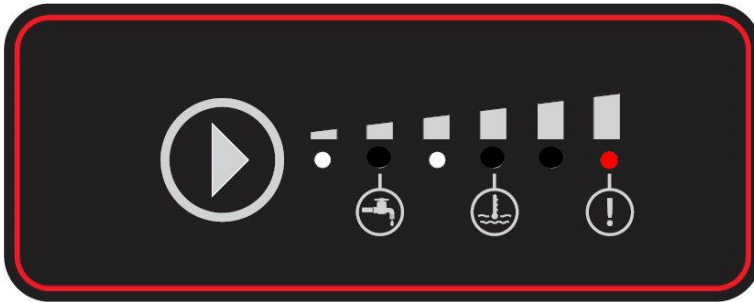
Pressure (flow) sensor fail



Actions:

- Check the hose package so it's not obstructed.
- Change the pressure sensor.
- Change circuit board OPMB20/21

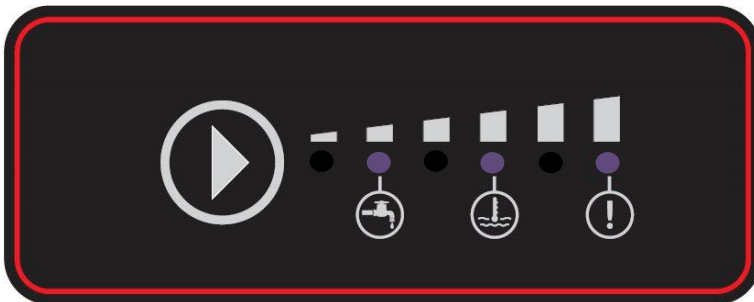
Communication fail



Actions:

- Restart the machine
- Change circuit board OPMB20/21

Prestart software



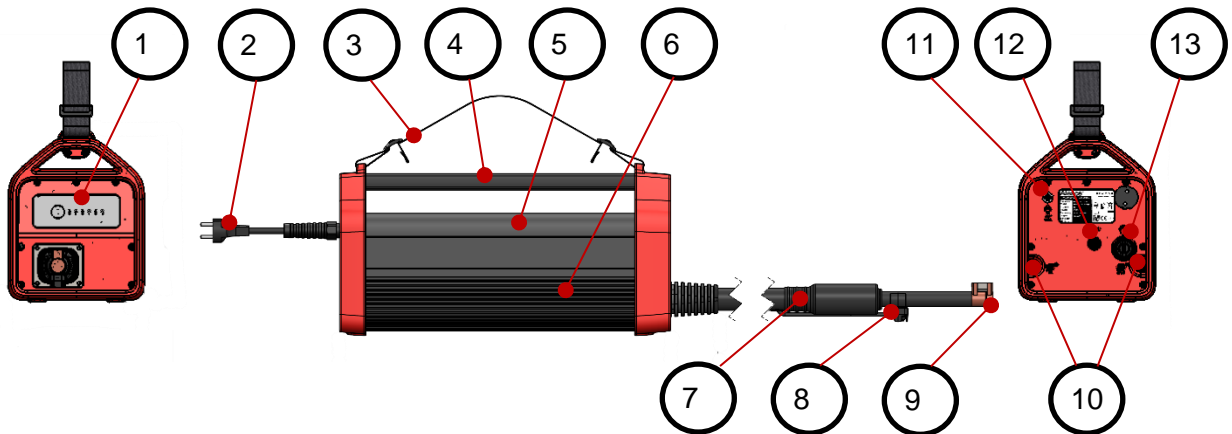
Explanation: Time before software have started.

Action:

- If the machine stops at this point, try to restart
- If the restart didn't help, change circuit board OPMB20/21

A80 overview

Part names



1. Display
2. Wall plug 220V
3. Strap
4. Handle
5. Top cover
6. Tank
7. Hose package
8. Trigger switch

9. Inductor
10. External cooling connectors
11. Accessory connector 12V 0,5A
12. Pressure valve
13. Fill cap

A80 differences V 1.0 / 2.0

Software

There have been two changes in software since V1.0. The first is a change in temperature setting from 65 °C to 50-55°C to avoid temperature fault. The second change is the time (60sec) the machine now will use to cool down when the temperature reached max limit.

Circuit boards

The OPMB20 had the possibility to swap the OPCB10. At the OPMB21 this is not possible any more. If the OPMB20 needs to be replaced it will be replaced with the OBMB21 with the OPCB10.

Hose package






The hose package have now two additional clamps mounted at the return hose to avoid flow faults.

Inductor

The field enhancer have changed for optimal performance.

A80 disassembly

Safety

-  **Warning!** The equipment and its parts should not be altered without prior written permission from the manufacturer. The user of the equipment will be responsible for all technical faults that arise due to improper use, improper maintenance, damage, improper repairs or changes made by someone other than the manufacturer or by someone assigned by the manufacturer.
-  **Warning!** All extensive service and maintenance jobs should be completed by Alesco International AB service personnel. Electrical shock hazard.
-  **Warning!** Do not remove cover plates or do any work on the induction heater without first disconnecting it from the wall socket. Electrical shock hazard.
-  **Warning!** Disconnect the induction heater from the wall socket before undertaking any service, cleaning or maintenance work. Electrical shock hazard.
-  **Warning!** Do not wear any metal objects on your hands, such as watches, jewellery etc. On operating the induction heater, these may heat up unintentionally.

Recommended Tools

15 Torx
25 Torx
17 mm socket wrench
7 mm socket wrench
8 mm Allen screwdriver
PH1 screwdriver

Removal of front cover/disassembly/assembly

1. Unplug the machine from the wall outlet. **Note!** Wait 5 minutes so the residue voltage is zero.
2. Remove the strap.
3. Drain the water tank from cooling fluid, during the draining loosen the inductor to release the water in the hose package.
4. Loosen the 230V cable bend protection.
5. Unscrew the five upper and the four lower screws at the rear cover. **Note!** Do not mix the screws, they are different in size and length. *Picture 1*
6. Pull the rear cover towards you just a little bit and unplug the cable to the external pump cable, at the circuit board OPMB21. *Picture 2*
7. Unplug the 230V power cables at the circuit board OPMB21 and the earth cable at the mount on water tank. *Picture 3*
8. Remove the rear cover away from the machine for better access.
9. Unscrew the five upper and the four lower screws at the front cover. **Note!** Do not mix the screws, they are different in size and length. *Picture 4*
10. Remove the handle.

11. Pull the top cover towards you, and all the way until it loosens from the water tank.
12. Pull the front cover towards you just a little bit and unplug the cables to pressure sensor cable, circuit board OPFP11 and the pump motor at the circuit board OPMB21. *Picture 5*
13. Unscrew the power cables at the circuit board OPMB21 and the earth cable at the mount on water tank. *Picture 6*
14. Unplug the two cooling water hoses. *Picture 7,8,29*
15. Remove the front cover away from the machine for better access.
16. Unplug the two pressure sensor hoses. *Picture 9,10*
17. Unplug the control button cable from the circuit board OPFP11. *Picture 11*
18. Remove the 4 nuts that hold the hose package with 7mm socket wrench. *Picture 12*
19. Remove the hose package from the front cover.
20. Unscrew the circuit board OPFP11. *Picture 13*
21. Remove the display cover.
22. Reattach in reverse order.

Removal of rear cover/disassembly/assembly

1. Unplug the machine from the wall outlet. **NOTE!** Wait 5 minutes so the residue voltage is zero.
2. Remove the strap.
3. Loosen the 230V cable bend protection.
4. Unscrew the five upper and the four lower screws at the rear cover. **Note!** Do not mix the screws, they are different in size and length. *Picture 1*
5. Pull the rear cover towards you just a little bit and unplug the cable to the external pump cable, at the circuit board OPMB21. *Picture 2*
6. Unplug the 230V power cables at the circuit board OPMB21 and the earth cable at the mount on water tank. *Picture 3*
7. Remove the rear cover away from the machine for better access.
8. Unscrew the cable to the external pump cable from the rear cover. *Picture 14*
9. Unmount the 230V cable from the rear cover. **Note!** Counter clockwise *Picture 15*
10. Reattach in reverse order.

Removal of top cover/assembly

1. Unplug the machine from the wall outlet. **NOTE!** Wait 5 minutes so the residue voltage is zero.
2. Remove the strap.
3. Loosen the 230V cable bend protection.
4. Unscrew the five upper and the four lower screws at the rear cover. **Note!** Do not mix the screws, they are different in size and length. *Picture 1*
5. Pull the rear cover towards you just a little bit and unplug the cable to the external pump cable, at the circuit board OPMB21. *Picture 2*
6. Unplug the 230V power cables at the circuit board OPMB21 and the earth cable at the mount on water tank. *Picture 3*
7. Remove the rear cover away from the machine for better access.
8. Unscrew the front covers three screws that secure the top cover.

9. Pull the top cover towards you, and all the way until it loosens from the water tank.
10. Reattach in reverse order.

Removal of tank rear lid

1. Unplug the machine from the wall outlet. **NOTE!** Wait 5 minutes so the residue voltage is zero.
2. Remove the strap.
3. Drain the water tank from cooling fluid, during the draining loosen the inductor to release the water in the hose package.
4. Loosen the 230V cable bend protection.
5. Unscrew the five upper and the four lower screws at the rear cover. **Note!** Do not mix the screws, they are different in size and length. *Picture 1*
6. Pull the rear cover towards you just a little bit and unplug the cable to the external pump cable, at the circuit board OPMB21. *Picture 2*
7. Unplug the 230V power cables at the circuit board OPMB21 and the earth cable at the mount on water tank. *Picture 3*
8. Remove the rear cover away from the machine for better access.
9. Unscrew the 16 mounting screws that secure the tank rear lid to the water tank. *Picture 16*
10. Pull the tank rear lid towards you until the complete internal cooling assembly is loose. *Picture 17*
11. Take away the O-ring (162x3 Nitrile) and lay the O-ring on some protection paper/cloth.
12. Using a 17 mm socket wrench unscrew the water connection sockets from the cooling profiles. **NOTE!** Between the tank rear lid and the cooling profiles is an O-ring mounted. Take away the O-ring and lay the O-ring on some protection paper/cloth. *Picture 18,19*
13. Reattach in reverse order.

Removal of tank pump housing

1. Unplug the machine from the wall outlet. **Note!** Wait 5 minutes so the residue voltage is zero.
2. Remove the strap.
3. Drain the water tank from cooling fluid, during the draining loosen the inductor to release the water in the hose package.
4. Loosen the 230V cable bend protection.
5. Unscrew the five upper and the four lower screws at the rear cover. **Note!** Do not mix the screws, they are different in size and length. *Picture 1*
6. Pull the rear cover towards you just a little bit and unplug the cable to the external pump cable, at the circuit board OPMB21. *Picture 2*
7. Unplug the 230V power cables at the circuit board OPMB21 and the earth cable at the mount on water tank. *Picture 3*
8. Remove the rear cover away from the machine for better access.
9. Unscrew the five upper and the four lower screws at the front cover. **Note!** Do not mix the screws, they are different in size and length. *Picture 4*
10. Remove the handle.

11. Pull the top cover towards you, and all the way until it loosens from the water tank.
12. Pull the front cover towards you just a little bit and unplug the cables to pressure sensor cable, circuit board OPFP11 at the circuit board OPMB21. *Picture 5*
13. Unscrew the power cables at the circuit board OPMB21 and the earth cable at the mount on water tank. *Picture 6*
14. Unplug the two cooling water hoses. *Picture 6,7,29*
15. Remove the front cover away from the machine for better access.
16. Unscrew the 16 mounting screws that secure the tank rear lid to the water tank. *Picture 20*
17. Remove the tank pump housing away from the machine for better access. *Picture 21*
18. Take away the O-ring (162x3 Nitrile) and lay the O-ring on some protection paper/cloth.
19. Pull out the water pump and use some lubrication between the hose and tank rear lid for easy disassembly. *Picture 22*
20. Use 8mm Allen screwdriver to unscrew the hose connector. *Picture 23*
21. Reattach in reverse order.

Removal of hose package

1. Unplug the machine from the wall outlet. **Note!** Wait 5 minutes so the residue voltage is zero.
2. Remove the strap.
3. Drain the water tank from cooling fluid, during the draining loosen the inductor to release the water in the hose package.
4. Loosen the 230V cable bend protection.
5. Unscrew the five upper and the four lower screws at the rear cover. **Note!** Do not mix the screws, they are different in size and length. *Picture 1*
6. Pull the rear cover towards you just a little bit and unplug the cable to the external pump cable, at the circuit board OPMB21. *Picture 2*
7. Unplug the 220V power cables at the circuit board OPMB21 and the earth cable at the mount on water tank. *Picture 3*
8. Remove the rear cover away from the machine for better access.
9. Unscrew the five upper and the four lower screws at the front cover. **Note!** Do not mix the screws, they are different in size and length. *Picture 4*
10. Remove the handle.
11. Pull the top cover towards you, and all the way until it loosens from the water tank.
12. Pull the front cover towards you just a little bit and unplug the cables to pressure sensor cable, circuit board OPFP11 at the circuit board OPMB21. *Picture 5*
13. Unscrew the power cables at the circuit board OPMB21 and the earth cable at the mount on water tank. *Picture 6*
14. Unplug the two cooling water hoses at the hose package. *Picture 7,8,29*
15. Remove the front cover away from the machine for better access.
16. Unplug the two pressure sensor hoses *Picture 9,10*
17. Unplug the control button cable from the circuit board OPFP11. *Picture 11*
18. Remove the four nuts, with a 7mm socket, wrench that holds the hose package. *Picture 12*
19. Remove the hose package from the front cover.
20. Reattach in reverse order.

Removal of internal cooling assembly

1. Unplug the machine from the wall outlet. **Note!** Wait 5 minutes so the residue voltage is zero.
2. Remove the strap.
3. Drain the water tank from cooling fluid, during the draining loosen the inductor to release the water in the hose package.
4. Loosen the 230V cable bend protection.
5. Unscrew the five upper and the four lower screws at the rear cover. **Note!** Do not mix the screws, they are different in size and length. *Picture 1*
6. Pull the rear cover towards you just a little bit and unplug the cable to the external pump cable, at the circuit board OPMB21. *Picture 2*
7. Unplug the 230V power cables at the circuit board OPMB21 and the earth cable at the mount on water tank. *Picture 3*
8. Remove the rear cover away from the machine for better access.
9. Unscrew the 16 mounting screws that secures the tank rear lid to the water tank. *Picture 16*
10. Pull the tank rear lid towards you until the complete internal cooling assembly is loose. *Picture 17*
11. Take away the O-ring (162x3 Nitrile) and lay the O-ring on some protection paper/cloth.
12. Reattach in reverse order.

Removal of pressure valve at the cooling assembly

1. Unplug the machine from the wall outlet. **Note!** Wait 5 minutes so the residue voltage is zero.
2. Remove the strap.
3. Drain the water tank from cooling fluid, during the draining loosen the inductor to release the water in the hose package.
4. Loosen the 230V cable bend protection.
5. Unscrew the five upper and the four lower screws at the rear cover. **Note!** Do not mix the screws, they are different in size and length. *Picture 1*
6. Pull the rear cover towards you just a little bit and unplug the cable to the external pump cable, at the circuit board OPMB21. *Picture 2*
7. Unplug the 230V power cables at the circuit board OPMB21 and the earth cable at the mount on water tank. *Picture 3*
8. Remove the rear cover away from the machine for better access.
9. Unscrew the 16 mounting screws that secures the tank rear lid to the water tank. *Picture 16*
10. Pull the tank rear lid towards you until the complete internal cooling assembly is loose. *Picture 17*
11. Take away the O-ring (162x3 Nitrile) and lay the O-ring on some protection paper/cloth.
12. Unscrew the pressure valve by locking the valve by hand. *Picture 27*
13. Reattach in reverse order. Make sure that the O-ring is mounted on the valve before it puts in the mounting hole. *Picture 28*

Removal of circuit board OPMB21

1. Unplug the machine from the wall outlet. **Note!** Wait 5 minutes so the residue voltage is zero.
2. Remove the strap.
3. Loosen the 230V cable bend protection.
4. Unscrew the 5 upper and the 4 lower screws at the rear cover. **Note!** Do not mix the screws, they are different in size and length. *Picture 1*
5. Pull the rear cover towards you just a little bit and unplug the cable to the external pump cable, at the circuit board OPMB21. *Picture 2*
6. Unplug the 230V power cables at the circuit board OPMB21 and the earth cable at the mount on water tank. *Picture 3*
7. Remove the rear cover away from the machine for better access.
8. Unscrew the front covers three screws that secures the top cover.
9. Pull the top cover towards you, and all the way until it loosen from the water tank.
10. Unplug the two cooling water hoses at the main circuit board. *Picture 24*
11. Unplug the cables to pressure sensor cable, circuit board OPFP11 at the circuit board OPMB21. *Picture 5*
12. Unscrew the power cables at the circuit board OPMB21 and the earth cable at the mount on water tank. *Picture 6*
13. Unscrew the 8 mounting screws that secures the circuit board OPMB21. *Picture 26*
14. Lift up the water tank thermo sensor carefully and then remove the OPMB21
15. Put the circuit board OPMB21 on an antistatic mat
16. Reattach in reverse order.

Removal of circuit board OPFP11

1. Unplug the machine from the wall outlet. **Note!** Wait 5 minutes so the residue voltage is zero.
2. Remove the strap.
3. Loosen the 230V cable bend protection.
4. Unscrew the five upper and the four lower screws at the rear cover. **Note!** Do not mix the screws, they are different in size and length. *Picture 1*
5. Pull the rear cover towards you just a little bit and unplug the cable to the external pump cable, at the circuit board OPMB21. *Picture 2*
6. Unplug the 220V power cables at the circuit board OPMB21 and the earth cable at the mount on water tank. *Picture 3*
7. Remove the rear cover away from the machine for better access.
8. Unscrew the five upper and the four lower screws at the front cover. **Note!** Do not mix the screws, they are different in size and length. *Picture 4*
9. Remove the handle.
10. Pull the top cover towards you, and all the way until it loosen from the water tank.
11. Pull the front cover towards you just a little bit and unplug the cables to pressure sensor cable, circuit board OPFP11 at the circuit board OPMB21. *Picture 5*
12. Unscrew the power cables at the circuit board OPMB21 and the earth cable at the mount on water tank. *Picture 6*
13. Unplug the two cooling water hoses at the hose package. *Picture 7,8,29*
14. Remove the front cover away from the machine for better access.
15. Unplug the control button cable from the circuit board OPFP11. *Picture 11*
16. Unscrew the 4 mounting screws and remove the circuit board OPFP11. *Picture 13*
17. Put the circuit board OPMB21 on an antistatic mat
18. Reattach in reverse order.

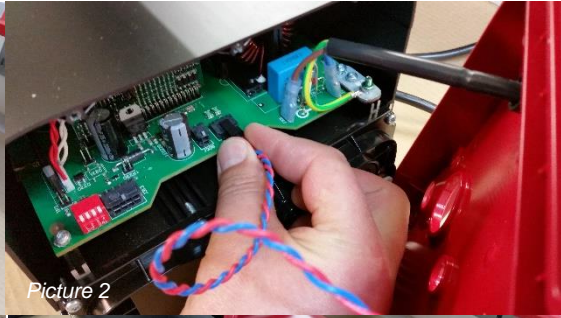
Removal of pressure sensor

1. Unplug the machine from the wall outlet. **Note!** Wait 5 minutes so the residue voltage is zero.
2. Remove the strap.
3. Loosen the 230V cable bend protection.
4. Unscrew the five upper and the four lower screws at the rear cover. **Note!** Do not mix the screws, they are different in size and length. *Picture 1*
5. Pull the rear cover towards you just a little bit and unplug the cable to the external pump cable, at the circuit board OPMB21. *Picture 2*
6. Unplug the 220V power cables at the circuit board OPMB21 and the earth cable at the mount on water tank. *Picture 3*
7. Remove the rear cover away from the machine for better access.
8. Unscrew the five upper and the four lower screws at the front cover. **Note!** Do not mix the screws, they are different in size and length. *Picture 4*
9. Remove the handle.
10. Pull the top cover towards you, and all the way until it loosen from the water tank.

11. Pull the front cover towards you just a little bit and unplug the cables to pressure sensor cable, circuit board OPFP11 at the circuit board OPMB21. *Picture 5*
12. Unscrew the power cables at the circuit board OPMB21 and the earth cable at the mount on water tank. *Picture 6*
13. Unplug the two cooling water hoses at the hose package. *Picture 7,8,29*
14. Remove the front cover away from the machine for better access.
15. Unplug the two pressure hoses at the hose package connectors. *Picture 9,10*
16. Unscrew the 2 mounting screws and remove the pressure sensor. *Picture 26*
17. Reattach in reverse order. Please note the correct way to mount the sensor.



Picture 1



Picture 2



Picture 3



Picture 4



Picture 5



Picture 6



Picture 7



Picture 8



Picture 9



Picture 10



Picture 11



Picture 12



Picture 13



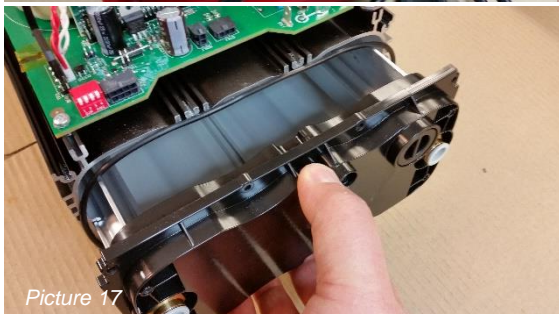
Picture 14



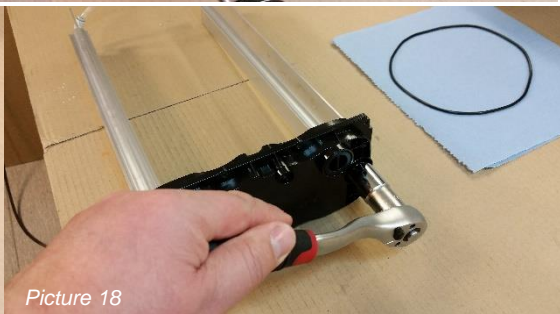
Picture 15



Picture 16



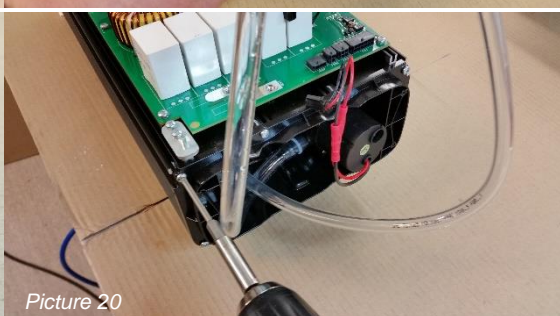
Picture 17



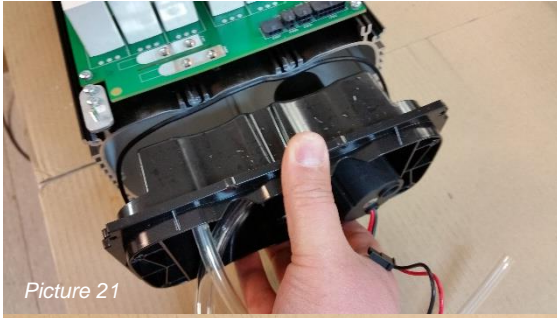
Picture 18



Picture 19



Picture 20



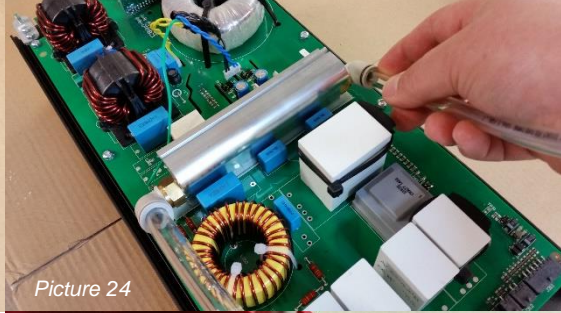
Picture 21



Picture 22



Picture 23



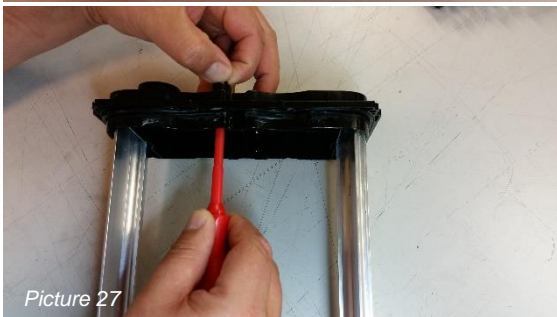
Picture 24



Picture 25



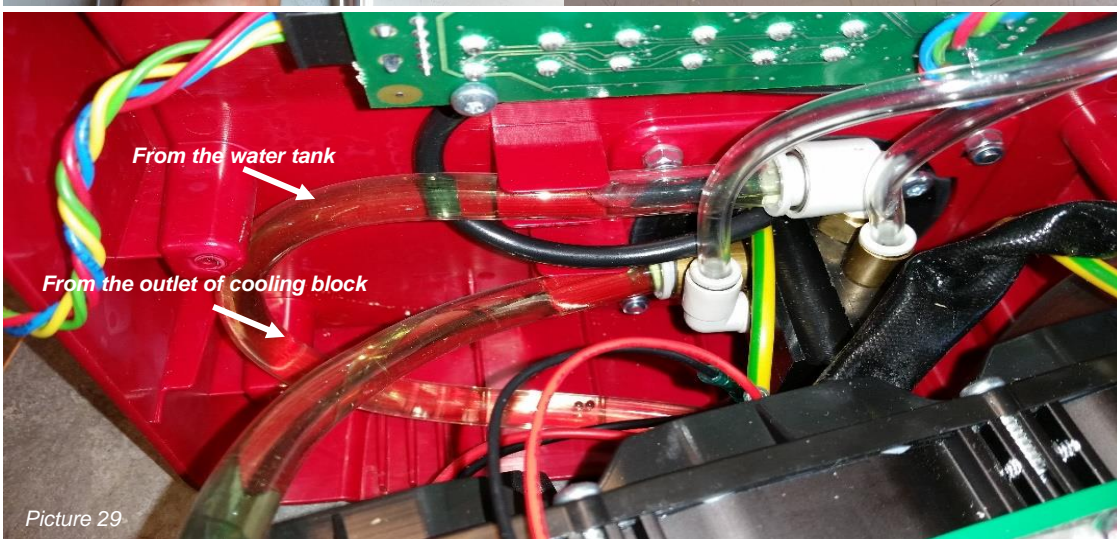
Picture 26



Picture 27



Picture 28



Picture 29

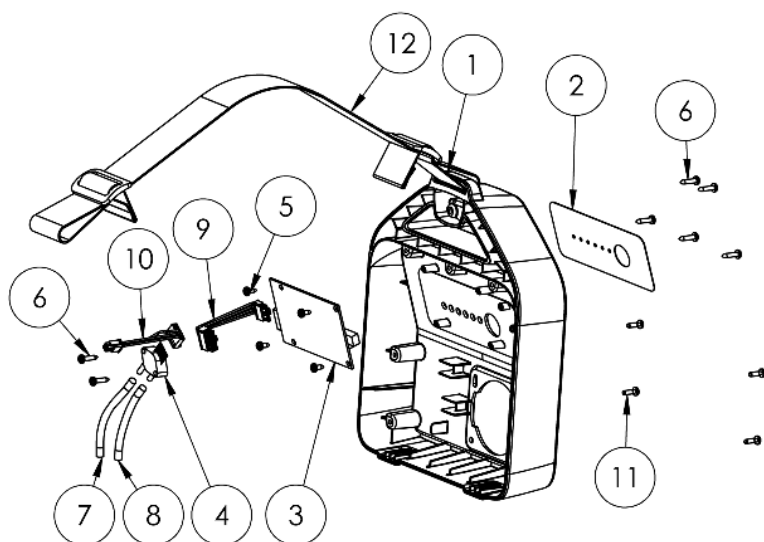
How to check the hose package for the A80

Isolations test:

This test is to check if the isolation at the cables inside hose and transformer don't have damages that will short circuit..

1. Disconnect the mains and check that there is no residue voltage left before measuring starts.
2. **Range settings 500V. Do not test above 500V**
3. Don't tap the hose package from water. Disconnect both black cables to start testing. Connect the test probes at one of the black cables and one at the ground cable.





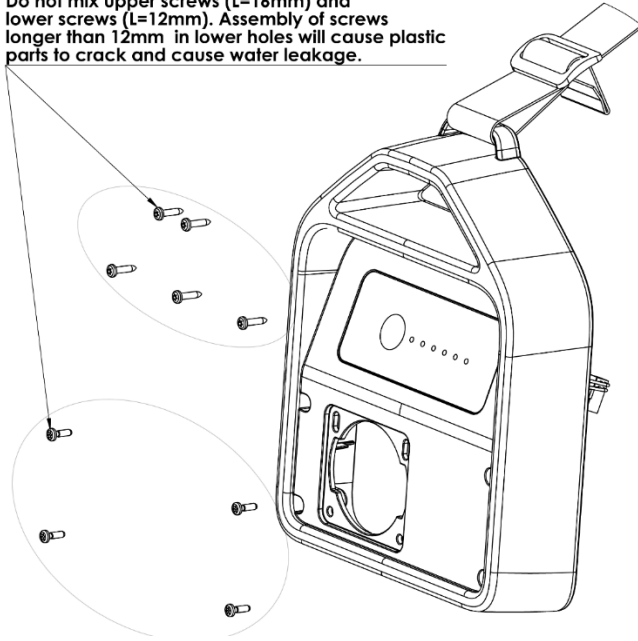
Spare parts

Front cover

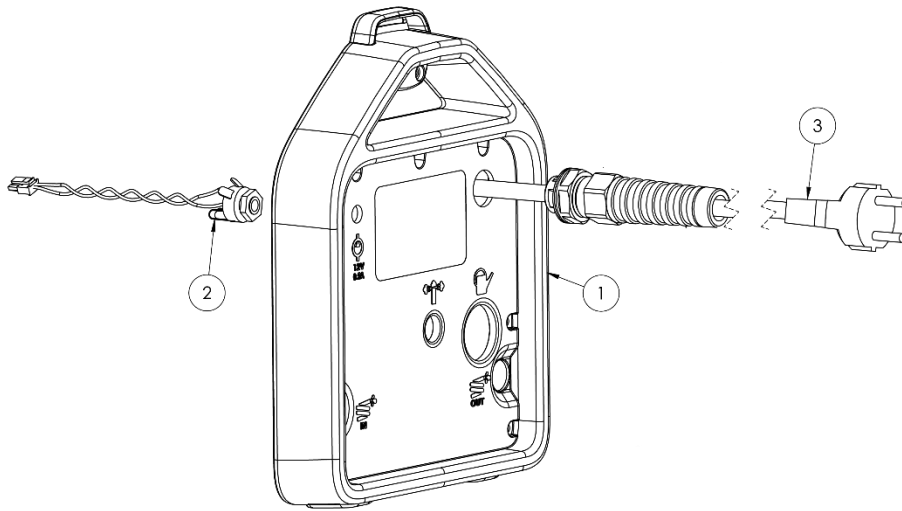
Item no	Part number	Description	Qty
1	800130	Front cover A80 (Red)	1
2	800133	Display film	1
3	800211	Circuit board OPFP11	1
4	800205	Pressure sensor	1
5	800716	Screw 3,5x9,5 T15	4
6	800717	Screw 3,5x16 T15	7
7	800336*	Tube TU 6x4 L=120mm	1
8	800336*	Tube TU 6x4 L=90mm	1
9	800723	OPFP cable OPMB	1
10	800724	Pressure sensor cable	1
11	800718	Screw 3,5x12 T15	4
12	800811	Strap	1

*Deliverd in 1m length

Do not mix upper screws (L=16mm) and lower screws (L=12mm). Assembly of screws longer than 12mm in lower holes will cause plastic parts to crack and cause water leakage.

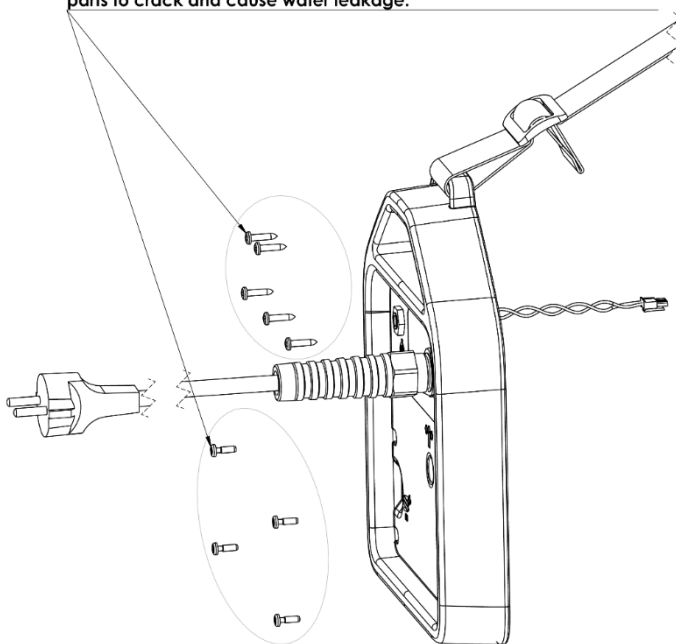


Rear cover

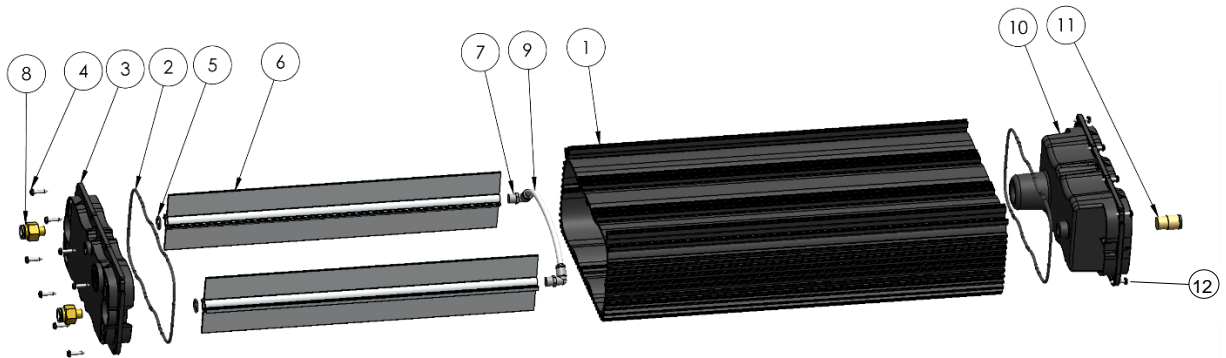


Item no.	Part number	Description	Qty.
1	800131	Rear cover A80 (Red)	1
2	800725	External pump cable	1
3	800722	230V cable A80	1

Do not mix upper screws (L=16mm) and lower screws (L=12mm).
 Assembly of screws longer than 12mm in lower holes will cause plastic parts to crack and cause water leakage.



Tank



Item no.	Part number	Description	Qty.
1	800125	Bottom Profile A80 (Black)	1
2	800714	O-ring 162x3 Nitrile	2
3	800731	Tank rear lid assembly*	1
4	800717	Screw RTS ST3,5x16 RTS	16
6	800127	Cooling profiles	2

*See chapter Tank rear lid assembly

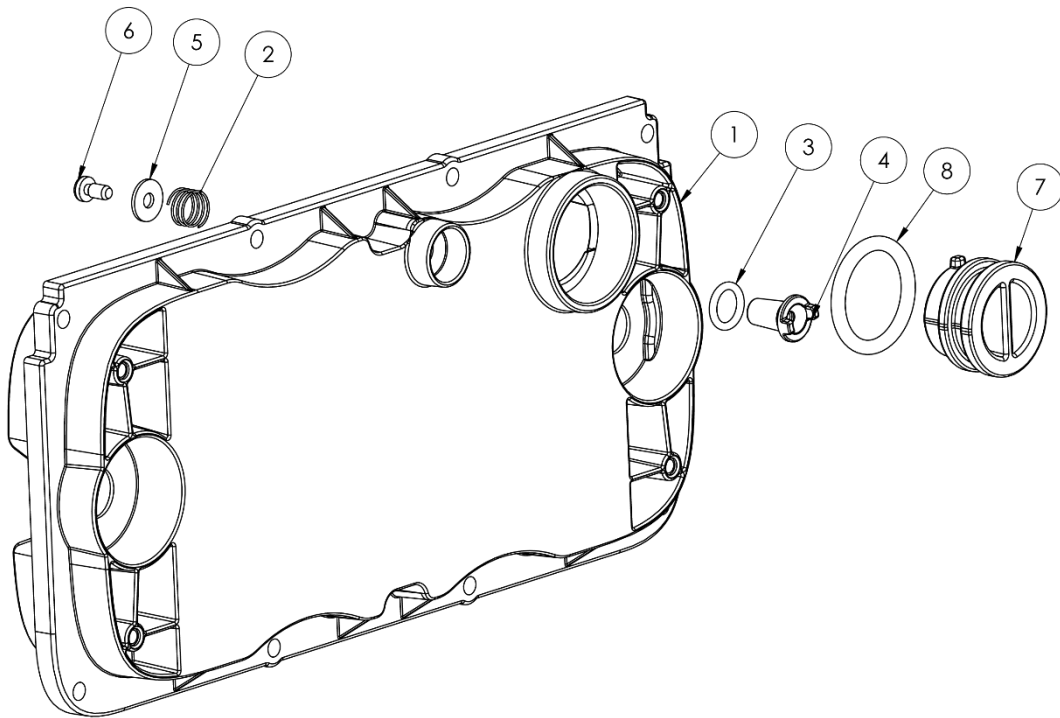
	800702	Internal cooling assembly	1
5		Included in assembly	1
7		Included in assembly	2
8		Included in assembly	2
9		Included in assembly**	1

**Delivered in 1m length

	800821	Tank pump housing*	
10		Included in assembly	1
11		Included in assembly	1
12		Included in assembly	8

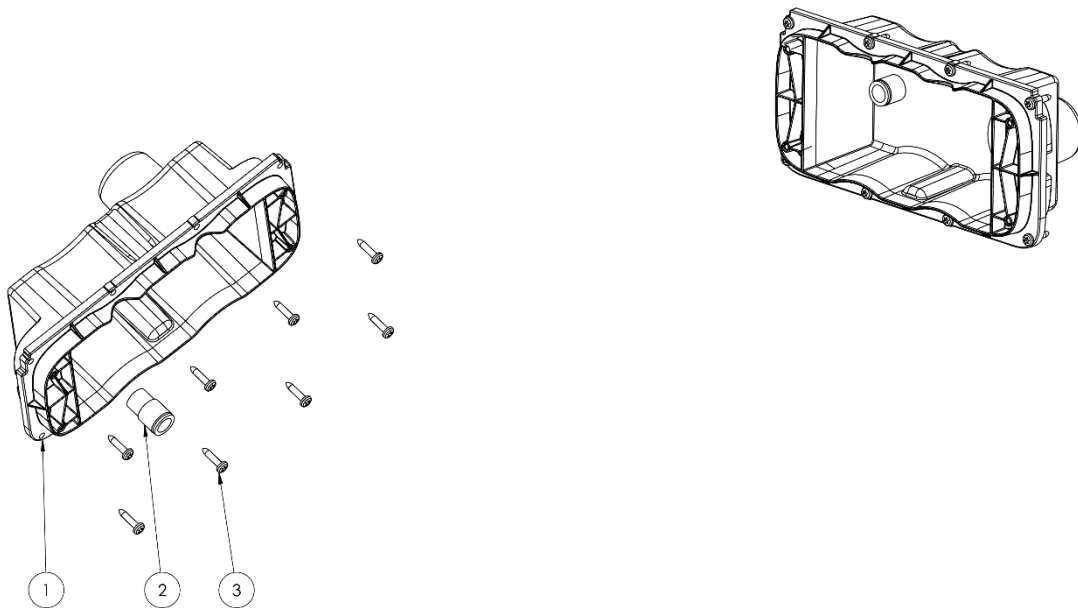
*See chapter Tank pump housing

Tank rear lid assembly



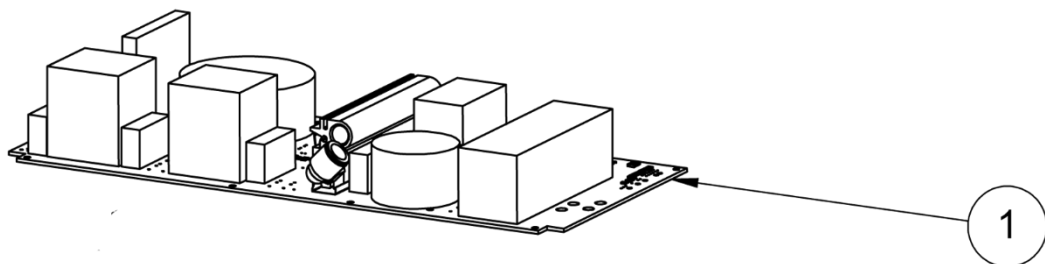
Item no	Part number	Description	Qty.
	800731	Tank rear lid assembly	
1		Included in assembly	1
2		Included in assembly	1
3		Included in assembly	1
4		Included in assembly	1
5		Included in assembly	1
6		Included in assembly	1
	800732	Filling cap assembly	
7		Included in assembly	1
8		Included in assembly	1

Tank pump housing



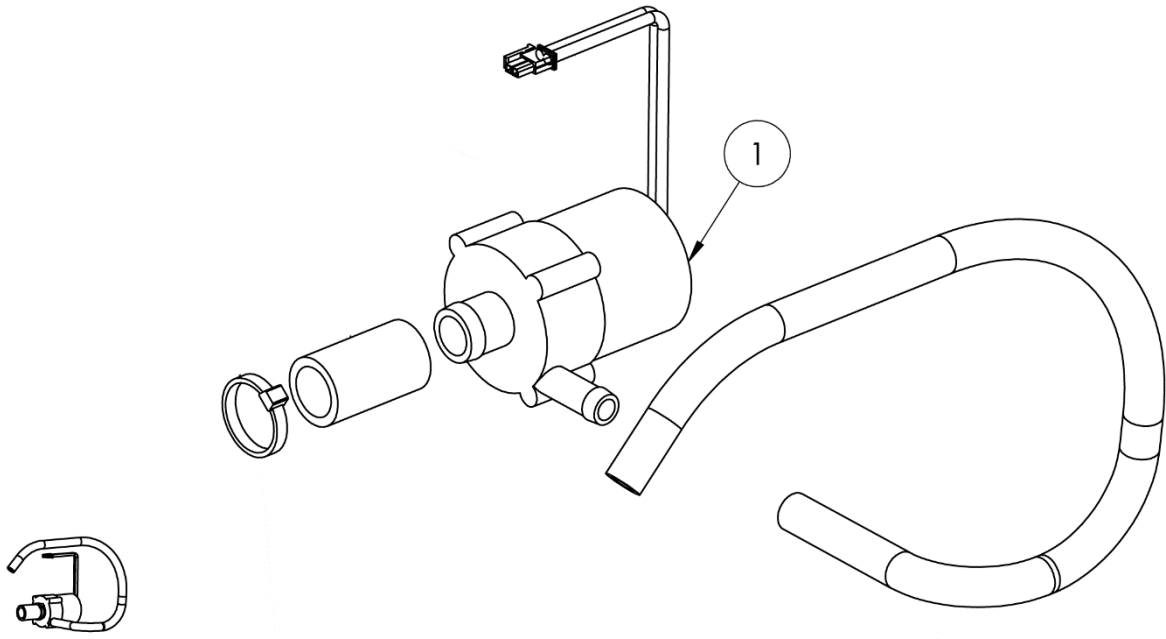
Item no	Part number	Description	Qty.
	800821	Tank pump housing assembly	
1		Included in assembly	1
2		Included in assembly	1
3		Included in assembly	8

Main circuit board



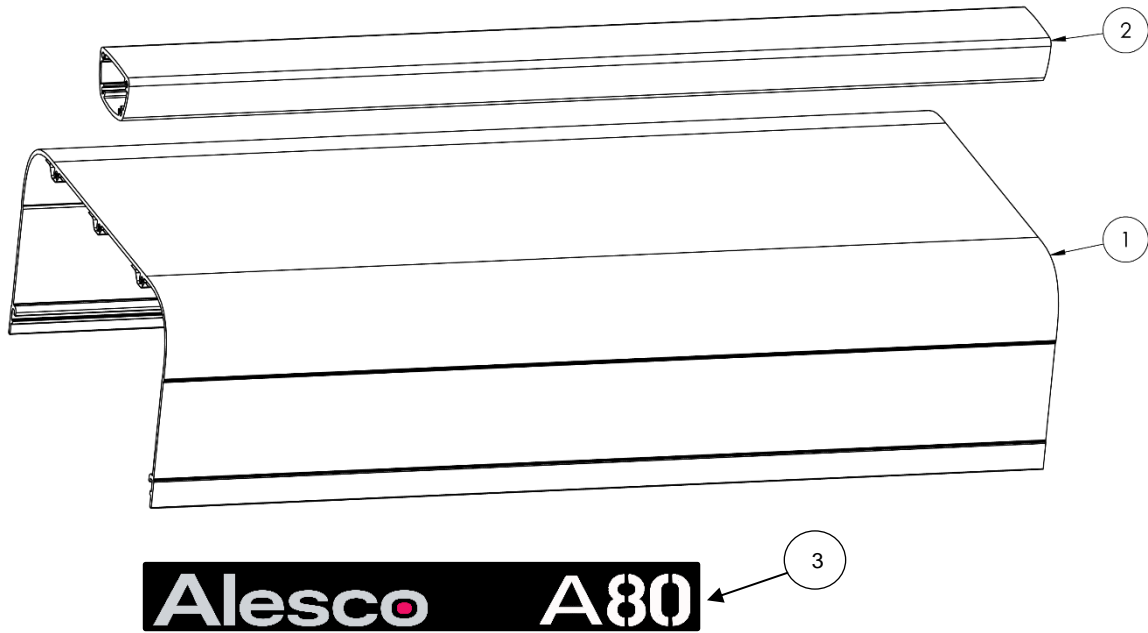
Item no	Part number	Description	Qty.
1	800333	Circuit board OPMB21	1

Pump



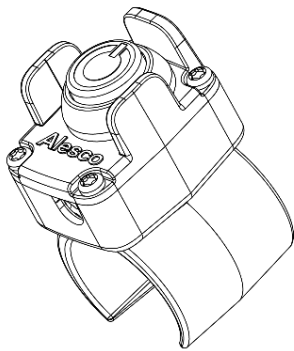
Item no.	Part number	Description	Qty.
1	800345	Pump (includes hoses and strap)	1

Lid/ Handle



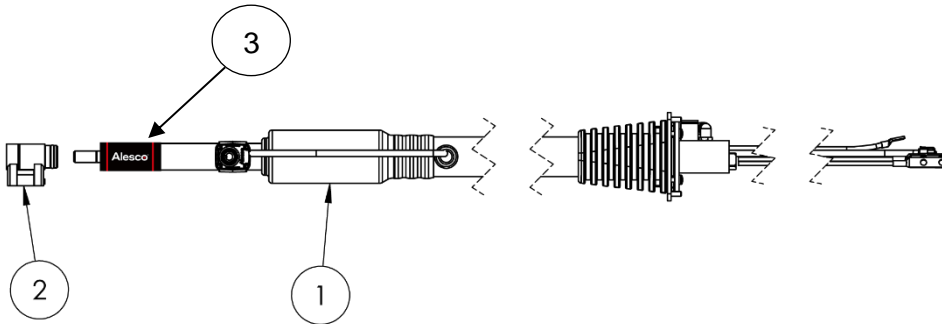
Item no.	Part number	Description	Qty.
1	800126	Top cover (Black)	1
2	800132	Handle (Black)	1
3	800241	Side sticker A80	2

Control button



Item no.	Part number	Description	Qty.
1	800343	Control button	1

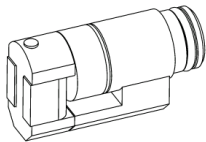
Hose pack/Heating tip



Item no.	Part number	Description	Qty.
1	800338	Hose package A80	1
2	100883	Inductor std.	1
3	800242	Inductor sticker	1

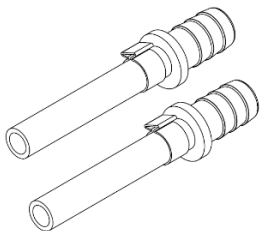
Options

Straight inductor



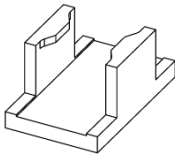
Item no.	Part number	Description	Qty.
1	100884	Straight inductor	1

External cooling adapter



Item no.	Part number	Description	Qty.
1	800344	External cooling adapter	1

Scratch protection



Item no.	Part number	Description	Qty.
1	100885	Scratch protection	1

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