



Philips Consumer Lifestyle

Service Manual

PRODUCT INFORMATION

Safety

- This product meets the requirements regarding interference suppression on radio and TV.
- After the product has been repaired, it should function properly and has to meet the safety requirements as officially laid down at this moment.

TECHNICAL INFORMATION

- Voltage : 220-240V
- Frequency : 50 Hz
- Power consumption : 1000W
- Color setting : Black / Metal
- Dimensions
 - Appliance H x W x D : 440 x 210 x 310 mm
 - F-Box L x W x H : 320 x 280 x 505 mm
- Cord length : 0,8 m
- Filter size : 1x4
- Contents
 - Jug (max.) : 1320 mL
 - Water container (min.) : 264 mL (2 cups)
 - Water container (max.) : 1320 mL (10 cups)
 - Avg. water loss during brew process : 10%
- Materials
 - Appliance : PP
 - Metal wrap : Stainless steel
 - Jug : Glass
 - Hoses : Silicon
- Brew time (max.) : 10 min
- Temperature (full jug) : > 80 °C
- Keep warm time : 120 minutes
: 30 min per WK1501
for EU countries only
- Auto Shut-off time : 30 mins
(/C version only)

De-scaling

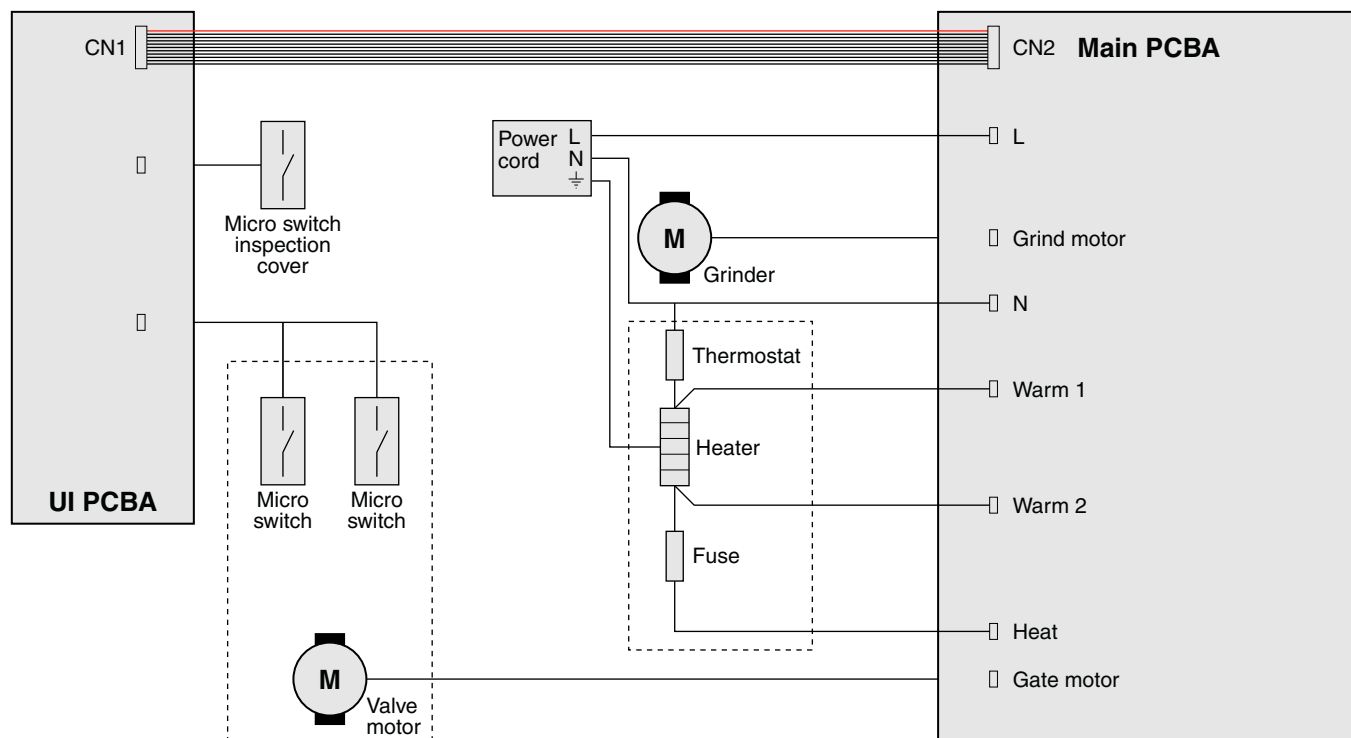
When the appliance indicates it needs to be descaled, operate the coffeemaker a few times with vinegar or with a 10-15% solution of either vinegar (acetic acid), citric acid or tartar acid, into cold tap water.

Use a paper filter to catch any particles coming out.

Do not use other de-scaling agents as these may harm the appliance.

If this procedure does not restore the function, then switch off the coffeemaker when the acid is passing through. Keep the appliance in this condition overnight and continue/ repeat the cleaning operation.

After the de-scaling procedure, operate the coffeemaker twice with tap water in order to rinse any residual substances.

Schematics

Self-Check mode

The appliance is equipped with a self-check mode, this enables you to quickly check the function of the main components of the unit.

| | Keep the On/Off button pressed while plugging the mains cord into the socket. | Left side display | Right side display |
|-------------------------------|---|--------------------------|---|
| | Hardware version | CH | 201 |
| Press any other button | Software version | CH | 0004 |
| Press any other button | Heating element enabled | CH | 1 |
| Press any other button | Heating element disabled | CH | 2 |
| Press any other button | Grinder motor enabled | CH | 3 |
| Press any other button | Grinder motor disabled + 6 Beeps | CH | 4 |
| Press any other button | Microcontroller check | CH | 5 = ok E1 = Nok |
| Press any other button | Zero-cross detection | CH | 6 = ok E2 = Nok |
| Press any other button | Valve micro switches | CH CH CH | CLO = valve is closed ---- = valve is working OPE = valve is open |
| Press any other button | Inspection window micro switch | L- = Closed H- = Open | 8 8 |
| Press any other button | Thermostat | CH CH | 1111 = Thermostat closed 0000 = Thermostat open |
| Press any other button | Rotary knob | 2 | 9 |
| Press any other button | Rotary knob rotate clockwise | Increasing | 9 |
| Press any other button | Rotary knob rotate anti-clockwise | Decreasing | 9 |
| Press any other button | LED check | All digits on | All digits on |
| Press any other button | LED check | All digits off | All digits off |
| Press On/Off button | Stand-by | | |

Repair of this appliance should be carried out on part and or assembly level, most repairs can be allocated to a couple of main components:

- **Bean container and duo-bean mechanics**

Disassembly instructions until Step 1.

- **User interface assy**

Disassembly instructions until Step 4.

When in the UI panel itself has been disassembled, please make sure the wire and flat cable seal is properly installed.

Upon reinstallation of the complete panel, please make sure the seal underneath the UI panel is put back.

- **Main PCBA**

Disassembly instructions until Step 4.

When only the PCBA needs replacement, skip steps 1 - 3. Upon reinstallation of the PCBA, please make sure the PCBA holder slides back into its guiding recesses. Please note the position of the Grinder (DC-motor), and Synchro-motor (AC-motor) leads, when reversed the appliance will not start up.

- **Grinder**

Disassembly instructions until Step 6, skip step 3 and 5.

It is not advisable to disassemble the grinder, as this will disrupt the grinders' calibration. In production special tools are used to adjust the grind-fineness to the optimal level.

- **Synchro motor + valve and seal**

Disassembly instructions until Step 6, skip step 3 and 5.

When the valve and or seal have been removed, please make sure that the seal does not get damaged, and that the seal gets reinstalled correctly. The seal is critical to seal the grinder from steam coming from the coffee filter.

- **Heater, bottom water supply**

Disassembly instructions Step 4 and 5.

It is not advisable to disassemble the heater from the keep-warm plate. Heat-conductive paste should be applied to ensure optimal heat transfer from the element to the plate, jug and coffee.

- **Top water supply**

Disassembly instructions Step 1 and 2.

The Silicon hose between the elbow joint and the showerhead does not need to be removed to uninstall this component, when the hose does need replacement, make sure the hose clamps are put back properly, this is to prevent leakage.

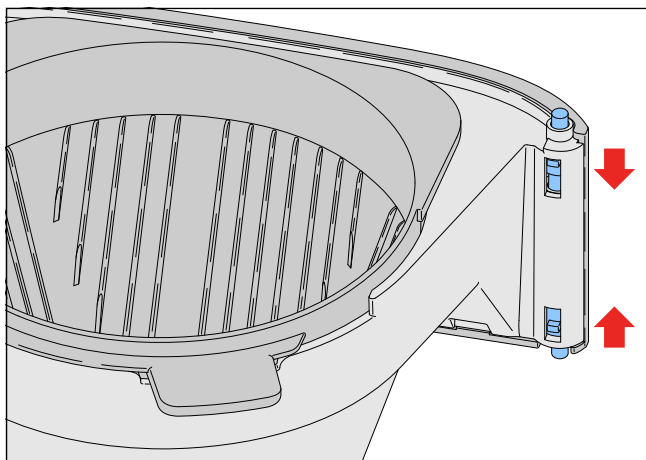
When the showerhead has been removed it should be cleaned from any residual liquid gasket and new liquid gasket (supplied in tubes of 45 g.) should be applied to ensure a proper seal.

- **Complete Base, incl. metal wrap**

Disassembly instructions Step 4 and 5.

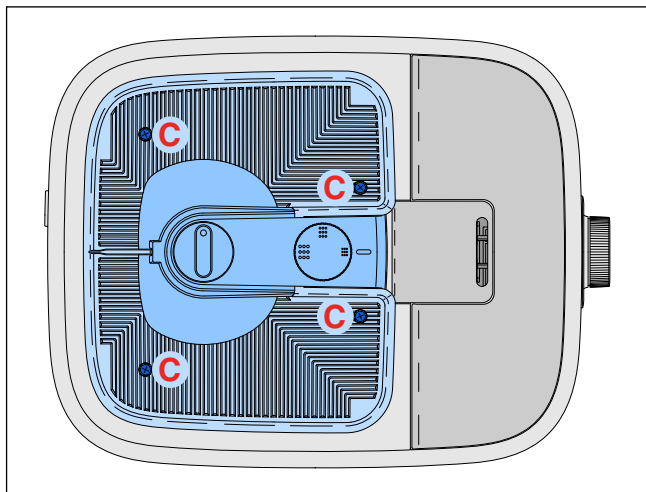
The main PCBA and Heater assy need to be taken out completely, the base is screwed to the top by means of 6 screws.

Remove all removable and detachable items like the Bean container lid, jug, filter holder and brush. The filter door can be removed for convenience by undoing both latches on the top and bottom side of the hinge.



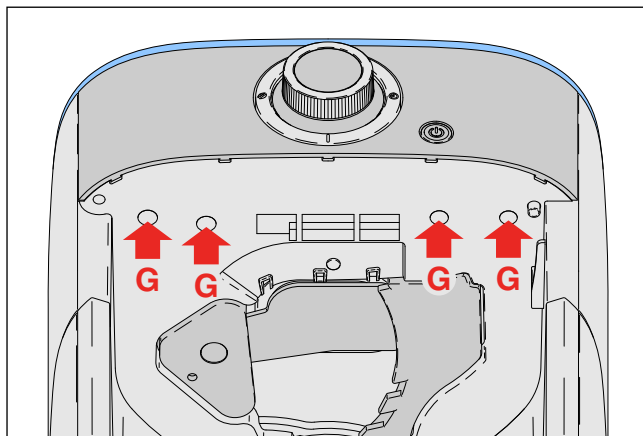
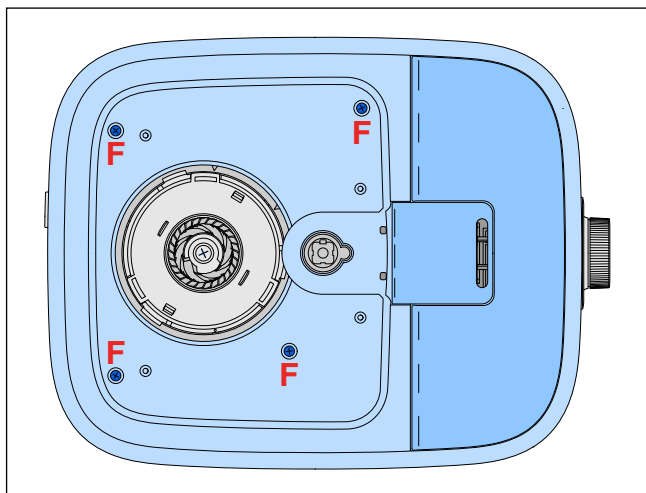
Step 1: Bean container removal

To remove the complete bean container, including Duo-Bean feature, remove the 4 screws (C) inside the bean container.



Step 2: Top cover removal

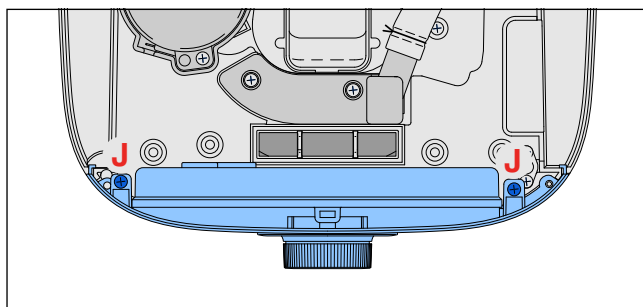
The top cover can be opened by removing the four screws (F) located underneath the Bean container and the four screws (G) accessible from the underside of the UI panel.



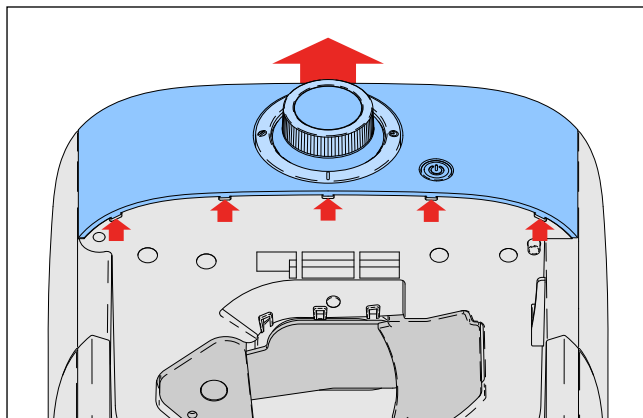
Please note the cable connecting to the Inspection window detection switch. The Water Level Indicator (WLI) cannot be removed without damaging the Top cover. When the top cover needs to be replaced the WLI can be reused, when the WLI needs to be replaced a new top cover needs to be ordered as well.

Step 3: UI panel removal

To be able to remove the UI panel, you need to disconnect the leads to the Synchro motor, and the flatcable to the main PCBA. The UI panel is held in place by two screws accessible from the top side of the appliance, and 5 clicks accessible from the bottom side of the UI panel. Unscrew both screws (J).



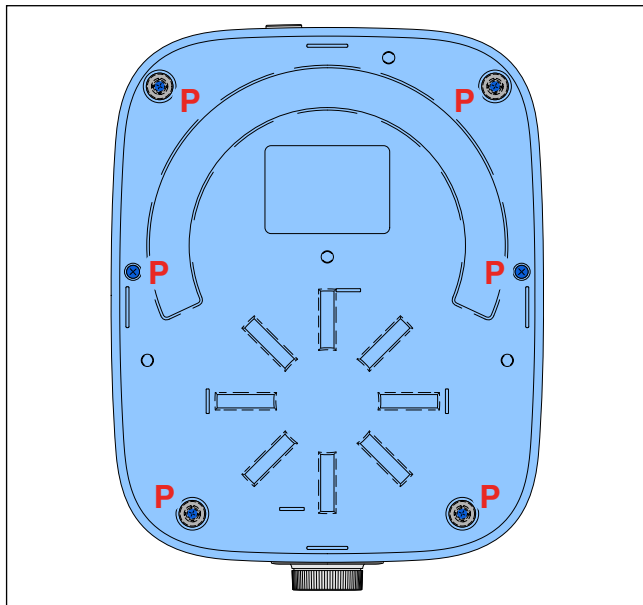
Undo the snaps by tracing the curve of the UI panel with a flat-head screwdriver, while pulling the UI panel upwards.



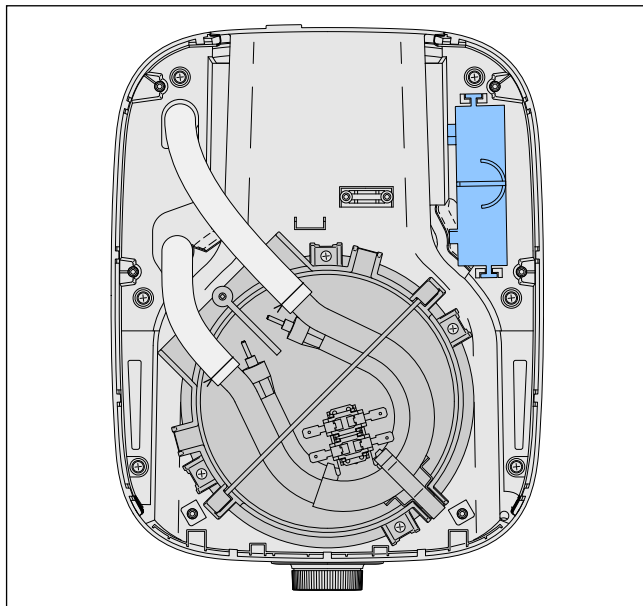
The UI panel can be disassembled, the rotary knob can simply be pulled off, the rotary encoder is secured by a single nut, remove the nut. The PCBA cover is held in place by six screws (L), once unscrewed the PCBA can be taken out. Please mind the rubber seal, preventing steam from reaching the UI PCBA.

Step 4: Bottom cover & Main PCBA

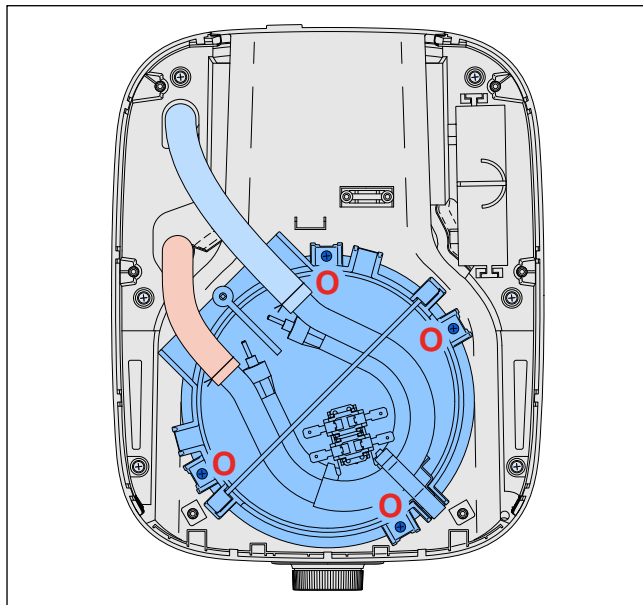
To be able to replace the components in the top side of the appliance (like the Grinder and Synchro motor), their leads need to be disconnected from the main PCBA. To reach the main PCBA, remove the six screws (P) in the bottom cover, four of them are located underneath the rubber feet.



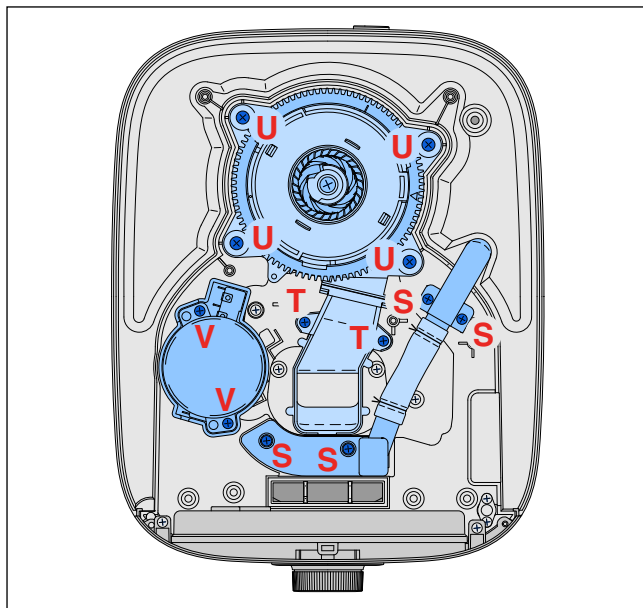
The PCBA is in the plastic box indicated in blue, some leads need to be released before you can take out the PCBA completely.

**Step 5: Heater assy**

To replace the heater assy disconnect the leads from the main PCBA and the Silicon hoses from the pinions on the heater. Only the four screws (O) indicated below hold the heater assy (incl. keep warm plate) in place. The top silicon hose is the cold water intake, the bottom silicon hose is the hot water output. It connects to the top water supply.

**Step 6: Grinder, Synchro motor and Water supply**

To remove the Grinder, disconnect its leads from the main PCBA and undo screws (U). To remove the Synchro motor remove its leads from the main PCBA and undo screws (V). The top water supply, consisting of the shower head, silicon hose, elbow and riser pipe, can be removed by undoing screws (S), only when the Silicon hose needs replacement the clamps need to be undone.



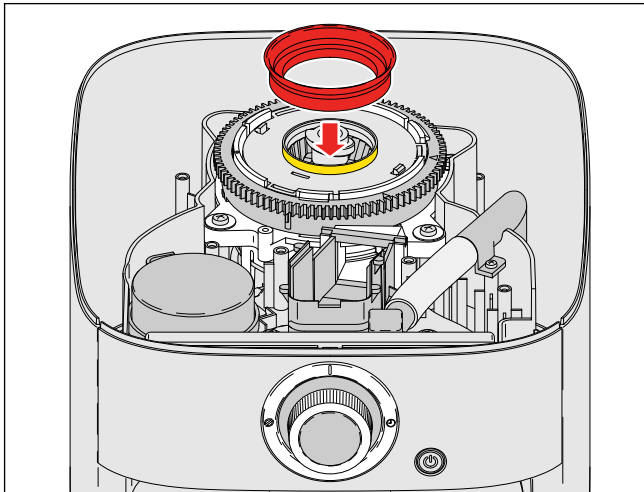
REASSEMBLY INSTRUCTIONS

HD7762/00 /C

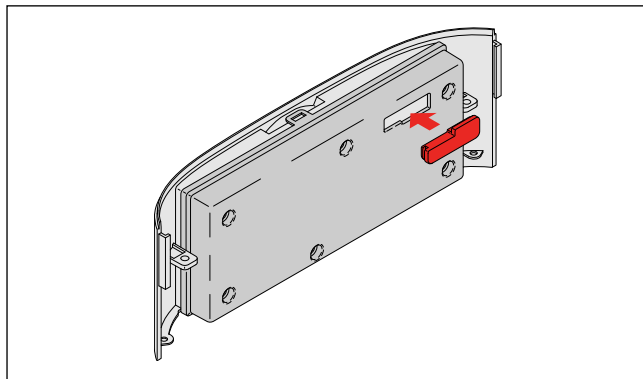
Basically the reassembly needs to take place tracing the steps needed to disassemble the appliance. There are some critical attention points:

All the gaskets in the appliance must be reinstalled properly

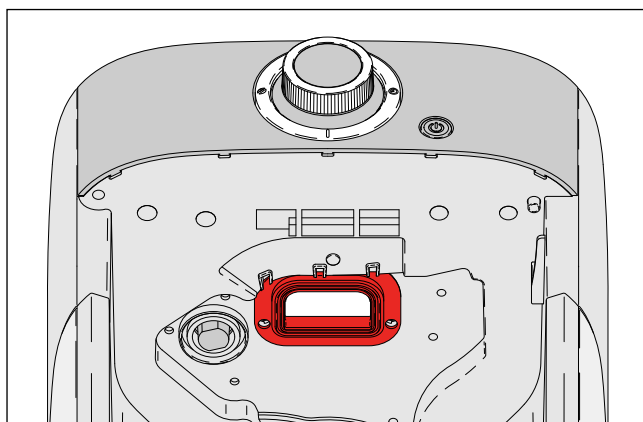
Gasket on top of the grinder



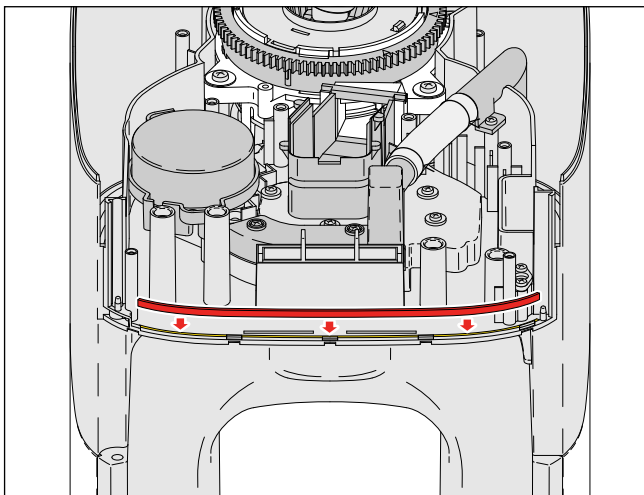
Gasket for the wires entering the UI panel



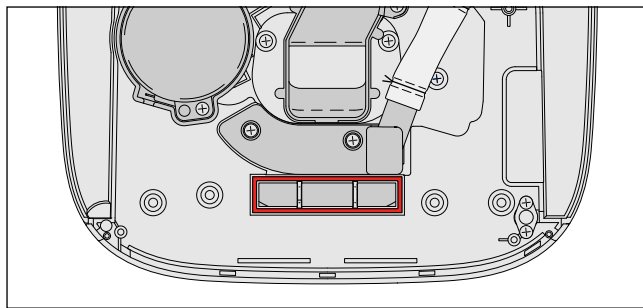
Gasket for the valve / Synchro motor



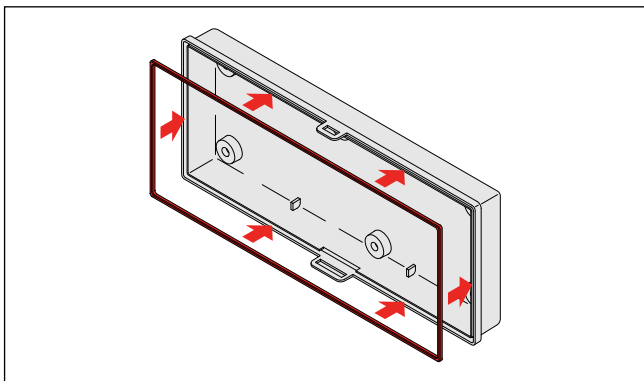
Gasket under the UI panel



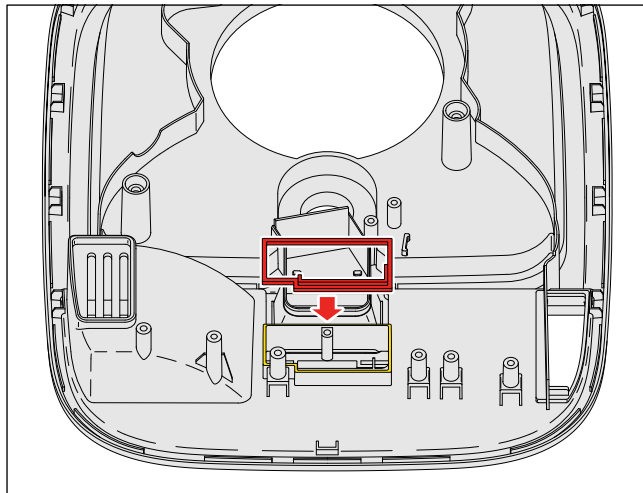
Gasket for the steam vent



Gasket of the UI panel



Gasket for the steam base

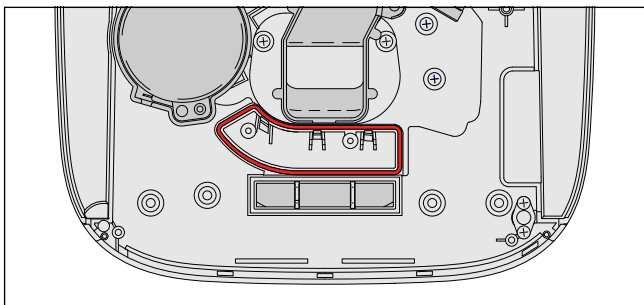


REASSEMBLY INSTRUCTIONS

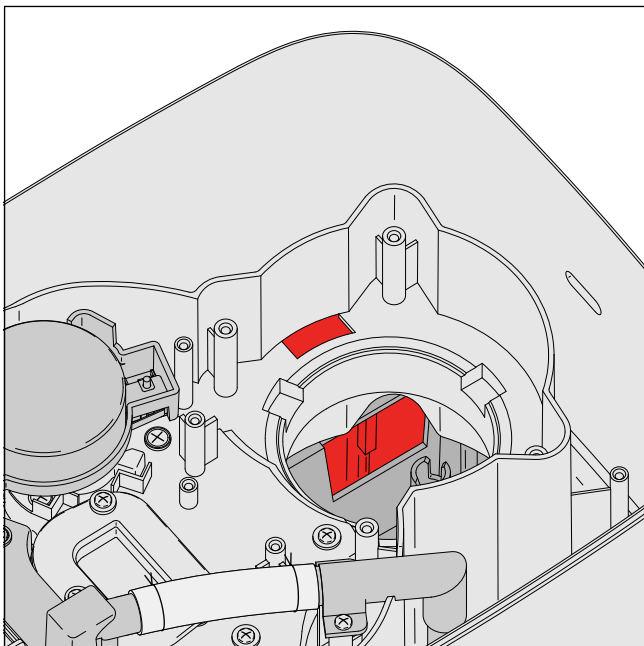
HD7762/00 /C

All the liquid seals, when broken, need to be replaced. This includes cleaning the mating surfaces and applying sufficient new liquid sealing.

Gasket of the Shower head

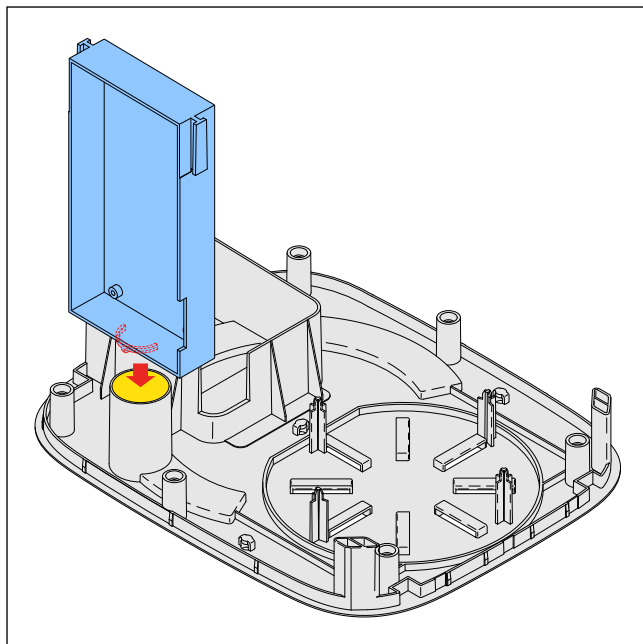


When the UI panel or Synchro motor has been removed, special attention is needed to the proper wire routing from top to bottom. All wires must pass through the slots as indicated in red in the cross section below. They may not be passed through the opening for the Grinder.




Bottom Cover

Upon reinstallation of the bottom cover, please mind that the notch on the PCBA holder fits into the recess of the bottom cover.




PARTS LIST

HD7762/00 /C

| Pos | Service code | Description |
|---|-----------------------|------------------------------|
| 1 | | Door assembly |
| 110 | 9965 100 64722 | Filterholder assy |
| 120 | 9965 100 64767 | Filterdoor assy |
| 2 | 9965 100 64772 | Jug assy |
| 210 | 9965 100 64747 | Jug lid |
| 3 | 4222 459 48951 | Brush |
| 4 | 9965 100 64753 | Bean container cover |
| 5 | | Bean container assy |
| 510 | 9965 100 64723 | Ground fineness knob |
| 511 | 9965 100 64726 | Knob cover |
| 512 | 9965 100 64774 | Selector knob |
| 513 | 9965 100 64756 | Top localizer |
| 514 | 9965 100 64745 | Bottom localizer |
| 515 | 9965 100 64741 | Spring |
| 516 | 9965 100 64735 | Shield |
| 517 | 9965 100 64718 | Bean tray |
| 518 | 9965 100 64776 | Selector axle |
| 6 | 9965 100 64766 | Grinder seal |
| 7 | 9965 100 64752 | Top cover assembly |
| 710 | 9965 100 65253 | Water lid |
| 711 | 9965 100 65252 | Inspection window |
| 712 | 9965 100 65255 | Seal |
| 713 | 9965 100 64742 | Water level indicator |
|  715 | 9965 100 75345 | Locker assembly |
| 720 | 9965 100 65254 | Micro switch assy |
| 8 | 9965 100 64734 | User interface assy |
| 8 | 9965 100 71811 | User interface assy ASO |
| 8 | 9965 100 73623 | User interface assy ASO 110V |
| 810 | 9965 100 64725 | Cable seal |
| 811 | 9965 100 64721 | Back cover |
| 812 | 9965 100 64751 | UI PCBA |
| 812 | 9965 100 71809 | UI PCBA ASO |
| 813 | 9965 100 64765 | Seal |
| 814 | 9965 100 64775 | Front cover |
| 815 | 9965 100 64762 | Rubber ring |
| 816 | 9965 100 64727 | Pin |
| 817 | 9965 100 64769 | Selector ring |
| 818 | 9965 100 64737 | Deco ring |
| 819 | 9965 100 64744 | Knob + cover |
| 820 | 9965 100 64731 | On/Off button |

| Pos | Service code | Description |
|------|----------------|----------------------------------|
| 9 | 9965 100 64754 | Steam vent seal |
| 10 | 9965 100 64759 | UI assy seal |
| 12 | 9965 100 71806 | PCB assembly in box |
| 12 | 9965 100 73626 | PCB assembly in box 110V |
| 13 | 9965 100 64749 | Heater element assembly |
| 13 | 9965 100 73624 | Heater element assembly 110V |
| 1315 | 9965 100 64719 | Thermostat / fuse |
| 14 | | Base assembly |
| 1411 | 9965 100 64729 | Base plate |
| 1412 | 9965 100 64736 | Foot |
| 15 | 9965 100 64746 | Grinder coarseness adjustor assy |
| 16 | | Water supply assembly |
| 1610 | 9965 100 64733 | Elbow |
| 1612 | 9965 100 64763 | Shower head |
| 1614 | 9965 100 64748 | Riser pipe |
| 17 | | Valve motor assembly |
| 1710 | 9965 100 64761 | Valve motor |
| 1710 | 9965 100 73621 | Valve motor 110V |
| 1711 | 9965 100 64732 | Bracket + switches |
| 1712 | 9965 100 64757 | Switch actuator |
| 18 | 9965 100 64777 | Filter locker kit |
| 19 | 9965 100 64764 | Grinder assembly |
| 19 | 9965 100 73622 | Grinder assembly 110V |
| 20 | 9965 100 64758 | Top housing |
| 21 | 9965 100 64771 | Valve seal kit |
| 22 | 9965 100 64768 | Valve kit |
| 2310 | 9965 100 64773 | Bottom housing |
| 24 | 9965 100 71915 | Clamp |
| 25 | 9965 100 71917 | Hose Tank to Heater incl. valve |
| 26 | 9965 100 71844 | Shower head seal |
| 27 | 9965 100 71916 | Hose Heater to Shower head |
| 28 | 9965 100 72826 | Power cord (EU) |
| 28 | 9965 100 73625 | Power cord (TW) |
| 29 | 4222 459 51761 | Permanent filter 1x4 * |

*) Specific models only

 = changed

