



**Washing machines,
Toploader**

**Range 40 cm
Tub C4-Appliances**

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A) SAFETY PRECAUTIONS

Before intervention on any internal components, always remove the power plug from the socket.

When possible, the ohmic resistance of the components should be measured rather than making direct measurements of voltage and current.

Some parts of the mechanical structure of the appliance could be dangerous; it is necessary to take care in order to avoid injuries.

B) PURPOSE OF THIS MANUAL

This manual is to provide technicians, who have already a basic knowledge of repairing washing machines, with general information concerning this new range of products.

For more detailed information refer to:

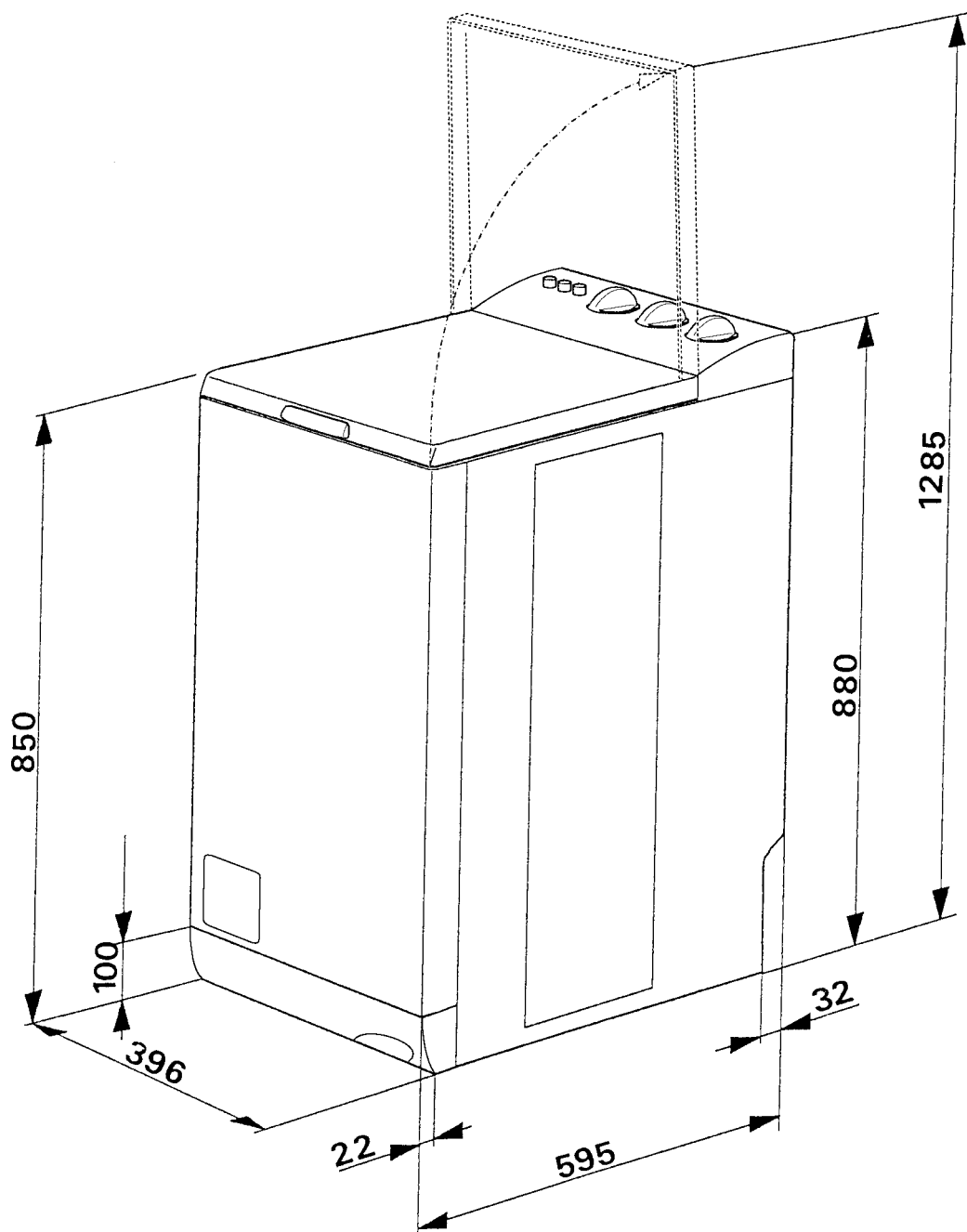
- electrical diagram
- programming
- spart parts list

C) PRESENTATION OF APPLIANCES

This new range of washing machines consists of:

- A CARBORANâ base including the filter body on which different components are fixed (drain pump, circulation pump, inlet valve, module and suspension).
- A tub of CARBORANâ and a drum of stainless steel with a capacity of 42 liters.
- On the tub there are compensating weights, one left and one right, and electrical components such as heating element, thermostat, motor and cables.
- A cabinet including four side panels:
 - right, left and front panels electrogalvanized and thermolacquered;
 - rear panel electrogalvanizedOn this construction the tub is hanging up by four springs.
- A top of "polypropylene", a housing lid on which the water inlet tray is fixed, a functional support including the control panel with the electrical components and the water distributor.

D) DIMENSIONS



E) ACCESS TO THE COMPONENTS

1) Control panel

a) *Disassembling*



- 1 - Unlock the control panel of side panel.



- 2 - Push the control panel and slide it backward.

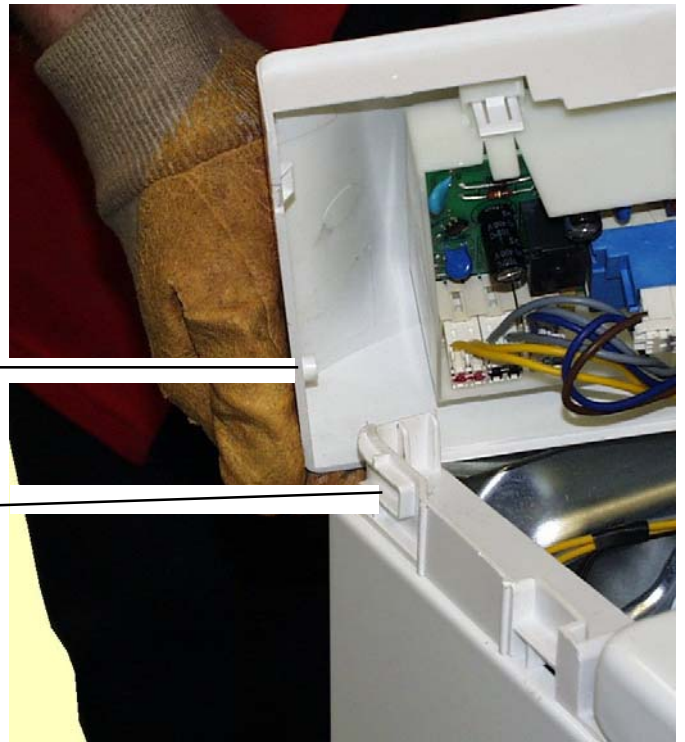


- 3 - Tilt control panel upward.
- 4 - Unlock the flat cable and the wires
- 5 - Remove the control panel.

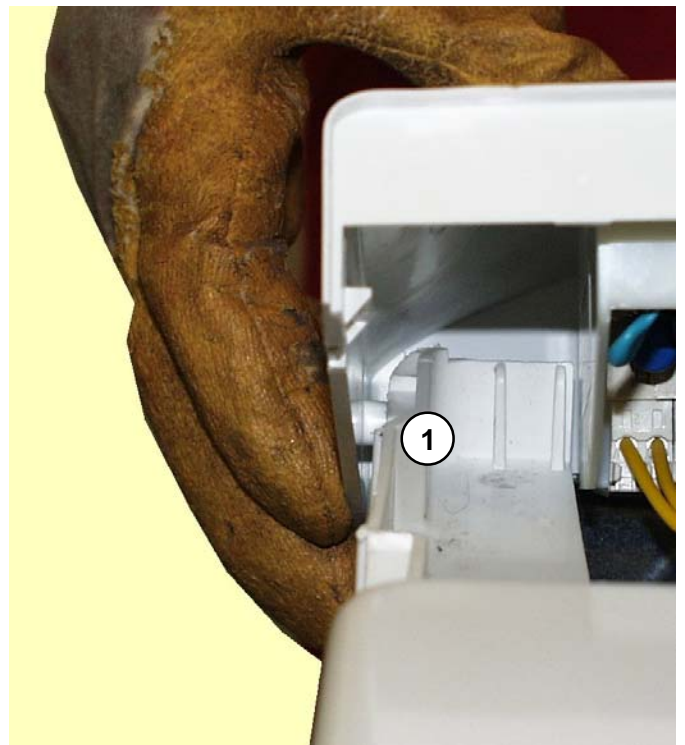
b) Assembling

Guidance bolt

Guidance rail



- 1 - Insert guide bolt of the control panel into the guide runner at the upper part.
- 2 - Shift and lock control panel to the front.



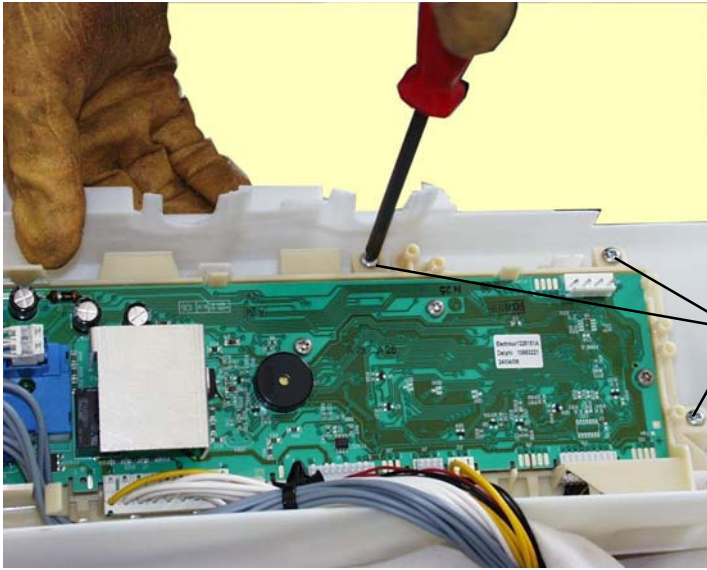
The disassembling of the control panel gives access to:

- user interface
- analog pressure switch
- suppressor
- inletvalve



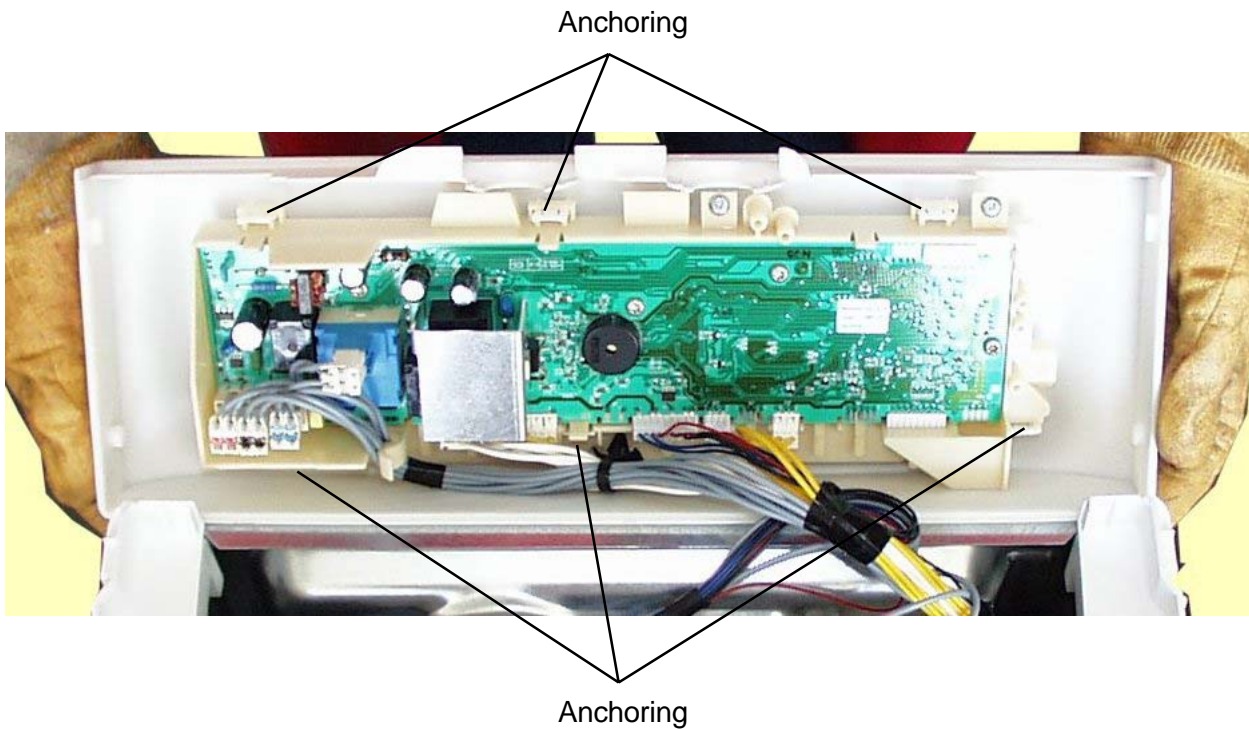
2) Electronic

a) Disassembling



- 1 - Remove the control panel.
- 2 - Remove the three fixation screws from the electronic.
- 3 - Unlock the electronic from the rear panel. Disconnect all plugs.

Screws



Anchoring

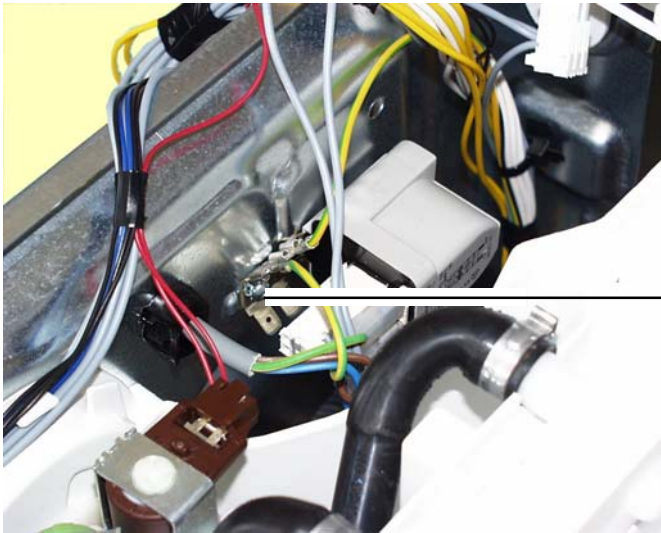
Anchoring

b) Assembling

Warning: Take care to the correct wiring when assembling.

3) Supressor

a) *Disassembling*

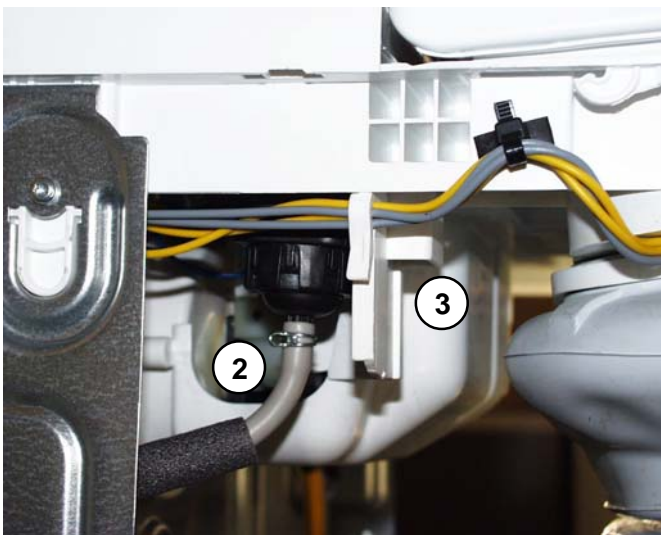


- 1 - Remove the control panel.
- 2 - Disassemble the supressor

Screws

4) Analogic pressure switch

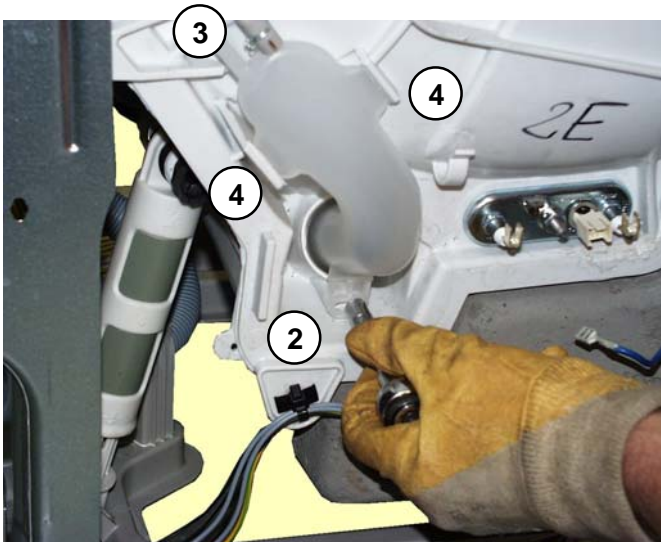
a) *Disassembling*



- 1 - Remove the left side panel.
- 2 - Detach hose clamp and pull off hose.
- 3 - Release pressure sensor.
- 4 - Release cable.

5) Air chamber

a) *Disassembling*



- 1 - Remove the left side panel.
- 2 - Remove the one fixation screw from the electronic.
- 3 - Detach hose clamp and pull off hose.
- 4 - Release air trap and draw it off the tub.

6) Inlet valve

a) Disassembling



- 1 - Unscrew the inlet hose.
- 2 - Remove the control panel.
- 3 - Open two hose clamps at the water distributor..
- 4 - Pull off the two distribution hoses



- 5 - Unlock two wirings at the valves.



- 6 - Press in the clips using a screwdriver and turn the valve.



7 - Unlock the inlet valve.



b) Assembling

Attention: During assembly you absolutely must assemble the cover because of the splash guard.

7) Water distributor

a) Disassembling



- 1 - Remove the detergent box.
- 2 - Remove the control panel.



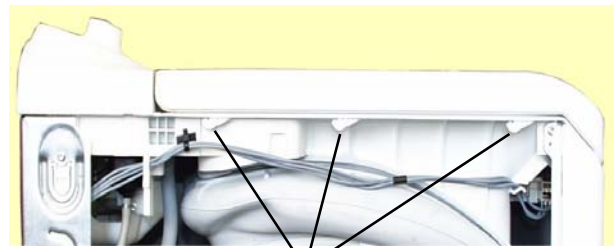
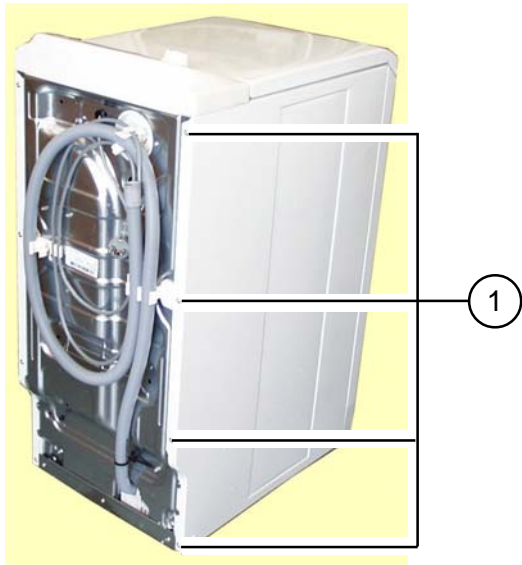
- 3 - Open two hose clamps.
- 4 - Draw off three hoses from the water distributor.



Anchoring

- 5 - Unlock and remove water distributor.

8) Side panel



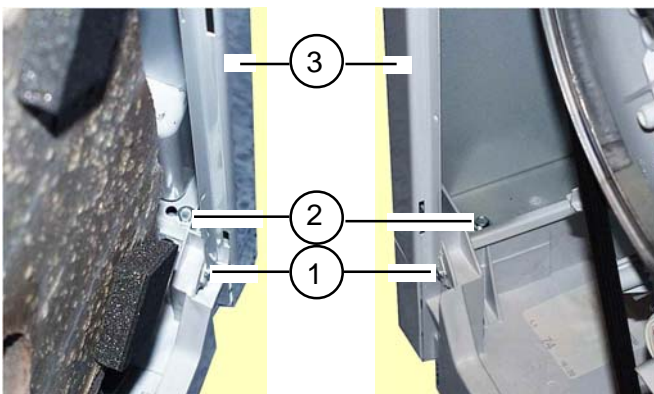
Anchoring

- 1 - Unscrew the 4 rear fixation screws.
- 2 - Pull the side panel to the back in order to disassemble the upper anchoring and the three points of front anchoring.
- 3 - Then remove the side panel.

9) Front panel

Warning: For easier handling it is necessary to put a block under the motor.

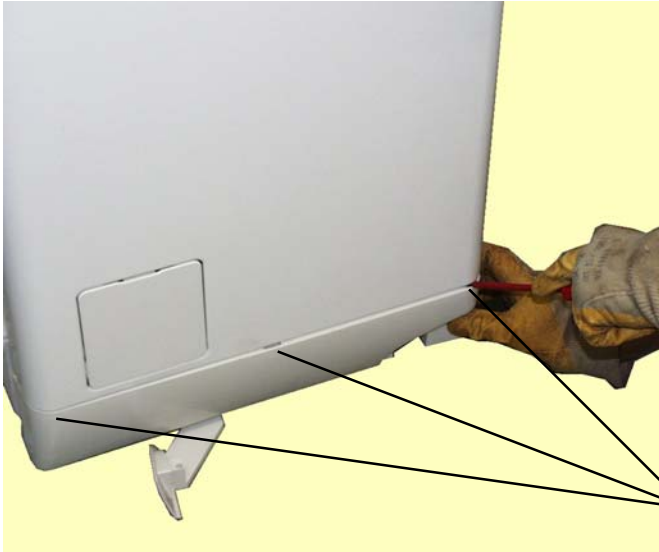
Remove the right and left side panel.



- 1 - Unscrew the two lower side fixation screws.
- 2 - Unscrew the two lower fixation screws.
- 3 - Unscrew the two upper side fixation screws.
- 4 - Remove the front panel.

10) Base panel

a) *Disassembling*



- 1 - Remove the side panels.
- 2 - Let down transport wheel.
- 3 - Unlock the three clips using a screwdriver.

Anchoring



Warning: During the assembling of the base panel take care that the side clips are in place.

11) Transport wheel

a) *Disassembling*



- 1 - Remove the right side panel.
- 2 - Release the transport roll with the screwdriver and pull it out downward.

12) Main lid and handle

a) Disassembling



- 1 - Open the main lid.
- 2 - Remove the 2 fixation screws.



- 3 - Remove the handle.

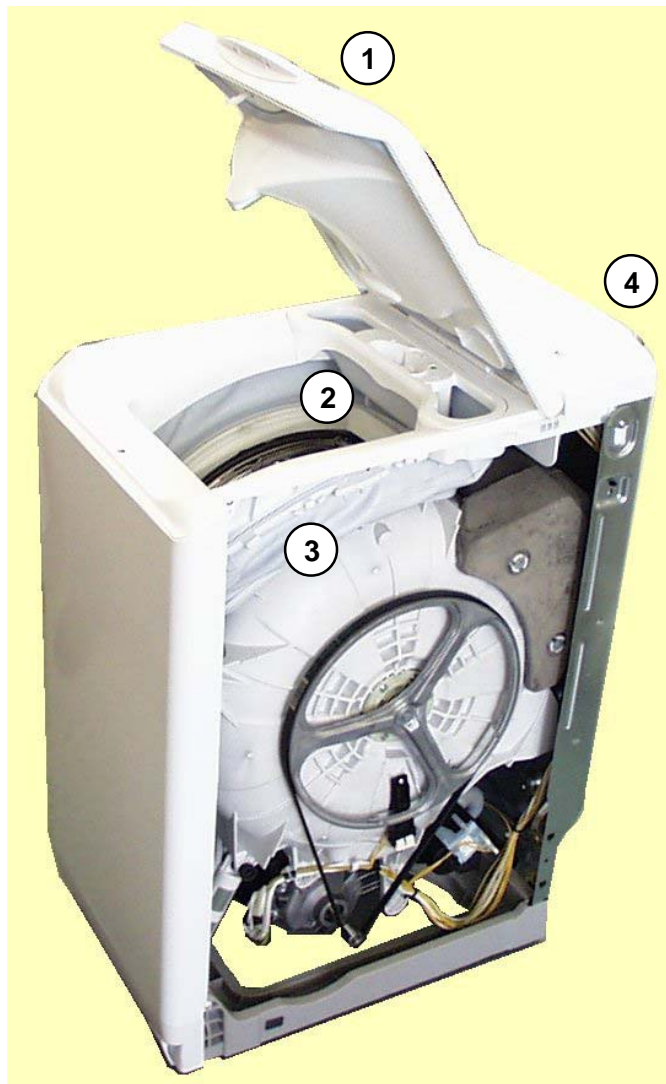


- 1 - Open the main lid.
- 2 - Move out both fixing pins using a screwdriver.
- 3 - Remove the main lid.

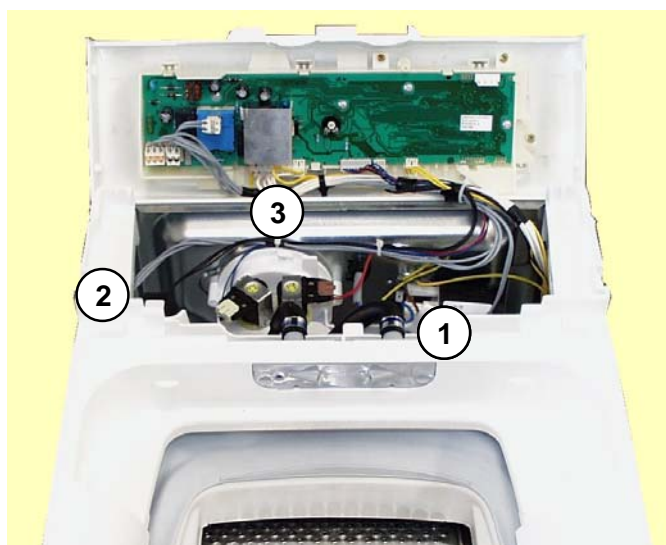
Warning: Put the water inlet tray or a cloth on the drum that the fixing pins cannot fall into the appliance when removing.

13) Table

a) Disassembling



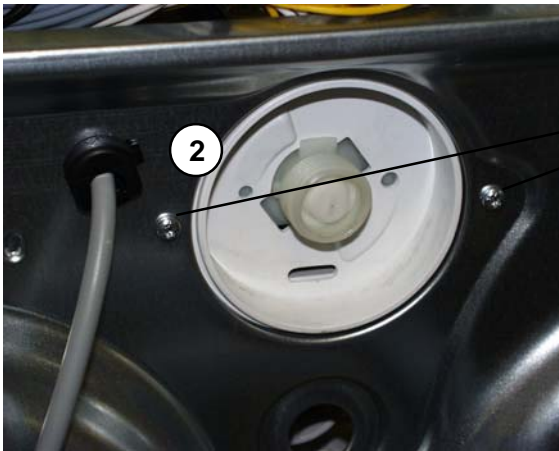
- 1 - Remove the main lid.
- 2 - Remove the detergent box.
- 3 - Remove the tension ring.
- 4 - Remove the control panel.



- 1 - Remove the water distributor.
- 2 - Remove the analogic pressure switch.
- 3 - Remove the the inlet valve.



- 1 - Unhinge left and right front springs.



Screw

- 1 - Remove two screws each left and right.
- 2 - Remove two screws at the backplate.

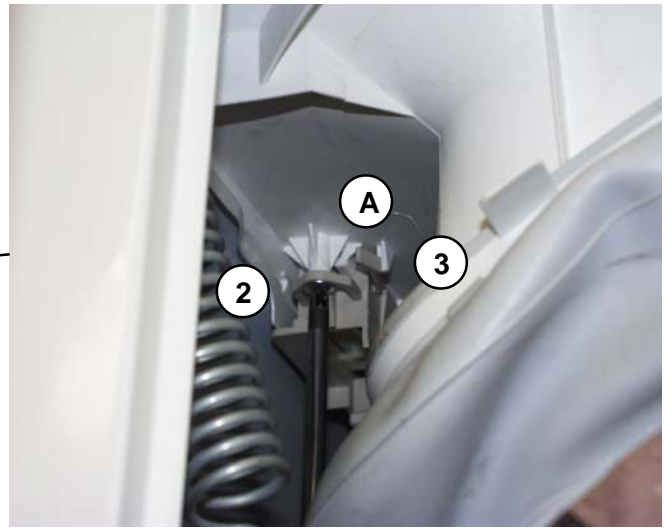


- 3 - Release upper part at the backplate and draw it slightly upward.
- 4 - Draw upper part backward and release it ahead at the front plate.

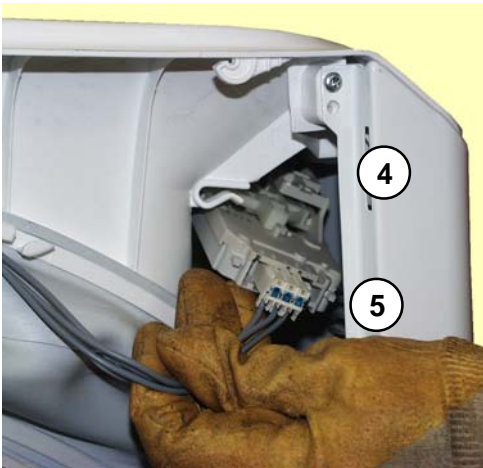
Anchoring

14) Door lock

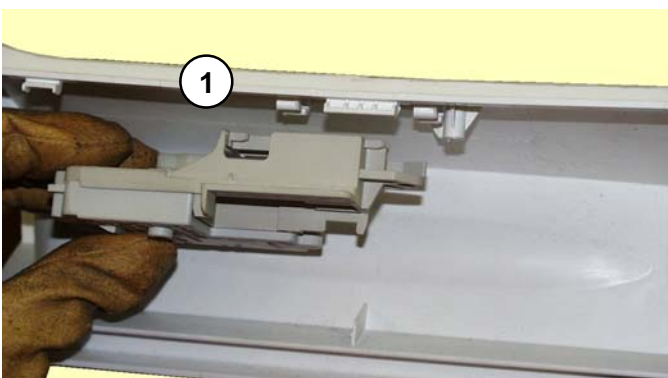
a) Disassembling



- 1 - Remove the side panels.
- 2 - Remove the screw.
- 3 - Unlock the safety clip and
- 4 - unlock it to the left by pushing the door lock.
- 5 - Unlock the wiring.



b) Assembling



- 1 - Put the door lock in front of the slides.



- 2 - Lock it by pushing to the right.
- 3 - Turn in the screw.

Warning: Take care that the clip (A) is correctly locked.

15) Rubber below

a) Disassembling



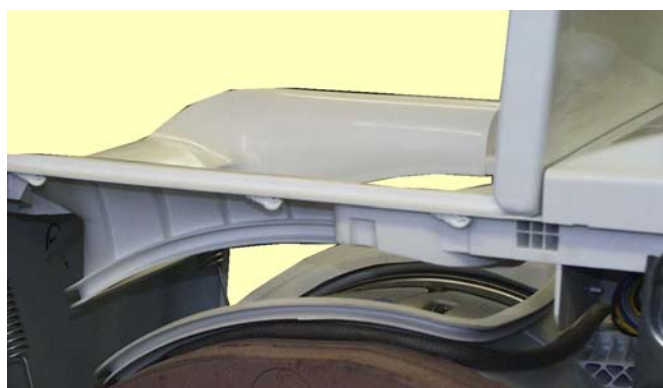
- 1 - Remove the left and right side panel.
- 2 - Pull cables out of the holding fixture.



- 3 - Cut and remove upper and lower lock ring using pliers.



- 4 - Remove the rubber below.



- 5 - Grease new rubber bellow in the area of the attachment. This enables an easier assembly of the rubber bellow.

b) Assembling

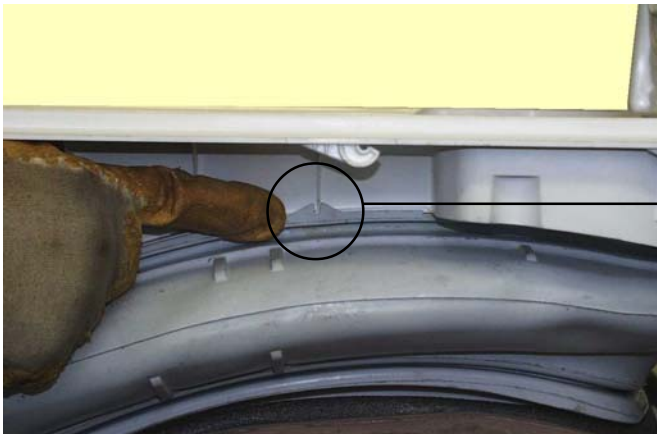


- 6 - Press new rubber bellow at the bottom into the groove at the tub.



- 7 - Press new rubber bellow at the top into the groove at the upper part.

Attention:
Take care of a correct built-in position of the rubber bellow!



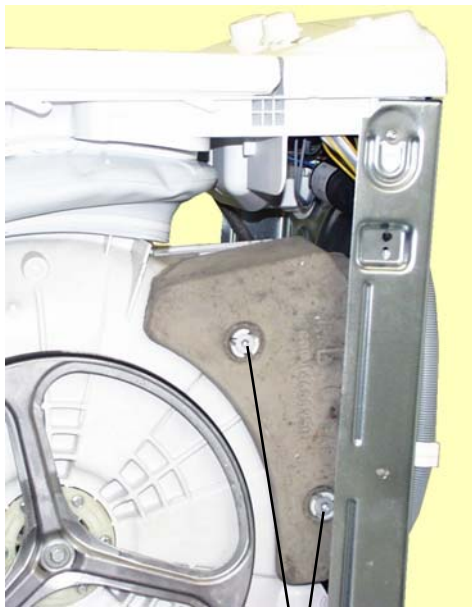
- 8 - Fix the rubber bellow at the top and at the bottom using the lock rings, if necessary press the lock using pliers.



16) Left and right weight

a) Disassembling / Assembling

The whole tub is equipped with 2 weights.

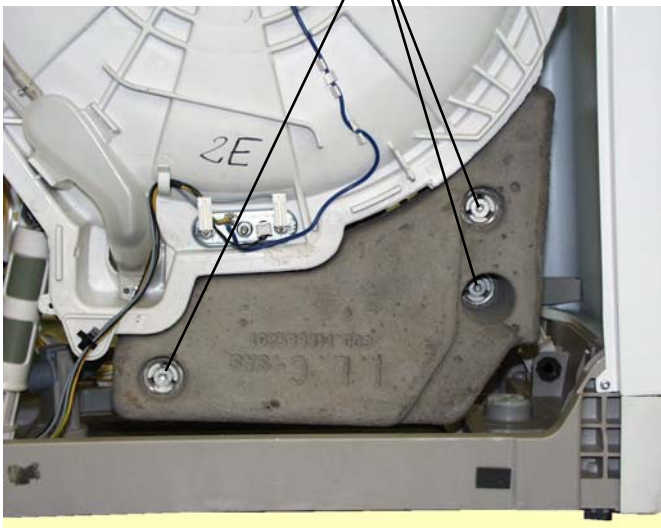


Right weight

- 1 - Remove the left and right side panel.
- 2 - Untighten and remove the 3 screws for the fixation of the weight.
- 3 - Remove the right weight.



Screws



Left weight

- 1 - Remove the left side panel.
- 2 - Untighten and remove the 3 screws for the fixation of the weight.
- 3 - Remove the left weight.

Attention: Remove the old silicone at the fixing bolts. During assembly fix the screws additionally with silicone in the borehole.

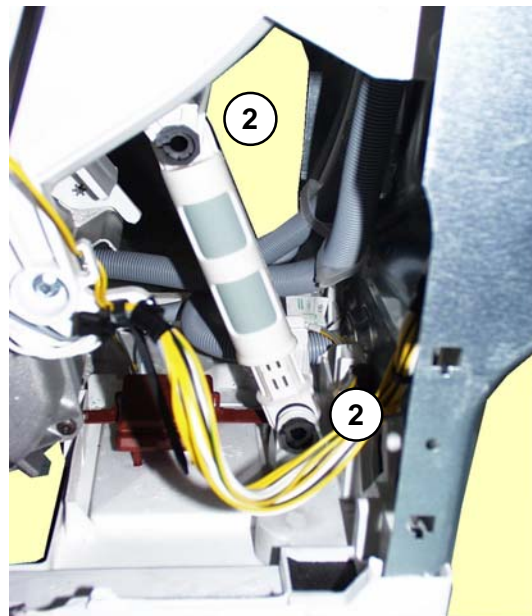
17) Shock absorber

a) Disassembling / Assembling

- 1 - Remove the left and right side panel.
- 2 - Leave the lower and the upper pivot.
- 3 - Take out the shock absorber.



front



rear



Anchoring

18) Bearings

a) Disassembling/Assembling

Left and right bearing



1 - Remove the left or the right side panel.

2 - Remove the drum screw with pulley.

3 **Following model:**
Spin speed < 850 1/min
Loosen and remove the 3 fixing screws of the bearing.
Spin speed > 850 1/min
Loosen and remove the 6 fixing screws of the bearing.

4 - Unhinge ground (only left bearing).



5 - Remove the bearing using a screwdriver.



6 - Remove the shield with O-ring using a screwdriver.

Shield with O-ring



- 7 - Remove the Shaft-sealing ring

Shaft-sealing ring

b) Assembling

Clean the drum axis, grease the shaft-sealing and shift it onto the spindles to the stop. The thin sealing lip shows to the front. Put on the O-ring and assemble the shield. Screw the bearing to the tub.

19) Tub complete

a) Disassembling



- 1 - Remove the left and right side panel.
2 - Cut the lower shaft-sealing with pliers and remove it.



- 3 - Untighten and remove the 3 screws for the fixation of the weight.



- 5 - Remove the left weight.



- 6 - Release and pull off the cables.

- 7 - Release and pull off heating.



- 8 - Remove a screw and pull off the air trap out of the tub. Release the pressure sensor hose.



- 9 - Remove the drive belt. Remove screw and pull off pulley.



- 10 - Remove the 2 screws.



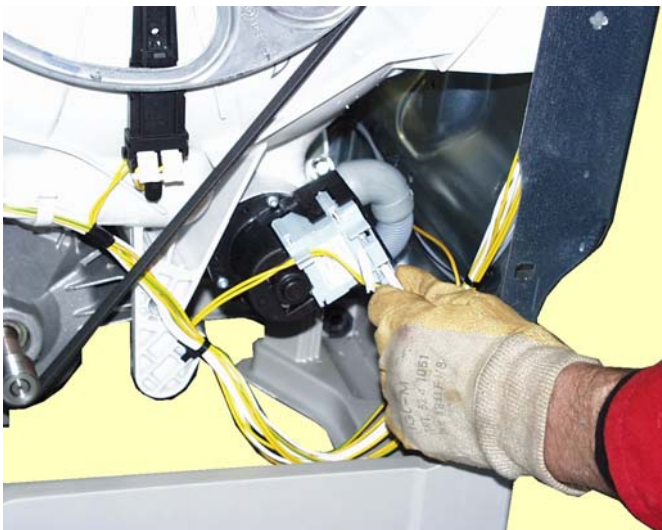
- 11 - Remove the 1 screw.



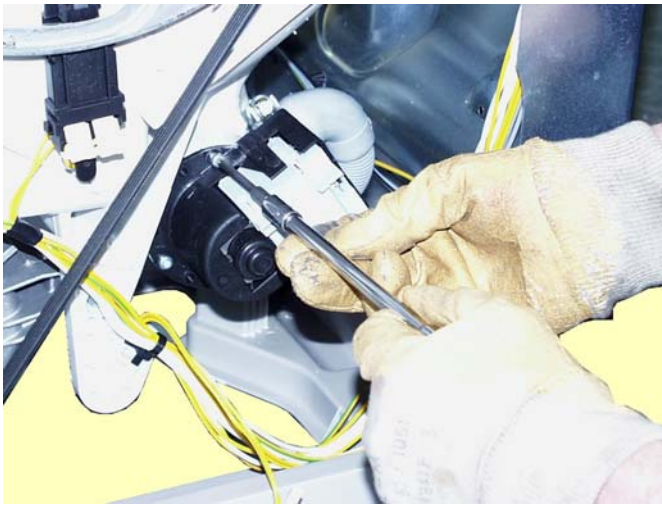
11 - Remove the right weight.



12 - Remove two screws and pull off DSP.



13 - Release and pull of lines.



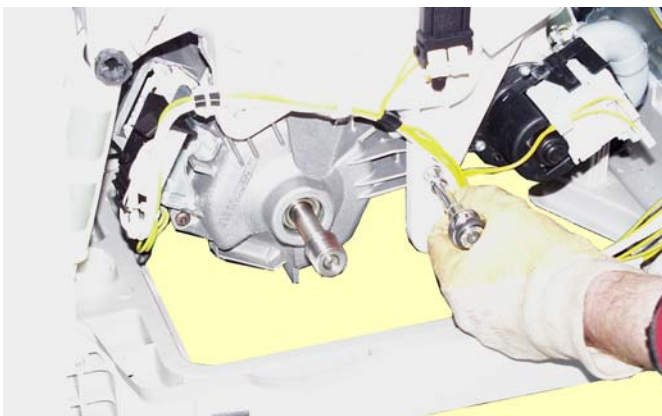
14 - Remove the 3 fixation screws.



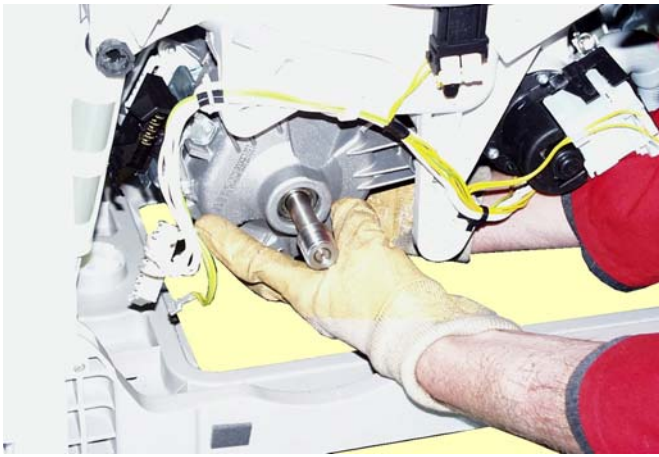
15 - Take out the drainpump.



16 - Detach hose clamp at the drain hose and draw off drain hose



17 - Remove the 2 fixation screws.



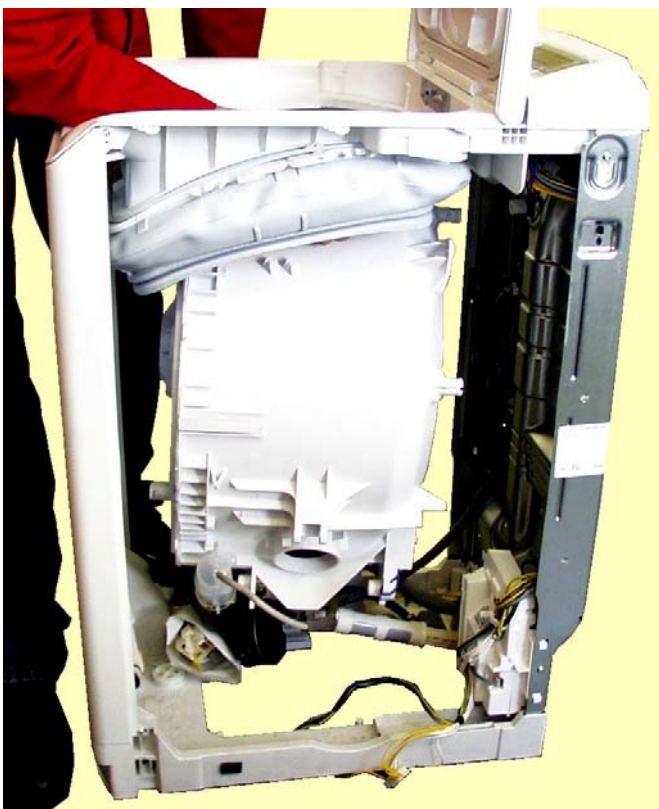
18 - Pull off the earth connection and the motor plug.

19 - Pull out motor backward.



20 - Unhinge two springs each left and right at the tub.

21 - Pull out bolt at both shock absorbers.



22 - Release pressure switch hose at the tub.

23 - Turn tub and remove it from the housing.

20) Drum paddle with fluff filter flap

a) Disassembling



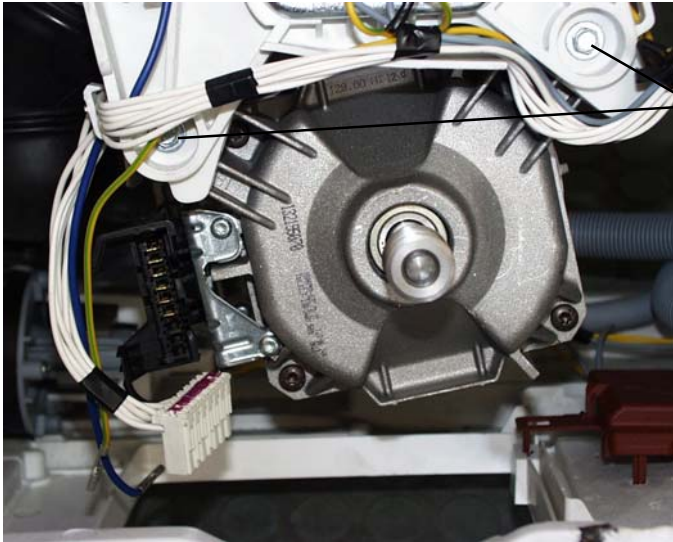
- 1 - Open the main lid.
- 2 - Remove the 4 fixation screws.



- 3 - Remove the drum paddle

21) Motor

a) Disassembling



Screws

- 1 - Remove right side panel.
- 2 - Remove the drive belt.
- 3 - Pull off the earth connection and the motor plug.
- 4 - Remove the 2 fixation screws.
- 5 - Take out the motor.

22) Drainpump

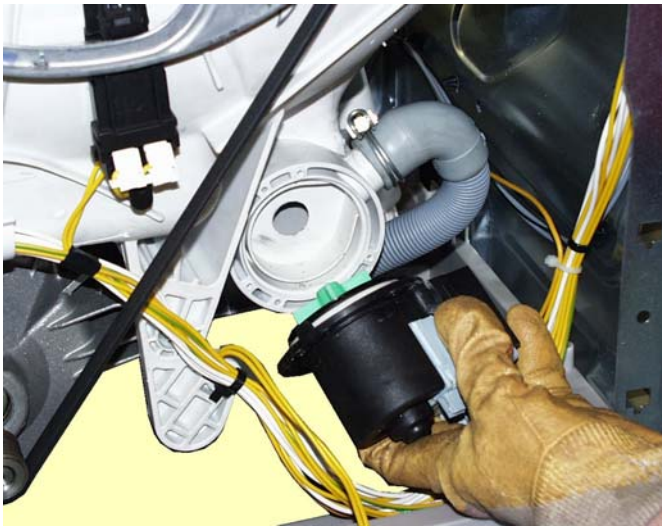
a) Disassembling



- 1 - Remove the right side panel.
- 2 - Release and pull of lines.



- 3 - Remove the 3 fixation screws.



- 4 - Take out the drainpump.

23) Float switch

a) Disassembling



- 1 - Remove the left side panel.
- 2 - Tilt the appliance.
- 3 - Unlock 2x the float switch under the base.



- 4 - Remove the float switch and unlock the cable.

24) NTC-sensor in the heating element



NTC-sensor

a) Disassembling / Assembling

- 1 - Remove the right side panel.
- 2 - Heatingelement loosen.
- 3 - Remove the NTC-sensor careful
- 4 - Press in the NTC sensor and retighten the heating element.

25) Drum support positioning DSP



Screws

a) Disassembling / Assembling

- 1 - Remove the right side panel.
- 2 - Remove the drive belt and the pulley.
- 3 - Unscrew the 2 screws from the DSP.

F) CHANGES

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