



**Washing machines,  
Toploader**

**Range 40 cm  
Tub C4-Appliances**

© AEG Hausgeräte GmbH  
Muggenhofer Straße 135  
D-90429 Nürnberg  
Germany

Publ.-Nr.:  
**599 52 75 25**  
685  
EN

Fax +49 (0)911 323 1022

DGS-TDS-N  
Edition: 12.06

## **Contents**

A)	SAFETY PRECAUTIONS .....	3		
B)	PURPOSE OF THIS MANUAL .....	3		
C)	PRESENTATION OF APPLIANCES .....	3		
D)	DIMENSIONS .....	4		
E)	ACCESS TO THE COMPONENTS .....	5	-	33
1)	control panel LCD .....	5	-	6
2)	electronic .....	7		
3)	loudspeaker .....	8		
4)	supressor .....	9		
5)	analogic pressure switch .....	9		
6)	inlet valve .....	10	-	11
7)	water distributor .....	12		
8)	side panel .....	13		
9)	front panel .....	13		
10)	base panel .....	14		
11)	transport wheel .....	14		
12)	main lid and handle .....	15		
13)	table .....	16	-	17
14)	door lock .....	18		
15)	rubber below .....	19	-	21
16)	left and right weight .....	21		
17)	shock absorber .....	22		
18)	bearings .....	23	-	24
19)	tub complete .....	24	-	27
20)	motor electronic .....	28	-	29
21)	motor .....	29		
22a)	drain pump without botton plate .....	30		
22b)	drain pump with botton plate .....	30	-	32
23)	circulation pump .....	32		
24)	float switch .....	32		
25)	NTC-sensor in the heating element .....	33		
26)	drum support positioning DSP .....	33		
F)	CHANGES .....	34		

## **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:

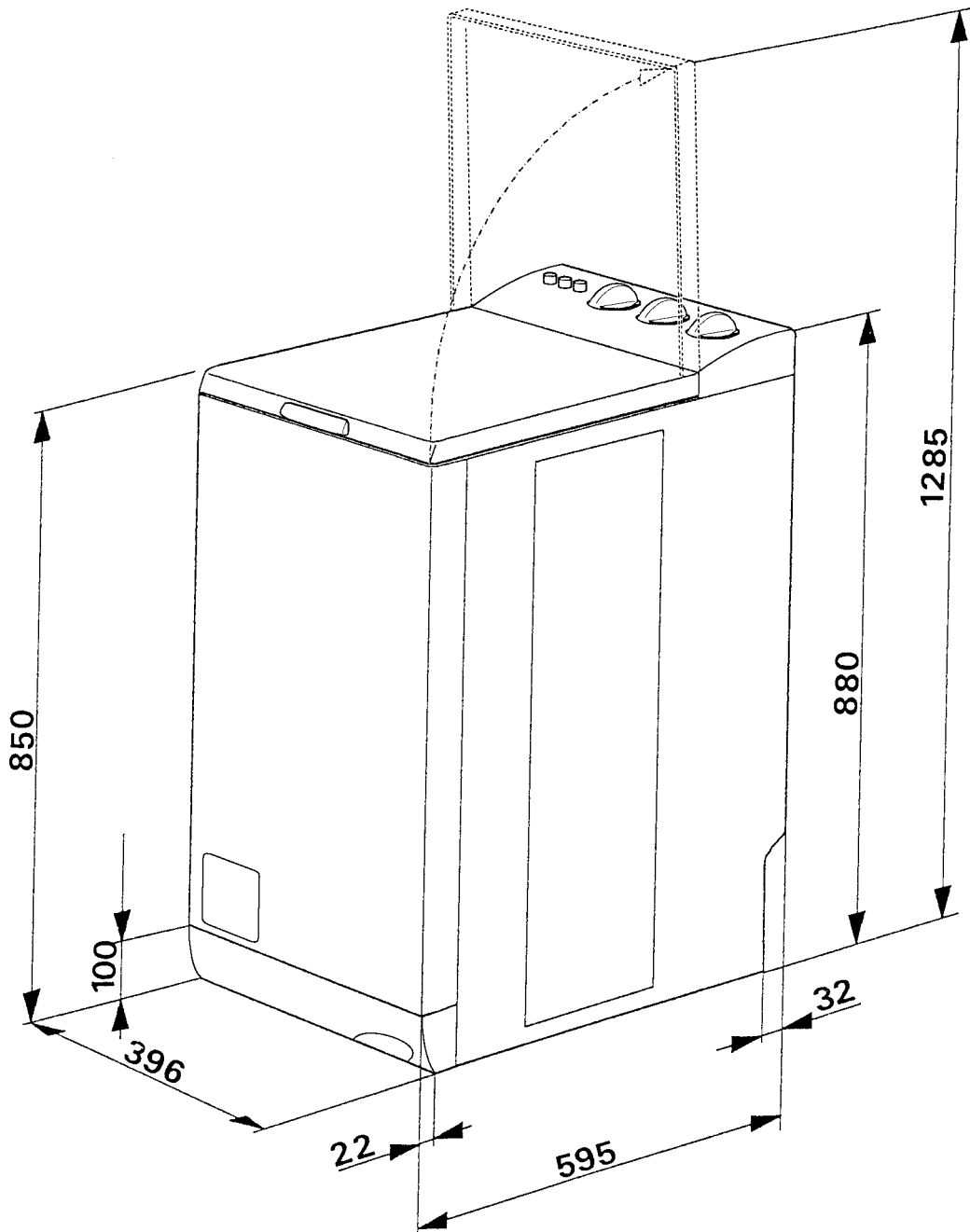
- electrical diagram
- programming
- spart parts list

## **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 LCD

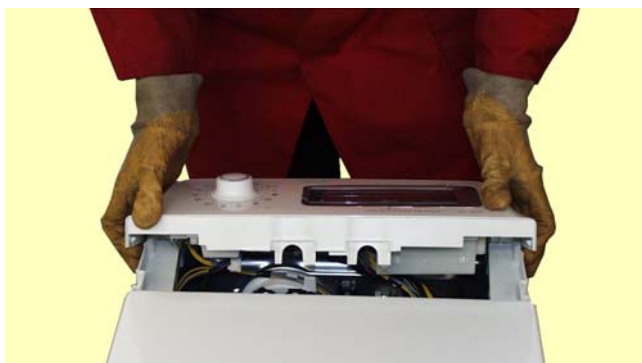
#### a) Disassembling



- 1 - Unlock the control panel of side panel.



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

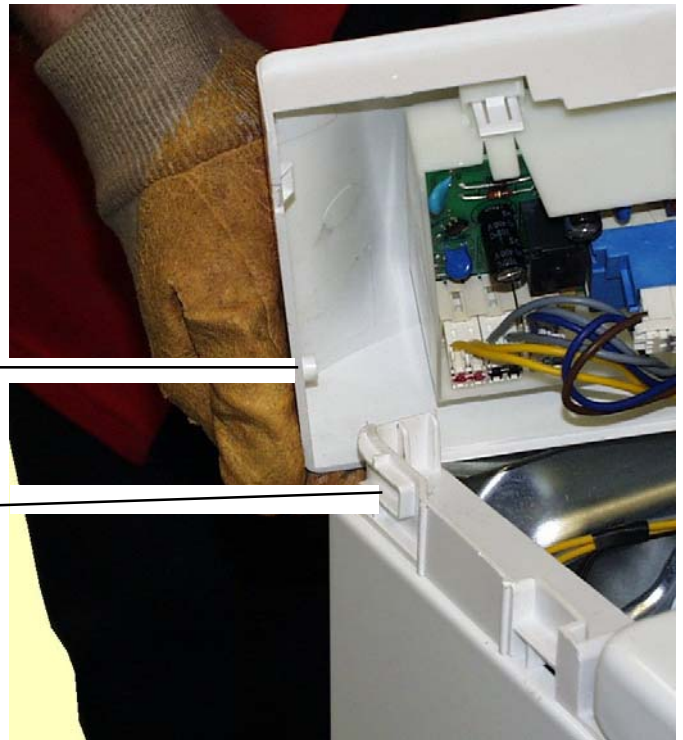


- 3 - Tilt control panel upward.  
4 - Unlock the flat cable and the wires  
5 - Remove the control panel.

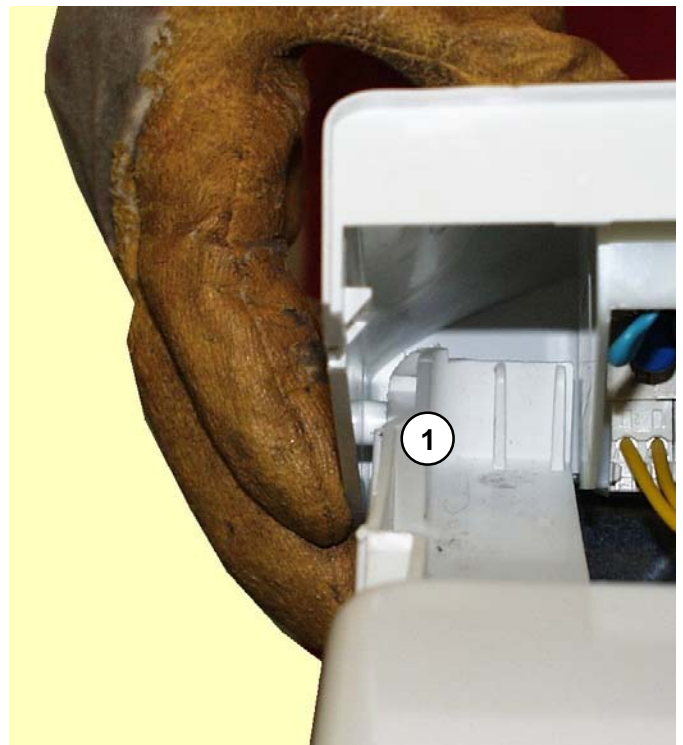
*b) Assembling*

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.



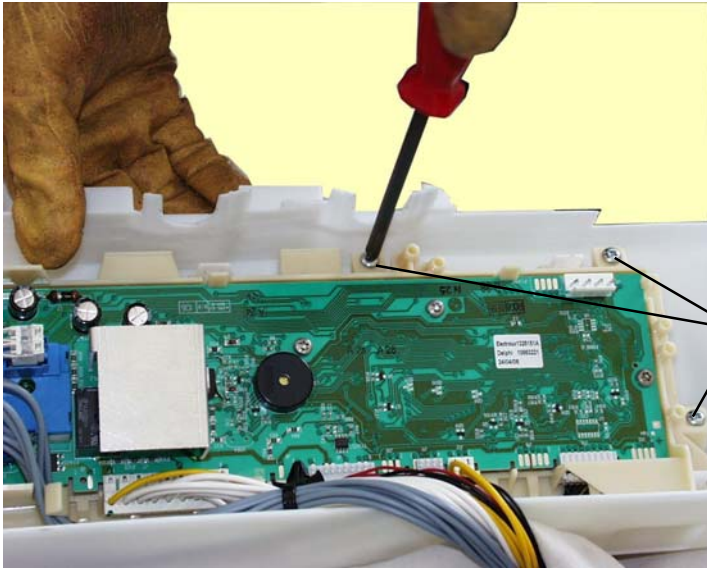
The disassembling of the control panel gives access to:

- user interface
- analog pressure switch
- suppressor
- inletvalve



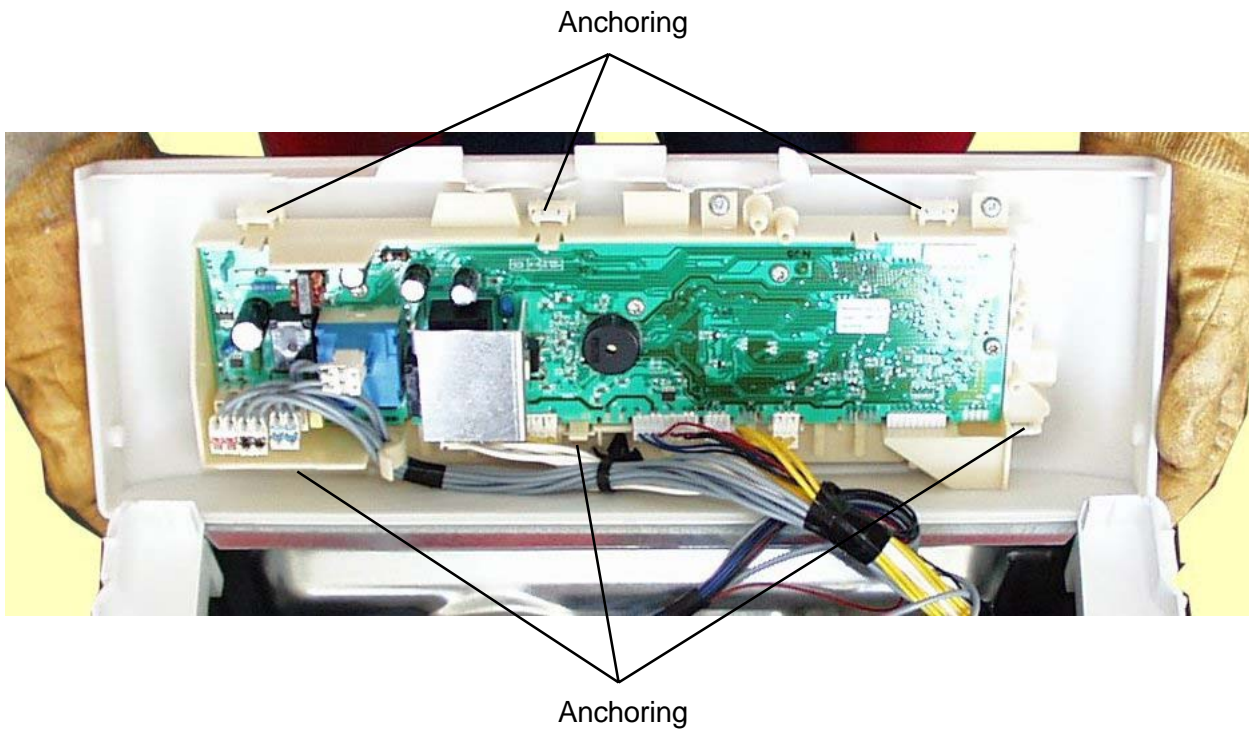
## 2) Electronic

### 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

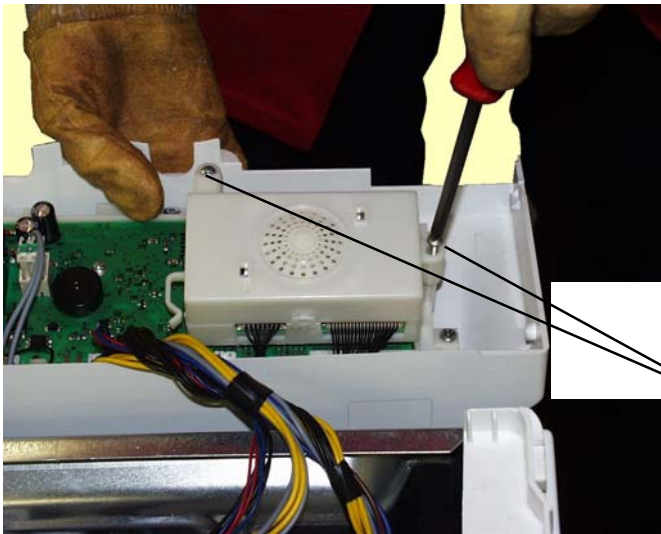


### b) Assembling

**Warning:** Take care to the correct wiring when assembling.

### 3) Lautsprecher

#### a) Disassembling



- 1 - Remove the control panel.
- 2 - Remove two fixing screws for speakers.

Screws



- 3 - Remove flat cable.

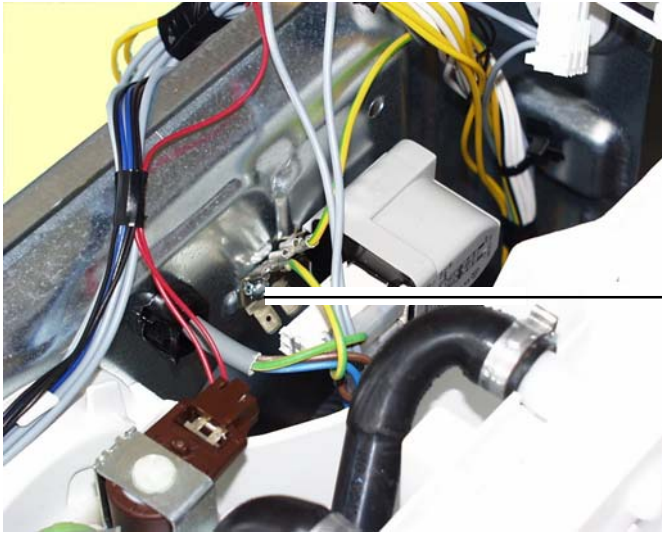


- 4 - Remove flat cable.



#### 4) Supressor

##### a) Disassembling

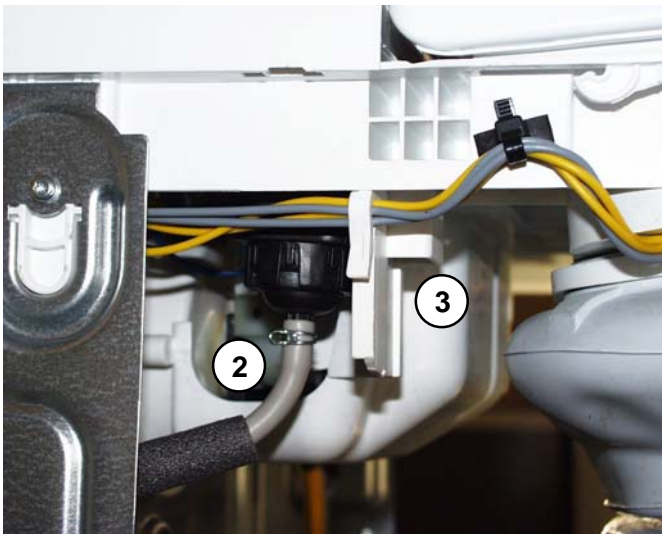


- 1 - Remove the control panel.
- 2 - Disassemble the suppressor

Screws

#### 5) 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.

## 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.



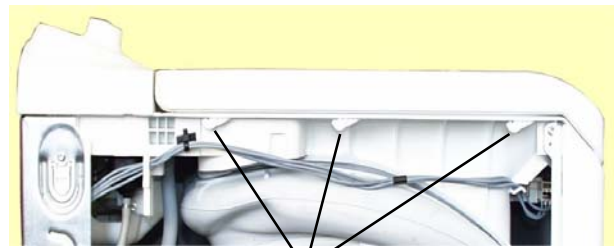
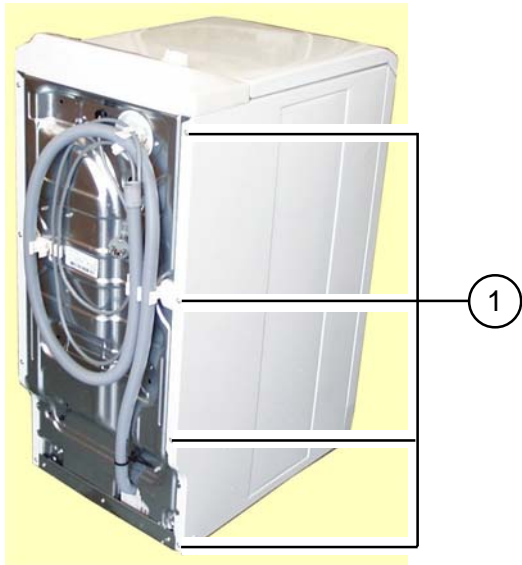
- 3 - Open two hose clamps.
- 4 - Draw off three hoses from the water distributor.



Anchoring

- 5 - Unlock and remove water distributor.

## 8) Side panel



Anchoring

- 1 - Unscrew the 4 rear fixation screws.

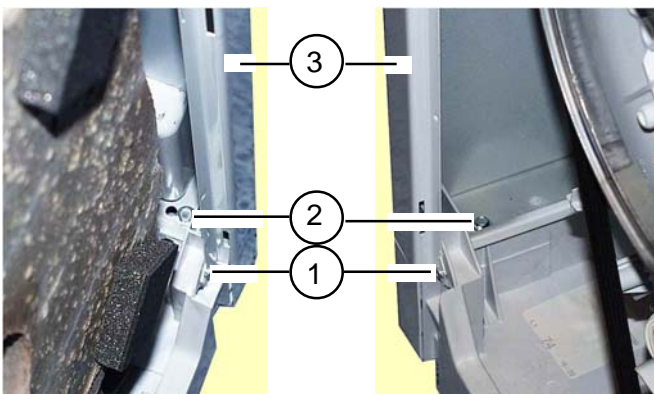
**Warning:** Do not forget the two washers when assembling. They confirm the earth connection of the side panels.

- 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.

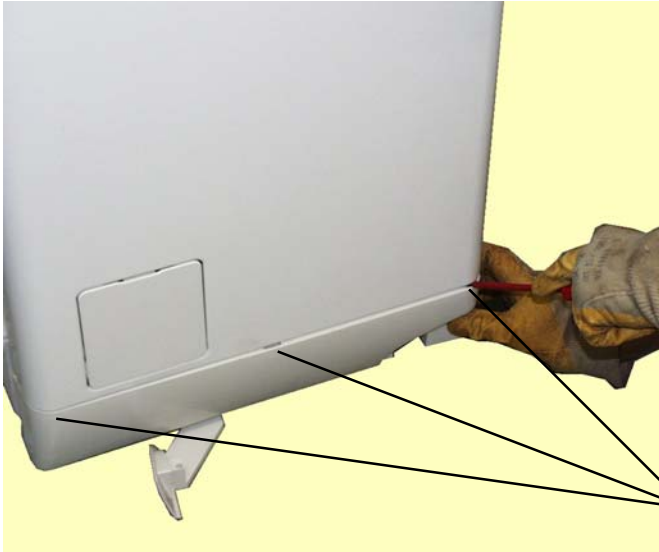
Remove the right and left side panel.



- 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.

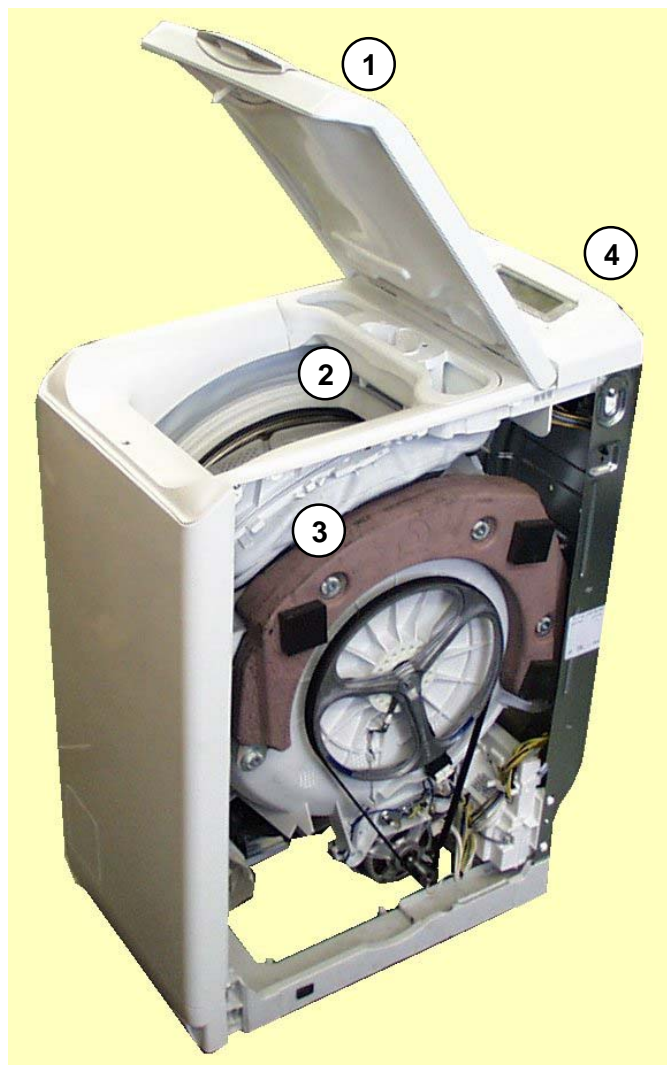


- 1 - Open the main lid.
- 2 - Move out both fixing pins using a screwdriver.
- 3 - Remove the main lid.

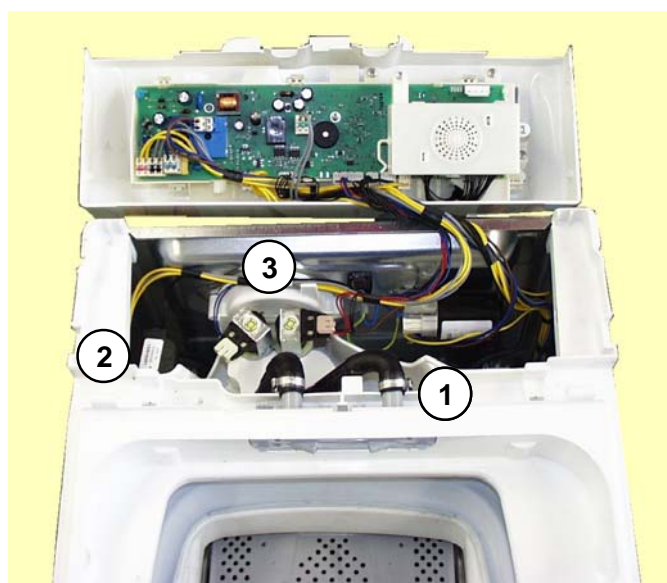
**Warning:** Put the water inlet tray or a cloth on the drum that the fixing pins cannot fall into the appliance when removing.

### 13) Table

#### a) Disassembling



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

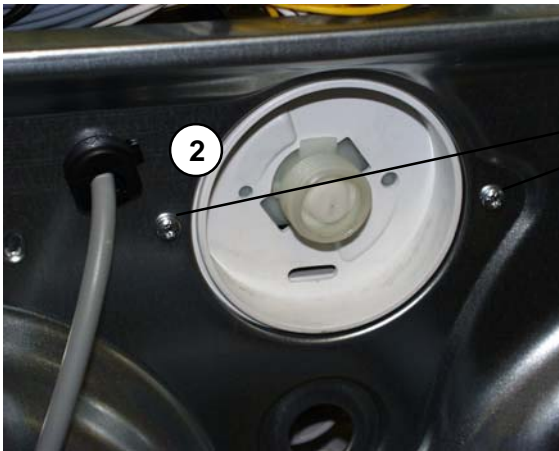
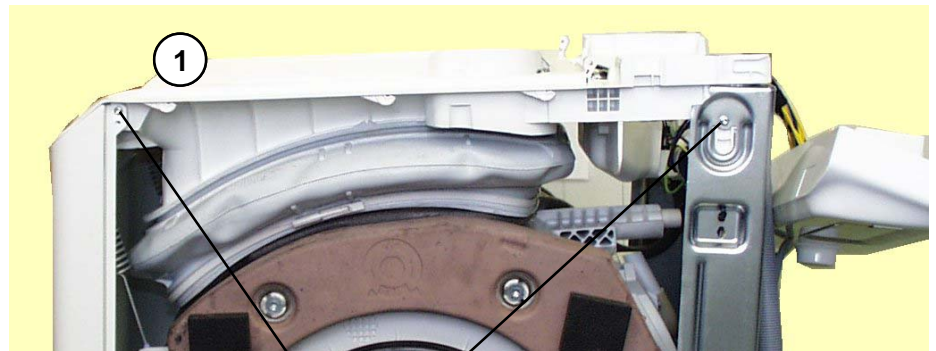


- 1 - Remove the water distributor.
- 2 - Remove the analogic pressure switch.
- 3 - Remove the the inlet valve.





- 1 - Unhinge left and right front springs.



Screw

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

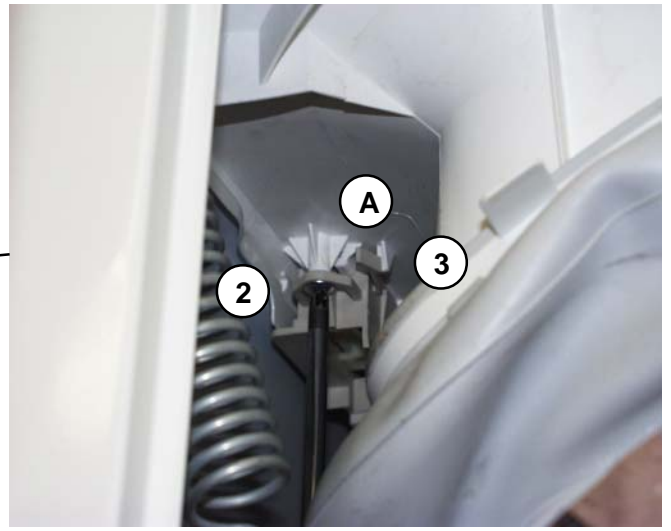


- 3 - Release upper part at the backplate and draw it slightly upward.  
 4 - Draw upper part backward and release it ahead at the front plate.

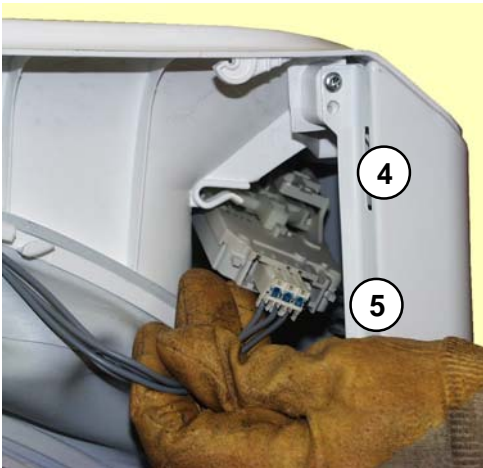
Anchoring

## 14) Door lock

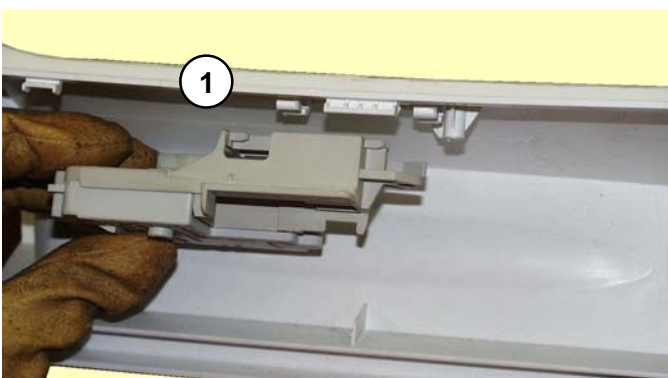
### a) Disassembling



- 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



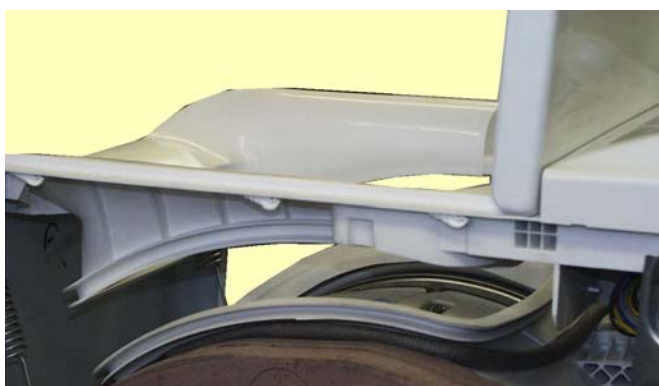
- 1 - Remove the left and right side panel.
- 2 - Pull cables out of the holding fixture.



- 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*

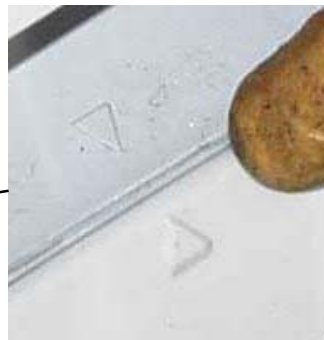
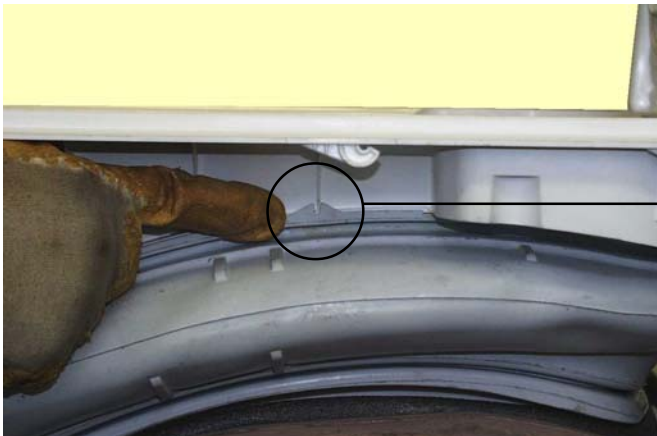


- 6 - Press new rubber bellow at the bottom into the groove at the tub.



- 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

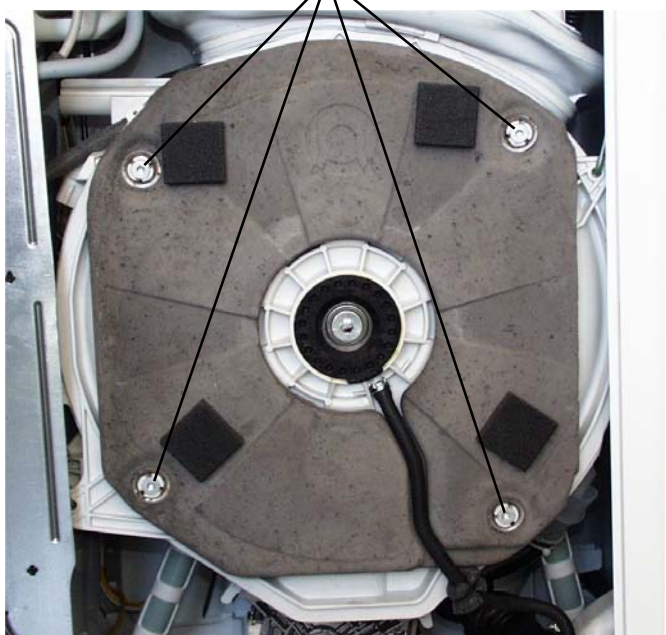
The whole tub is equipped with 2 weights.



### Right weight

- 1 - Remove the right side panel.
- 2 - Remove the foam damper.
- 3 - Untighten and remove the 4 screws for the fixation of the weight.
- 4 - Remove the right weight.

Screws



### Left weight

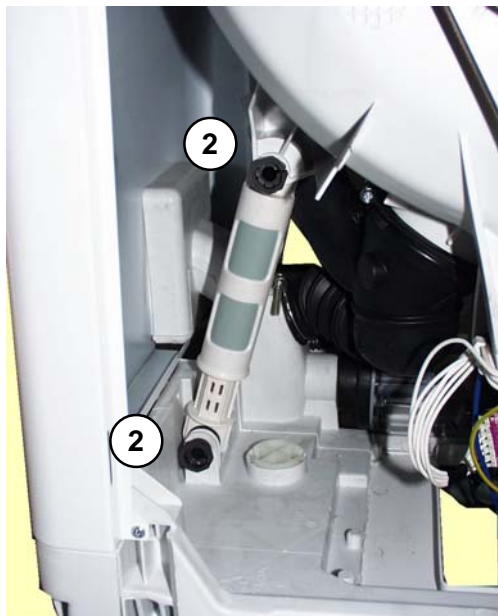
- 1 - Remove the left side panel.
- 2 - Remove the foam damper.
- 3 - Remove the direct spray hose.
- 4 - Untighten and remove the 4 screws for the fixation of the weight.
- 5 - Remove the left weight.

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

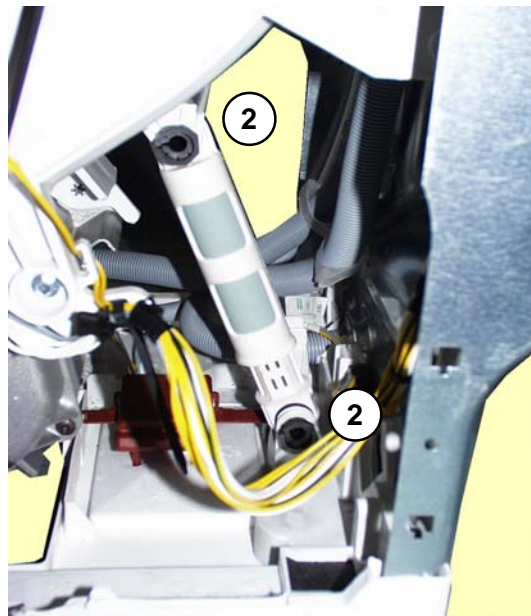
## 17) Shock absorber

### 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 bearing

- 1 - Remove the left side panel.
- 2 - Remove the drum screw.
- 3 - Use the tool for loosening the bearing (in the direction of opening).  
PN 8992980018-48/5



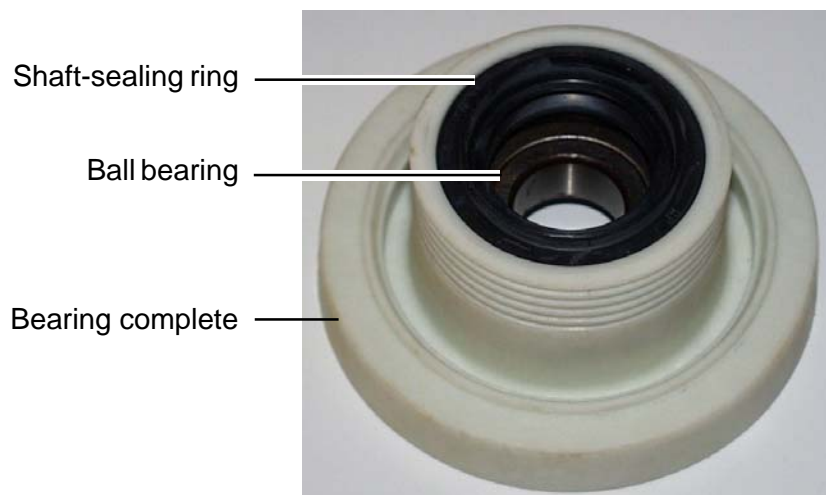
#### Right bearing

- 1 - Remove the right side panel.
- 2 - Remove the drum screw with pulley.
- 3 - Remove the pulley.
- 4 - Remove the drum earth fastening parts with a saw
- 5 - Use the tool for loosening the bearing (in the direction of opening).  
PN 8992980018-48/5

During assembling take care to the correct position of the round gasket. Clean the drum shaft, grease the shaft-sealing ring, screw the bearing to the tub (closed sense).

**Note:** These bearings are auto-fastening, therefore do not fasten them too strong.

#### Bearing with shaft-sealing for speed >1000 1/min



*Bearing without shaft-sealing for speed <1000 1/min*

Grease sealing and shift it onto the spindle to the stop.  
The thin sealing lip is ahead.



Ball bearing

Bearing complete



Gasket



Gasket

**19) Tub complete**

**a) Disassembling**



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



- 3 - Detach hose clamp and pull off hose.





- 4 - Untighten and remove the 4 screws for the fixation of the weight.
- 5 - Remove the left weight



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



- 7 - Remove two screws and pull off DSP.



8 - Release and pull off the cables.

9 - Release and pull off heating.



10 - Untighten and remove the 4 screws for the fixation of the weight.

11 - Remove the right weight.

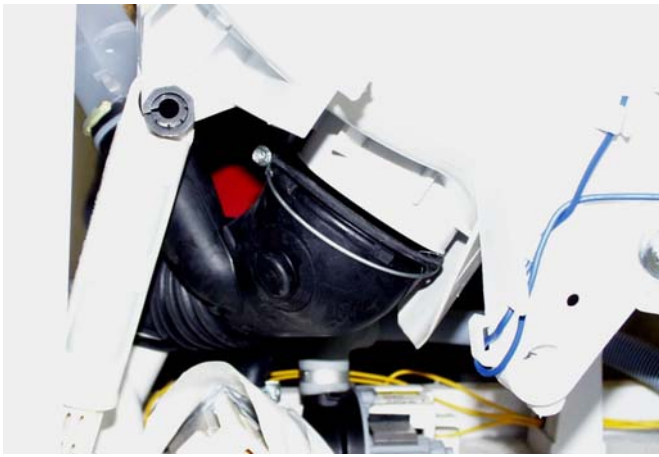


12 - Pull off the earth connection and the motor plug.

13 - Remove the 2 fixation screws.



14 - Pull out motor backward.

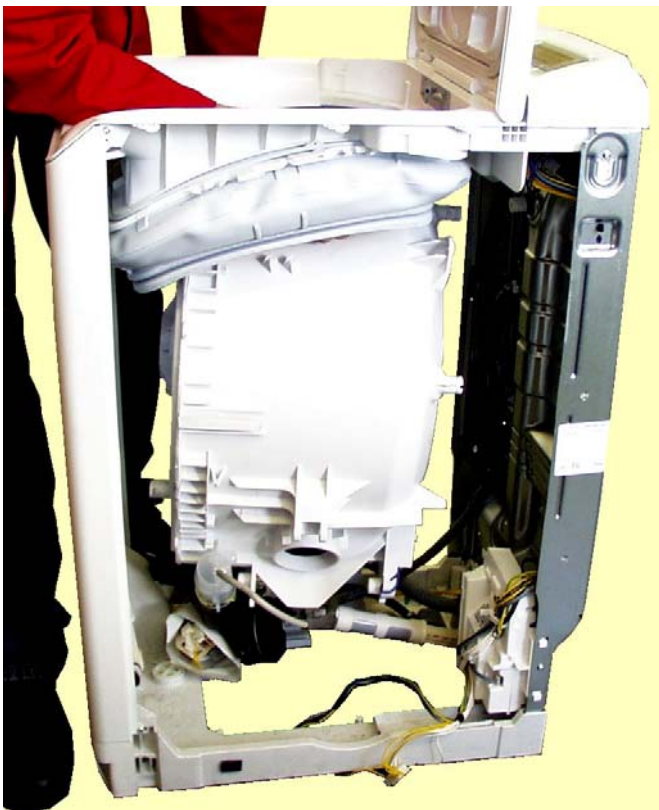


15 - Detach hose clamp and pull off hose.

16 - Pull out bolt at both shock absorbers.



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

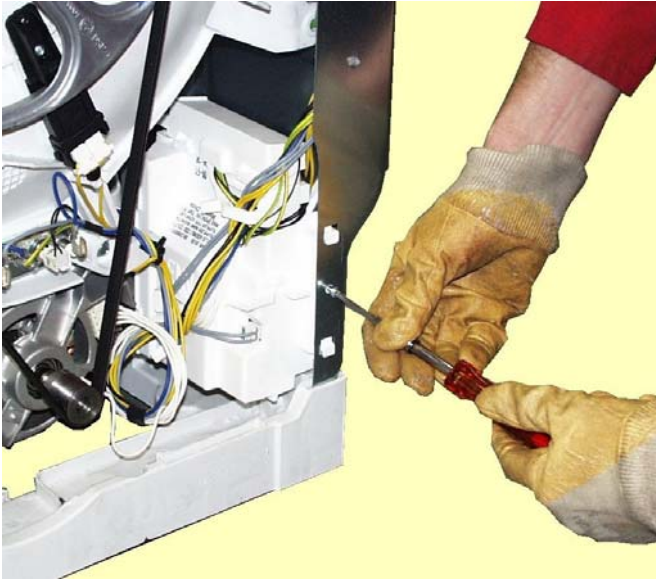


18 - Release pressure switch hose at the tub.

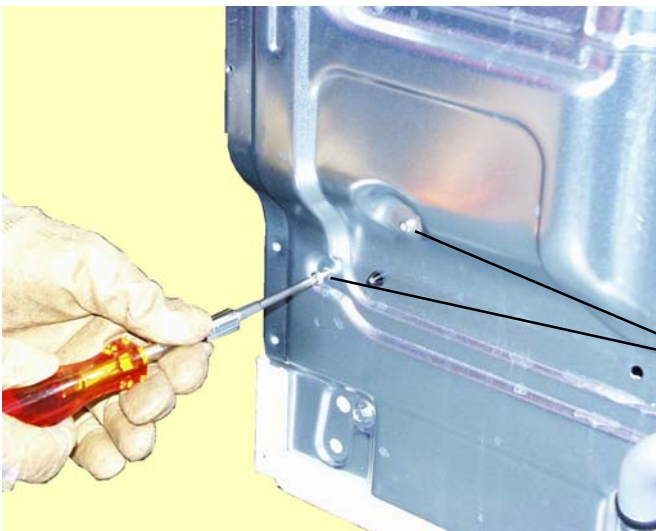
19 - Turn tub and remove it from the housing.

## 20) Motor electronic

### a) Disassembling

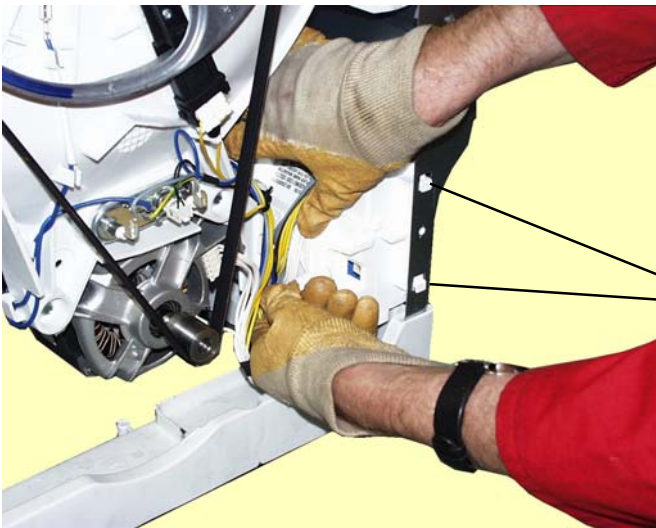


- 1 - Remove the right side panel.
- 2 - Remove the one fixation screw from the electronic.



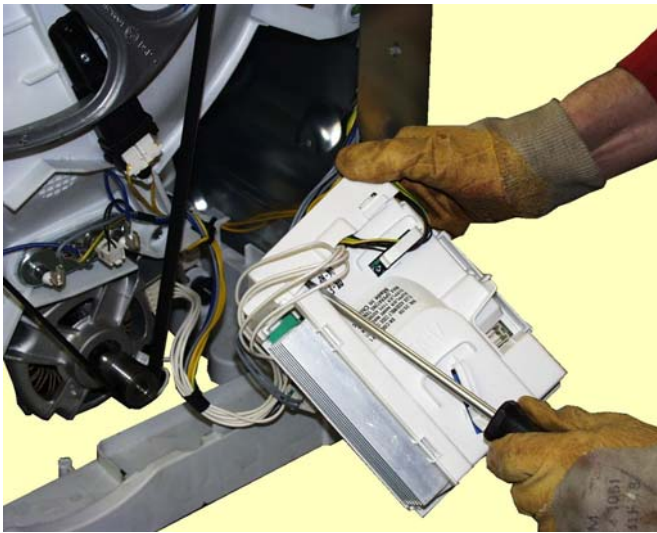
- 3 - Remove the two fixation screws from the electronic.

Screws



- 4 - Pull cables out of the holding fixtures.
- 5 - Draw off connector.
- 6 - Release electronic from the backplate.

Anchoring



- 7 - Open plug cover using a screwdriver.



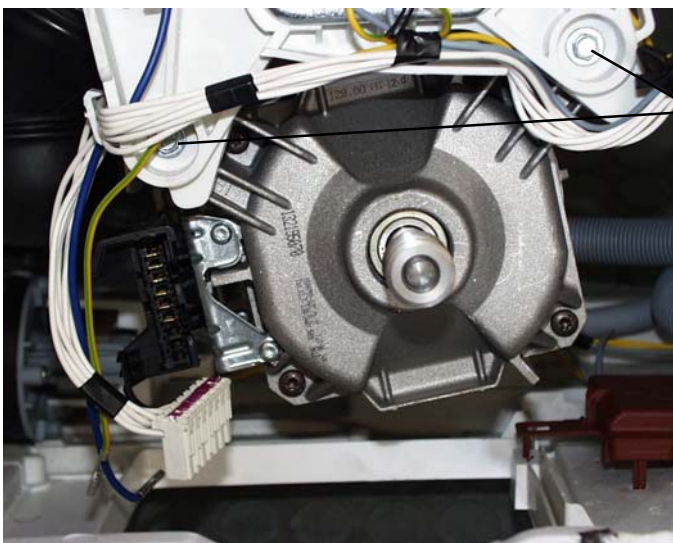
- 8 - Pull off connector.

b) Assembling

**Warning:** Take care to the correct wiring when assembling.

21) **Motor**

a) Disassembling



Screws

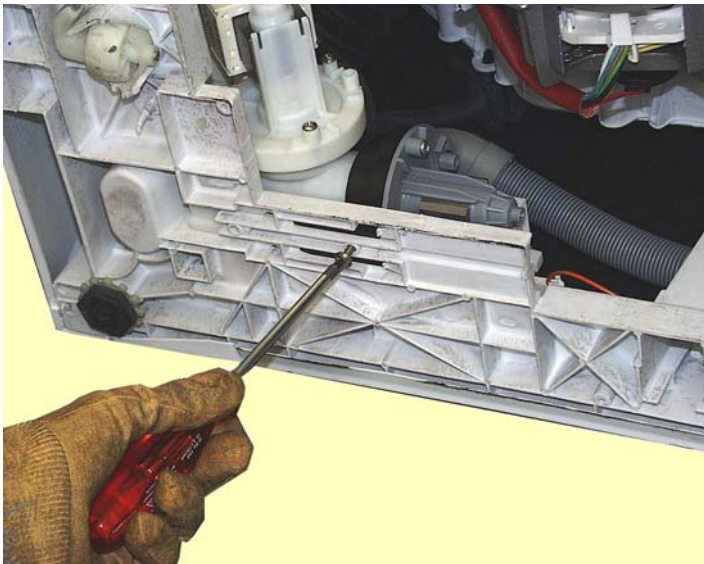
- 1 - Remove the left and right side panel.  
 2 - Remove the drive belt.  
 3 - Pull off the earth connection and the motor plug.  
 4 - Remove the 2 fixation screws.  
 5 - Take out the motor.

## 22a) Drain pump without bottom plate

### a) Disassembling



- 1 - Remove the left side panel.
- 2 - Tilt the appliance to the back.
- 3 - Unlock the clips for pump and connection part (following appliance).
- 4 - Pull out the pump from the rear.
- 5 - Remove the drain hose
- 6 - Unlock two wirings.



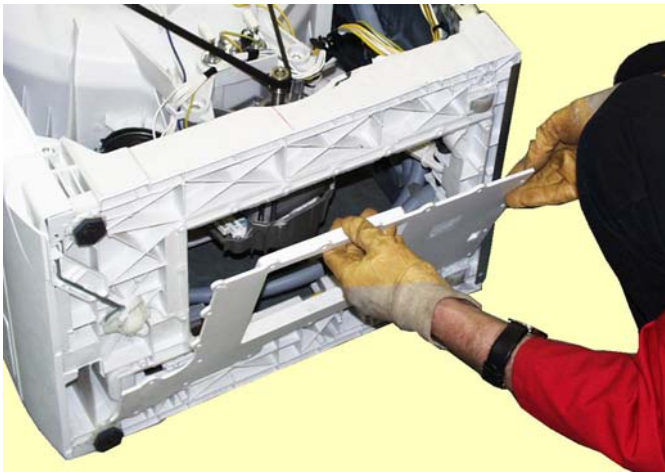
If (when you disassemble the drain pump or the connection part of drain pump/circulation pump), one of its fixation clips has been broken, use the screws with reference no. **6020190-01/0**.

## 22b) Drain pump with bottom plate

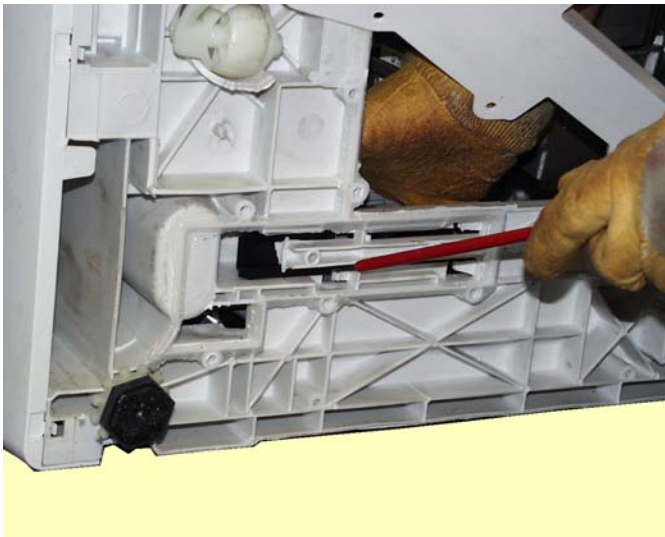
### a) Disassembling



- 1 - Remove the left side panel.
- 2 - Tilt the appliance to the back.
- 3 - Remove 20 screws for base-plate and water protection system.

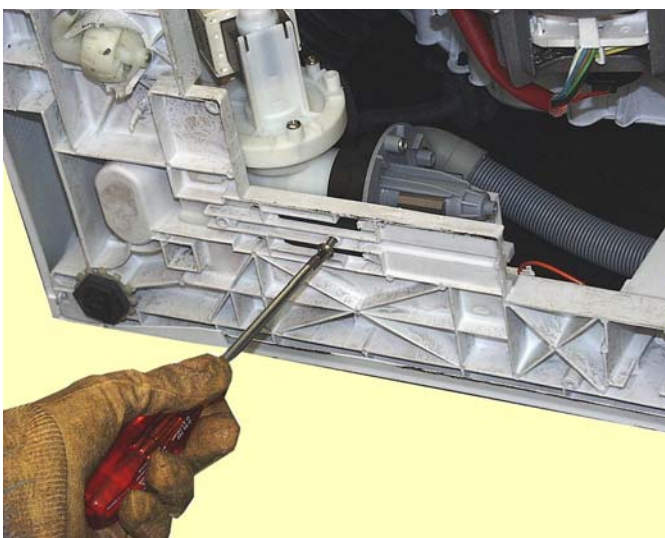


- 4 - Remove base-plate.
- 5 - Remove silicone remains.



- 6 - Unlock the clips for pump and connection part (following appliance).
- 7 - Pull out the pump from the rear.
- 8 - Remove the drain hose
- 9 - Unlock two wirings.

*b) Assembling*



- 1 - Fix drain pump using an additional screw, use reference no. **6020190-01/0** or one of the locating clamps has been broken.



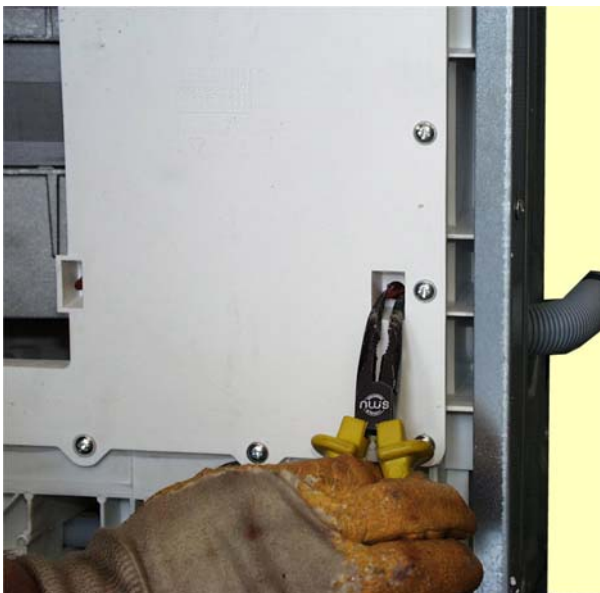
- 2 - Seal base-plate for water protection system with silicone and fix it with the screws.
- 3 - Fix the drain hose.
- 4 - Attach two cables.

### 23) Circulation pump

Disassemble and assemble the circulation pump as described under point 22a and 22b respectively.

**Warning:** Take care after reassembling to the correct position of the “direct spray” hose.

### 24) Float switch

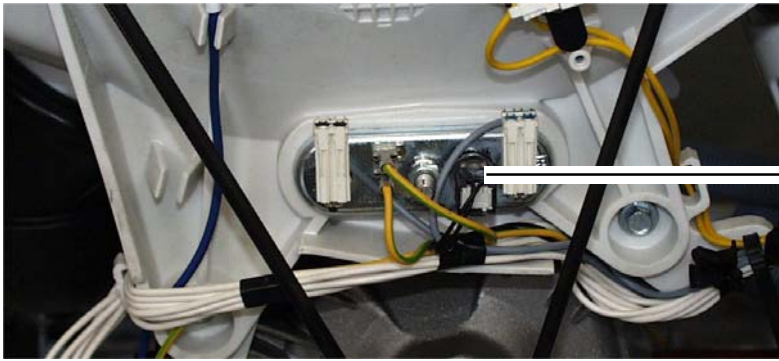


#### *a) Disassembling / Assembling*

- 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.



## 25) 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.

## 26) 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**

Date	Page changed
------	--------------

11.01.2007	2 - 33
------------	--------