



TECHNICAL EDUCATION

Flush-Mount Dishwasher for European Cabinets



Model JDB9600AW

Addendum:
New service diagnostic
information is available
beginning on page 180.

FORWARD

This Jenn-Air Service Manual, "Flush Mount Dishwasher" (Part No. W10720845), provides the In-Home Service Professional with information on the installation, operation, and service of the "Flush Mount Dishwasher."

GOALS AND OBJECTIVES

The goal of this Service Manual is to provide information that will enable the In-Home Service Professional to properly diagnose malfunctions and repair the "Jenn-Air Flush Mount Dishwasher."

The objectives of this Service Manual are to:

- Understand and follow proper safety precautions.
- Successfully troubleshoot and diagnose malfunctions.
- Successfully perform necessary repairs.
- Successfully return the dishwasher to its proper operational status.

WHIRLPOOL CORPORATION assumes no responsibility for any repairs made on our products by anyone other than authorized In-Home Service Professionals.

REPAIR INSTRUCTION

Dishwasher

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1 INTRODUCTION

1.1 Purpose of the document

The repair instructions:

- ▶ guide the **service technician** in troubleshooting and repairing domestic appliances
- ▶ assist the **technical storeman** in deciding which spare parts are probably required for the repair
- ▶ inform **trainers** and **technical personnel** about design, function, troubleshooting and repairs
- ▶ as supporting documentation support the training of the technical personnel


Apart from the repair instructions the service technician uses the following documents:

- ▶ Parts list
- ▶ Exploded drawing
- ▶ Circuit diagrams









The described troubleshooting and repair may be carried out a service technician only.

These repair instructions are assigned to specific appliances and are valid for those appliances only.

1.2 General symbols

Symbol	Meaning
	Special information

1.3 Safety-relevant symbols

Symbol	Meaning
	General warning information
	Danger of electric shock
	Risk of being cut
	Risk of crushing
	Hot surfaces
	Risk of explosion
	Strong magnetic field
	Non-ionising radiation

2 SAFETY

2.1 Qualifications of service technicians

The described activities may be carried out only by electrical engineers and electrical engineers for specific activities if they have been trained by BSH or an authorised establishment.

2.2 Identification of danger levels



Identification	Meaning
DANGER	Imminent danger which may result in death or serious injury if it is not avoided.
WARNING	Potentially imminent danger which may result in death or serious injury if it is not avoided.
CAUTION	Potentially imminent danger which may result in minor injury or damage to property if it is not avoided.

2.3 Identification of damage to property

Identification	Meaning
NOTE	Warning of potential damage to property



2.4 General safety instructions

- ▶ Read repair manual and follow the instructions included in it.
- ▶ Proceed systematically and follow the instructions for troubleshooting and repairs.
- ▶ When repairs are complete, check the effectiveness of the protective measures in accordance with VDE 0701 or the corresponding country-specific regulations and perform a function test.
If the test is not passed, clearly identify the appliance as not safe and inform the operator in writing.
The test for the effectiveness of the protective measures must be documented in a suitable manner. It is recommended to write down the measured values.
- ▶ Use only conductors which comply with the currently valid health and safety regulations at work.





DANGER
Exposed live parts
Danger to life caused by electric shock!

- ▶ Disconnect the appliance from the power supply.
- ▶ Do not touch housing, frame or components.
- ▶ Use residual-current-operated circuit-breaker if tests have to be conducted while the appliance is live.
- ▶ Ensure that the resistance of the protective conductor does not exceed the standardised values.





WARNING
Exposed conductive parts may be live if a fault has occurred.
Danger to life caused by electric shock!

- ▶ Disconnect the appliance from the power supply.
- ▶ Do not touch housing, frame or components.
- ▶ Use residual-current-operated circuit-breaker if tests have to be conducted while the appliance is live.
- ▶ Ensure that the resistance of the protective conductor does not exceed the standardised values.



CAUTION
Risk of being cut on sharp edges.

- ▶ Wear protective gloves.
- ▶ Wear personal protective equipment.



CAUTION
Charged capacitors
Risk of injury from electric shock and startle response.

- ▶ Discharge capacitors before working on the appliance.

NOTE

Components which come into contact with electrostatic voltage will be damaged beyond repair

- ▶ Before carrying out any work, apply protective system to components susceptible to electrical discharge.
- ▶ Observe measures to protect the components susceptible to electrical discharge.

NOTE

Components which are replaced haphazardly will be damaged beyond repair

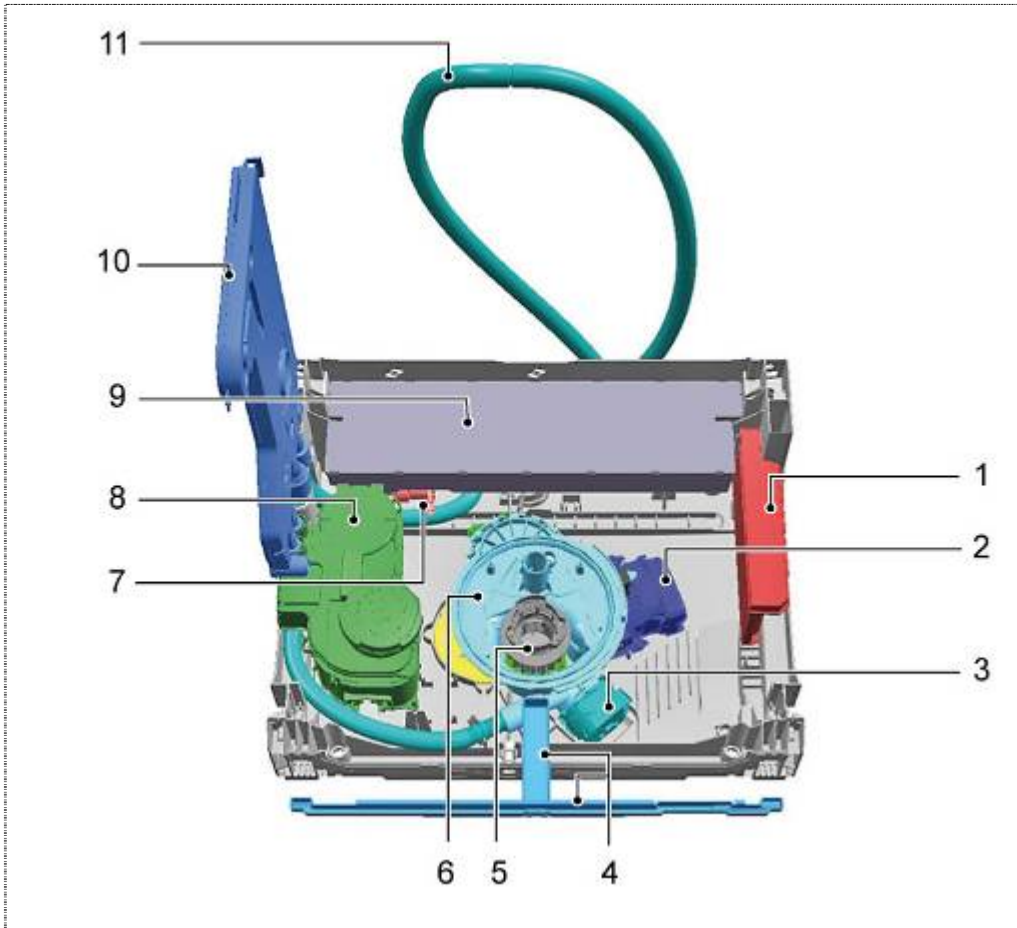
- ▶ Before replacing components, perform troubleshooting.
- ▶ Check systematically.
- ▶ Observe Technical Documentation.
- ▶ Do not replace components without reason.

3 CONSTRUCTION AND FUNCTION

3.1 Chapter describing design and function

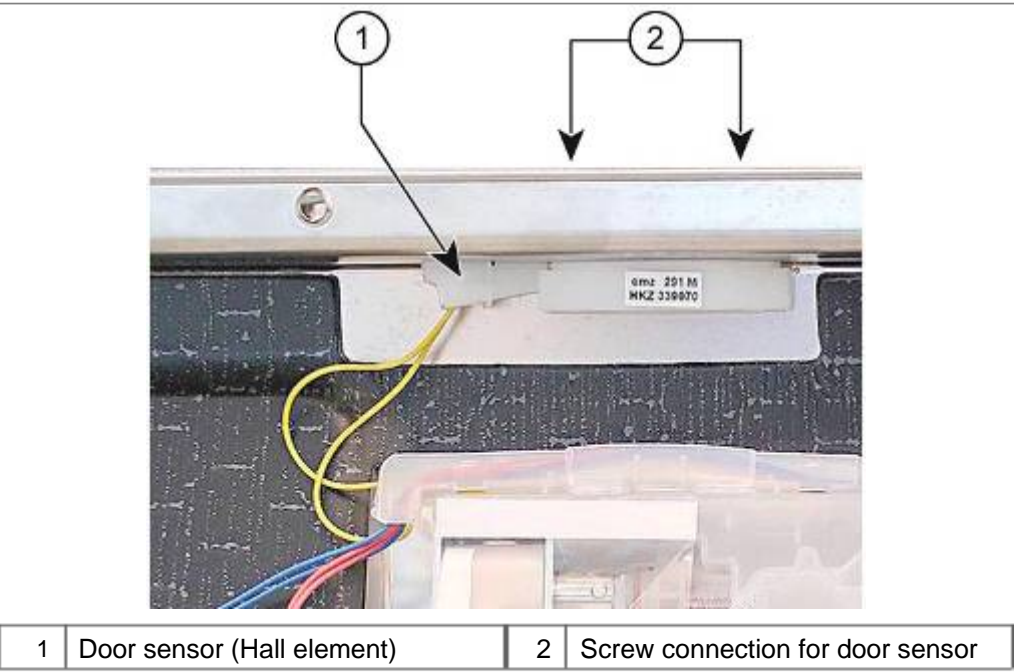
Overall view of the appliance with all components.

1	Power module	7	Inlet Valve
2	Heat pump	8	Water softener
3	Drain pump	9	Counter weight
4	Overflow conduit / gutter	10	Water inlet
5	Sealsystem	11	Outlet hose
6	Sump		



3.2 Door sensor

3.2.1 Position of the door sensor



The door sensor is situated in the centre at the top of the inner door.

3.2.2 Function of the door sensor

Hall sensors (also known as Hall probes, after Edwin Hall) use the Hall effect to measure magnetic fields.

A permanent magnet is inserted in the door lock. When the door is closed, the permanent magnet is positioned exactly over the Hall sensor.

When the door is opened or closed, the strength of the magnetic field changes on the Hall sensor.

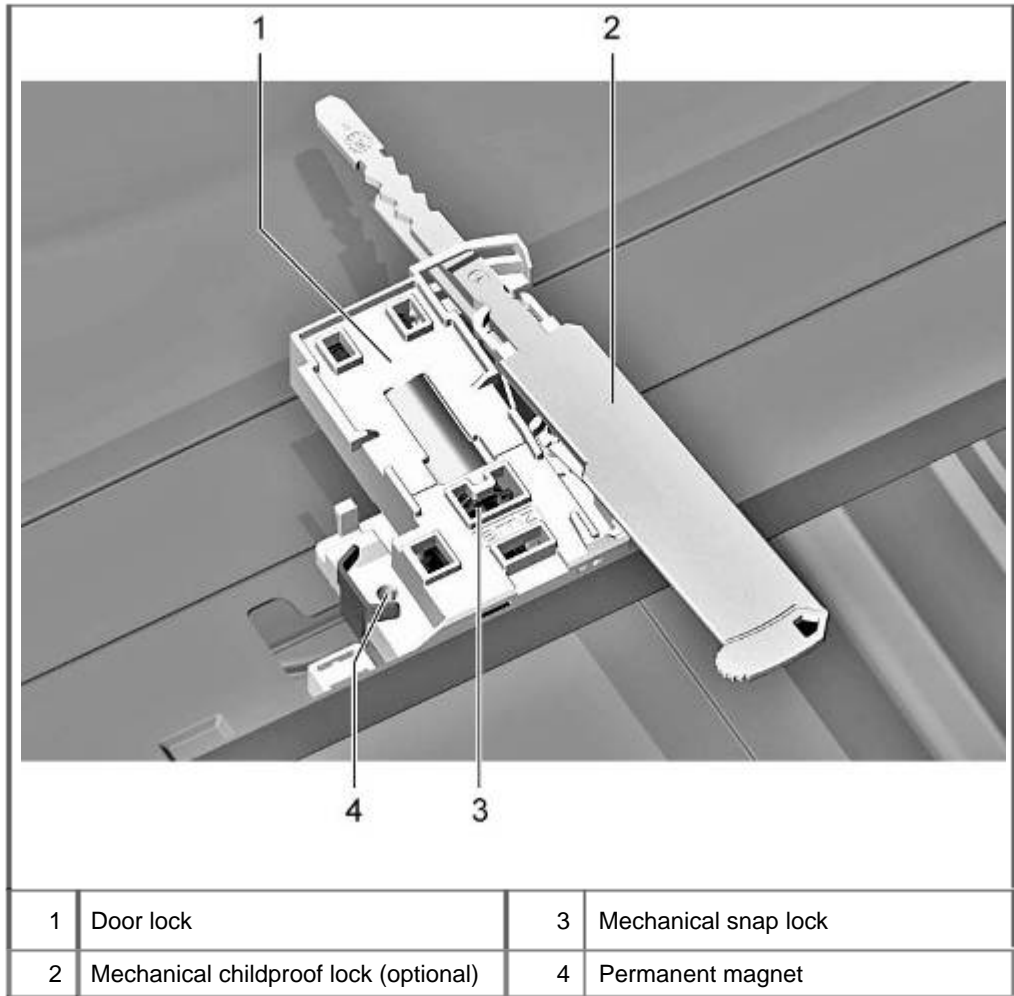
The Hall sensor modifies its power input. The electronics detect whether the door is open or closed.

If the power input is outside a defined range, this is detected by the electronics as a fault.

The Hall sensor responds to the direction of the magnetic field. An incorrectly fitted permanent magnet or incorrectly polarised signal lines may result in wrong information being sent to the electronics.

3.3 Door lock/Childproof lock

3.3.1 Overall view of the mechanical door lock



The door lock is mechanical. A snap lock in the container frame engages in a recess in the door frame.

3.3.2 Function of the mechanical childproof lock (optional)

The mechanical childproof lock prevents the door from opening.

Activation:

Pull lever outwards and push to the right.

Deactivation:

Push lever all the way in.

3.3.3 Electronic door lock (optional)

The appliance can be secured to prevent programmes from being ended unintentionally (e.g. faulty operation by children).



Activating button lock:

Start the required programme.

Hold down button **B** for approx. 4 sec. until **CL** is indicated on the digital display.

If any button is pressed while the programme is running, **CL** is displayed. The programme cannot be ended (reset).

Deactivating button lock:

Hold down button **B** for approx. 4 sec. until **CL** goes out.

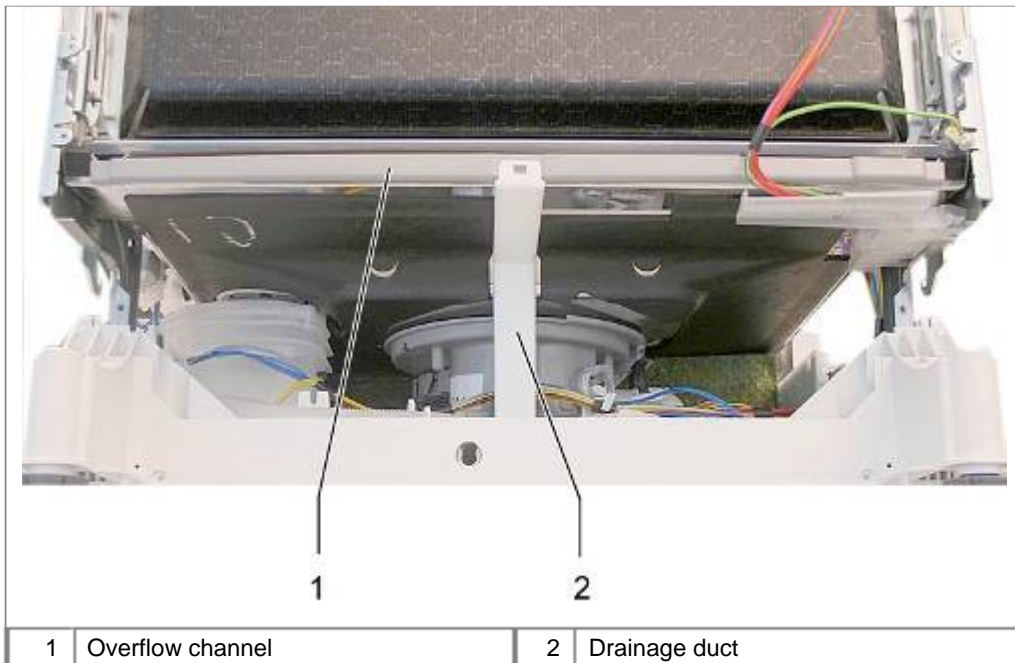
When the programme ends (on the digital display), the button lock is cancelled. If there is a power failure, the button lock is retained. Whenever a programme is started, the button lock must be re-activated

3.4 Safety system

3.4.1 Components in the safety system

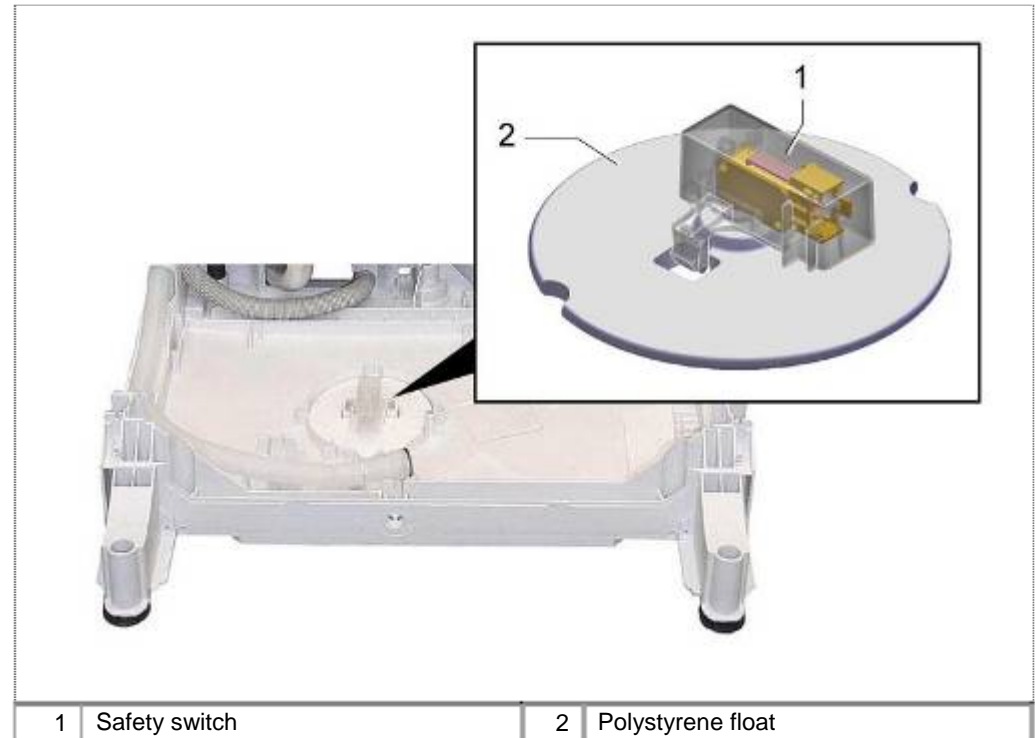
- ▶ AquaStop / water inlet valve
- ▶ Overflow channel and drainage duct
- ▶ Safety switch – base pan
- ▶ Intelligent electronics

3.4.2 Overflow channel and drainage duct



Leakage water is conveyed out of the container via the overflow channel, through the drainage duct and into the base pan.

3.4.3 Safety switch – base pan



The safety switch is mechanically connected to the polystyrene float.

3.5 Aquastop valve

3.5.1 Design

The Aquastop valve is an electromechanical safety valve. The coarse and fine filters are located on the screw connection for the tap. Under the filters is the flow limiter. It limits the water flow to 2.5 litres.

The Aquastop valve is enclosed by a housing. A leakage water hose (external hose → jacket around the supply hose) runs from the housing into the base pan.

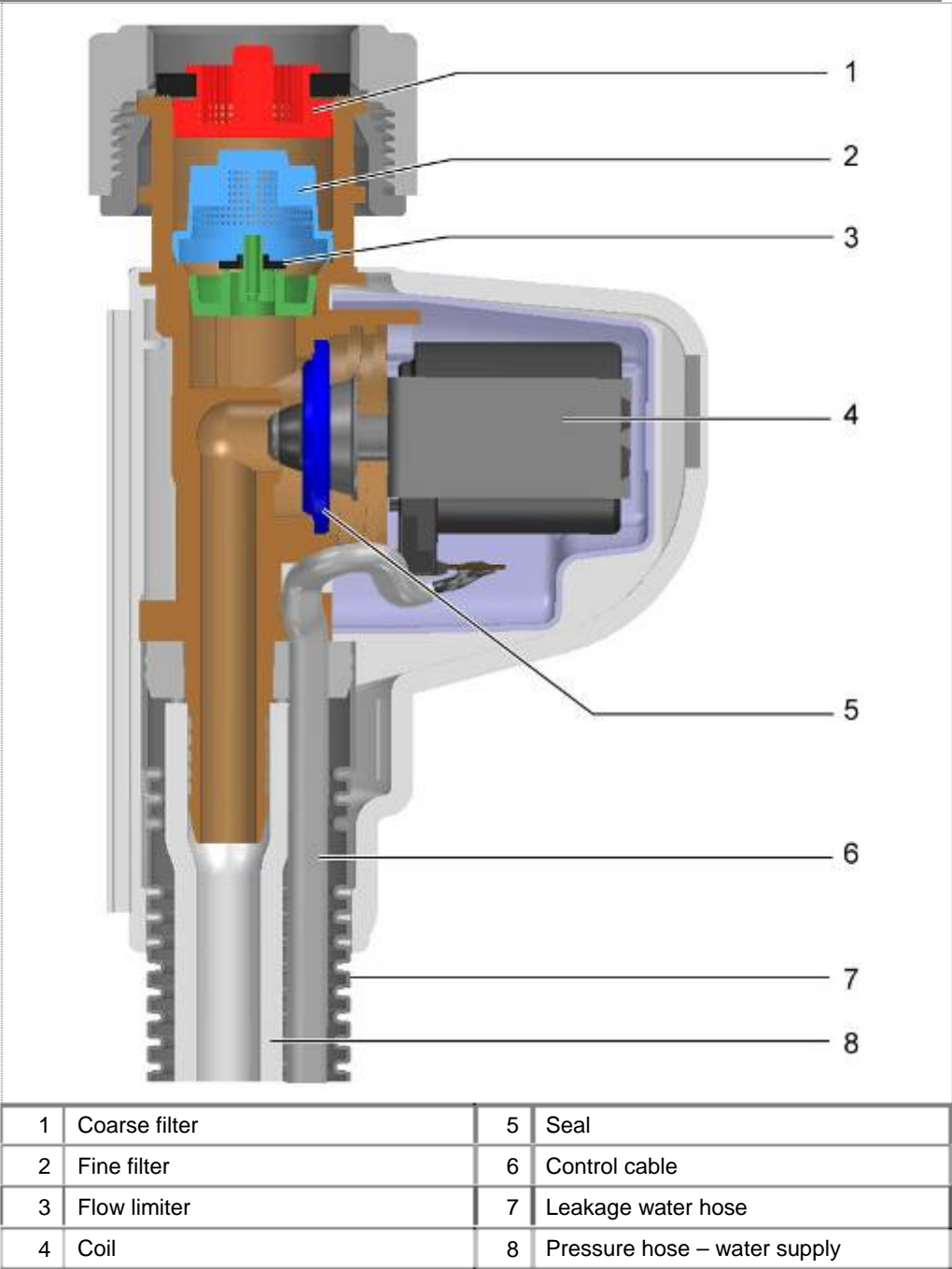
The leakage water hose contains the water supply hose and the electric control cable for the solenoid valve.

3.5.2 Function

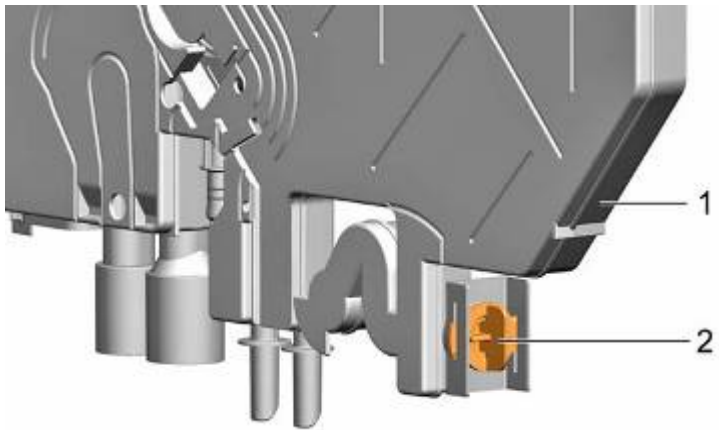
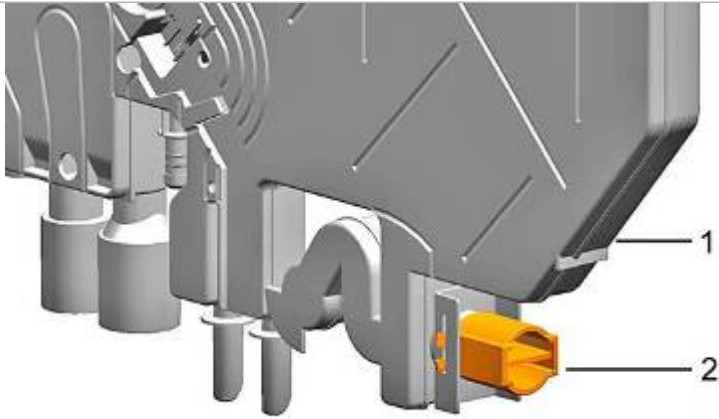
In the idle state the coil is de-energised and the seal interrupts the water flow by the effect of the spring which presses on the armature. If the Aquastop valve is connected to the water mains, the water pressure also acts from behind on the seal and supports the sealing.

If leaks occur in the area of the valve or supply hose, these are conveyed into the base pan via the leakage water hose.

A polystyrene float activates the electronic safety system via a micro-switch. The coil of the AquaStop valve is deactivated by the electronics and interrupts the flow of water into the appliance.



Devices with "heat exchanger Light" have no drainage valve. A sealing plug allows the water to flow directly into the water softener.



1	Heat exchangerr	2	Closing plug
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3.7 Water inlet

When a rinse programme starts, the water inlet valve is actuated for 5 seconds. Water is expected to run in. Simultaneously pulses are expected from the impeller wheel counter on the electronics. If these remain off, an error code is displayed and the programme is not started.

If pulses are received, the programme is started.

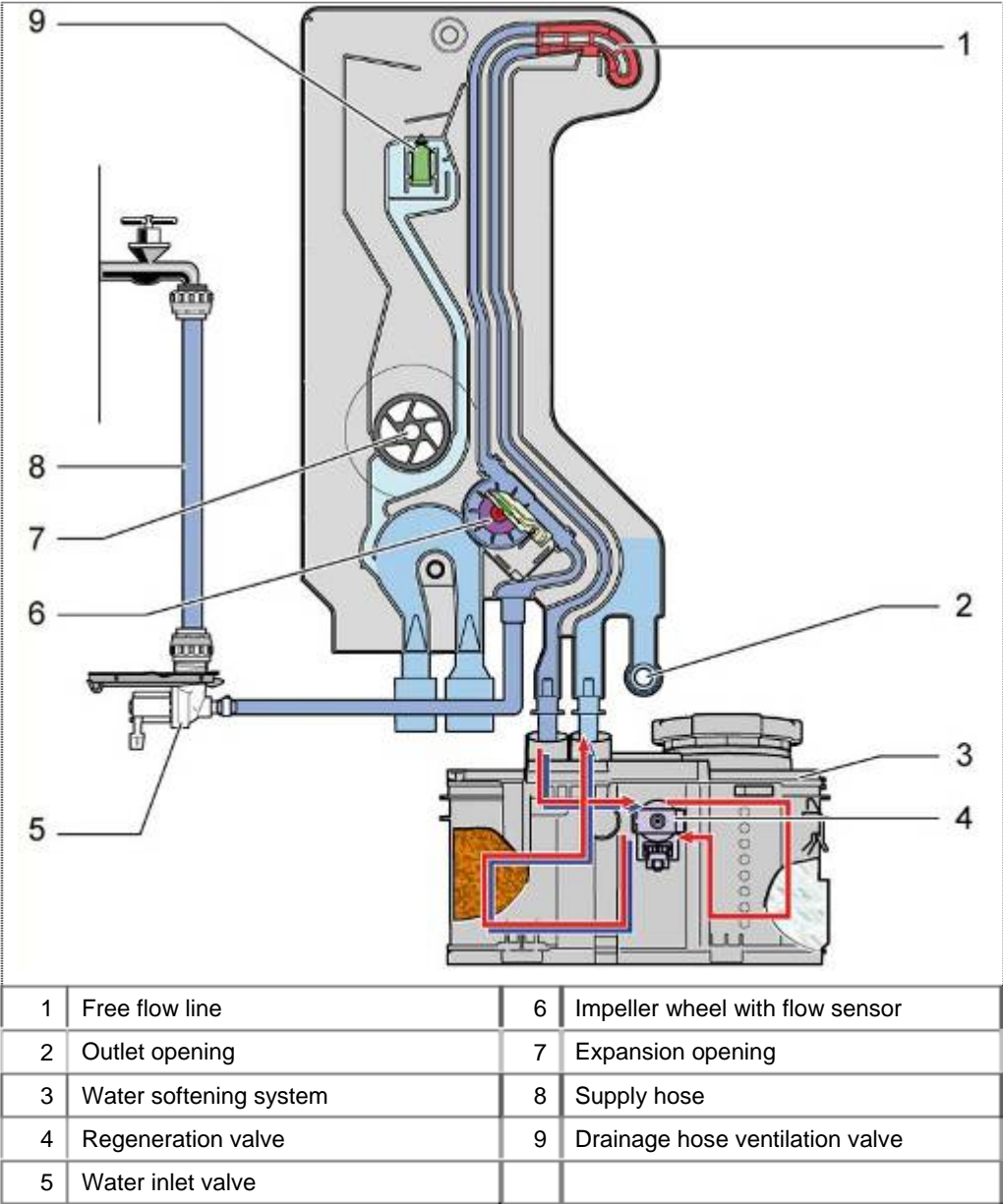
When the programme starts, the electronic control opens the Aqua-stop/water inlet valve (filling valve).

Water flows into the water inlet via the supply hose. The flow sensor and the free flow line are located in the supply channel of the water inlet.

The water flows either into the granulate container (soften) or into the salt container (regenerate) via the regeneration valve in the water softening system.

The outlet opening of the water softening system conveys the water back to the water inlet.

The water flows directly into the rinsing tank via the outlet opening.



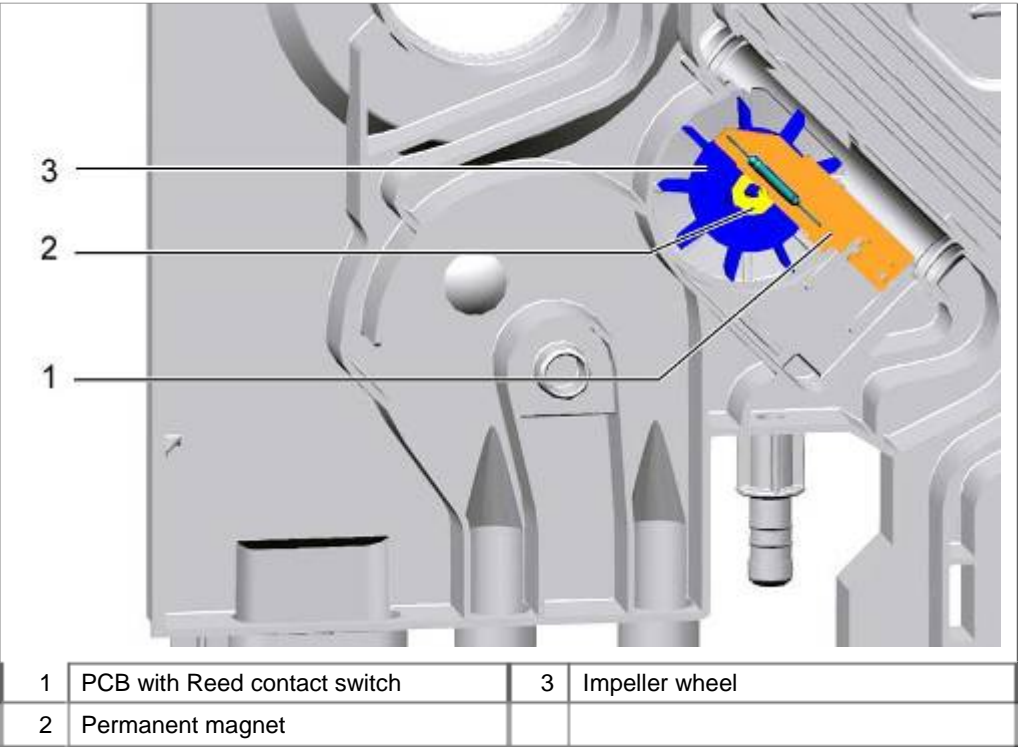
3.8 Flow sensor

3.8.1 Function

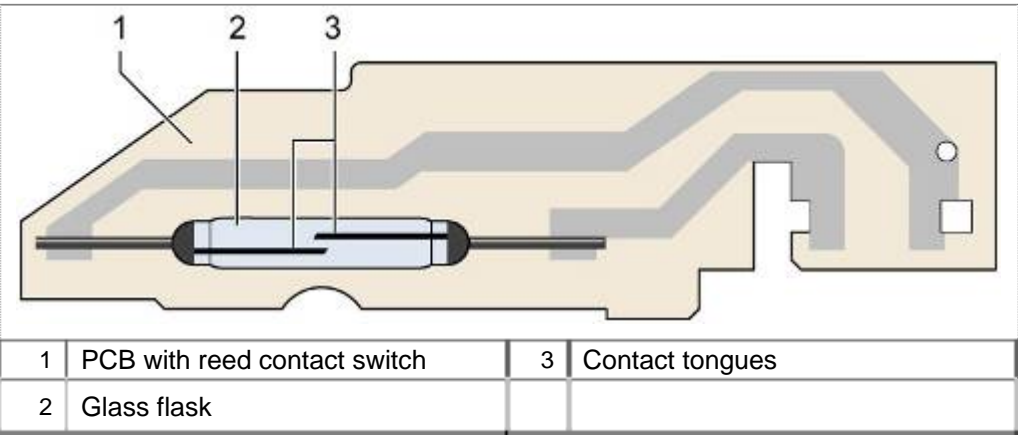
The flow sensor is attached in the water channel of the heat exchanger (impeller wheel counter). The impeller wheel rotates as water flows through the channel.

A small permanent magnet attached to the impeller wheel switches both contacts of a magnetic switch (Reed switch). As a result, electrical pulses are generated.

These pulses are counted by the electronics. The electronics use these pulses to calculate the amount of water which flows into the appliance.



3.8.2 Design of mechanical reed contact



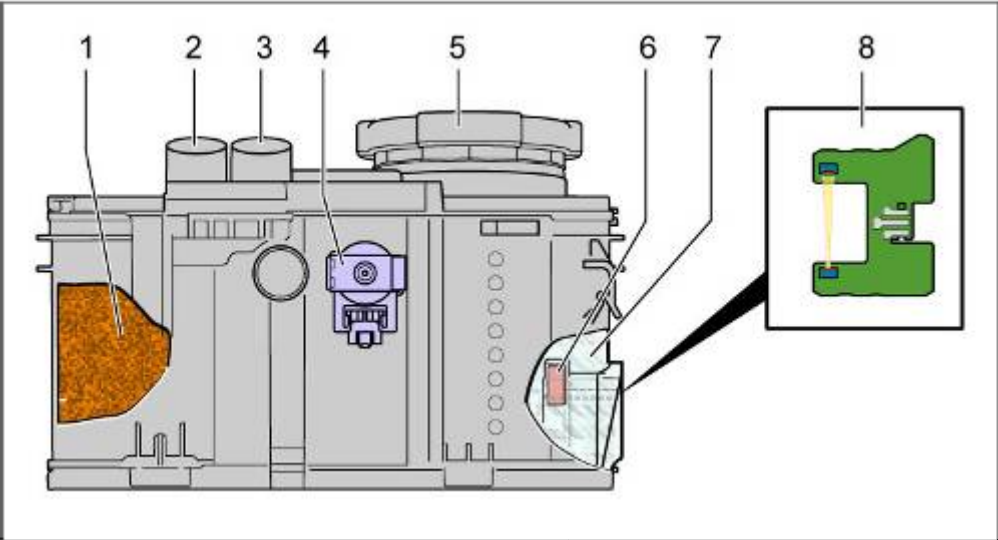
Reed contact switches switch or interrupt circuits. They are contact tongues fused in a glass flask in a vacuum or an inert gas and which simultaneously form the contact spring and the armature.

The name derives from the reed of woodwind instruments as it resembles the oscillating contact tongues. The contact tongues are manufactured from a ferromagnetic material (e.g. soft iron) coated with a noble metal. The contacts are actuated by an externally acting magnetic field which is generated electrically by an approaching permanent magnet or in an appropriate magnetic coil. The magnetic field activates the two contact tongues which then close the circuit. As soon as the magnetic field declines or a certain force drops below a minimum value, the spring effect opens the contact again.

Reed contact switches are very sensitive to mechanical effects such as distortion.

3.11 Water softening system

The water softening system (ion exchanger) is a container which is filled with fine-grained synthetic resin granules. This synthetic resin replaces calcium and magnesium ions in the water with sodium ions which are on its surface.

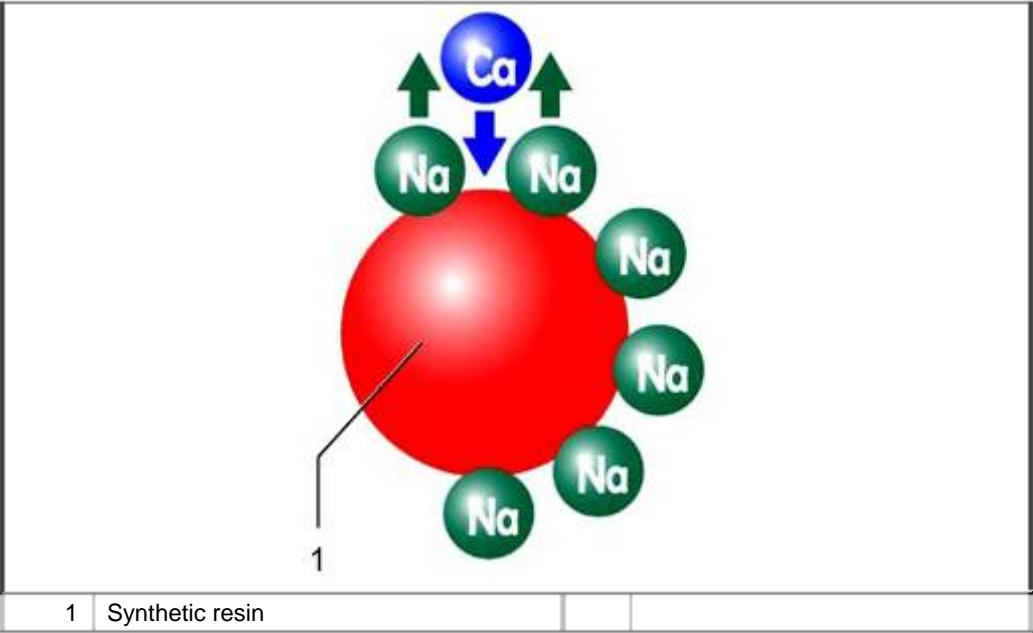


1	Ion exchanger	5	Salt dispenser cover
2	Water inlet	6	Float element (optionally)
3	Water outlet	7	Salt dispenser
4	Regeneration valve	8	Low salt sensor

Technical specifications:

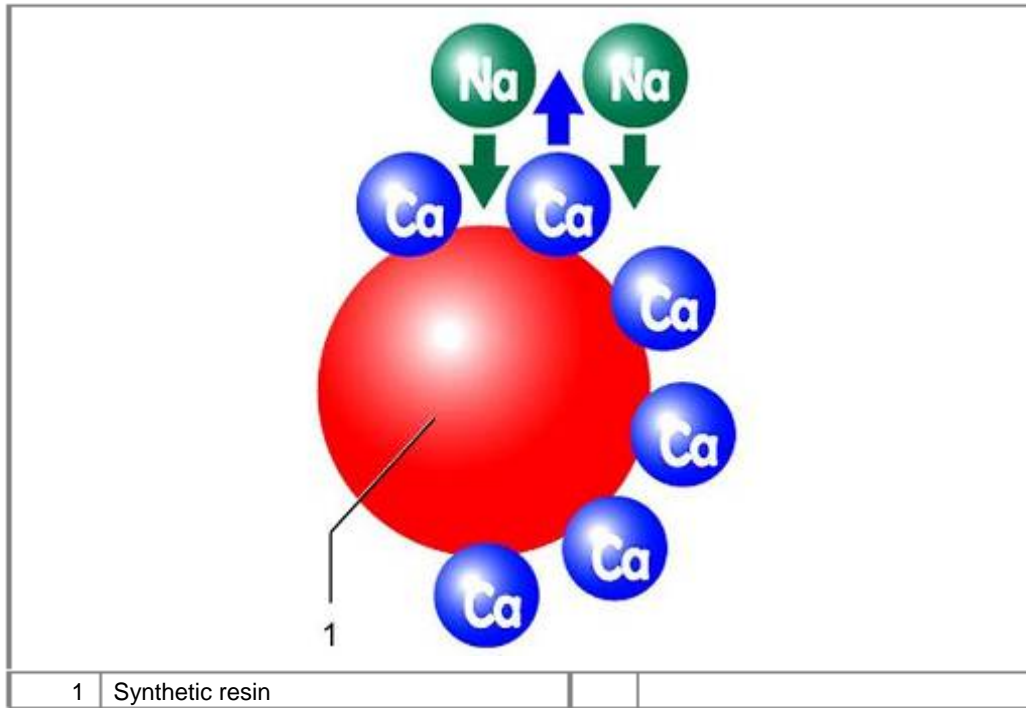
Capacity:		
Fine-grained salt	ca. 1.3	kg
Coarse-grained salt	ca. 0.9	

3.11.1 Water softening



The untreated water with its hardness constituents is conveyed via the synthetic resin. Calcium and magnesium are bonded to the surface of the exchange compound while sodium ions are released into the water. When all sodium ions have been replaced with ions of the hardness constituents, the capacity of the water softening system is exhausted and must be regenerated.

3.11.2 Regeneration



To make the ion exchanger functional again, a concentrated salt solution (sodium chloride) is conveyed from the salt dispenser by the water softener. Due to the large surplus the sodium ions from the salt solution displace the calcium and magnesium ions and attach themselves to the exchange compound. The ion exchanger is now “loaded” (regenerated) again and ready for use.

3.11.3 Regeneration cycle

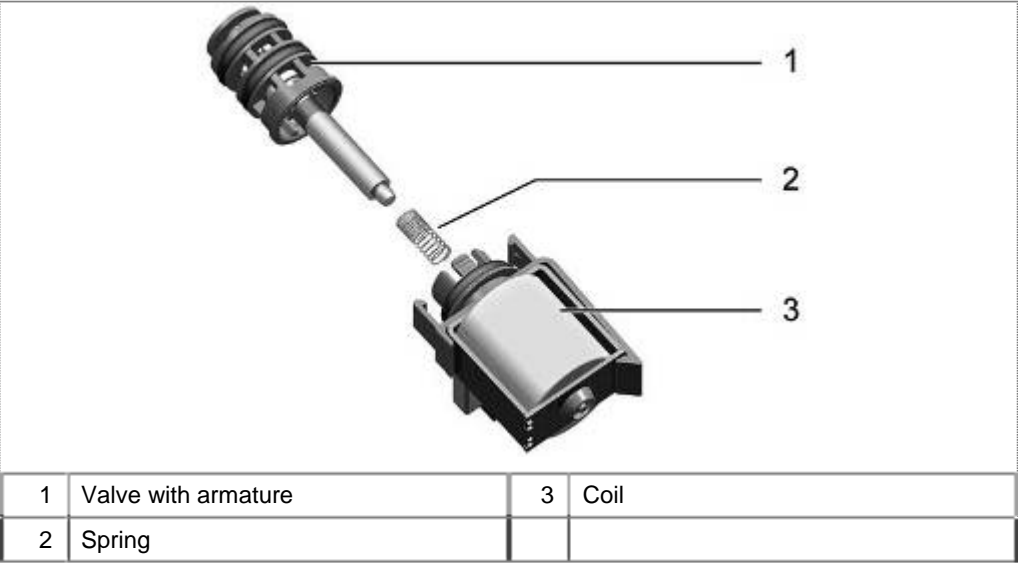
In dependence of the adjusted water hardness and the recognized quantity of water the regeneration cycle is steered by electronics.

3.12 Regeneration valve

A 2-way valve (regeneration valve) is installed in the water softening system. This valve controls the water flow:

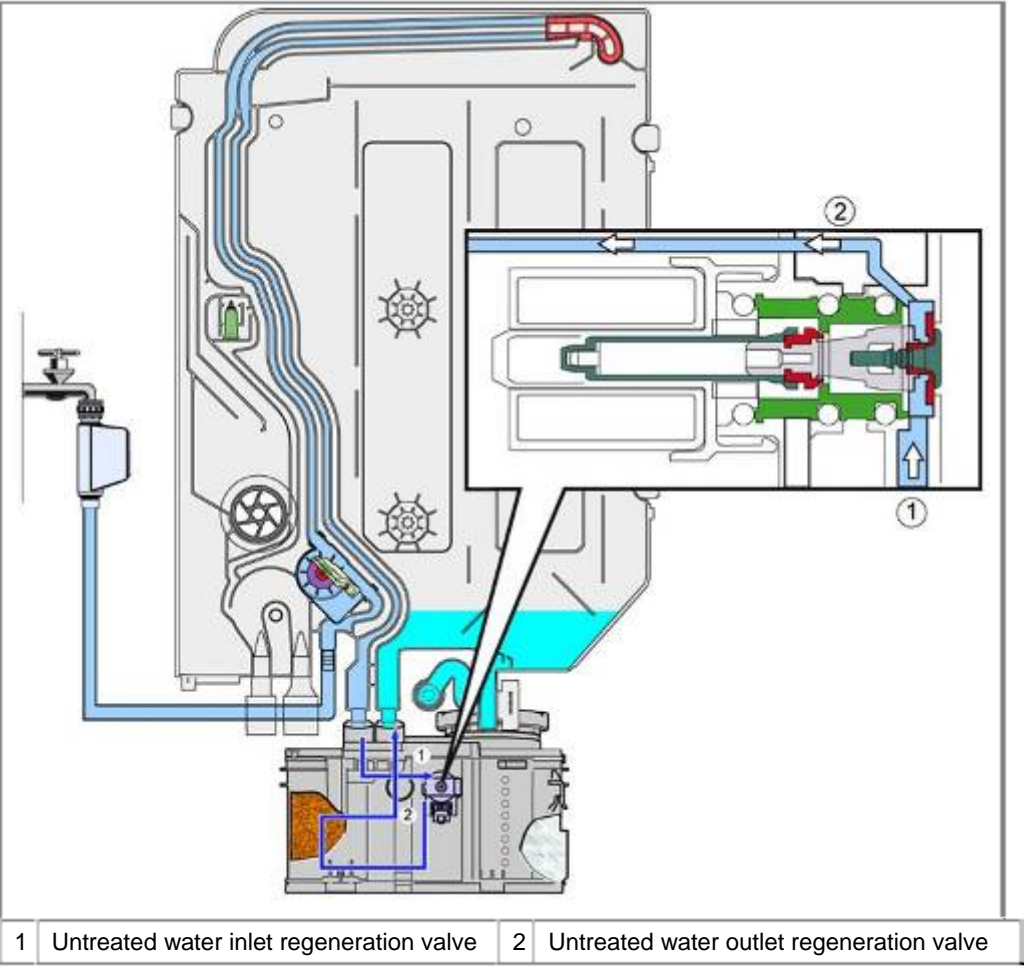
- ▶ Direct path into the ion exchanger
- ▶ Regenerate via the salt dispenser

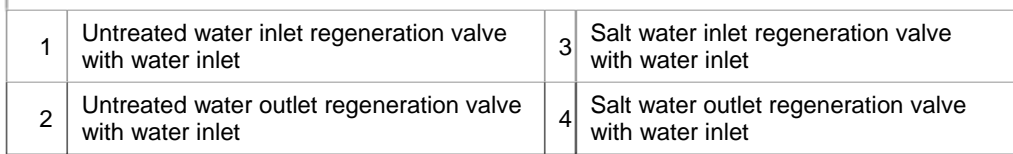
3.12.1 Design



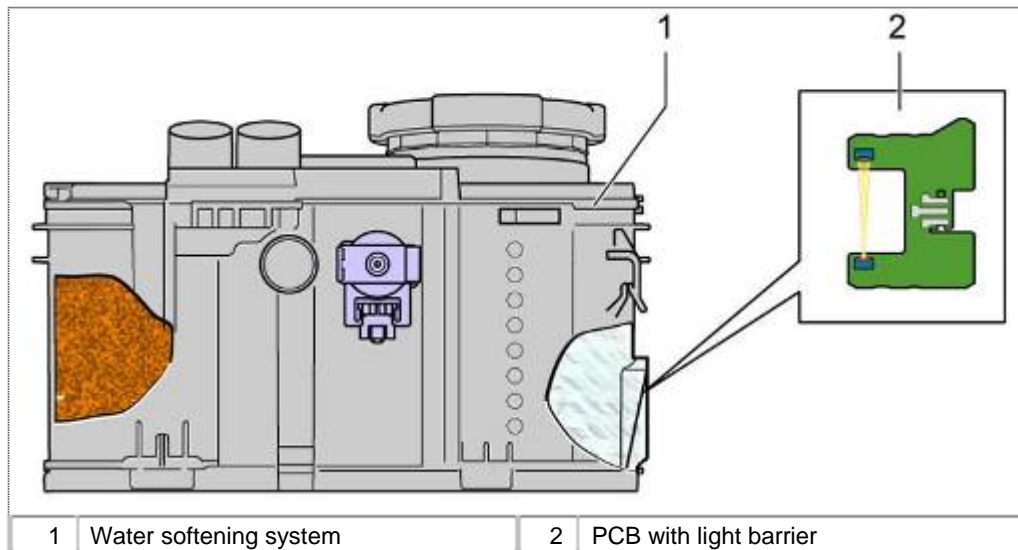
3.12.2 Water passages in the water softening system

When the regeneration valve is in the idle state, the water is conveyed directly into the ion exchanger and softened.

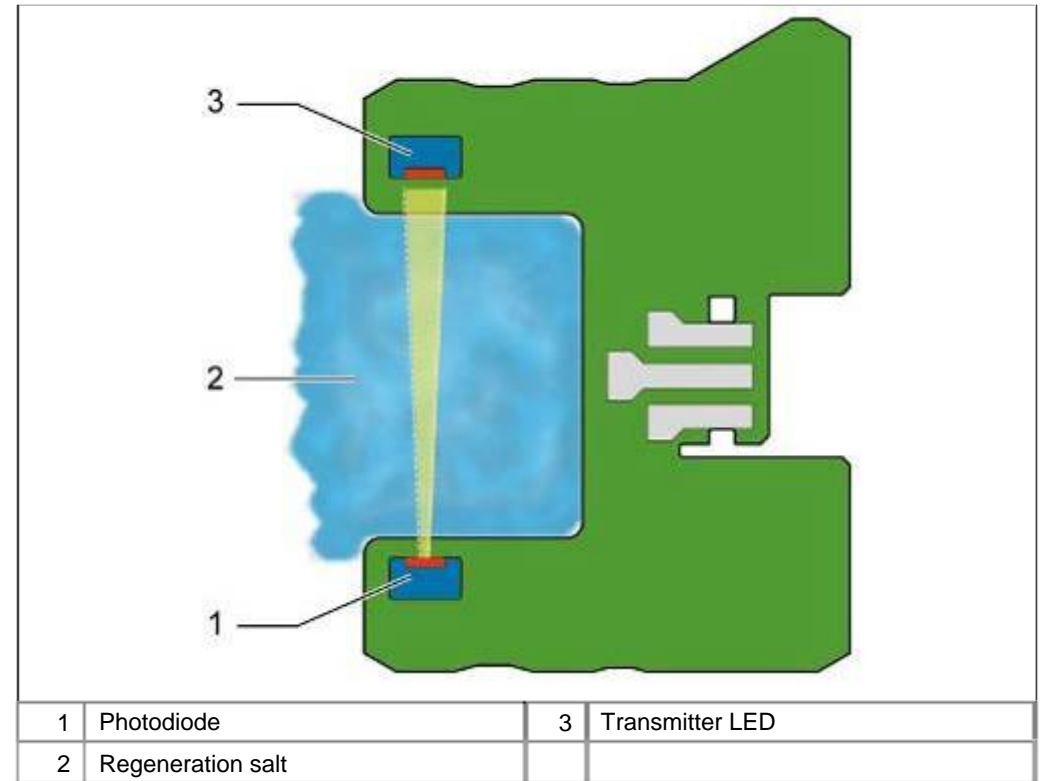




3.13 Low salt detection



The PCB for the low salt indicator is attached with clips to the right side of the water softening system (front side of appliance).



The salt level is detected via a light barrier. If the regeneration salt runs low, the line in the light barrier is freed and the electronics detect "Add salt".

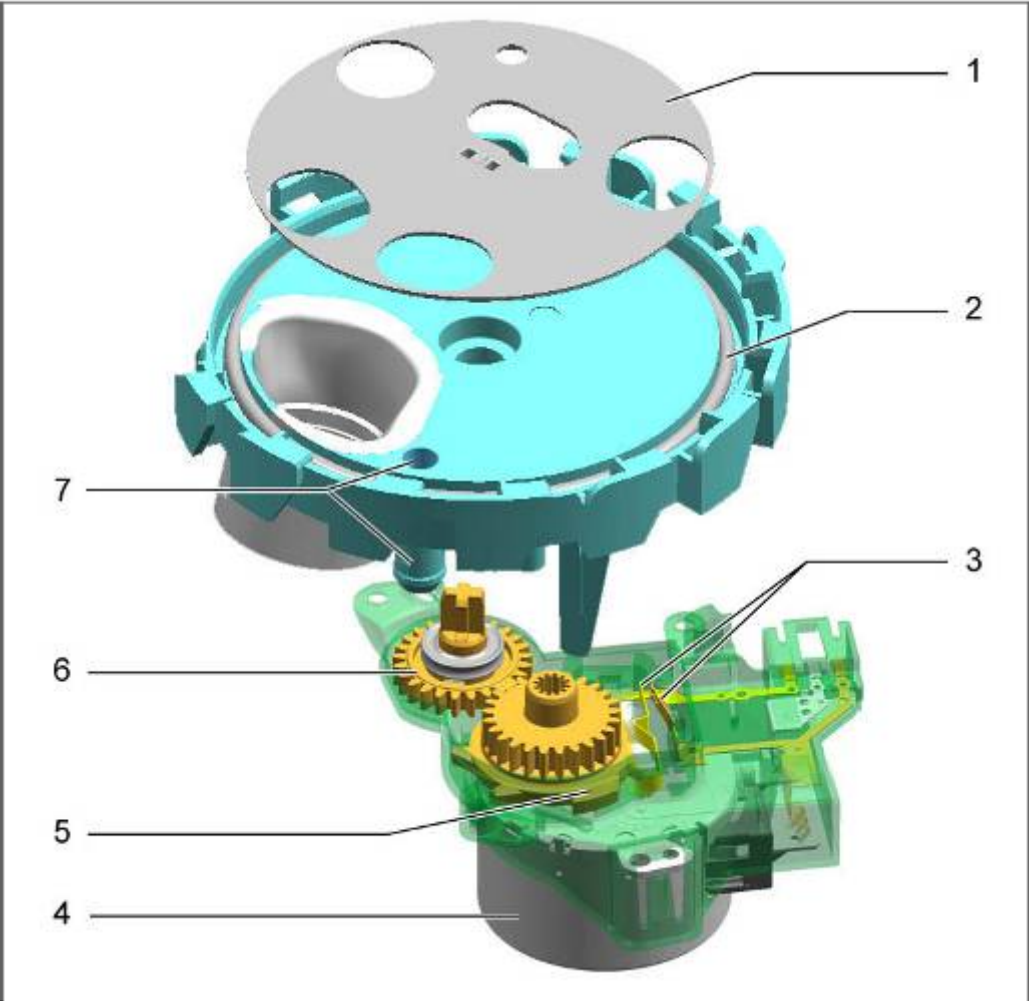
If the low salt indicator appears, there is still so much salt in the appliance that some more regeneration processes may occur.

According to this principle it is not necessary to fill the salt dispenser with water when switching on the appliance for the first time.

Filling with salt tablets is system-dependently not recognized.

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3.16 Water switch

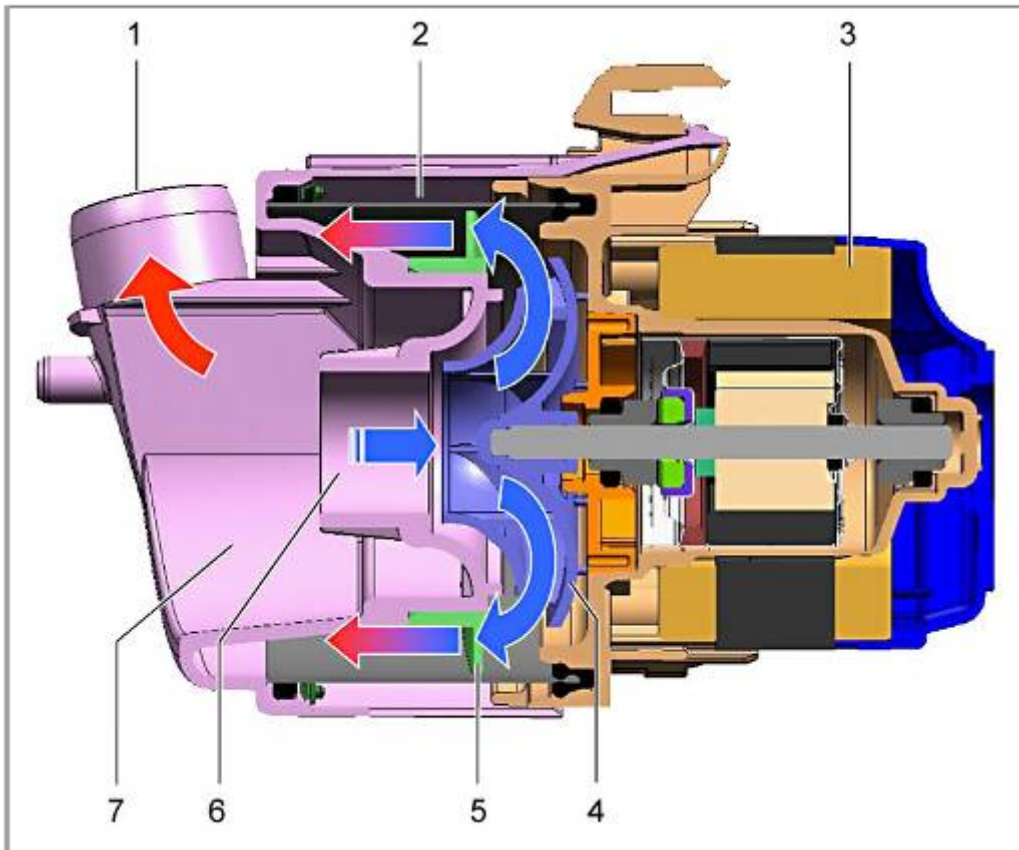


1	Locking disc	5	Cog with cam plate
2	Seal	6	Cog
3	Pulse generator (switch)	7	Connection water storage tank (optional)
4	Drive motor		

The water switch controls the water passage of the 3 spray levels and the filling of the optional water storage tank.

It consists of a drive motor with cam plate, pulse generator and the locking disc. When the appliance is switched on, the motor is actuated via a triac. The cam plate is attached to the motor axle. The cam plate actuates a switch (pulse generator) which transmits pulses of different length and intervals to the electronics. If the electronics detect the standard setting, the water switch is initialised.

The locking disc is rotated depending on the actuation. In doing so, holes of varying size release the water passage on the particular spray level or the connection of the hose to the optional water storage tank. The arrangement of the openings in the locking plate allows several levels to be actuated simultaneously or alternately.



1	Pressure connection	5	Guide wheel
2	Heating tube with NTCs	6	Intake connection
3	BLDC motor	7	Pump housing with intake and pressure connections
4	Pump wheel		

3.17.3 Function of the circulation pump

The water is drawn in via the intake connection. The guide wheel guides the water evenly along the heating tube. The water is pumped to the water points via the pressure connection.

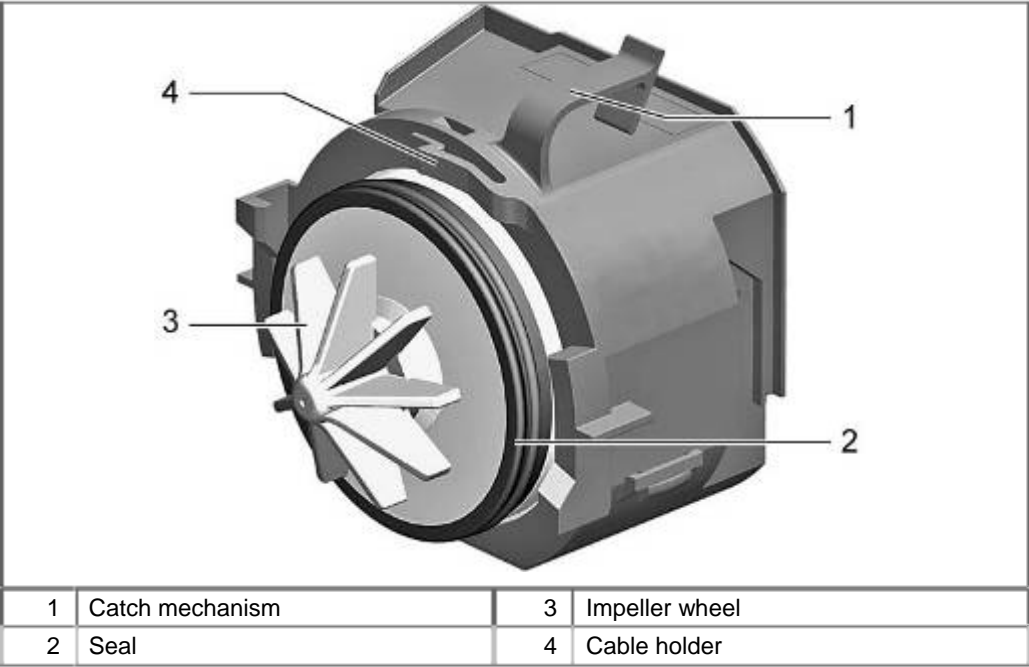
While water is being circulated, the BLDC motor (Brushless DC Motor) signals different states to the power electronics via the current consumption of the individual windings:

- ▶ No water,
- ▶ too little water, snorkels
- ▶ adequate water level, (true running)
- ▶ pump blockage.

Safety-relevant states, such as “Heating without water” or “Water temperature too high”, are detected and evaluated for the heating operation.

If the pump is blocked, this is detected by the electronics. By several approach attempts, the pump try to loosen the blockage. If this is not successful, the running programme ends. A corresponding error code is saved in the error memory.

3.18 Drain pump



The water is drawn in via the water outlet opening of the pump sump. The impeller wheel pumps the water through the non-return valve into the drainage hose.

While water is being pumped out, the BLDC motor (Brushless DC Motor) signals different states to the power electronics via the current consumption of the individual windings:

- ▶ No water, (idling)
- ▶ No pressure build-up (missing service flap)
- ▶ Pump blockage
- ▶ Blocked or kinked drainage

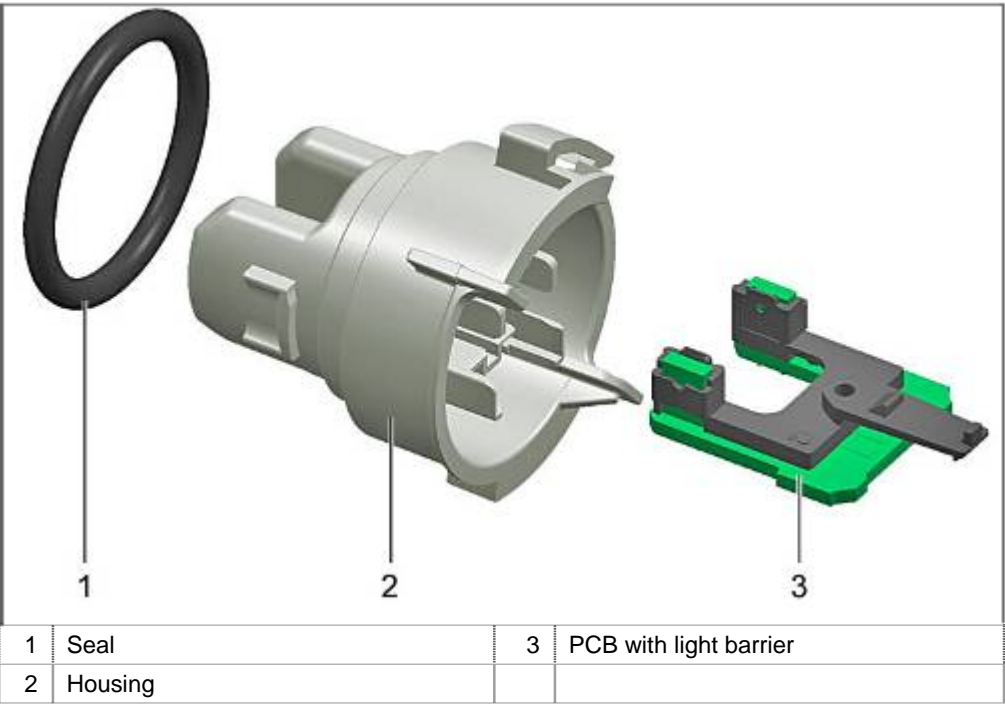
If there is too little water in the pump area, pumping is stopped.
If there is no cap in the pump sump, water pressure cannot build up. An error code is saved in the electronics.

If the pump is blocked, this is detected by the electronics. By brief intermittent pumping, the pump attempts to loosen the blockage.

If drainage is disrupted by a blockage or a kink in the drainage hose, pumping is stopped. An error code is saved in the electronics.

Detection occurs via the current input of the pump during idling and the different load states.

3.19 Aqua sensor (optional)



A infrared diode and a phototransistor are located opposite each other in a U-shaped translucent housing on a board.

The infrared diode transmits infrared light through the detergent solution flowing between the U-shaped housing. Depending on the turbidity, the light-sensitive base of the phototransistor becomes conductive.

The measurement is analysed in turbidity ranges. The values are saved in the electronics. The Aqua sensor is active in the prerinse, the wash and at the end of the wash. The result of the Aqua sensor analysis influences the sequence of the rinse programmes.

A wide range of programme structures is possible in the automatic programme.

In each programme sequence in which the Aqua sensor is active the Aqua sensor is calibrated.

If calibration is defective, an error is written into the error memory of the power electronics. The measured value is set to “turbid” and a maximum programme sequence occurs



No Aqua sensor installed

- There are appliances which are supplied without Aqua sensors. Nevertheless, the electronics check the Aqua sensor and save an error message.

3.20 Spray system

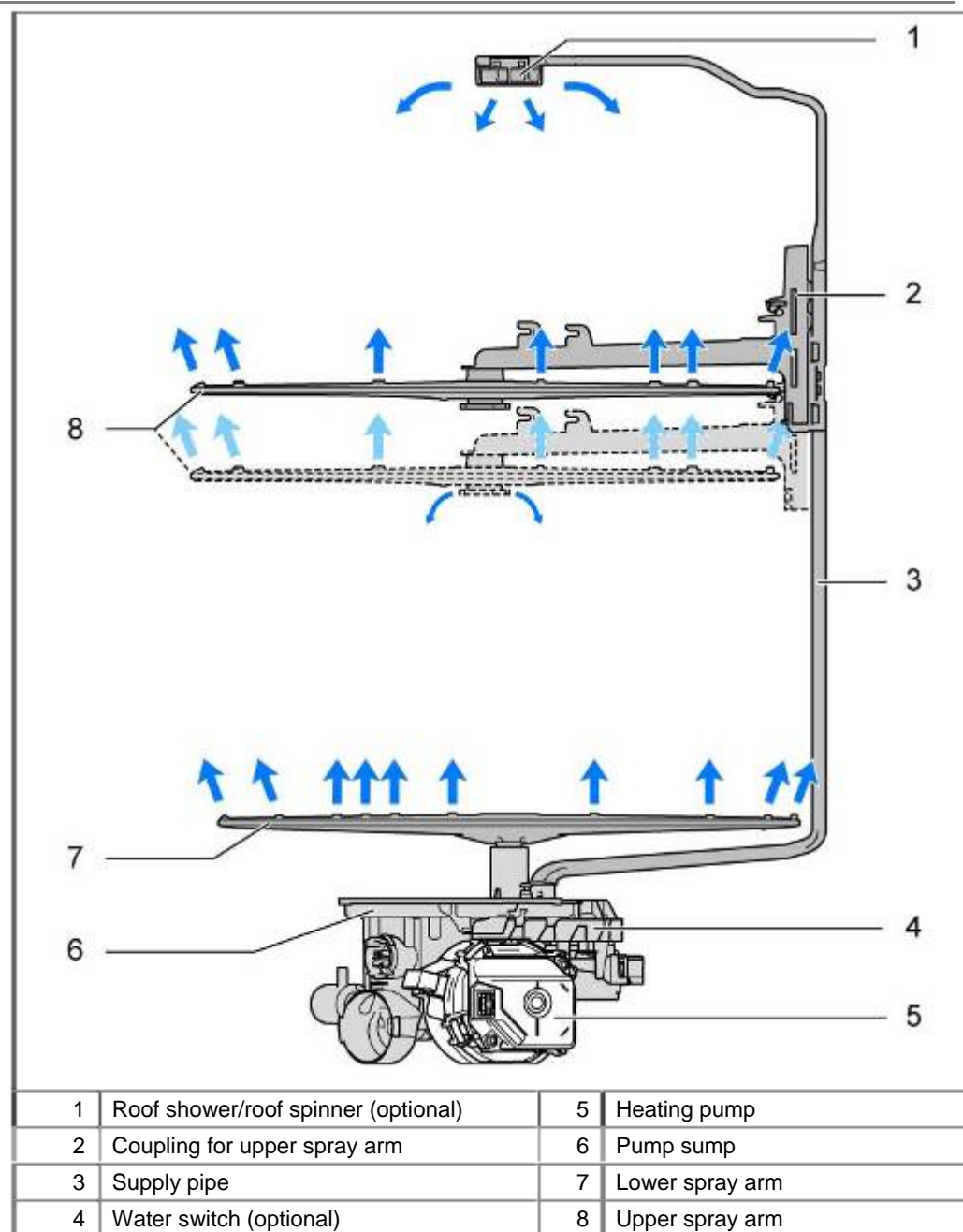
The spray system consists of 3 spraying levels: the lower and upper spray arms and an optional roof shower head. Water is supplied to the upper spray arm and the roof shower head via the supply pipe attached to the inside of the tank rear panel. This pipe is connected to the pump sump by a direct plug-and-socket connection.

The supply pipe has 2 separate water channels. As a result, the upper spray arm and the optional roof shower head can be actuated separately.

The upper spray arm is attached by its inlet pipe directly to the top basket. The supply pipe is connected by a coupling. Optionally, the height can be adjusted by max. 3 levels (Rackmatik).

The lower spray arm is connected by its bearings directly to the pump sump. It has a nozzle on the underside to clean the surface filter and to rinse dirt into the filter system.

Appliances without a water switch do not have the roof shower head. Both spray arms can only be operated simultaneously.

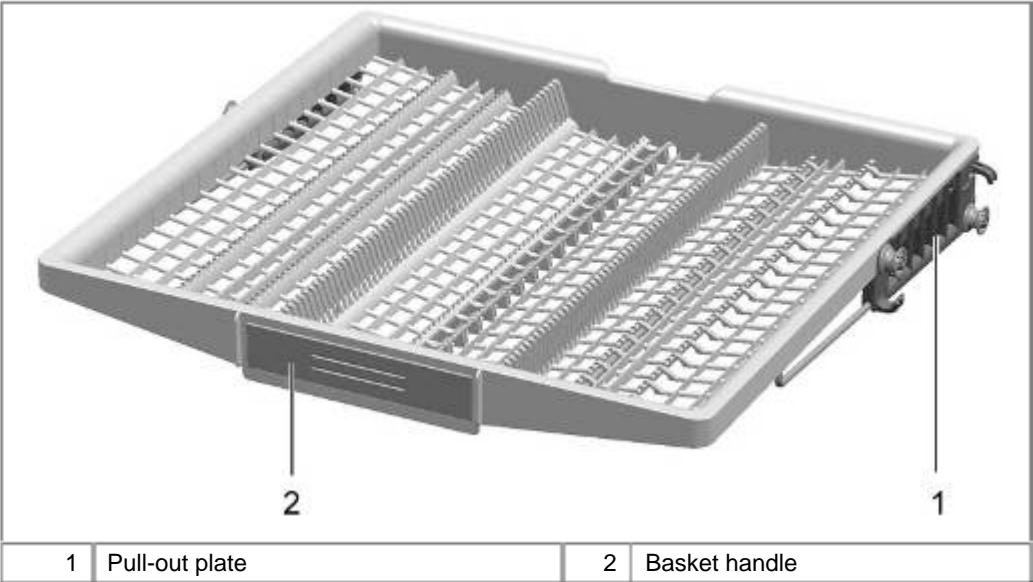


3.21 Basket system

The basket system consists of 2–3 levels. The baskets differ in features and colour depending on appliance class. The table indicates the differences in features (date 07.2008).

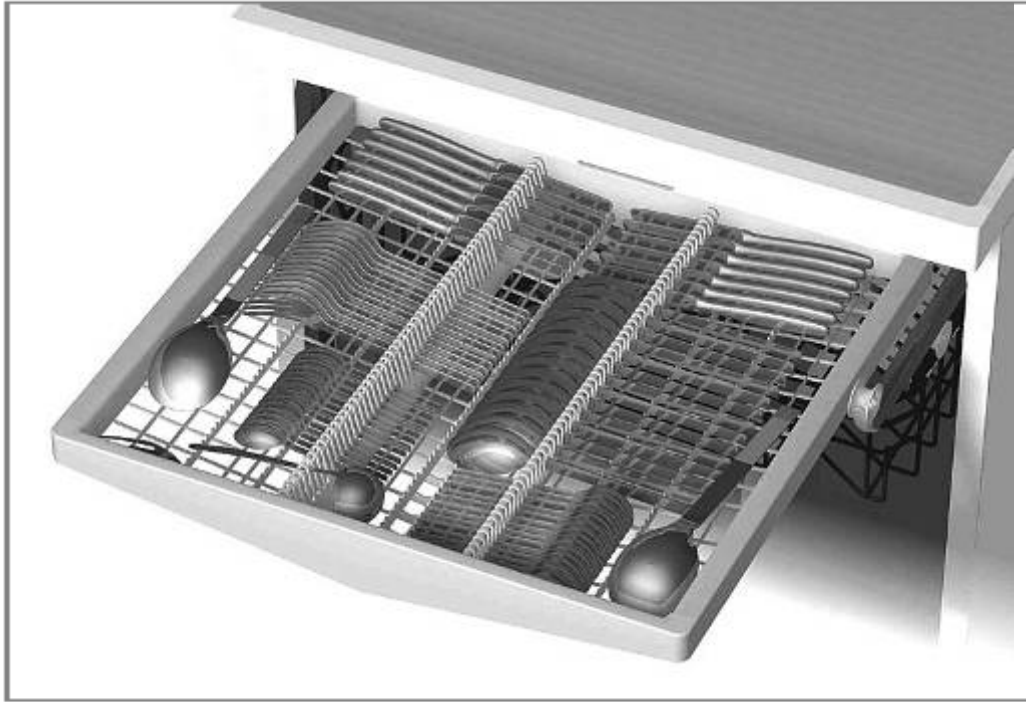
	Vario	VarioFlex	VarioFlexPlus
Top basket			
Ball ends	–	–	■
Split additional cup racks, hinged	■	■	■
Folding spikes	optional	■	■
Optimised glass holder	–	–	■
Height-adjustable basket (3x Rackmatic)	optional	■	■
Basket handle	–	■	■
Dosing assistant	■	■	■
Bottom basket			
Ball ends	–	–	■
Split additional cup racks, hinged	optional	■	■
Holder for long-stemmed glasses	–	–	■
High basket back	–	–	■
Basket handle	–	■	■

3.21.1 Cutlery drawer - option



The cutlery drawer is attached at the very top of the rinsing tank. It is used as a holder for cutlery, other cooking accessories and also espresso cups. The utensils are washed primarily by the roof sprinkler. See Spray system.

Loading example:

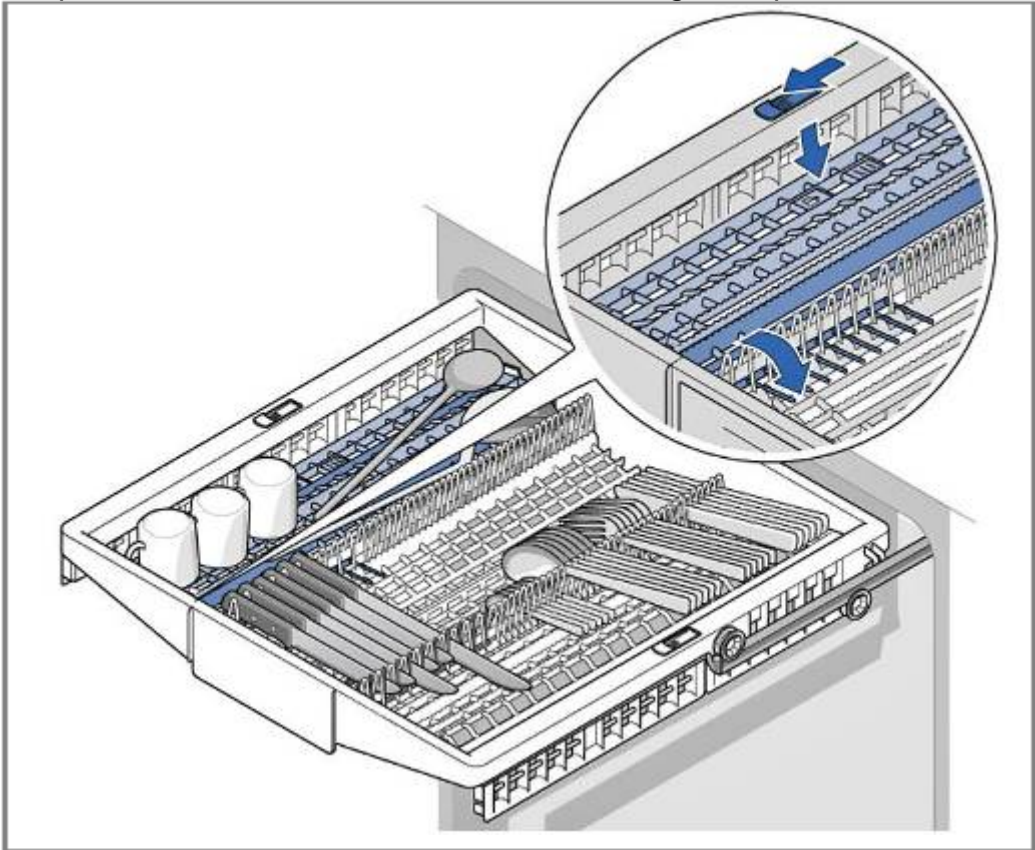


3.21.2 VarioDrawer Plus – optionally from 10/2011

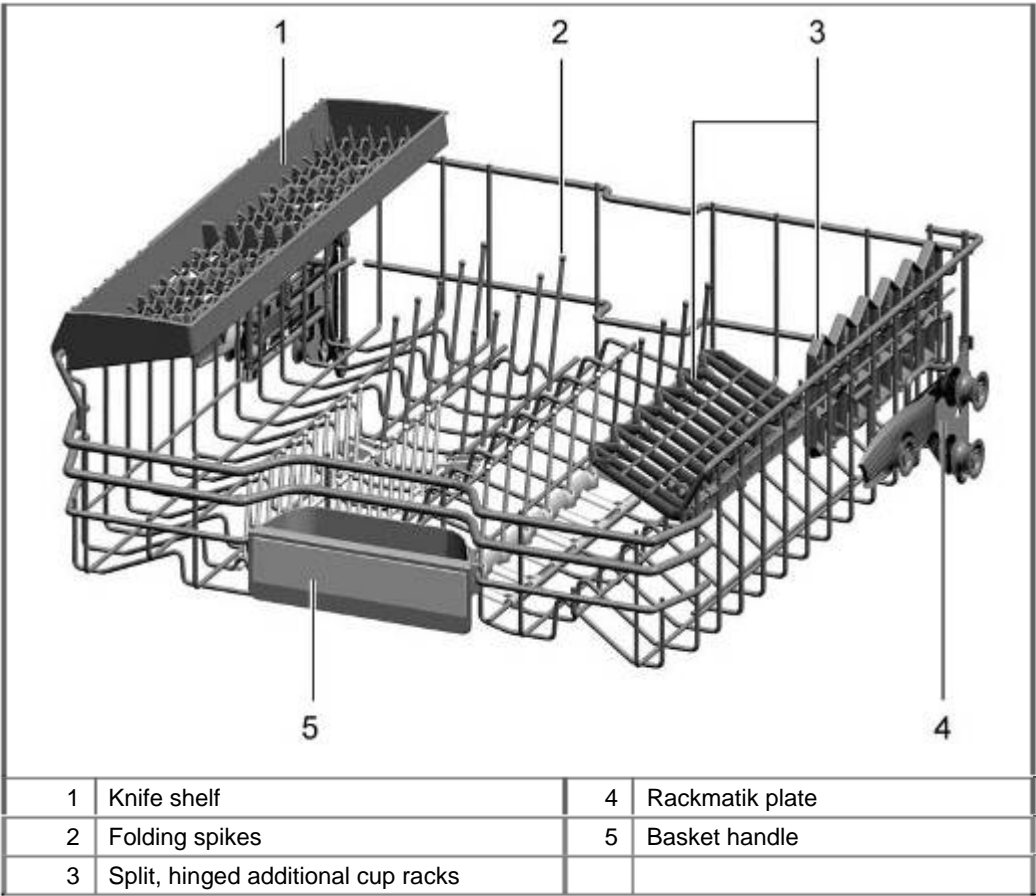


Starting from 10/2011 a VarioDrawer comes to the employment. This contains 2 rows flip tiens and lowerable files in the external areas, separately for right and left.

Representation of mobile elements and loading example:

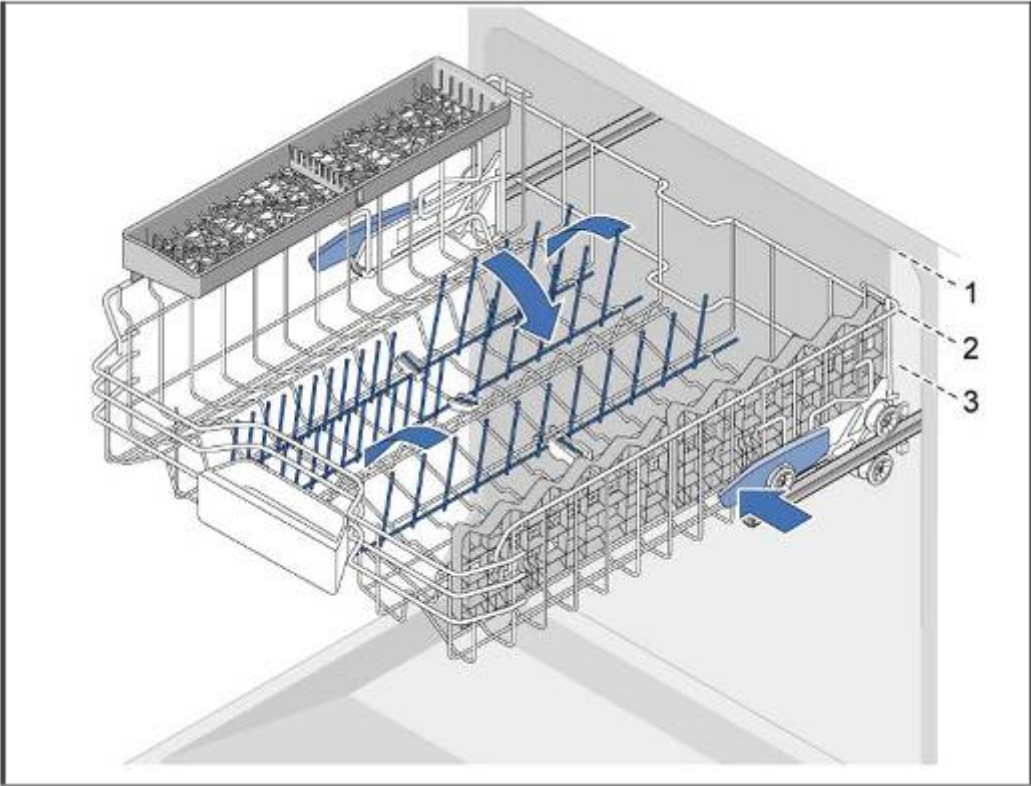


3.21.3 Top basket

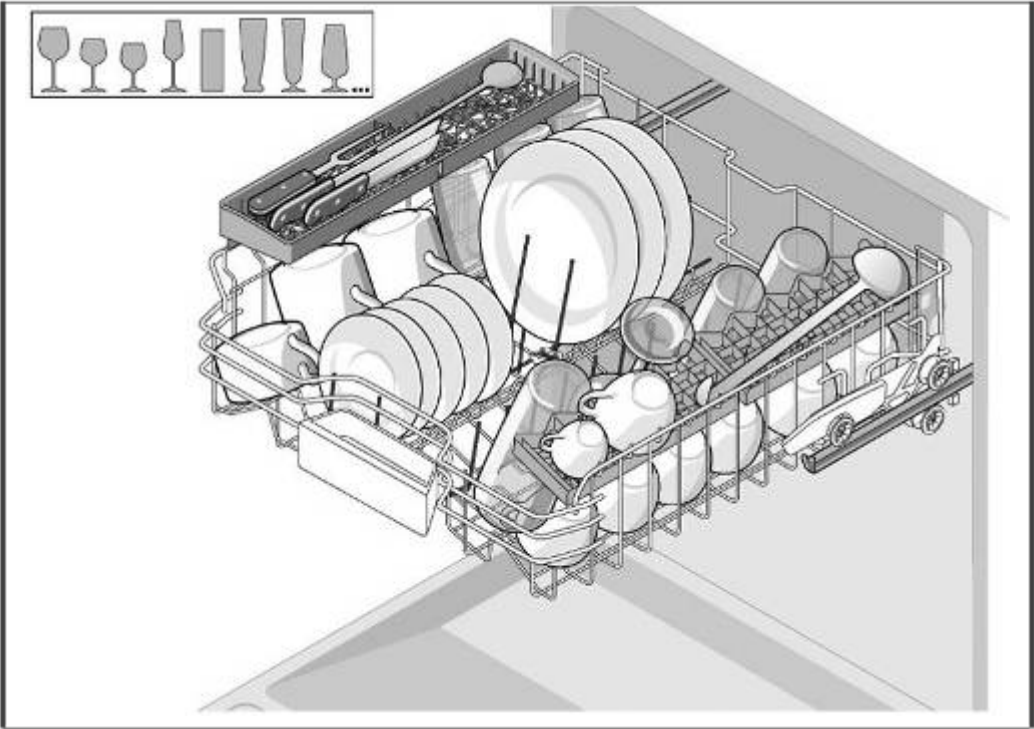


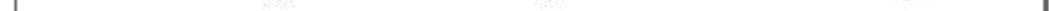
The extendable top basket is loaded with smaller plates, glasses and cups. The utensils are cleaned by a spray arm under the top basket. When the top basket is pushed in, it docks with the supply pipe at the rear to make the water connection (see Spray system).

Representation of mobile elements:

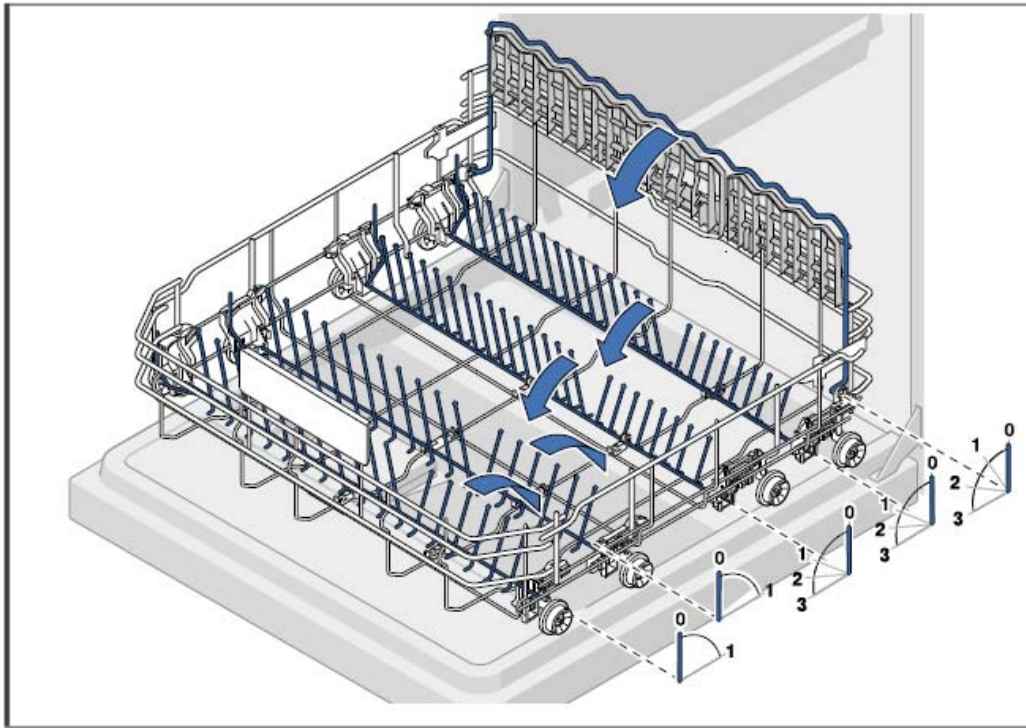


Loading example:

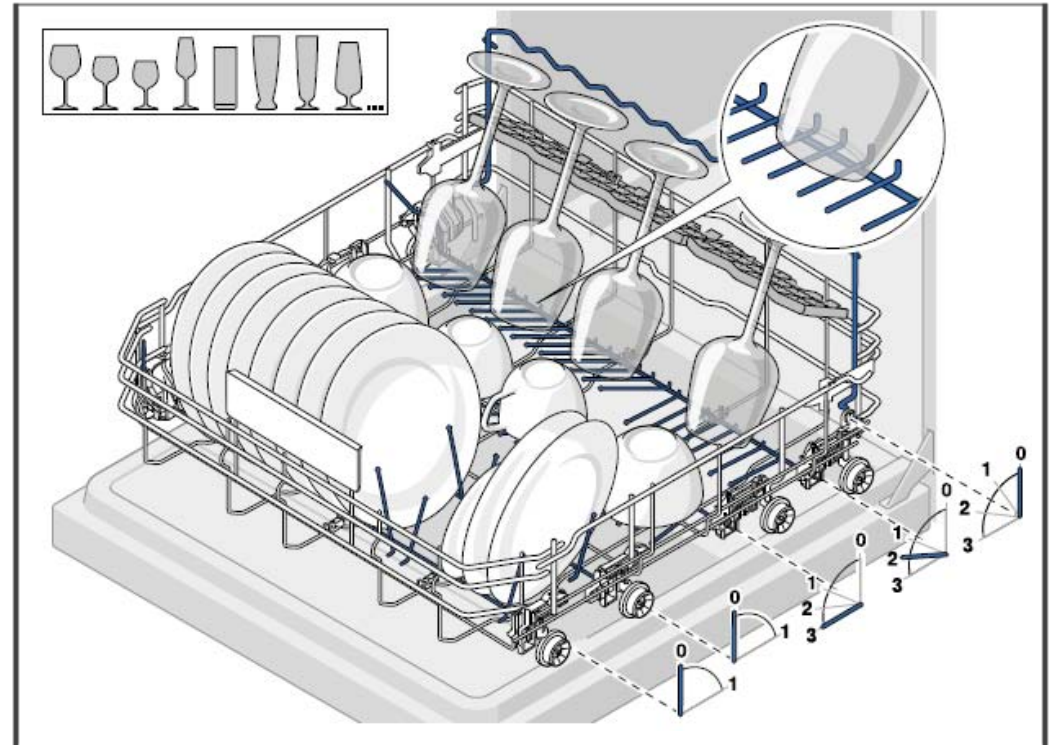




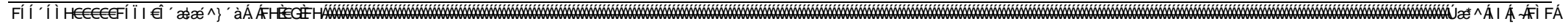
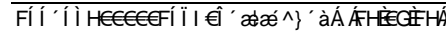
Representation of mobile elements:



Loading example:



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3.21.5 Ball ends

Ball ends are small balls on the tips of the folding spikes. If glasses or plates are placed on standard spikes, streaks may form in the area where the utensil touches the spike. The ball ends generate a minimum gap. As a result, utensils can be washed and dried without streaks.

3.21.6 Etagere

An etagere is an additional hinged shelf in the baskets. As it is attached in the top of the basket, this produces another level (etage).

There is space on this level for mocha cups or small objects.

3.21.7 Folding spikes

These spikes can be folded down so that utensils can be arranged more flexibly. The spikes can be folded down on several levels or only on one level.

3.21.8 Rackmatik

The height adjustment for the top basket is called Rackmatik. The adjustment can be on several levels (3 levels). The supply pipe has connections for one 3-level Rackmatik.

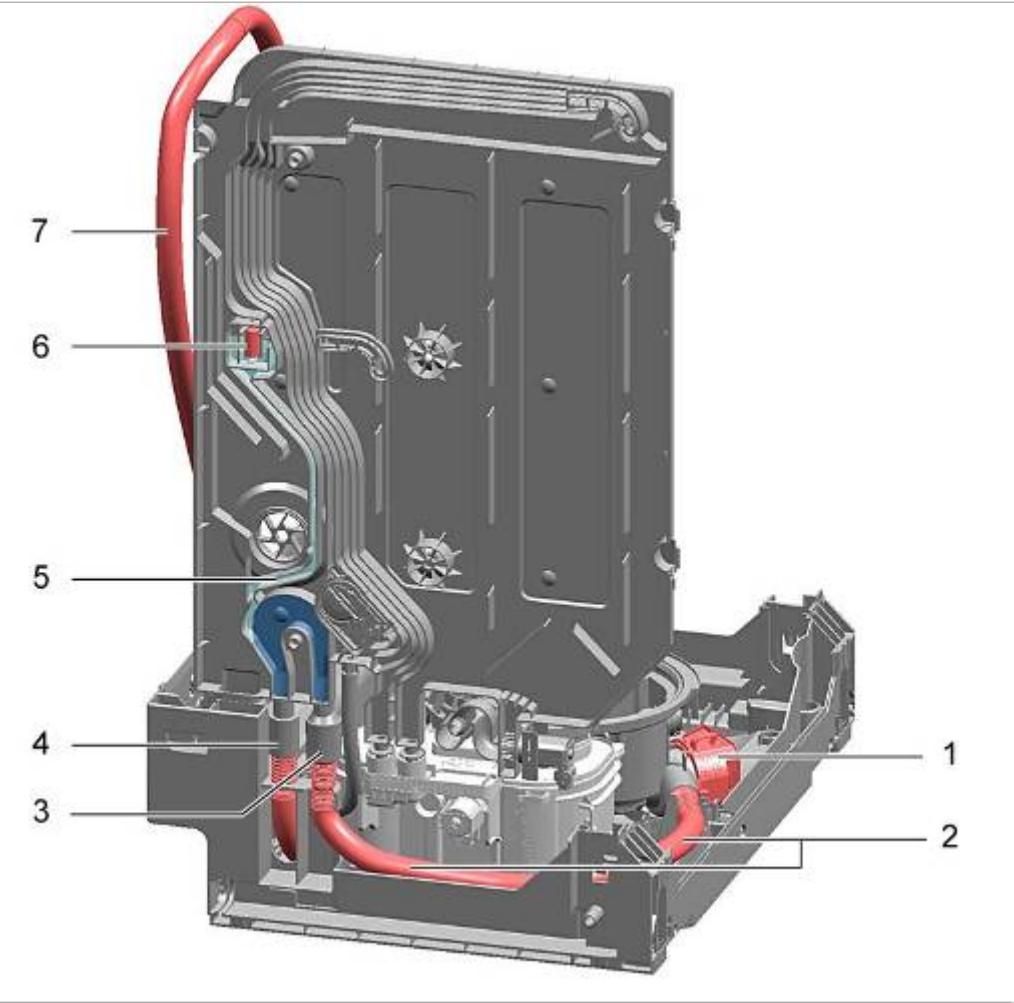
The top basket can also be tilted to the right or left.

The metal holders of the Rackmatik are pressed mechanically into the top basket. If the holders are bent open, the surface of the top basket may be damaged.

3.21.9 Holder for long-stemmed glasses

A folding bracket on the back of the bottom basket can be folded forwards so that long-stemmed glasses can also be arranged on a 2nd row.

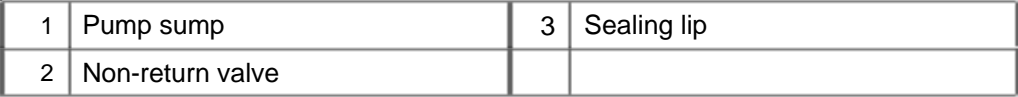
3.23 Water outlet



1	Drain pump	5	Air duct
2	Inner drainage hose	6	Float chamber with float
3	Input water outlet	7	Drainage hose
4	Output water outlet		

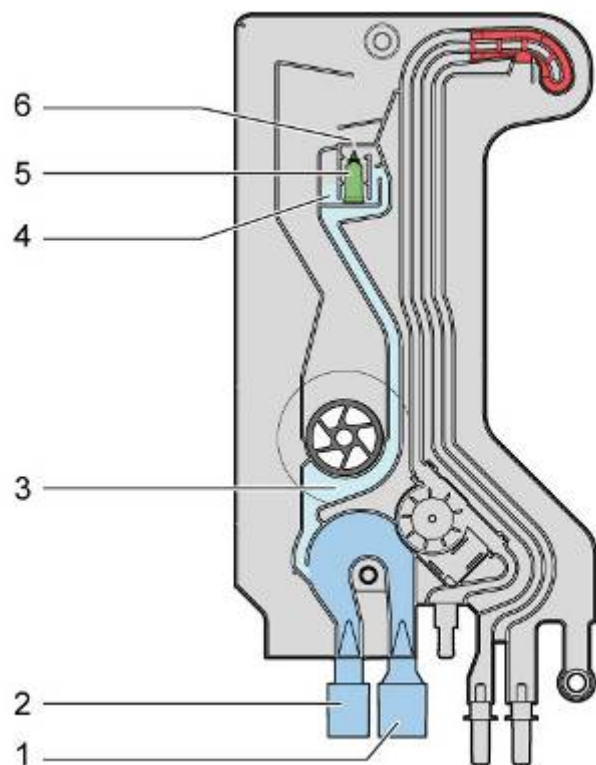
If the drain pump is actuated for draining, the water is pumped to the heat exchanger. The water flows to the drainage hose via the heat exchanger and out of the appliance.

A non-return valve is installed in the hose connection of the pump sump. This prevents the return of waste water into the pump sump.



This prevents dirt residue, dirty water or detergent residue from flowing back into the rinsing circuit.

3.25 Ventilation sequence



1	Input water outlet	4	Float chamber
2	Output water outlet	5	Float
3	Air duct	6	Ventilation opening

During pumping, water is pumped to the drainage hose via the drainage channel of the heat exchanger / water inlet.

A continuous water flow occurs. If the drainage is lower than the appliance, the water flows out of the appliance by suction effect even if the drain pump is no longer actuated.

In the float chamber there is so much water that the float floats and the ventilation opening closes.

The ventilation opening is released by the float as soon as the water flow in the water outlet decreases. The appliance cannot be drained while the liquor pump is deactivated as air can flow in via the ventilation opening.

If the drainage hose is defective (blockage, kink), pressure builds up.

Electronics detects the blockage over by drain pump
An error code is saved in the failure memory.

3.26.1 Function

The actuator mechanism for the detergent cover is actuated via a coil. The coil is actuated via pulses from the power electronics. When the coil is switched on, the anchor is moved to the left.

The anchor is connected by a plastic lever to the release lever of the detergent cover. When the actuation lever is turned, the detergent cover is released and opens.

There is a switching mechanism between the coil anchor and the rinse-aid valve. The switching mechanism prevents rinse aid from being metered when the coil is initially actuated.

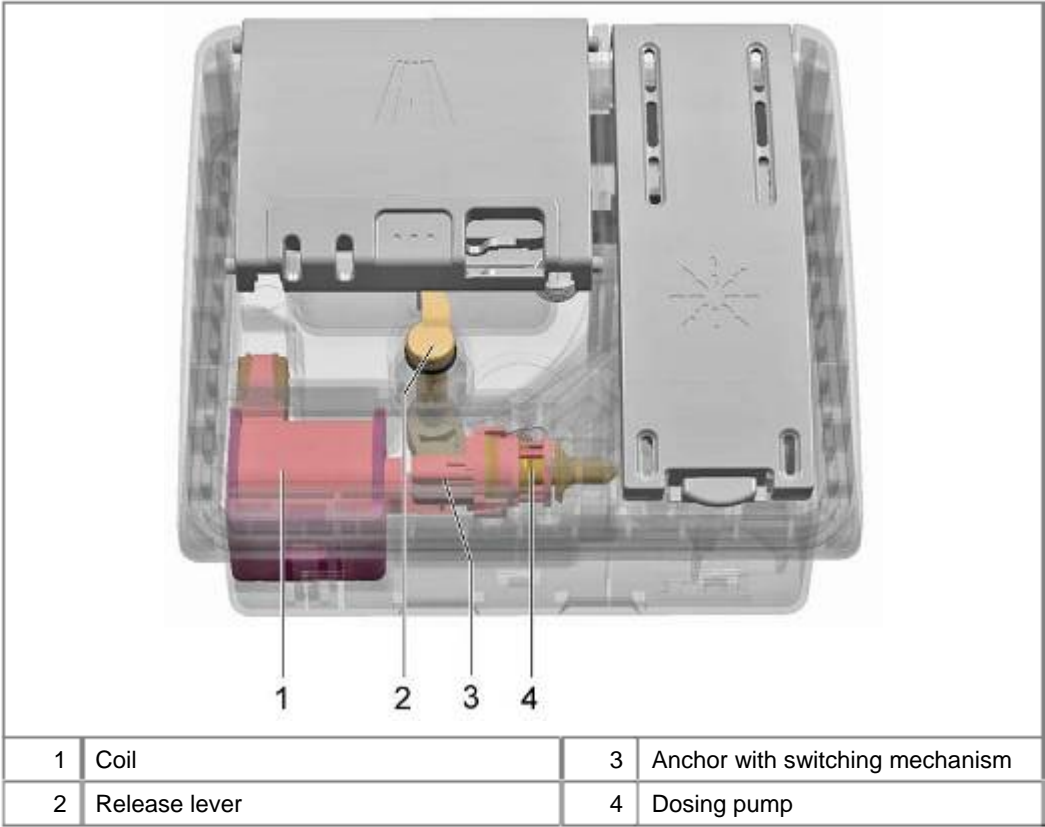
When the detergent cover is opened, the mechanism switches similar to a “ballpoint mechanism”. The detergent cover is no longer actuated, but the dosing pump for rinse aid.

With each pulse 1 ml of rinse aid is dispensed. The setting stage for the rinse aid corresponds to the pulses and the dispensed amount. To ensure that the rinse aid container drains, there is a scoop chamber. This is always filled when the appliance door is fully opened. The rinse aid flows out of this scoop chamber into the appliance. If the door is not fully opened, rinse aid may not flow into the appliance because the scoop chamber was not filled.

A ventilation system is used to equalise the pressure in the dispenser.

If the appliance door is opened, the actuating mechanism is “reset”. This causes the detergent cover to open first the next time the coil is actuated.

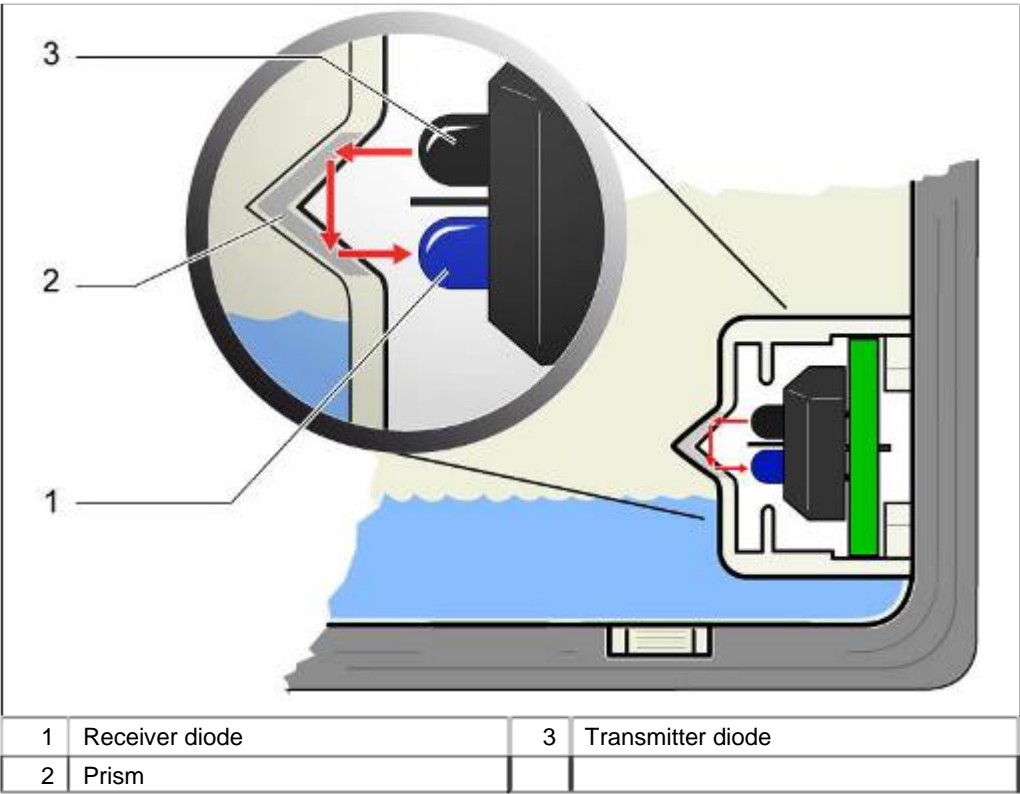
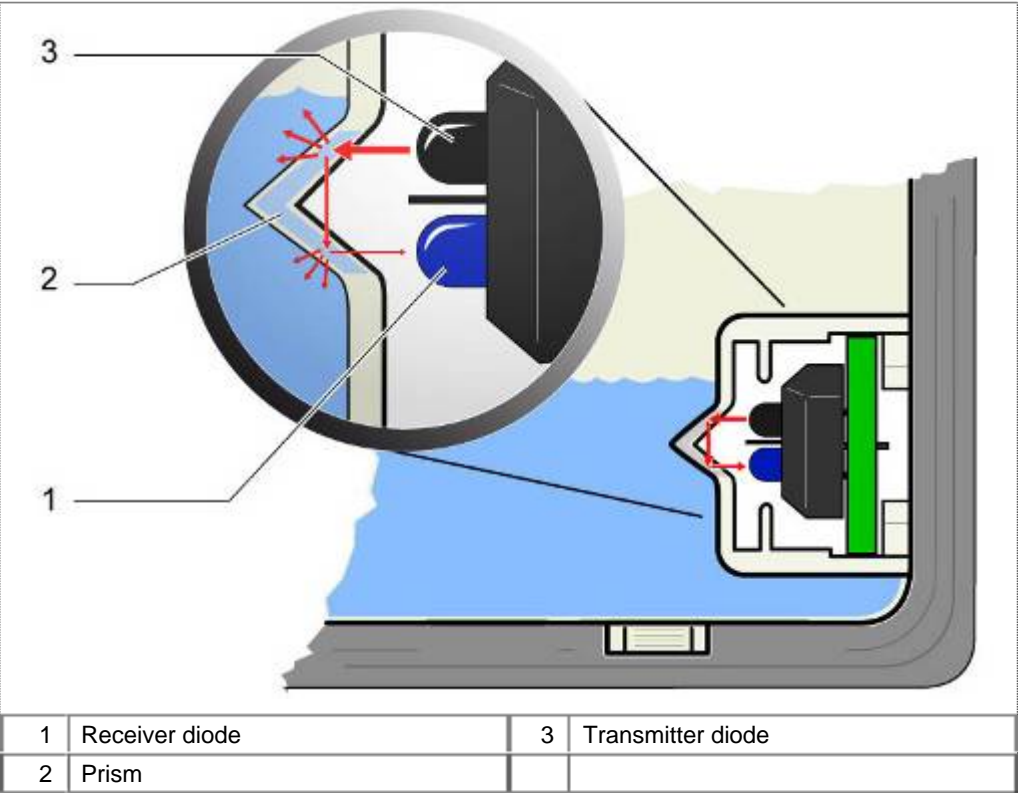
If there is humidity left in the detergent dispenser and a detergent tablet is inserted, the tablet begins to dissolve slowly. 2 plastic bars in the dispenser prevent the detergent from “sticking” to the housing.



3.27 Low rinse-aid sensor

The optical low rinse-aid sensor consists of a transmitter diode and a photo transistor.

A light beam is transmitted from the transmitter diode to the receiver diode via a prism. If the dispenser is full, the light beam in the prism is scattered. The received signal is weaker than the transmitted one.



If the dispenser is empty, the light beam in the prism is reflected. The received signal is the same as the transmitted signal.

The received signal is analysed and displayed via the power electronics.

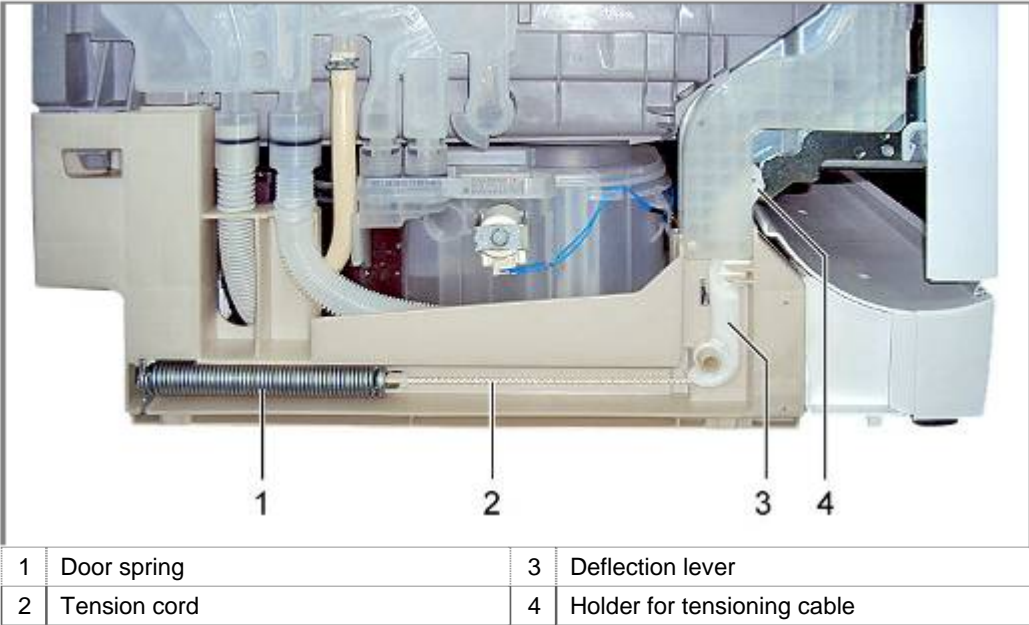
3.28 Door springs

The door springs are situated on the right and left under the base pan. The tensile force is transferred to the door hinge with a tension cord via a deflection lever.

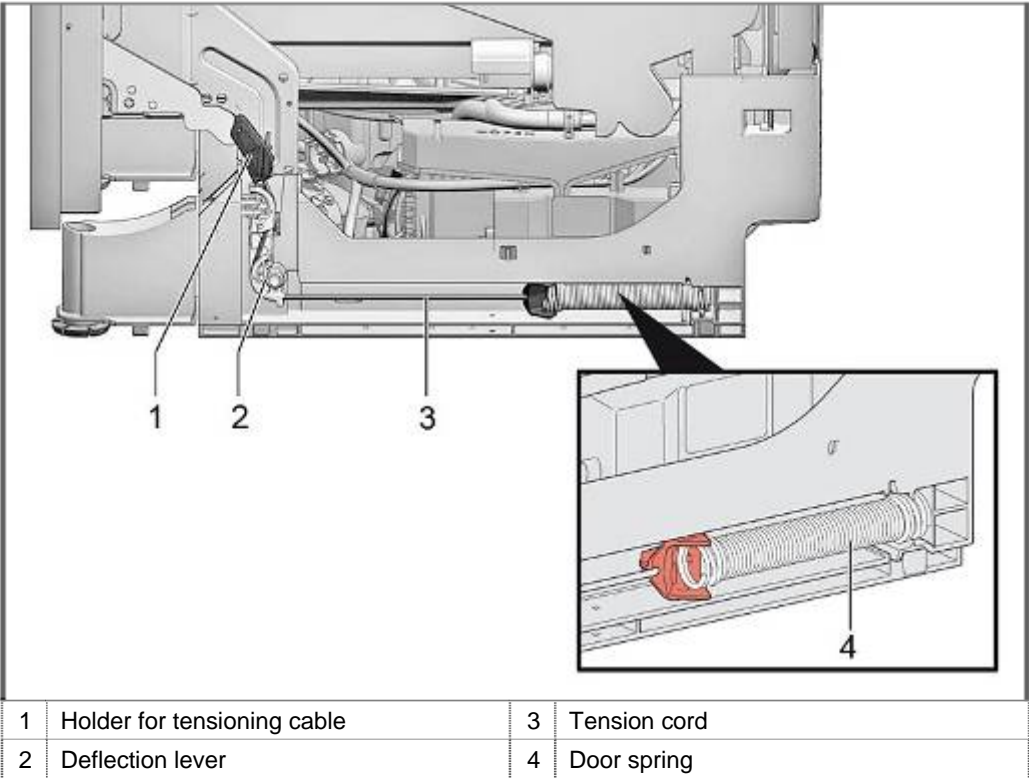
The tensile force of the door springs cannot be adjusted.

The installed spring and the cable system automatically adjust themselves to the door weight.

Springs with different tensile forces are available. They are marked by coloured points. The allocation to the released furniture fronts is shown in a table in the chapter replacing the springs.



Construction-partly the following spring system can be also used:



3.30 Foot adjustment

Depending on the design, the appliances feature 3 or 4 appliance feet. The adjustable heights vary.

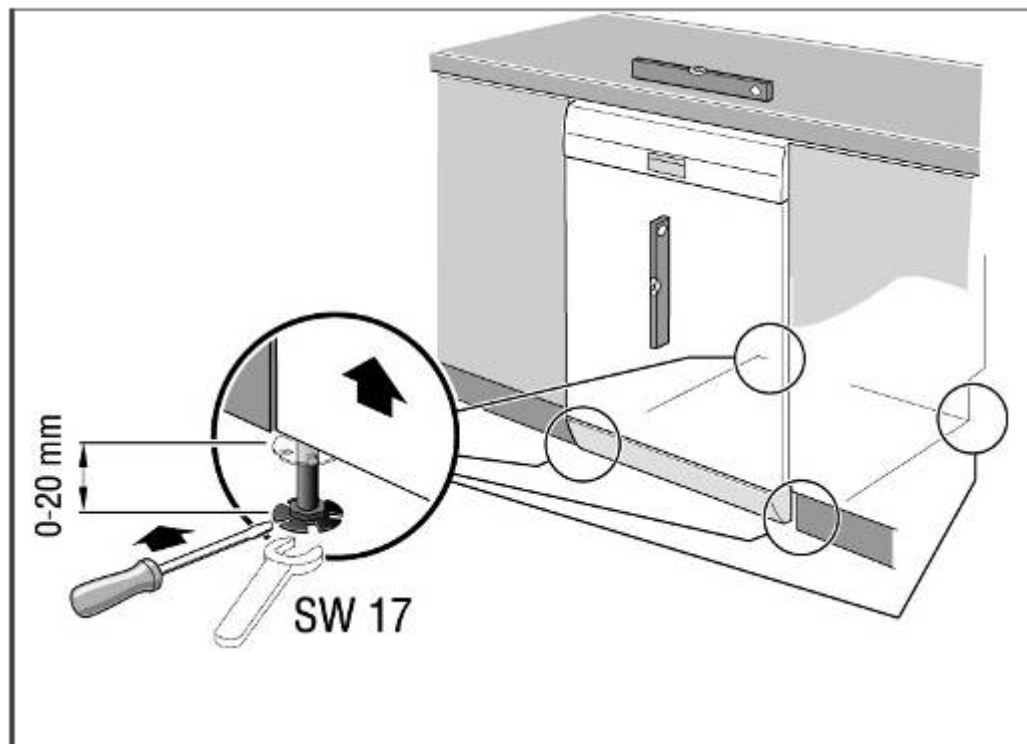


Illustration 1: Free-standing appliance

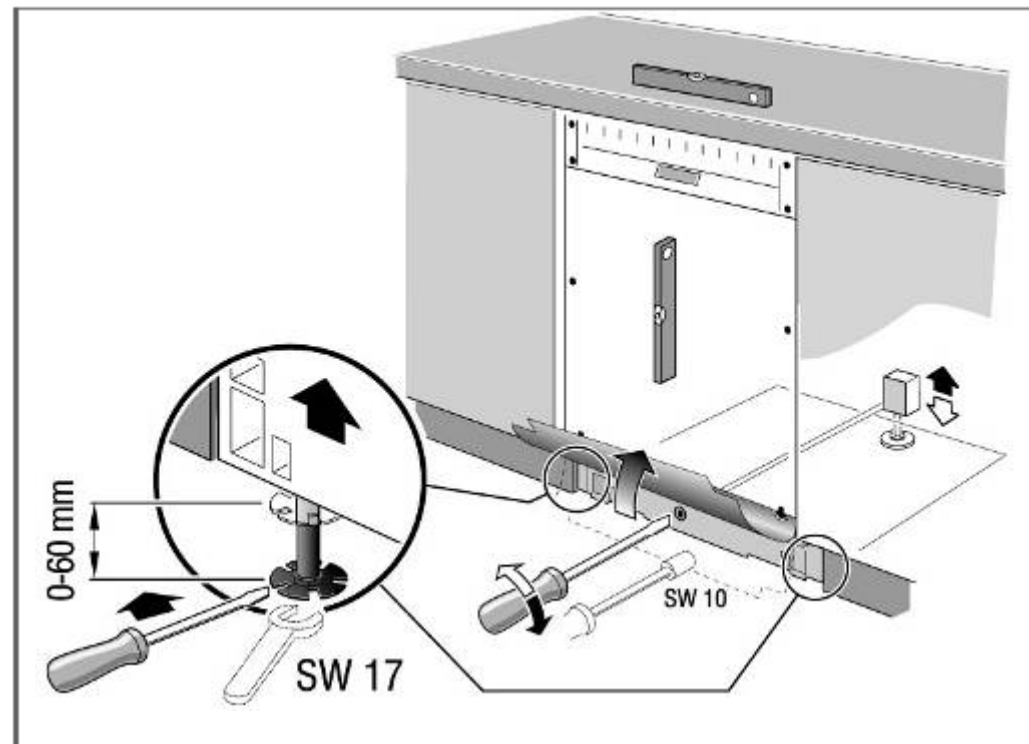
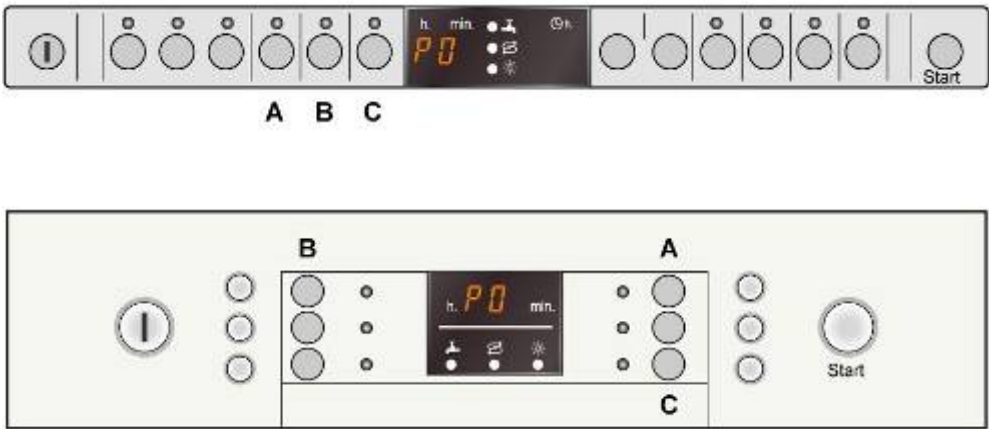


Illustration 2: Built-in & built-under appliance

3.31 Customer settings

Requirement:
Appliance is switched on

3.31.1 Button layout



3.31.2 Selection of the customer settings

Simultaneously press button A and the “Start” button

3.31.3 Selection ranges

To select the range, press button A.
To change the value, press button C.

3.31.4 Possible settings

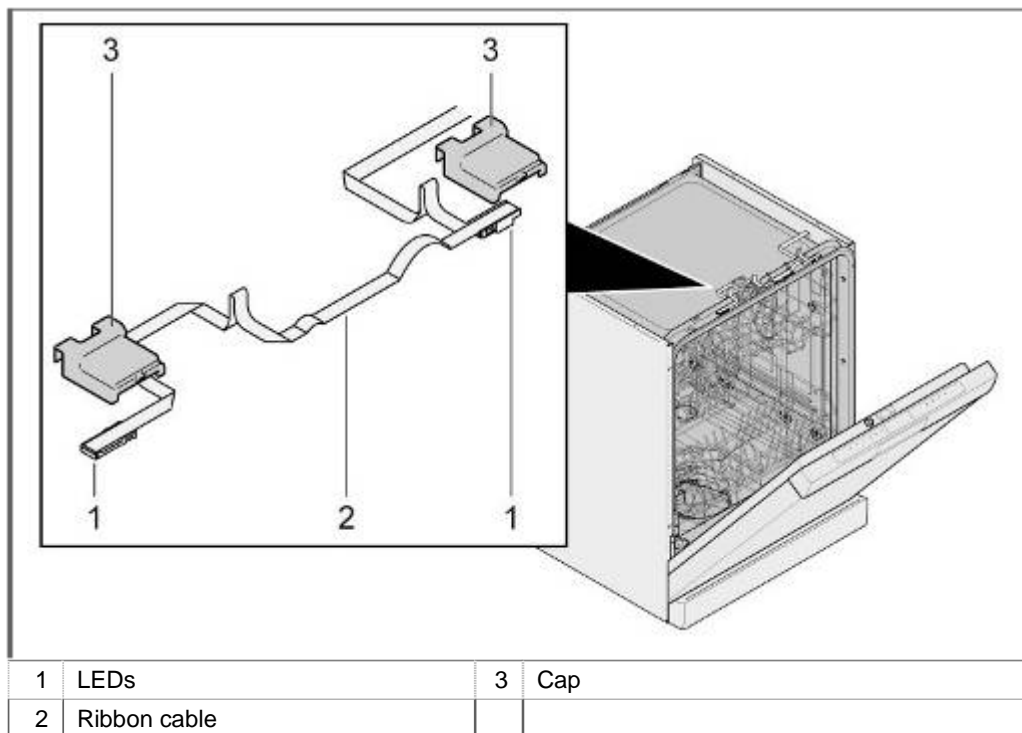
Range	Display	Selection
Warm water connection	A:00 – A:01	Switch on and off, factory setting: A:00 - Off
Hardness range	H:00 – H:07	8 ranges, On - Off factory setting: H:04
Intensive drying	d:00 – d:01	Switch on and off, factory setting: d:00 - Off
Rinse aid	r:00 – r:06	6 ranges, On - Off factory setting: r:05
Buzzer	B:00 – b:03	3 ranges, off factory setting: b:02
Language selection	L:01 – L:19	19 languages factory setting: L:01, German
Auto Power OFF	P:00 – P:02	P:00 – Off, Emotion light on P:01 – Off after 1 minute, Emotion light off P:02 – Off after 120 minutes, Emotion light off Factory setting: P:01
EmotionLight	E:00 – E:01	On – Off factory setting: E:01 On
On-board computer	C:00 – C:01	On – Off factory setting: C:01 On
Info Light	I:00 – I:01	On – Off factory setting: I:01 On
		Partly optional functions

3.31.5 Saving the setting

Press “Start” button

3.32 Emotion light (optionally)

Emotion light is an internal light.



If the “Emotion Light” function is activated in the appliance menu, 2 LEDs light up when the door is opened.

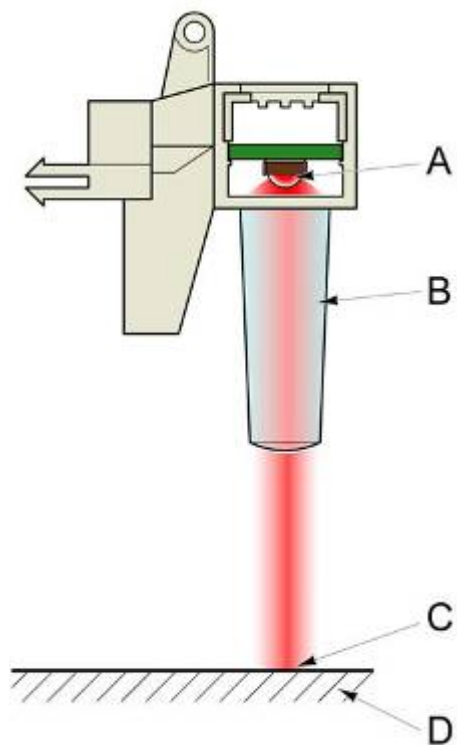
The interior light (Emotion Light) comes on when the door is opened irrespective of whether the ON/OFF switch is switched on or off. When the door is closed the light is off. If the door is open for longer than 60 min., the light switches off automatically. The interior light is lit only when the set value P:00 is selected.

3.33 Info light (optional)

The user is provided with additional information by fully integratable models with a programme status display visible from the outside (info light).

The info light consists of an LED and a fibre-optic cable. The light is bundled via the fibre-optic cable and is projected as a red light spot on the subsurface in front of the dishwasher while the programme is running.

The info light is attached between the inner and the outer door on the right hinge plate and is actuated by the module.



A	LED	C	Light spot
B	Fibre-optic cable	D	Subsurface

3.34 TimeLight (optional)

TimeLight projects user information about the operating state of the appliance for fully integrated models onto the floor in front of the appliance.

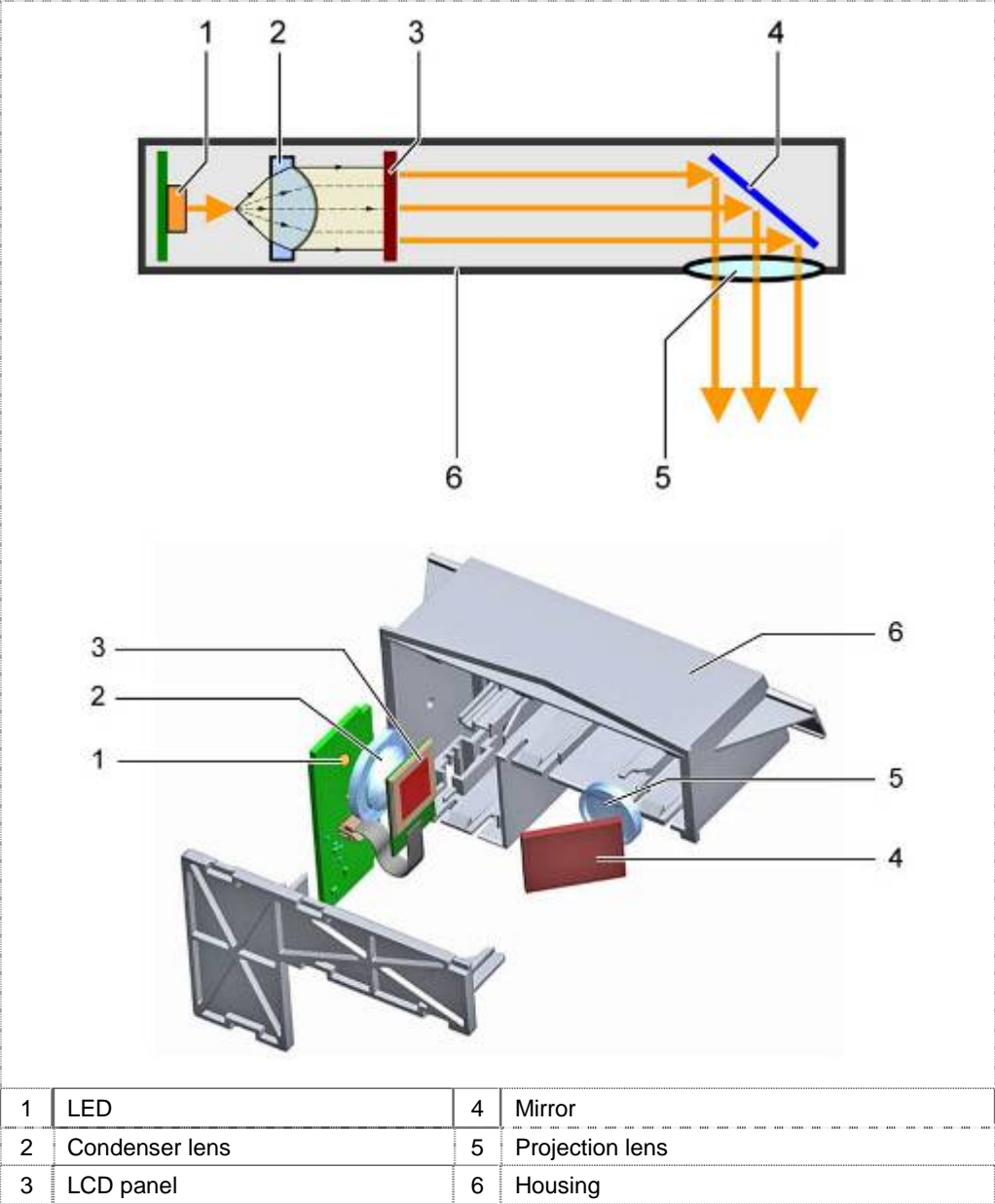
Function:

An LED radiates light which hits a condenser lens. The function of this lens is to collimate the incoming light to ensure that the LCD panel is evenly illuminated.

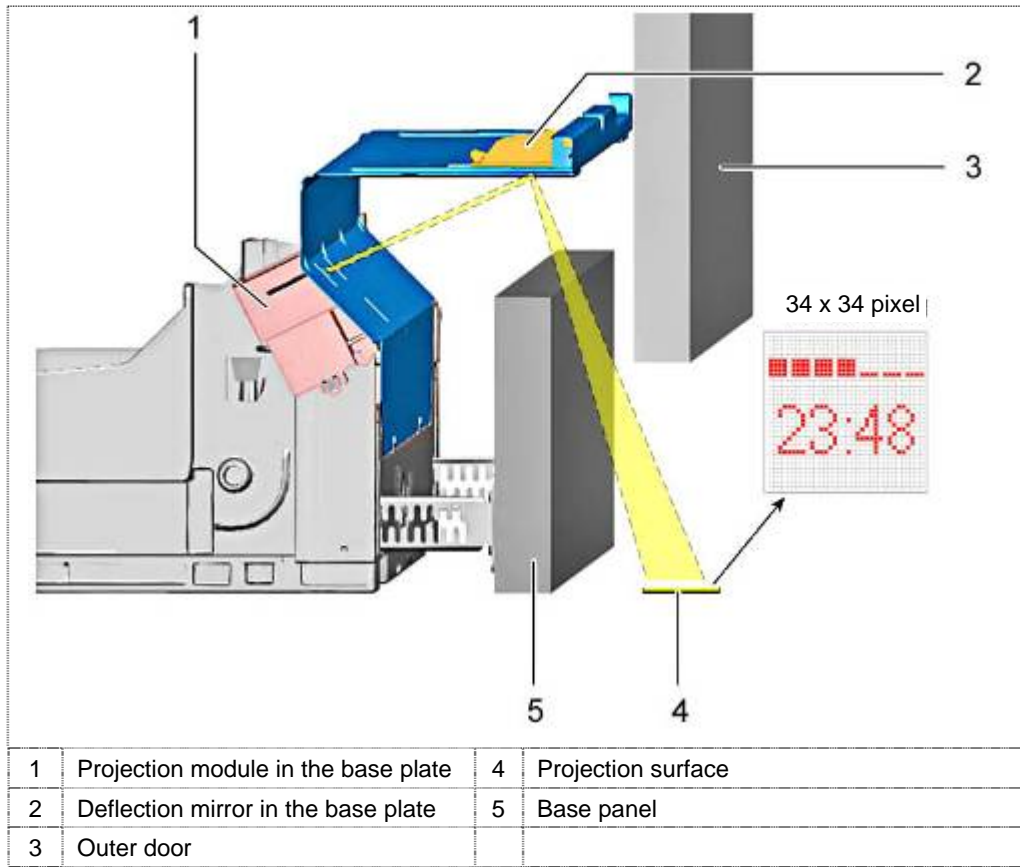
The LCD panel has a resolution of 34 x 34 pixels.

The graphic information is deflected via mirrors.

The TimeLight projection module is available only as a complete module.

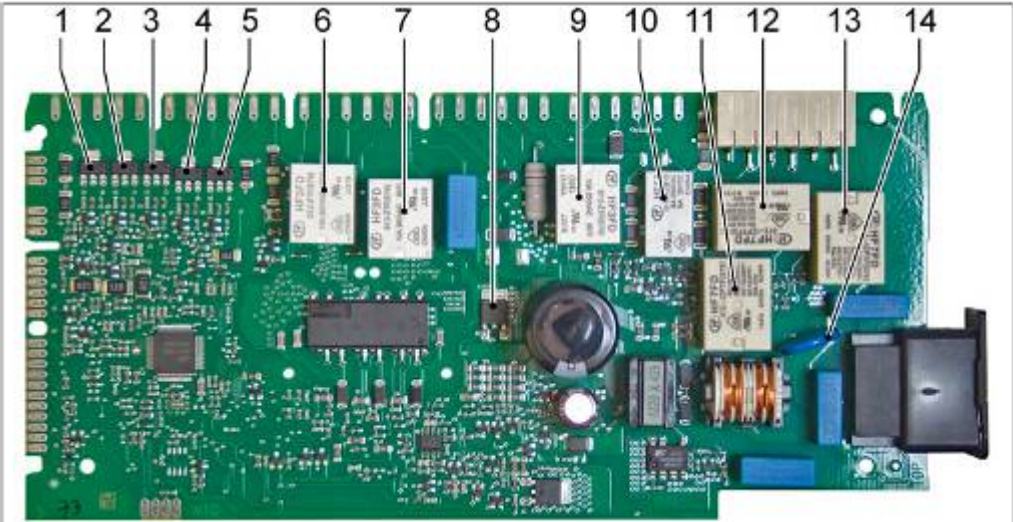


Projection process:



3.35 Power module

3.35.1 Position of the components



1	TH401 = water points	9	K304 = inrush current limiter
2	TH403 = reserve Optionally: Valve water storage tank / Aqua stop valve warm water connection	10	K100 = bistable relay, security system
3	TH404 = heat exchanger- drainage valve (optionally)	11	K303 = heater
4	TH405 = regeneration valve	12	K305 = heater zeolith
5	TH402 = filling valve	13	K301 = relay security
6	K201 = reversal relay circulation pump / drain pump	14	Varistor, overvoltage protection
7	K202 = reversal relay circulation pump / drain pump	15	
8	T412 = coil - dispenser	16	


NOTE


Electrostatic sensitive devices

Components will be destroyed if touched

- ▶ Before carrying out any work, apply protective system to components susceptible to electrical discharge.
- ▶ Observe measures to protect the components susceptible to electrical discharge.

3.37 D-bus2 / appliance software



**DANGER**

Exposed live parts
Danger to life caused by electric shock!


- ▶ Disconnect the appliance from the power supply.
- ▶ Do not touch housing, frame or components.
- ▶ Use residual-current-operated circuit-breaker if tests have to be conducted while the appliance is live.
- ▶ Ensure that the resistance of the protective conductor does not exceed the standardised values.


Communication between the electronically components is via a D-bus2.

The D-bus2 consists of a 3-pole line system. The 3 lines are connected as follows:

- 13,5 V d.c. via GND
- GND (possibly power potential)
- Data line

The software can be manually imported (flashed). A connection with the D-bus2 is established via the UDA.



**CAUTION**

Voltage peaks with the release/connecting the plug contacts
Destruction of the control module or the piezo power supply unit (optional) by net potential on the ground wire of the bus system.

- ▶ Disconnect the appliance from the power line before release/connecting plug connectors.

3.38 Weight

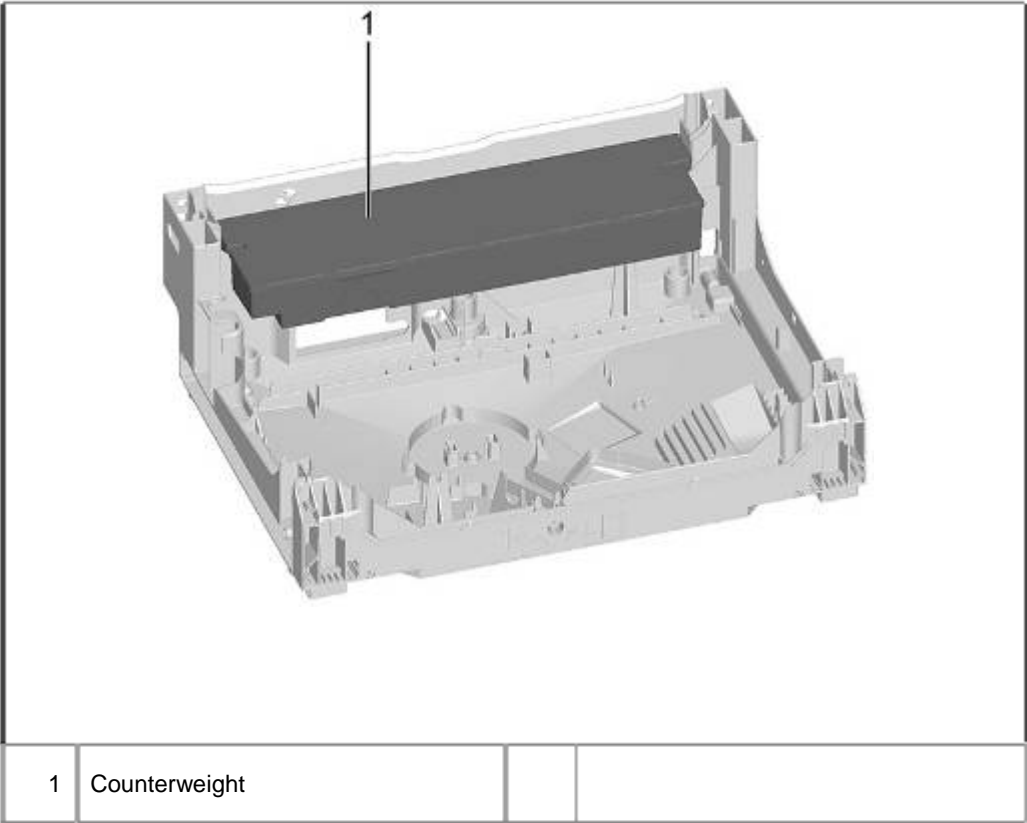
Free-standing appliances have a weight in the rear area of the base pan. This prevents the appliance from tipping over if the door is opened and the baskets pulled out.

There are 2 different concrete weights:

Appliances with cutlery drawer: 6.5 kg

Appliances without cutlery drawer: 5.5 kg

Appliances with Zeolith additional heating system: 2.4 Kg



4


4.1

Fault	Cause	Fault correction
Tablet does not dissolve.	Spray arm stiff, sticking, touches container rear side.	Check function of the upper spray arm (Use of glass door, material number: 81cm: 341333; 86 cm: 341334).
Tablet does not fall into the basket handle on 86 cm appliances.	Tolerances	Insert tablet chute (material number 614935) into top basket.
Program Stops; Program cannot be started Program suspends	Door lock not correctly closed, there door lock engaged. Closing force too highly.	Close door firmly thereby the door lock works normally again. Closing force reduction by exchange of upper piping

4.2 Result faults

Fault	Cause	Fault correction
Poor rinsing result.	<ul style="list-style-type: none"> • Tablet does not fall into the basket handle on 86 cm appliances. • Spray arm stiff, sticking. • non-return valve defectively/blocked/clogs • Dispenser does not open, because Tab blocks the dispenser cover, Tab upright inserted • remainders in the dispenser • Missing cover of water softener in AU models 	<ul style="list-style-type: none"> • Insert tablet chute (material number 614935) into top basket. • Check that the spray arms function (Use of glass door, material number: 81 cm: 341333; 86 cm: 341334) -> replace spray arm. • Examine, release it • Advise customer, insert Tab correctly • Spraying arm blocked, dishes, smell donors in grip cap - > advise customer • AU models are partially coated with a "dummy" - equipped softener. Screw on lid.
Unsatisfactory washing result in the bottom basket of zeolite appliances.	Lower spray arm blocked on the blow-out cap of the zeolite container.	Check that the cap is secure. It must be locked all the way.

On account of an increased number of enquiries concerning the washing result of the series GV640, the possible reasons for the “poor washing result” complaint and information on possible remedies are listed below.






Faults which can be clearly attributed to operating faults, as well as inadequate maintenance, must not be claimed under the warranty. Appropriate use and maintenance instructions can be found in the indicated chapters in the Instructions for use and Quick reference guide .




From experience it is important to scrutinise not only the fault description but also the circumstances of the occurrence on acceptance of the order and to mention these in the order.

- Does the problem persist, sporadically or at specific intervals?
- Were different programmes or detergents used or tested?
- Has the problem been occurring since a specific time (new utensils, change in detergent, ...)?
- Are only utensils in certain areas (only top/bottom basket, only corner areas, ...) affected?


The performance test must be conducted in the customer service test programme using the “glass door”.





1. Residue on the utensils

Fault description	Cause	Remedial action
Food remnants or sandy residue	Utensils placed too closely together, overfilled.	Observe correct arrangement of utensils (arrange according to Fig. 1 , Fig. 2 and Fig. 3).
	Spray arm blocked by utensils or cutlery.	Arrange utensils so that spray arm can rotate without obstruction. (arrange according to Fig. 2 and Fig. 3); see  <i>Utensils</i>
	Utensils precleaned too intensely; sensors therefore decide on weak programme sequence. Stubborn soiling cannot be completely removed.	Do not prerinse utensils; remove only large food remnants. Programme recommendation Eco 50°.
	Filter not locked in the pump sump or incorrectly inserted.	Insert and lock filter correctly; see  <i>Maintenance and care</i>
	Spray arm nozzles, roof shower head blocked (e.g. lemon pips, etc.).	Clean nozzles and roof shower head and insert/lock filter correctly; see  <i>Maintenance and care</i>
	Coarse, micro and fine filter dirty.	Clean filters; see  <i>Maintenance and care</i>
	Spray arm bearings do not move smoothly (dirt around the bearings).	Clean parts, show customer how to insert filter correctly.
	Spray arm or supply pipe deformed -> spray arm strikes the basket or the docking site.	Replace spray arm.
	Waste-water pump blocked.	Check waste-water pump; see  <i>Eliminating faults yourself</i>
	Dirty water runs back into the appliance -> re-soiling.	Check draining, check non-return valve for leaks.
	Top basket on right and left not set to same height.	Set top basket to same height using side levers.
	Utensils unfavourably arranged (very large utensils e.g. pans in the bottom basket), avoid contact points, prong rows bent.	Arrange utensils so that spray jets can reach surface of utensils (arrange according to Fig. 2 and Fig. 3).
	Tall narrow receptacles are not rinsed adequately in the corner area.	Do not place tall narrow receptacles too obliquely or in the corner area (arrange according to Fig. 2 and Fig. 3).

Fault description	Cause	Remedial action
Detergent residue	Detergent dispenser cover blocked by utensils (cover does not open fully).	Check detergent dispenser function, detergent cover must not be obstructed by utensils. Do not place any utensils or aroma dispensers in the dosing assistant.
	Detergent dispenser cover is blocked by the tablet.	Advise customer, insert tablet correctly (flat, not upright).
	Tablets used in the Quick or Short programme. -> Dissolving time of the detergent is not reached in the selected short programme.	Advise customer, dissolving time of the tablets too long. Use detergent powder or select a more intensive programme.
	Detergent residue in final rinse; detergent-solution carry-over.	Check draining, check non-return valve for leaks.
	Detergent very lumpy, washing effect and dissolving performance are reduced after a prolonged storage time.	Advise the customer. Always insert tablet just before the programme starts.
Water stains on plastic parts	Droplet formation on plastic surface is physically unavoidable. Plastics do not store heat. After drying, substances in water are visible.	<ul style="list-style-type: none"> – Use more intensive programme (more water changes); see  <i>Programme overview</i> – Note inclination when arranging utensils. – Use rinse aid, if required increase see  <i>Rinse aid</i>. – If required, increase softening setting; see  <i>Water softening system</i>
Water residues	Wrong loading	Correct sequence for eliminating consider Fig 4
Coloured (yellow, orange, brown), easily removable, soapy residue in the interior	Soap-like layering of ingredients of food residue and lime. Because of tolerances for combined detergents (3 in 1 or higher) can make it necessary to use the water softener already at a water hardness of 16 ° dH.	Advise customer and contrary to the indication of the detergent manufacturer activate the water softener additionally
Residue in the pull-out rails	Detergent and food remnants are deposited due to design.	Clean by hand, - for the upper basket use the modified pull-out rails with mat.no. 708086 - for the cutlery drawer use mat.no. 687970

2. Coatings:

Fault description	Cause	Remedial action
Wipe-clean or water-soluble coatings in the container or on the door	Detergent substances are deposited. These coatings cannot usually be removed with chemicals (appliance cleaner, ...).	Change detergent brand. Clean appliance mechanically.
	Water softening system set marginally; fault description occurs cyclically "White coating on container floor".	Increase softening setting and change detergent if required.
	Regeneration salt on the utensils: – Leaking salt dispenser cover. – Leaking regeneration valve.	Advise customer, eliminate leak. Check regeneration valve or valve seat (customer service programme).
	Detergent residue in the final rinse; detergent-solution carry-over. Wrong programme selected. (Quick programme selected)	Check detergent dispenser function, detergent cover must not be obstructed by utensils; Select suitable programme. <i>see  Programme overview</i>
	Initial clouding of glass -> can only apparently be wiped off.	Damage to utensils

Fault description	Cause	Remedial action
White, stubborn coatings; limescale on the utensils, container or door	Detergent substances are deposited. These coatings cannot usually be removed with chemicals (appliance cleaner, ..).	Change detergent brand. Clean appliance mechanically.
	Hardness range incorrectly set or untreated water hardness greater than 50 °dH.	Check residual hardness in the cleaning and final rinse cycles and set water softening system according to instructions for use. Top up salt; see  <i>Water softening system</i>
	Water softening system is not being regenerated.	Check function of the regeneration valve in the customer service programme.
	3in1 detergent or bio/eco detergent not effective enough.	Set water softening system according to instructions for use; use separate agents (proprietary detergent, salt, rinse aid); see  <i>Water softening system</i>
Starch deposits on the utensils	Underdosage of detergent (verification with Minilabor mat. no. 340070).	Advise customer; increase detergent dosage, change detergent.
	Wrong programme selection (programme too weak) selected.	Advise customer; correct programme selection; see  <i>Programme overview</i>
Tea or lipstick residue on the utensils	Too low rinsing temperature.	Select programme with higher washing temperature; see  <i>Eliminating faults yourself</i>
	Too little detergent.	Use suitable detergent at correct dosage.
	Utensils precleaned too intensely; sensors therefore decide on weak programme sequence. Stubborn soiling cannot be completely removed.	Do not prerinse utensils; remove only large food remnants. Programme recommendation Eco 50°.
	Unsuitable detergent.	Change detergent.
Coloured (blue, yellow, brown), difficult to remove to non-removable coatings in the container or on the door	Film formation consisting of ingredients from vegetables (e.g. cabbage, celery, potatoes, noodles, ..) or the tap water (e.g. manganese).	Can be partly removed with machine cleaner (mat. no. 311313) or mechanical cleaning. Coatings are harmless.
	Film formation caused by metallic components. Known for silver or aluminium utensils.	Can be partly removed with machine cleaner (mat. no. 311313) or mechanical cleaning.


3. Discolouration:

Fault description	Cause	Remedial action
Coloured (blue, yellow, brown), shimmering, difficult to remove to non-removable discolouration in the container or on the door	Film formation consisting of ingredients from vegetables (e.g. cabbage, celery, potatoes, noodles, ..) or the tap water (e.g. manganese).	Can be partly removed with machine cleaner (mat. no. 311313) or mechanical cleaning. Mechanical removal with "Vienna chalk" (mat. no. 311136) usually possible. Coatings are harmless.
	Film formation caused by metallic components. Known for silver or aluminium utensils.	Can be partly removed with machine cleaner (mat. no. 311313) or mechanical cleaning.
Discoloration on plastic parts	Wash programme too weak.	Select different wash programme; see 📖 <i>Eliminating faults yourself</i>
	Too low rinsing temperature.	Select programme with higher wash temperature.
	Utensils precleaned too intensely; sensors therefore decide on weak programme sequence. Stubborn soiling cannot be completely removed.	Do not prerinse utensils; remove only large food remnants. Programme recommendation Eco 50°.




4. Streaking on glasses and cutlery

Removable streaking on glasses and cutlery Glasses with metallic appearance	Too much rinse-aid.	Set rinse-aid amount to lower level; <i>see</i> 📖 <i>Rinse aid</i>
	No rinse aid added or setting too low.	Add rinse aid and check dosage (recommendation level 4-5); <i>see</i> 📖 <i>Rinse aid</i>
	Non-return valve leaking.	Check non-return valve for leaks.
	Detergent residue in the final rinse. Detergent dispenser cover blocked by utensils (cover does not open fully).	Check detergent dispenser function, detergent cover must not be obstructed by utensils. Do not place any utensils or aroma dispensers in the dosing assistant.
	Utensils precleaned too intensely; sensors therefore decide on weak programme sequence. Stubborn soiling cannot be completely removed.	Do not prerinse utensils; remove only large food remnants. Programme recommendation Eco 50°.

5. Damage to utensils/water-insoluble residue

Fault description	Cause	Remedial action
Initial or existing irreversible clouding of glass	Glasses not adequately dishwasher-proof (glasses are usually only suitable for dishwasher).	<p>Advise the customer.</p> <p>Reduce main causes of glass corrosion:</p> <ul style="list-style-type: none"> – Use dishwasher-proof glasses. – Avoid long steam phase (standing time after wash cycle ends). – Use programme at lower temperature. – Set water softening system according to the water hardness (if required one level lower); see  <i>Water softening system</i> – Use detergent with glass protection component.

6. Rust

Fault description	Cause	Remedial action
Rust marks on cutlery	Cutlery not adequate corrosion-resistant. Knife blades are frequently more severely affected.	Use corrosion-resistant cutlery.
	Cutlery infected by extraneous rust from rusting parts (metal lid, damaged utensils basket, etc.).	Do not wash rusting parts.
	Salt content in the rinsing water too high, as salt dispenser lock not fastened firmly or salt was spilled while being refilled.	Fasten salt dispenser lock firmly or remove spilled salt (by prerinsing cycle).
Stains on the cutlery	Large contact surfaces between cutlery and too little inclination of e.g. spoons prevent the water from draining and cause staining.	Arrange cutlery so that there are as few contact surfaces as possible. (Arrange according to Fig. 1 and Fig. 2).
	Coarse, micro and fine filter dirty.	Clean filters; see  <i>Maintenance and care</i>
	No rinse aid added or setting too low. (Combination detergents have a lower final rinsing effect than separate rinse aids).	Add rinse aid and check dosage (recommendation level 4–5); see  <i>Rinse aid</i>
	Hardness range incorrectly set or untreated water hardness greater than 50 °dH.	Check residual hardness in the cleaning and final rinse cycles and set water softening system according to instructions for use. Top up salt; see  <i>Water softening system</i>
	Minor discolouration or residue at the contact points are physically induced and unavoidable.	Minimisation possible by means of the points stated in this section.

Figures:

Fig 1

- A** – Arrange knives and other sharp-edged or pointed cutlery with the blades face down to prevent accidental injury.
- B** – Do not place items of cutlery on top of each other. Correct arrangement certainly aids stain-free cutlery.
- C** – Arrange spoons and ladles at an incline. This will prevent accumulation of water and stains.

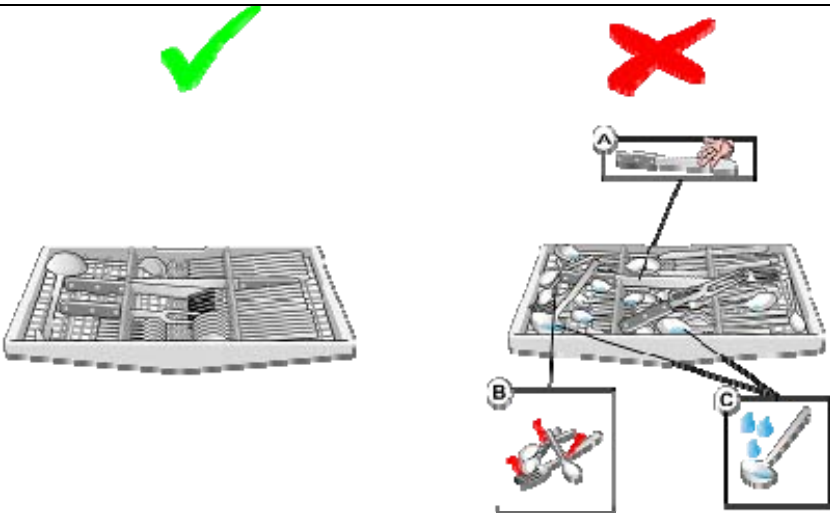


Fig 2

- A** – Do not place utensils on top of each other. Otherwise, parts on top will not be sprayed from below with adequate water.
- B** – Avoid large contact points between utensils. This prevents food remnants and stains on the utensils.
- C** – Do not overload cutlery basket. Minimise contact points between items of cutlery. This ensures stain-free cutlery.
- D** – Arrange hollow receptacles in such a way that water cannot collect inside. Do not let utensils project through the utensils basket. This ensures that the spray arm is not blocked.

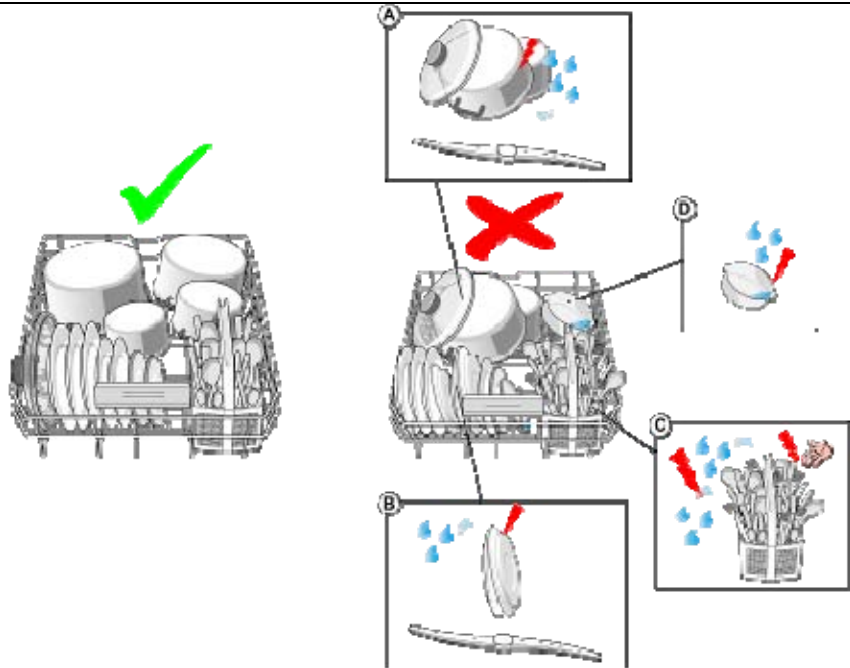


Fig 3

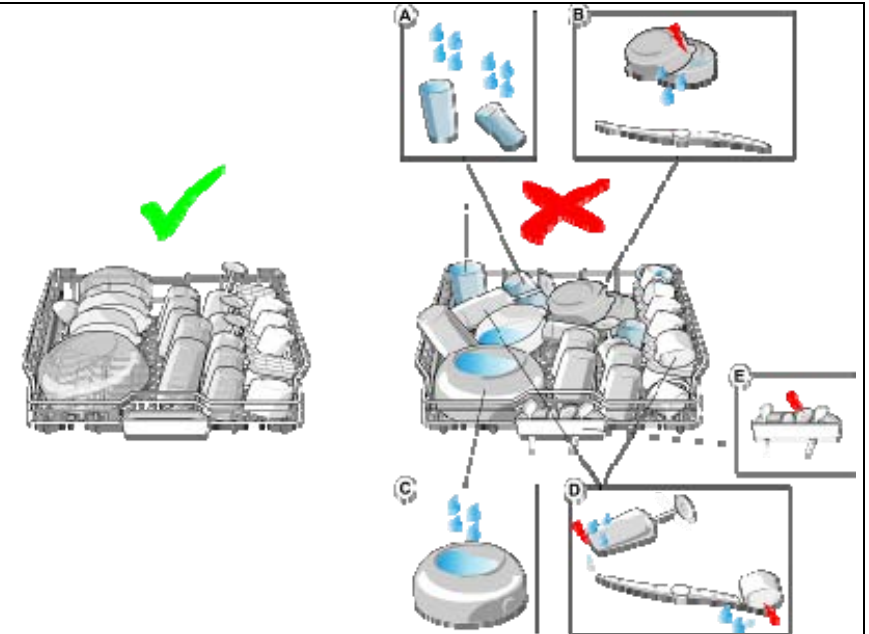
A – Arrange hollow receptacles in such a way that water cannot collect inside.

B – Do not place utensils on top of each other. Otherwise, parts on top will not be sprayed from below with adequate water.

C – Arrange cups and bowls at an incline. This prevents water from accumulating in their base area.

D – Do not place hollow receptacles too obliquely and do not place directly in the corner area. This ensures that they can be flushed out properly.

E – If appliances feature a tablet collecting tray, do not load it with utensils or aroma dispensers, otherwise the detergent dispenser will be obstructed. Do not let utensils (e.g. small ladles) project through the utensils basket. This ensures that the spray arm is not blocked.



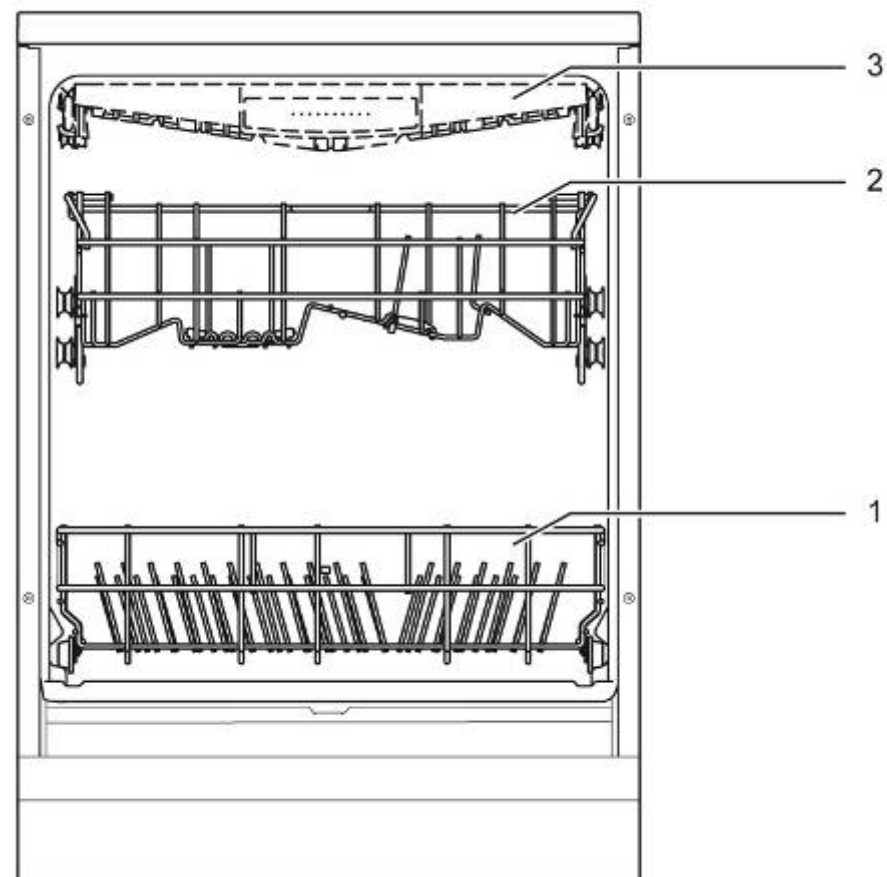
[Fig 4](#)

Eliminate the baskets in the following order:

1 – Lower basket.

2 – Upper basket

3 - cutlery drawer (optionally).



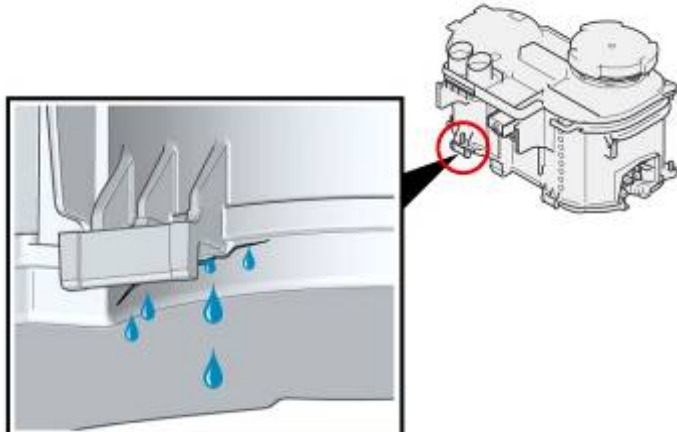
4.3 Electrical faults

Fault	Cause	Fault correction
Low salt indicator is constantly lit.	Salt tablets used.	Advise customer: do not use salt tablets.

4.4 Mechanical faults

Fehler	Ursache	Fehlerbehebung
Door cannot be closed.	Catch locked by the door lock.	Close door <u>firmly</u> until the lock is functioning normally again.
Cutlery drawer clamps	FD 9006 to FD 9010 incl.	Change the pull out rails of the cutlery drawer (Mat.Nr. 668719).

4.5 Leaks

Fault	Cause	Fault correction
Leakage under heat exchanger	Expansion opening does not bolt correctly.	Consider the sequence when assembling the heat exchanger: <ul style="list-style-type: none"> • See also to chapter „ replacing heat exchanger”
Error E:15 generated from leakage under water softener in FD 9110 ~ 9205.	Minimal leakage in the water softener can generate error E:15 after many wash cycles. <div data-bbox="568 617 1243 1050">  </div>	Change water softener complete: <ul style="list-style-type: none"> - See also to chapter „ replacing water softener system”

4.6 Dishwasher functions / Software

Fault	Cause	Fault correction
After switching on the dish washer, it begins with ECO 50 programme.	With KI 59 a new software is implemented. The default "start program" is always ECO, no matter which programme was chosen in the last washing cycle.	Advise customer: EU-directive (EU1275 / in 2008, conformance index 011) specify this programming.

5 TEST AND REPAIR

5.1 Testing water hardness in the appliance

Some faults require that the water hardness is determined in the appliance. Check the following beforehand:

Is regeneration salt used?

Has regeneration salt been added?

Is the water softening system switched on?

Has the correct degree of hardness been switched on?

Does the customer use tablets (which ones)?

5.1.1 Testing while the water softening system is active

Start test programme and let the appliance fill up to the first pause, checking visually.

Determine water hardness in the appliance using the water hardness test.

Approx. 5° to 7° dH should be measured provided the water softening system is intact and regeneration cycles have been set correctly.

If the value is significantly higher, test the water softening system.

5.1.2 Operating the appliance with the water softening system switched off

If the water softening system is deactivated, detergent tablets with salt replacement substances should be used. Note what is written on the packaging.

The chemical components of multifunction tablets bind the limescale in the water to themselves. These are effective up to approx. 21° dH. Note the product description of the manufacturer.

Test the water hardness of the supply water.

5.1.3 Advising the customer

If the water hardness is above the range within which the utilised tablets have a softening effect, advise the customer to use the regeneration system with regeneration salt.

If the customer uses tablets without salt replacement substances, suggest that special salt is used.

The appliance must be set correctly.

5.1.4 Checking water supply

The electronics check the water level in the appliance during the pre-rinse and wash cycles via the heating pump (uniformity check). If required, the water is topped up.

The filling capacity for the clear rinse is filled during the inter-mediate rinse cycle and stored in the heat exchanger. The capacity is measured via the pulses of the impeller flow meter only. A uniformity check during the final rinse cycle no longer occurs. If there is too little water left in the heat exchanger for the final rinse cycle, a poor cleaning and/or drying result can be expected.

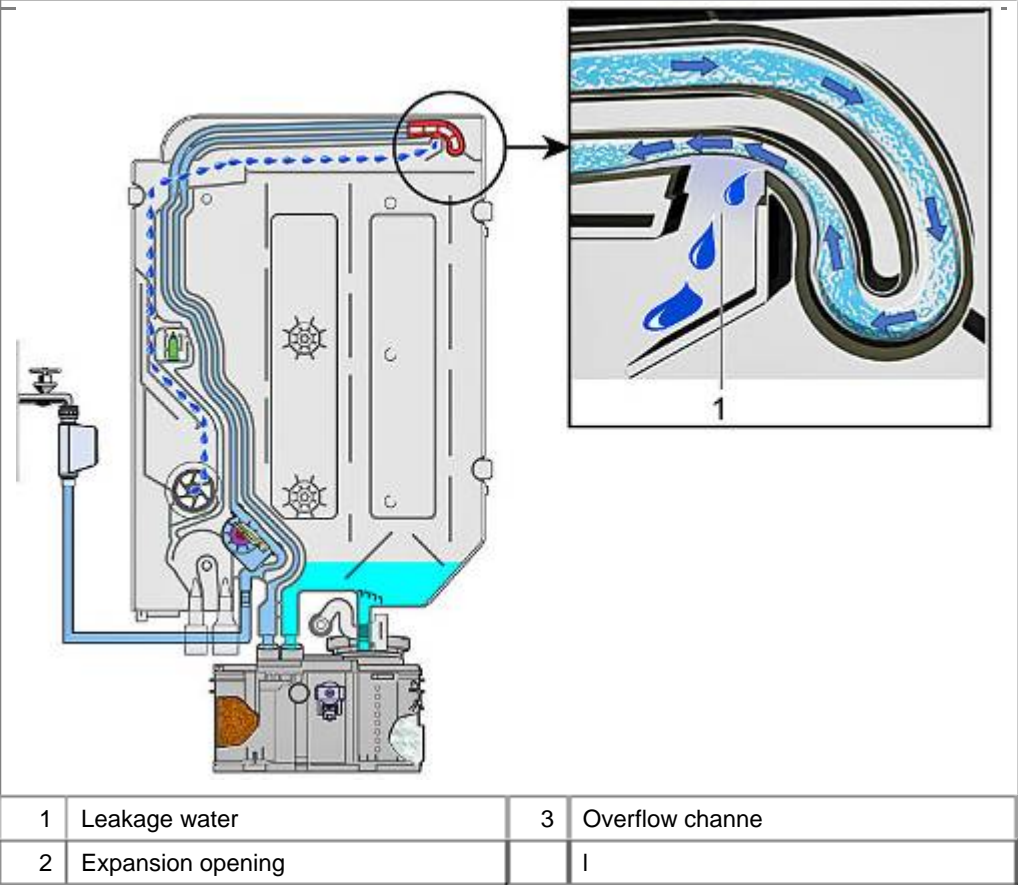
Reasons for too little water may be:

- ▶ – Water pressure / - flow too low (supply hose kinked, angle valve calcified, flow rate Aquastop)
- ▶ – Heat exchanger drainage valve leaking

5.1.5 Water pressure too low

There is a ventilation opening in the free flow section. Usually the water in the flow section flows past the opening.

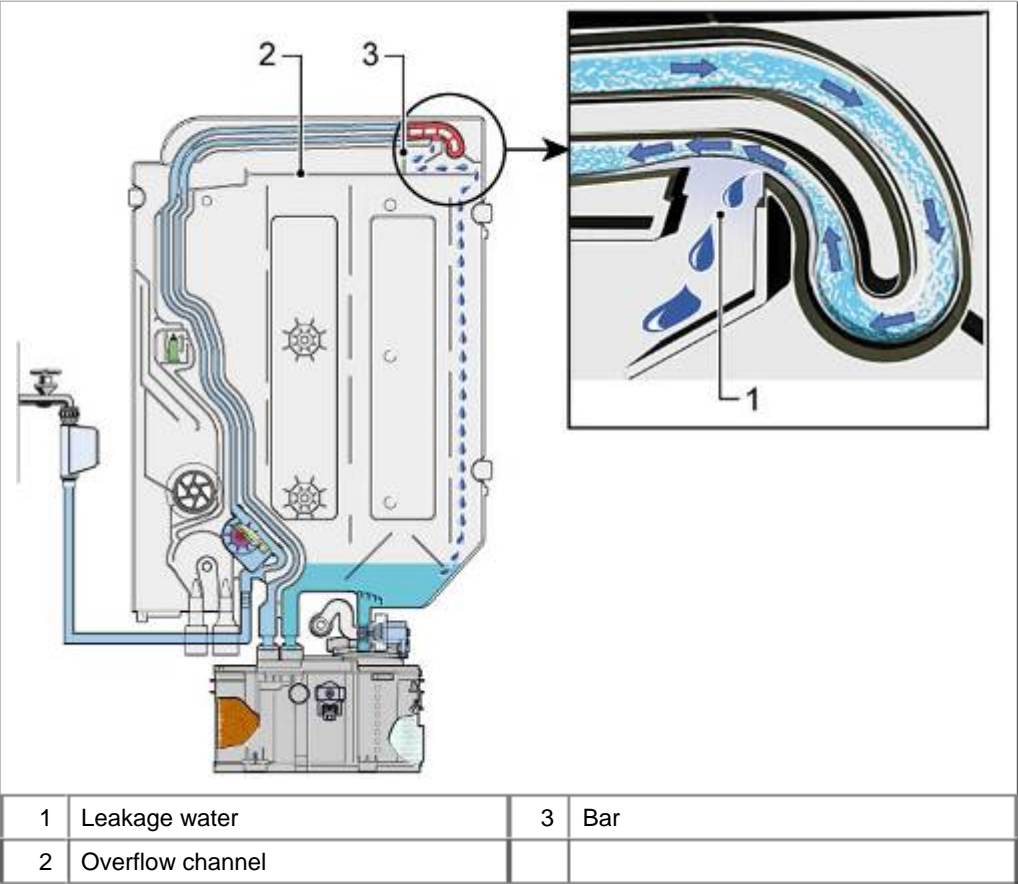
If the water pressure is so low that the impeller flow meter is just responding, the water no longer flows past the opening. Leakage water flows via the overflow channel to the expansion opening into the rinsing tank. The heat exchanger is not completely filled.



Since FD 8905 an additional barrier (bar) has been inserted into the over-flow channel of the heat exchanger. This barrier ensures that leakage water flows out of the free flow section into the heat exchanger.

Note: Water in the heat exchanger is therefore not softened. Lime-scale deposits on the utensils may be an indication of this.

New heat exchanger:



5.1.6 Heat exchanger drainage valve defective

If the drainage valve of the heat exchanger is leaking, the contents run prematurely into the rinsing tank. When drainage next occurs, the complete amount of water is not available in the tank.

The heat exchanger is filled during the wash cycle. The filling should be prewarmed and be available for the intermediate rinse or final rinse cycle.

5.1.7 Consequence

A filled heat exchanger is expected for the final rinse cycle (2.5 l of 3.1 l filling capacity). If water ran into the appliance for the reasons stated above, it was pumped out after the wash cycle.

The power consumption of the heating pump indicates whether there is too little water in the appliance. The programme continues running without heating and error E08 is stored.

In the worst case scenario the heating may function, but there is insufficient water in the appliance for adequate circulation. The appliance heats up, but the final rinse liquor does not completely reach the utensils. There is no pressure to wet and therefore to heat the utensils.

5.1.8 Diagnosis

- 1. Start customer service test programme and observe water inlet and filling of the heat exchanger.
- 2. Check heat exchanger drainage valve for leaks.

Remedial action:

- Provide adequate water supply pressure.
- Check shut-off valve.
- Check strainers in the Aquastop valve.
- Prevent kinked supply hose.
- Clean the drainage valve.

Removing/installing the appliance

5.1.9 Required tools

Tools:	Material number:
Special tool for threaded ring on the salt dispenser; cover on the expansion opening; exhaust air channel, water storage tank, water inlet bolt.	341805

5.1.10 Removing water

- ▶ To drain the heat exchanger and water storage tank, start any programme. After checking the water impeller turn off the tap. Heat exchanger and water storage tank are drained. Then reset to pump out the residual water.
- ▶ Using the suction syringe, remove remaining water from the pump sump.



Dish washer with zeolite additional heating system

- ▶ With devices with zeolite additional heating system must be taken residual waters out of the equipment inside. Equipment residual water into the zeolite container, can be destroyed the material contained in it.

5.2 Testing/replacing the door sensor

Requirement:

- ▶ Outer door removed.
- ▶ Fascia removed.
- ▶ Right side panel removed.

5.2.1 Measuring the voltage

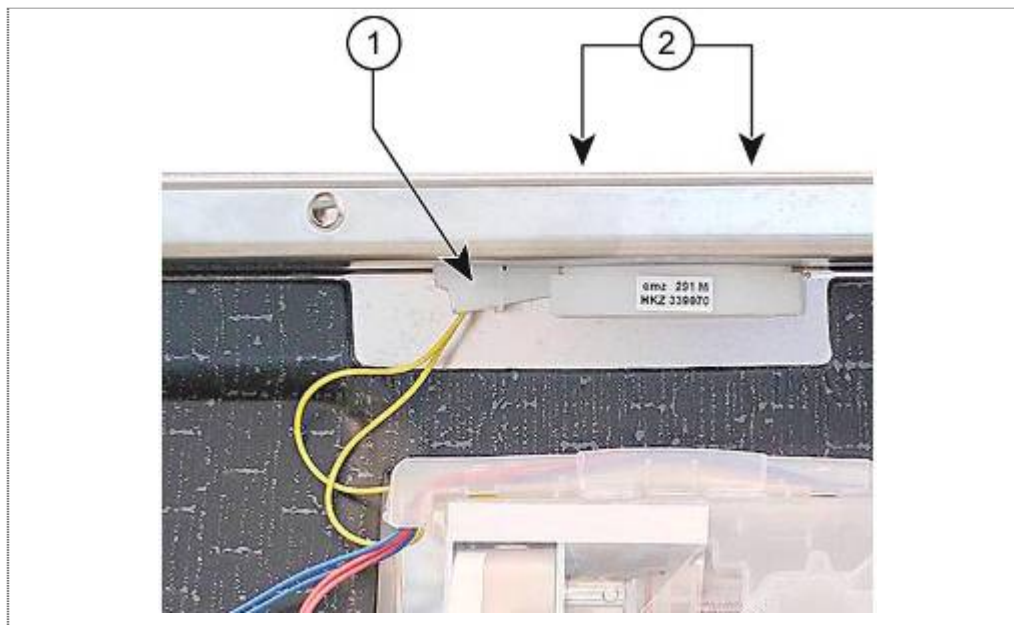
- ▶ Very carefully remove the plug from the door sensor. Do not pull on the wires.
- ▶ Measure voltage on both contact of the power cord.
- ▶ If 13.5 V DC is supplied to door sensor, the power module and the connection cable works properly -> replace door sensor.
- ▶ If this voltage is not applied, measure the voltage on the power module.
- ▶ No voltage -> replace power module.
- ▶ Voltage available -> measure resistance of the connection cables between power module and the connections of the component. Rectify interruption.



Measure voltage on the module

- ▶ When the plug is connected, the supply voltage can be measured from the front on the two yellow wires on the power module. When the plug is removed, the main switch is inoperative.

5.2.2 Removal



3. Door sensor.
4. Loosen the two Torx 10 screw on the side of the door closure recess.



Panel of door closure recess

- ▶ The panel of the door closure recess may become detached when the door sensor is removed. Hold firmly.

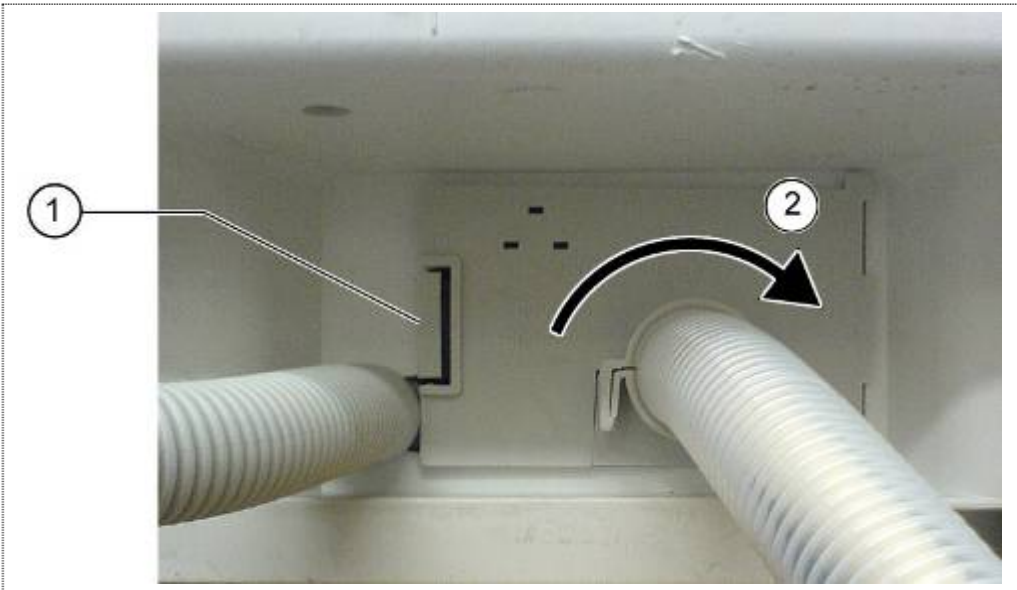
5.2.3 Installation

Installation is in reverse sequence.

The plugs are coded.

Nominal voltage:	110V
Frequency:	60 Hz
Resistance:	$550\ \Omega \pm 10\%$

5.6 Testing Aquastop valve electrically



- 1. Loosing locking lever
- 2. Fold the Cover with the inlet hose outward.

Technical specifications EU:

Nominal voltage:	220 ~ 240 V
Frequency:	50/60 Hz
Resistance:	4.2 kΩ ± 1 KΩ

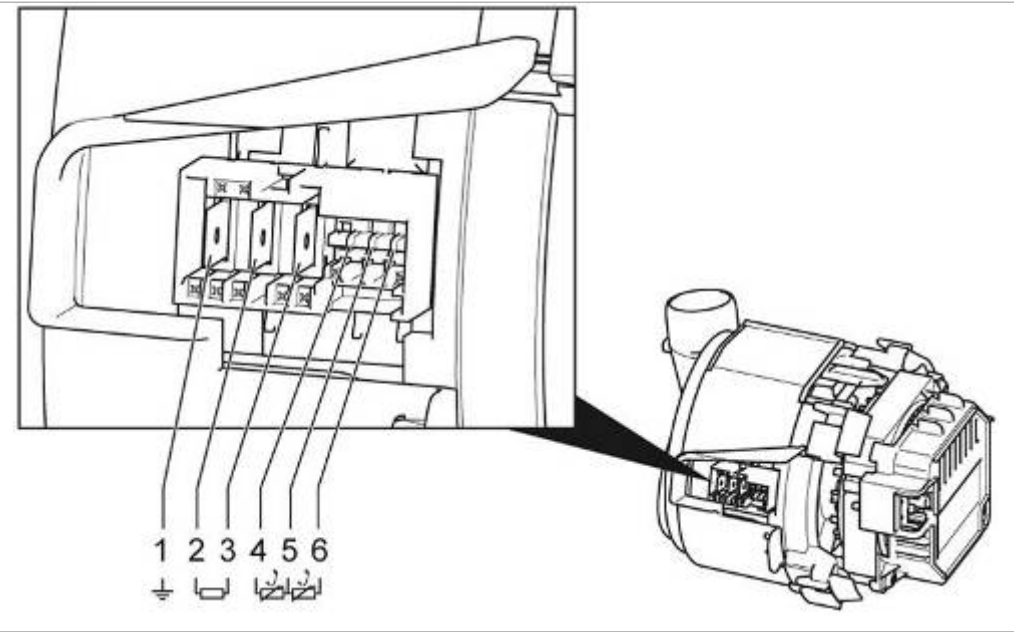
Technical specifications TC / USA:

Nominal voltage:	110 ~ 127 V
Frequency:	60 Hz
Resistance:	990 Ω ± 50 Ω



- 1. Disconnect plug-and-socket connection and measure the resistance.

5.7 Testing the heating pump



5.7.1 Measuring the heater resistance

The heater resistance is measured on the heating contacts of the heating pump.

Measured values when heater intact EU:

Contact 2 – 3:	approx. 19 Ω ± 2 Ω
----------------	--------------------

Measured values when heater intact TC / USA:

Contact 2 – 3:	ca. 8,9 Ω ± 2 Ω
----------------	-----------------

5.7.2 Measuring NTC resistance

The NTC resistance value is measured on the heating contacts of the heating pump.

Measured values when NTCs intact and at 25 °C:

Contact 4 – 5:	approx. 10 KΩ ± 1 KΩ
Contact 5 – 6:	approx. 10 KΩ ± 1 KΩ
Contact 4 – 6:	approx. 20 KΩ
Measured at 25 °C	



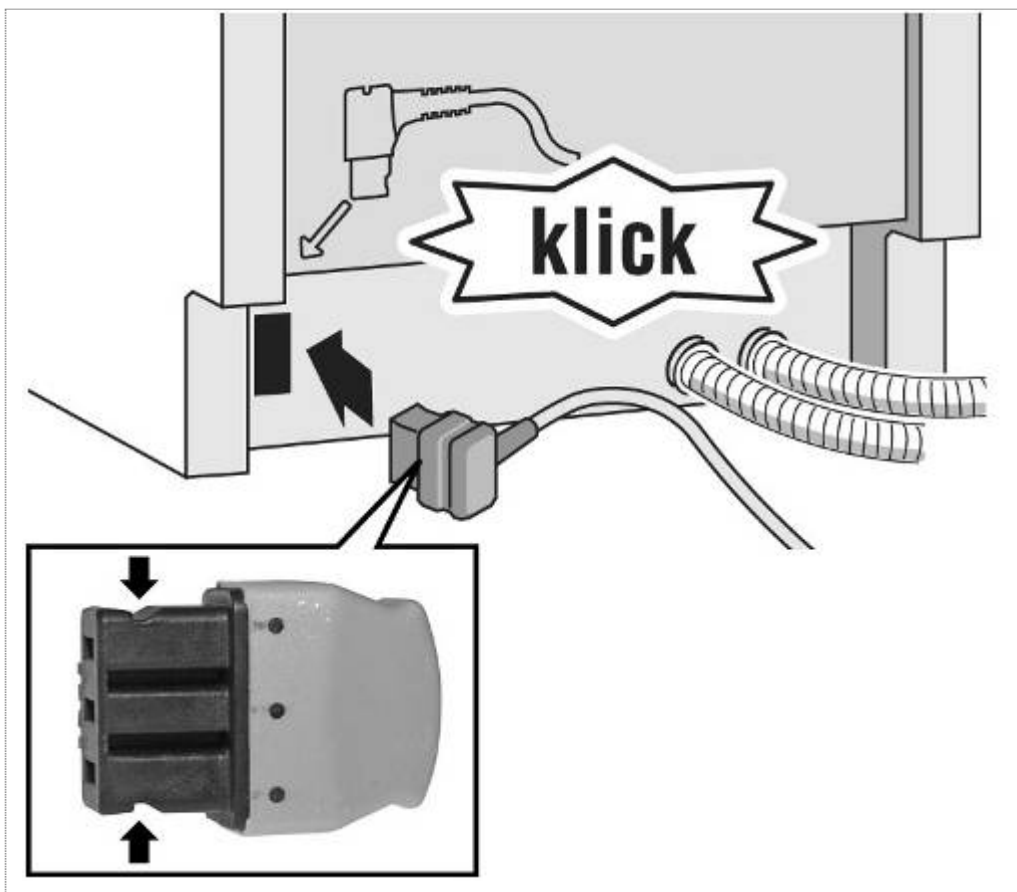
Resistance measurement of the NTCs

- The measurement of the NTC must result in a symmetrical value.

5.10 Power cord

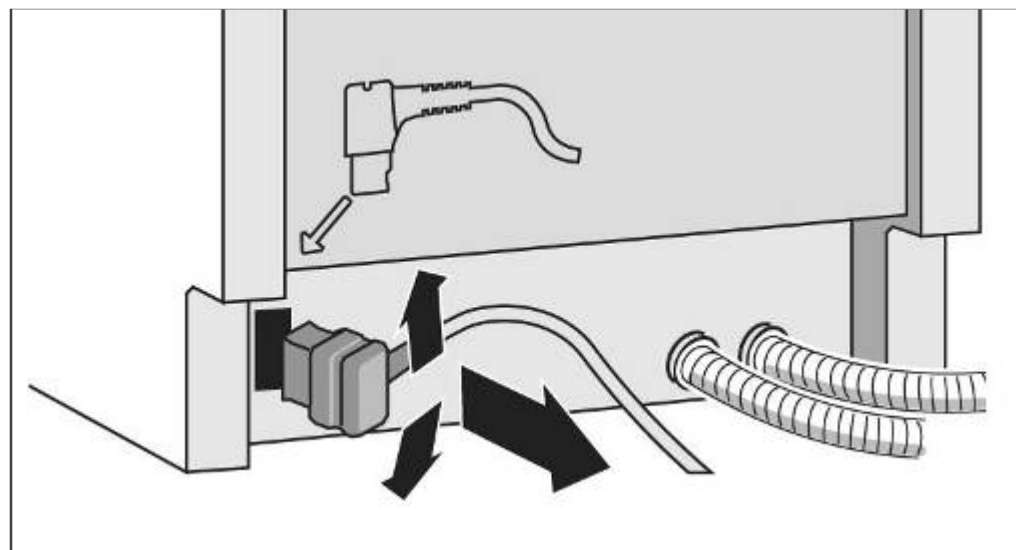
2 strong catch mechanisms on the sides prevent the plug from becoming loose or coming out of the appliance.

5.10.1 Installation

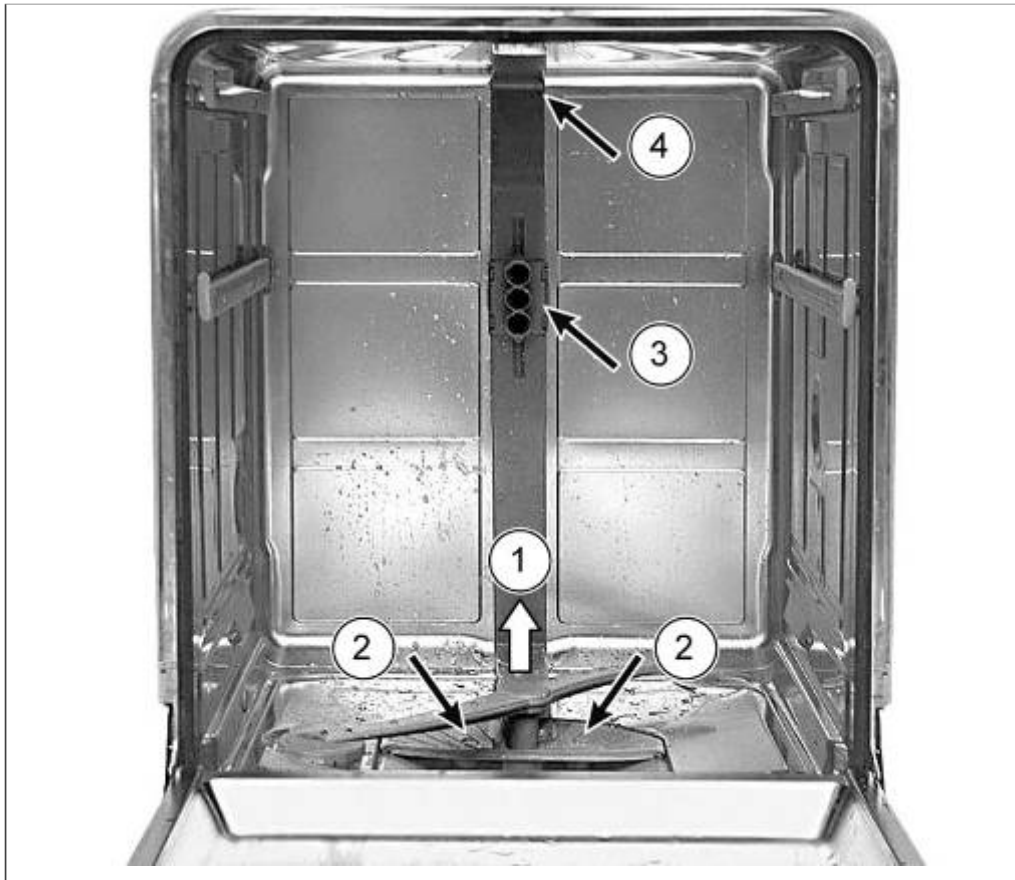


5.10.2 Removal

Disconnect the power cord from the appliance by carefully moving it up and down (not sideways!!) and simultaneously pulling the appliance plug.



5.11 Replacing feed pipe



5.11.1 Removal

2. Tug the lower spray arm slightly and pull off the feed pipe.
3. Unscrew both Torx screws on the pump sump.
4. Loosen catch mechanisms in the area of the coupling point.
5. Carefully loosen top catch mechanisms on the roof sprinkler (optionally) using a small flat-blade screwdriver.

5.11.2 Installation

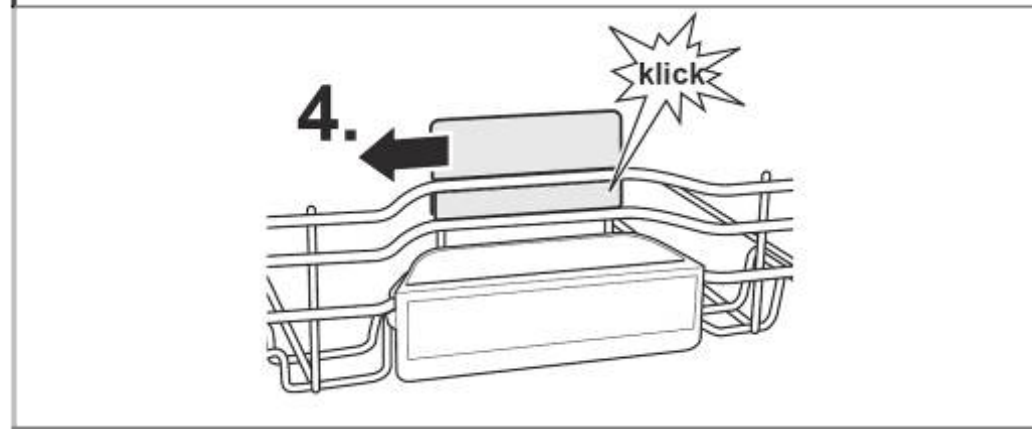
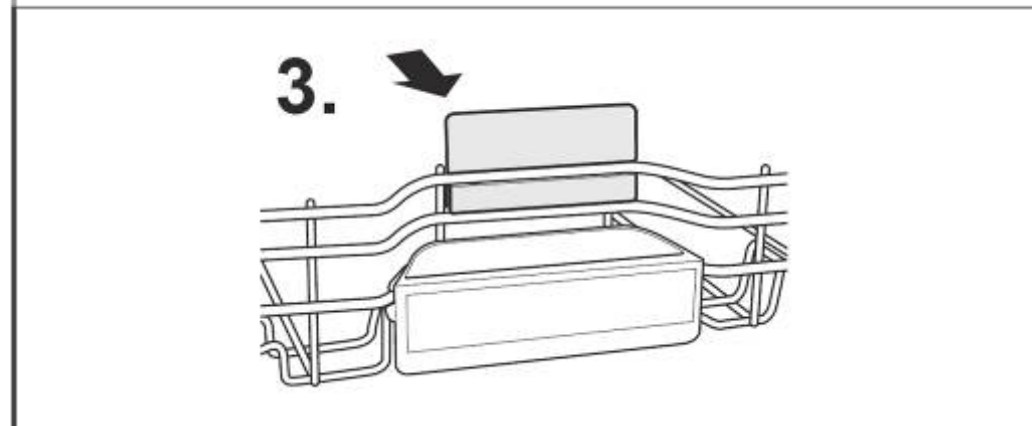
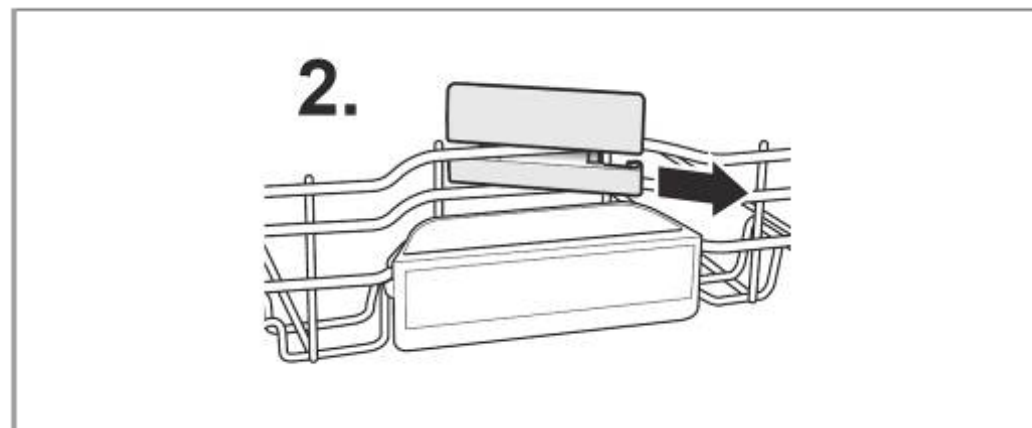
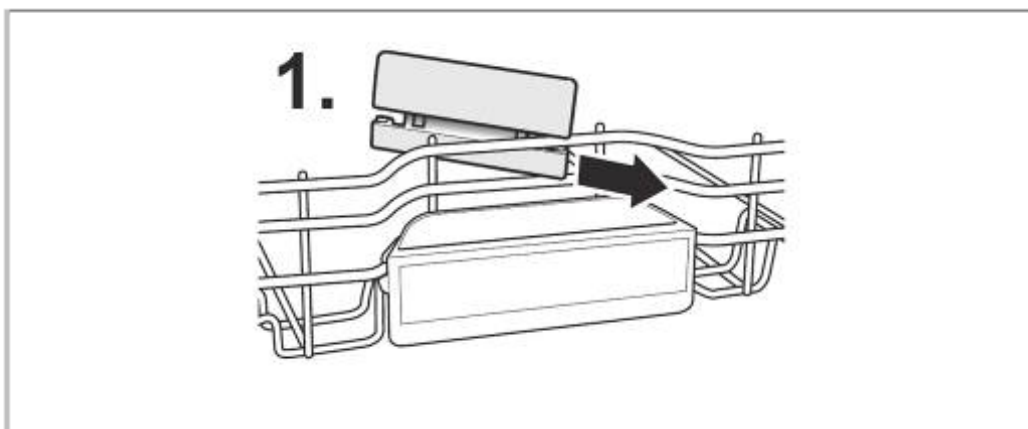
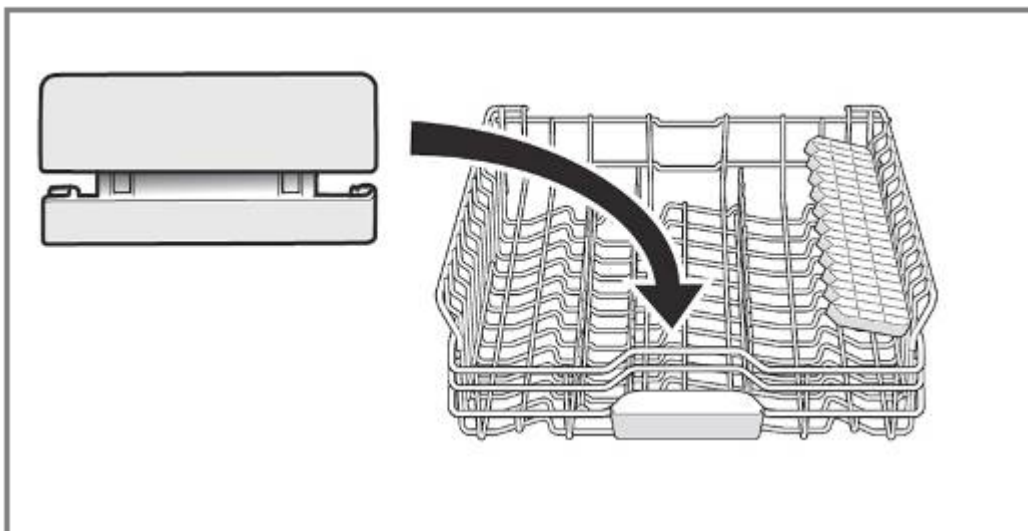
Installation is in reverse sequence.



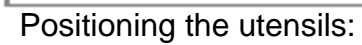
5.13 Installing optional elements in the baskets

Optional elements can be fitted in the baskets.

5.13.1 Tablet chute 86 cm model 614935

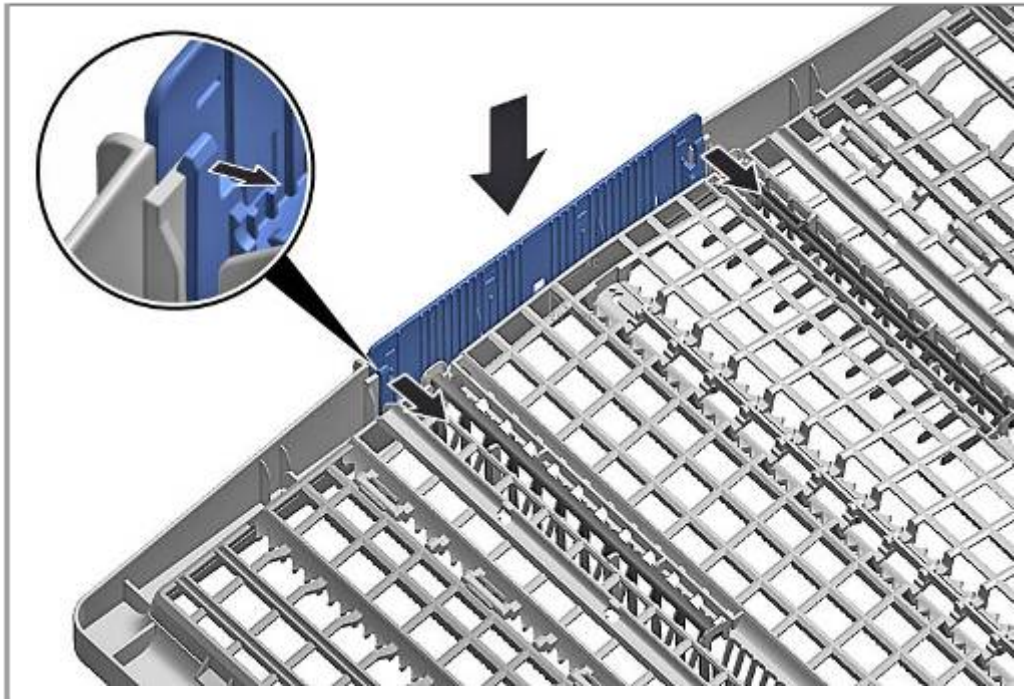


If top baskets feature optional plastic inserts, these must be removed first.



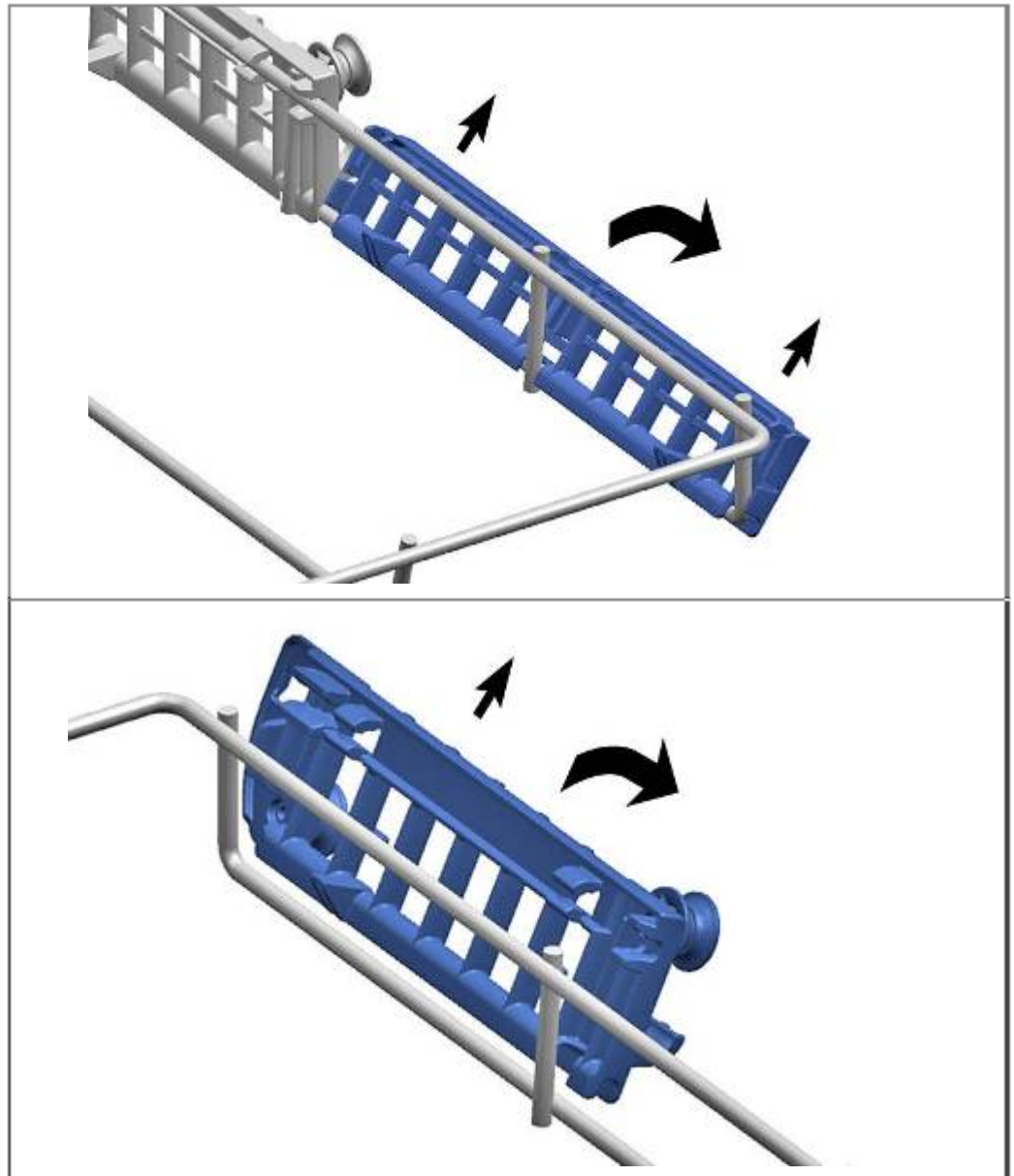
5.13.4 Setting up vario cutlery drawer plus – optional from 10/2011 on

Only the disassembly of flexible elements of the vario cutlery drawer plus is shown. The assembly takes place in reverse order. Plastic parts are to be engaged evenly and examined for tightness. Remove handle:



Bend latches inward.
Remove handle upward.

Press the lateral plastic inserts outward.
Pull it upward from the framework.



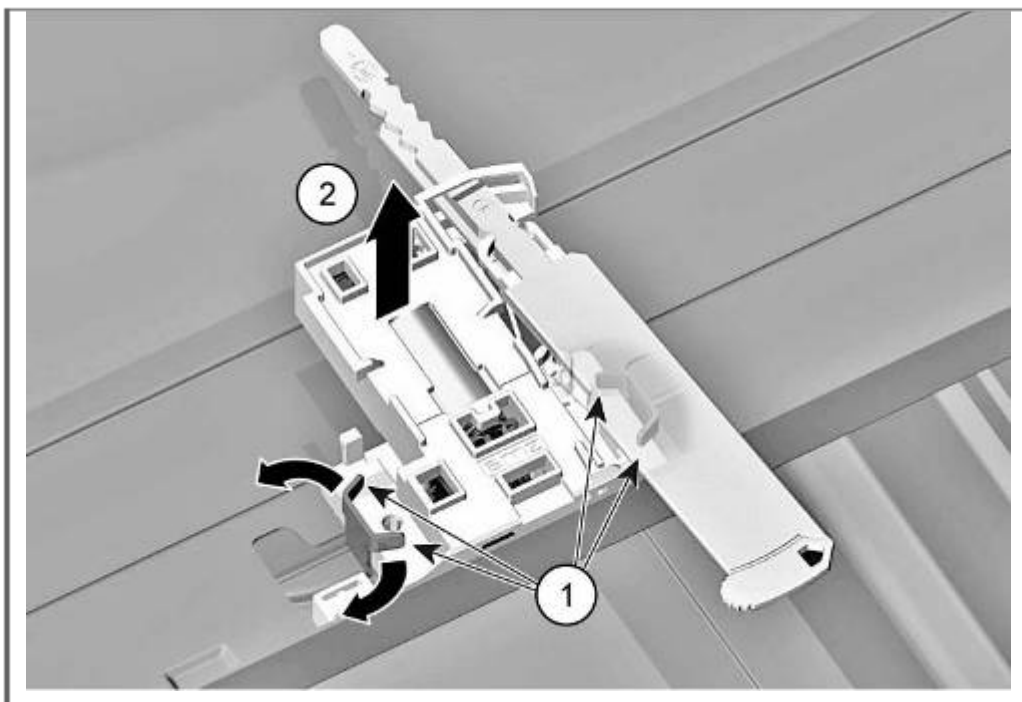
A 3D perspective view of a mechanical assembly. A blue rod with vertical pins is being inserted into a grey grid-like structure. A black arrow points upwards, indicating the direction of movement. A circular inset in the top right corner provides a magnified view of the rod's end, showing a blue pin and a grey component with a black arrow pointing to the right.

5.15 Replacing / resetting door lock

Requirement:

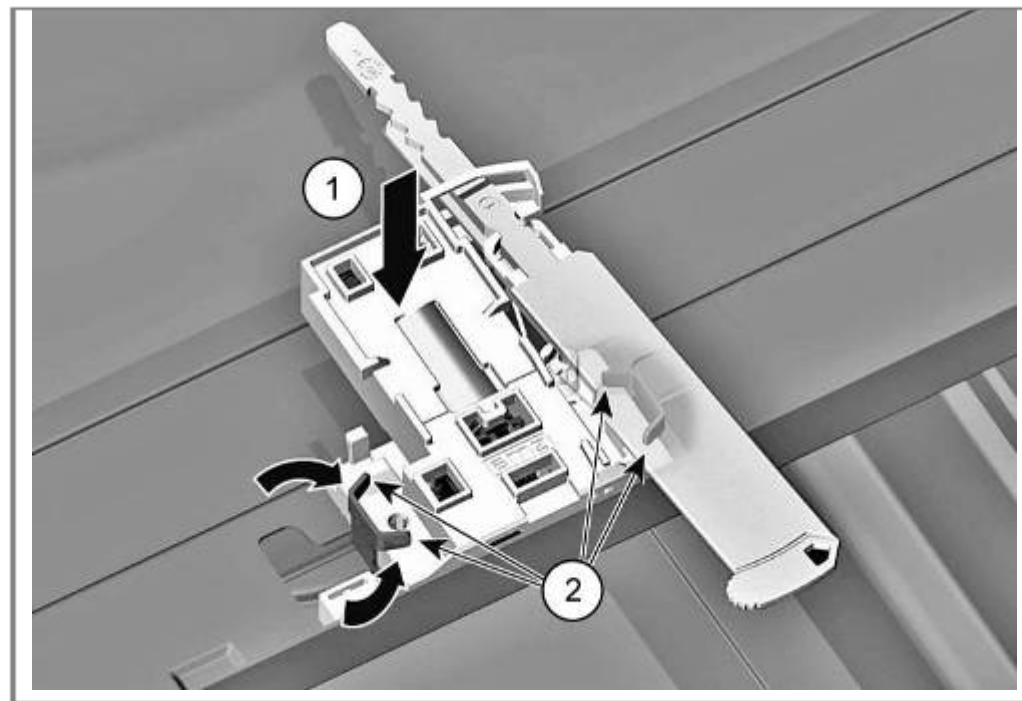
- ✓ Worktop removed or
- ✓ appliance pulled out as far as rinsing tank frame.

5.15.1 Removal



1. Straighten metal brackets on right and left of the door lock.
2. Lift off door lock.

5.15.2 Installation



1. Insert the new door lock.
2. Bend in the two metal brackets again to secure the door lock.

5.15.3 Reset

If the snap lock is locked manually (if required when using the transparent diagnosis door), the system must be released again. To do this, close the door firmly.

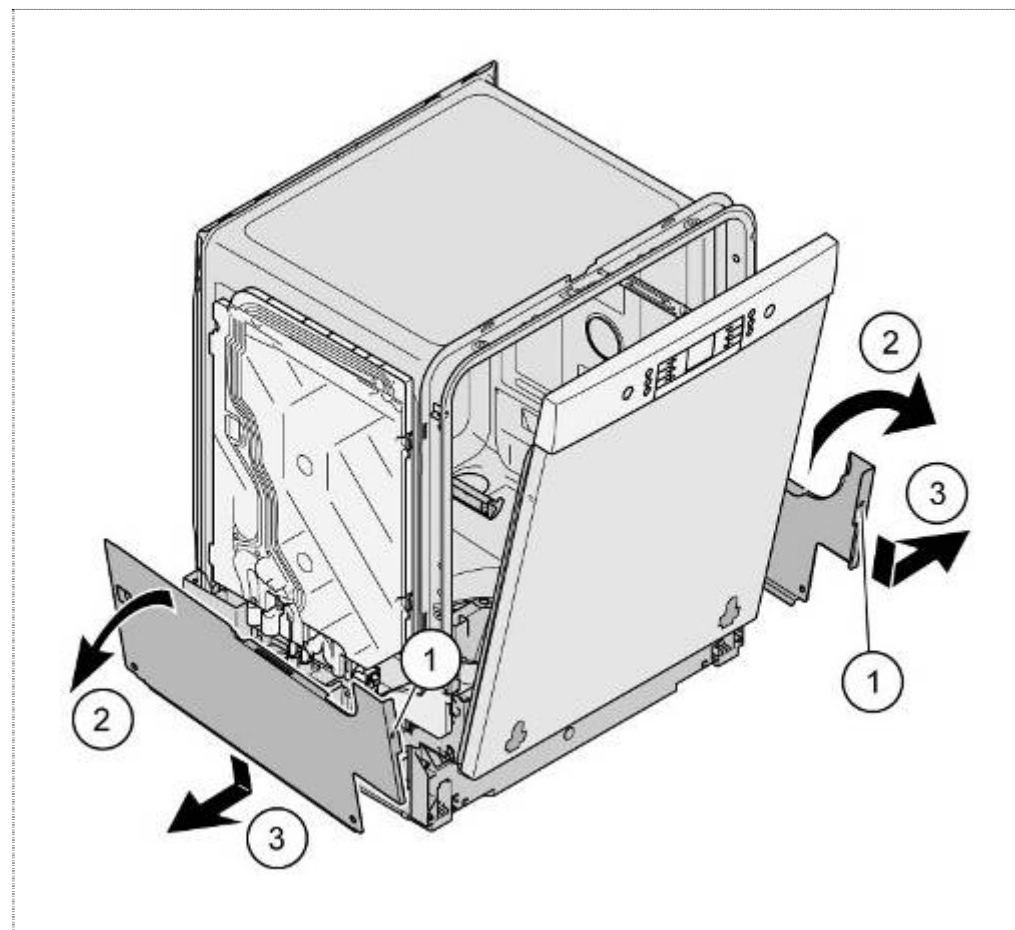
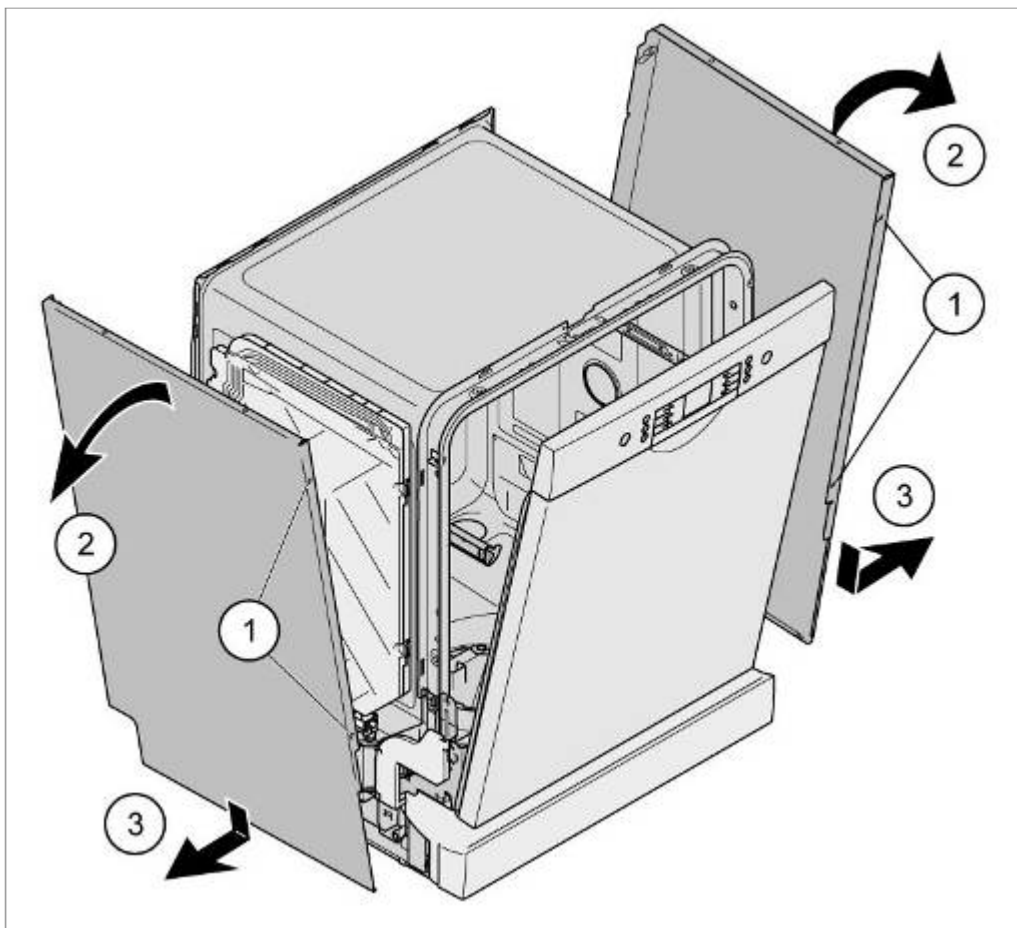


A strong mechanical resistance must be overcome!

5.16 Replacing side panels

Requirement:

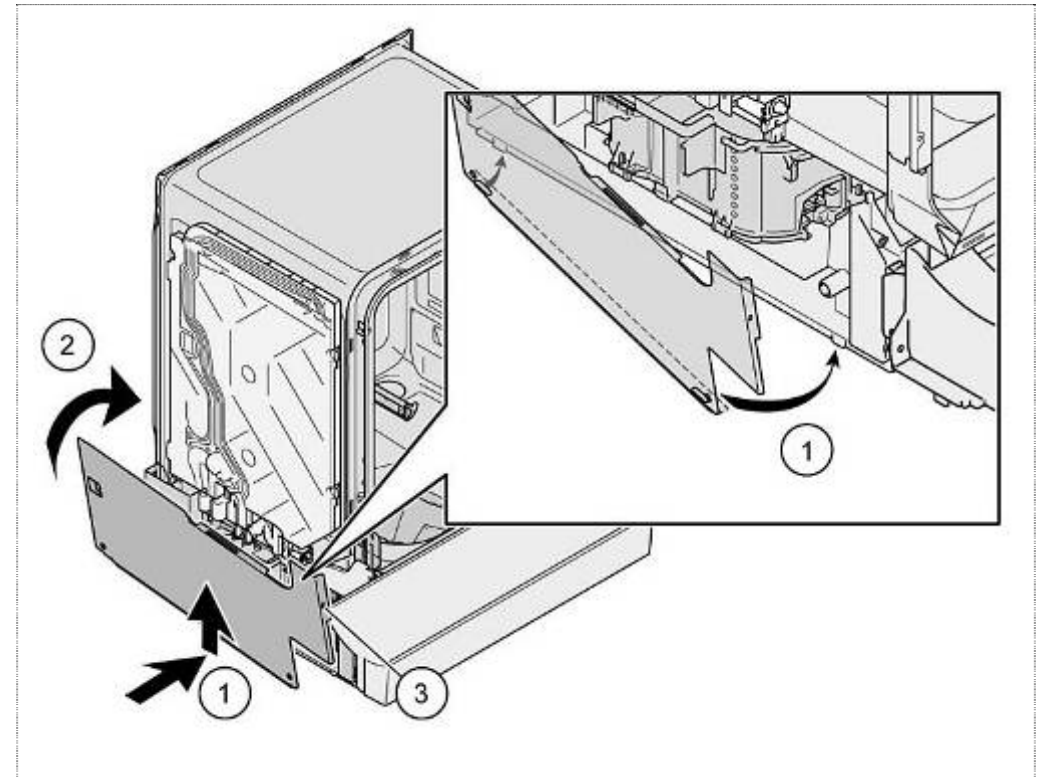
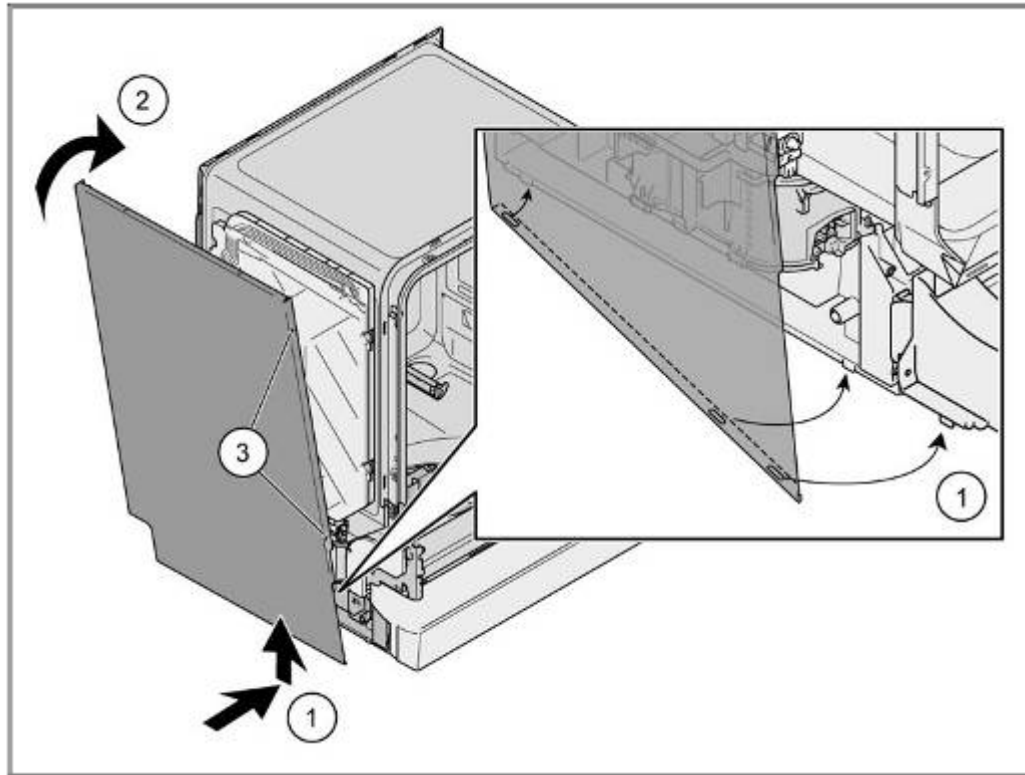
- ✓ Remove worktop (if fitted).



5.16.1 Removal

1. Loosen screws of the side panel on the front side.
2. Fold out the upper side of the side plate.
3. Push down the side panels and detach from the retaining lugs of the base pan.

5.16.2 Installation



Installation

1. Attach the side panel to the catches of the appliance underside.
2. Press evenly onto the appliance.
3. Screw together side wall.



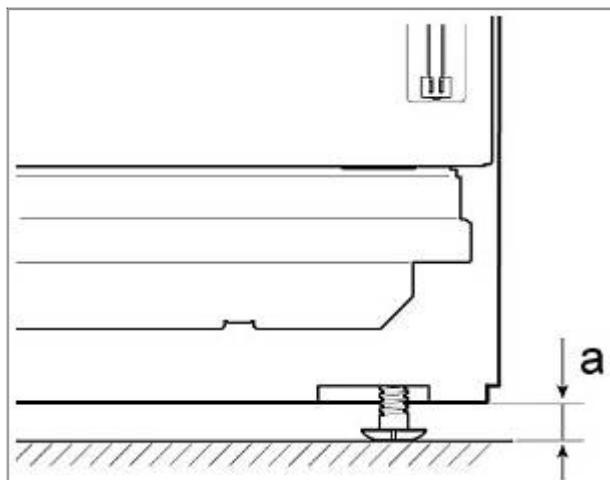
5.18 Variable hinge – installation, optional



Note Installation height

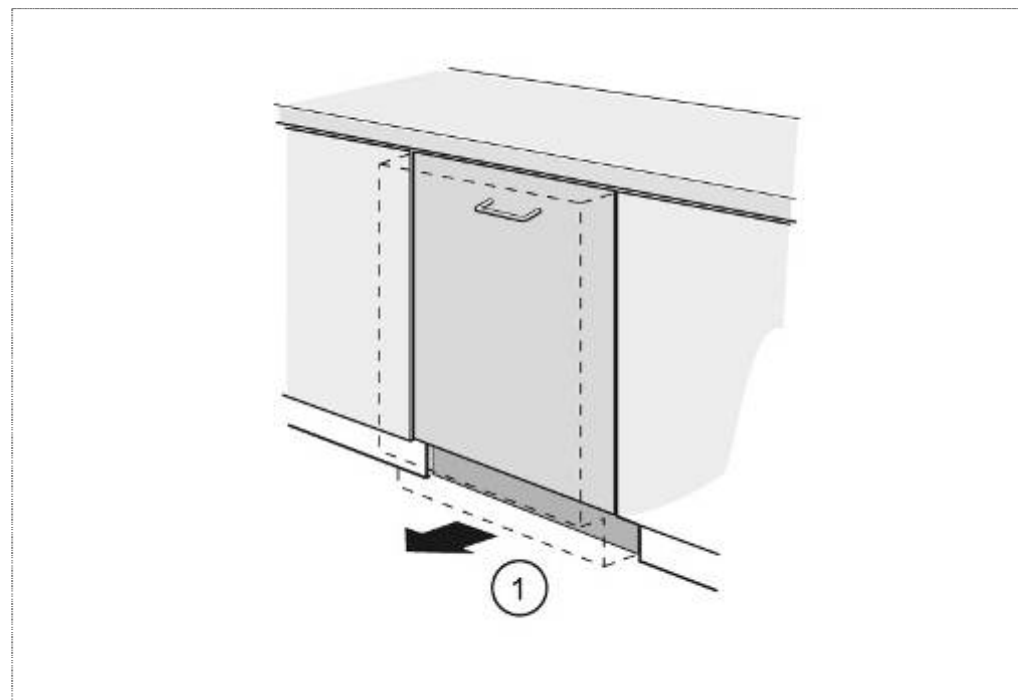
- ▶ Before pulling the dish washer out of installation mark the installation height. (e.g.: distance (a) between floor to lower edge of the dish washer).
- ▶ The equipment must be aligned in the same height before assembly the furniture front

Example:



5.18.1 Removal

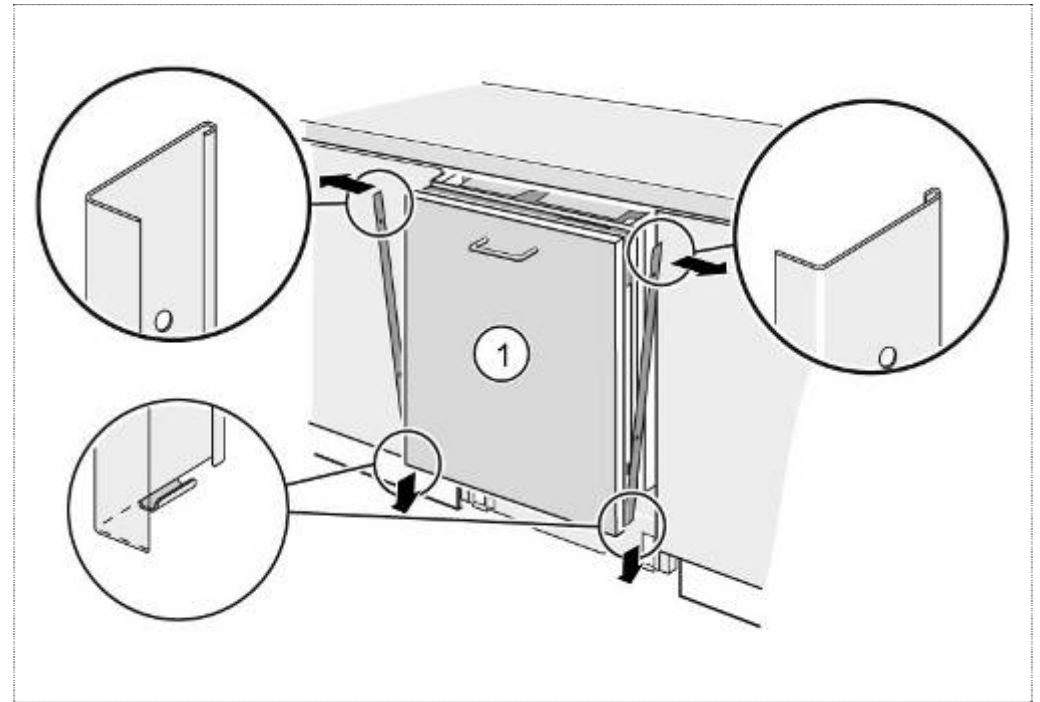
Requirement: base panel removed



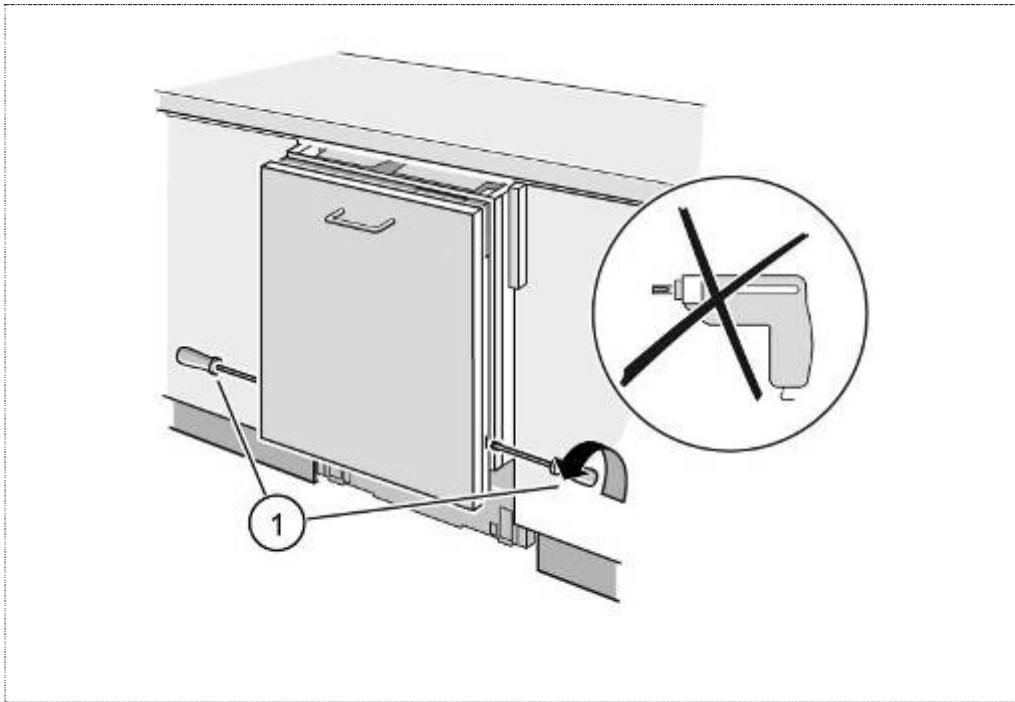
1. Pull appliance out of the installation cavity.



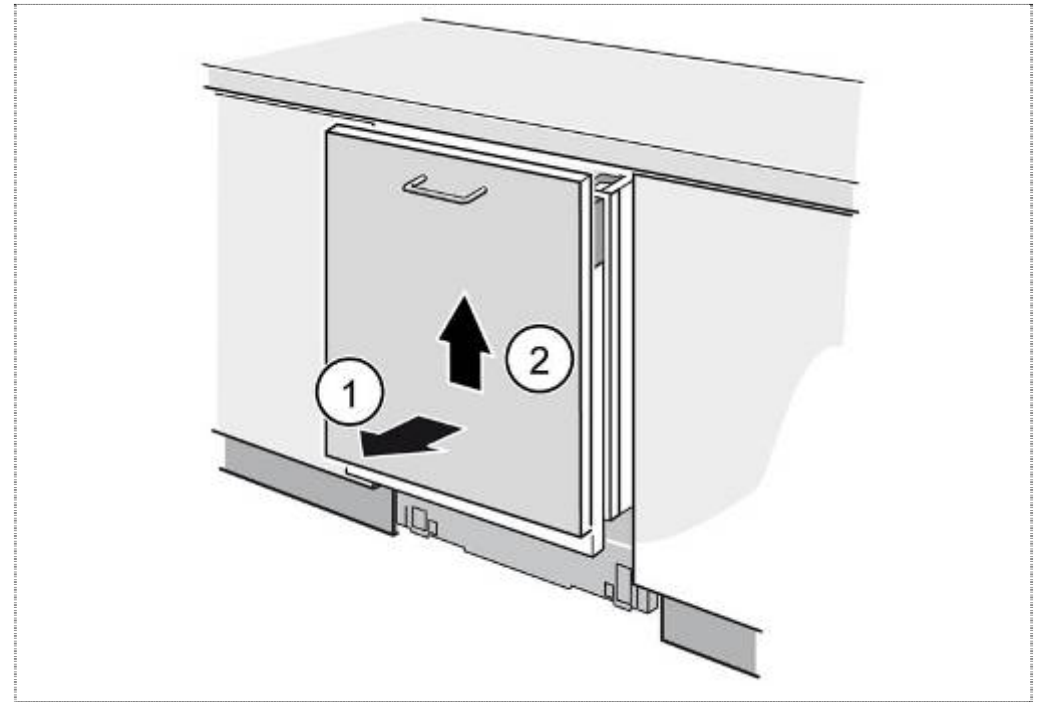
1. Remove 4 screws.



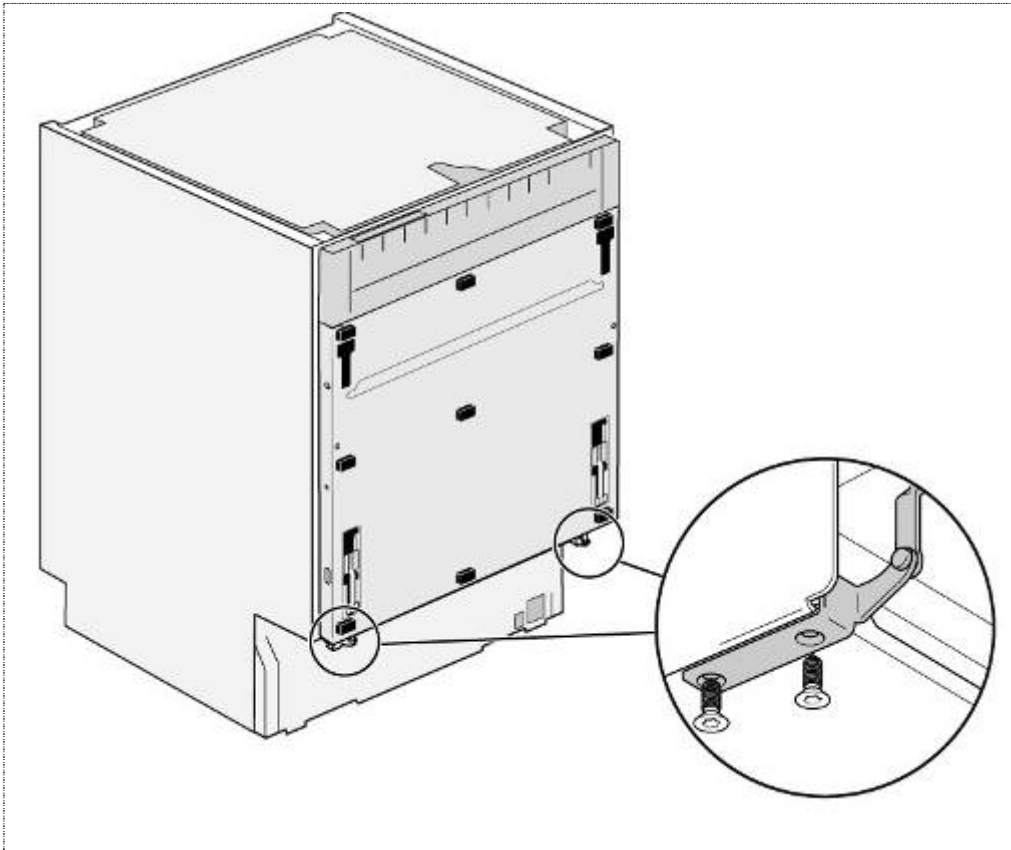
1. Remove both chrome strips.



1. Loosen lock screws (3 ~ 5 rounds).



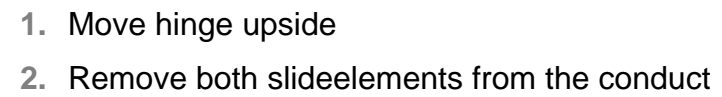
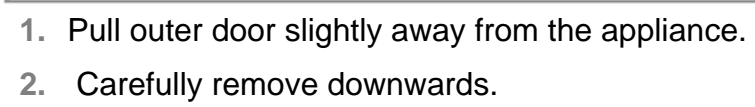
1. Raise furniture door and
2. push it upwards till the upper slide is out of the guide.

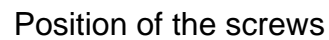
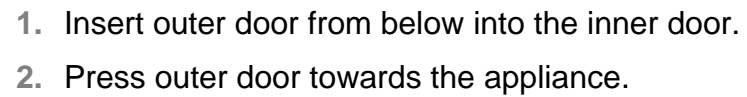
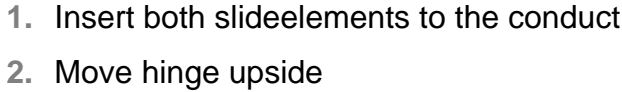


1. Remove screws.

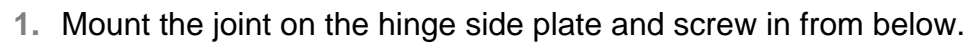


1. Remove 6 housing screws from the front door.





- ▶ When reusing the sliding elements observe the correct screw position the structure (see chapter: Mounting furniture journal)
- ▶ Make sure that the upper and lower sliding elements slide in the metal outer door correctly



Installation

- Make sure that the joint is properly inserted into the nose with the hinge.

2. Screw from below



Screws

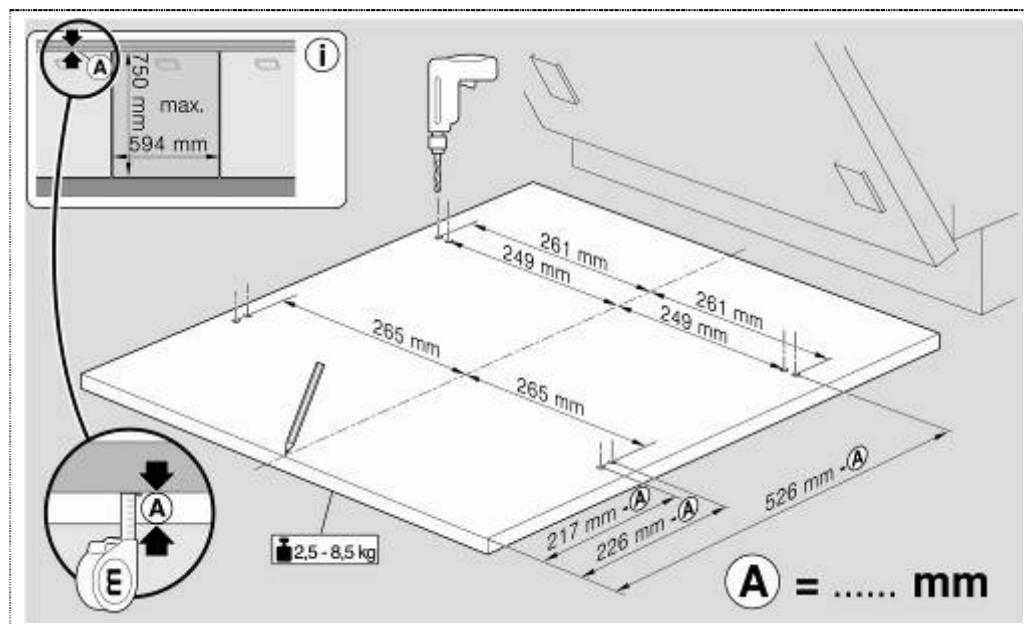
- Use 4x11mm screws.

1. Assemble outer door with 6 housing screws.

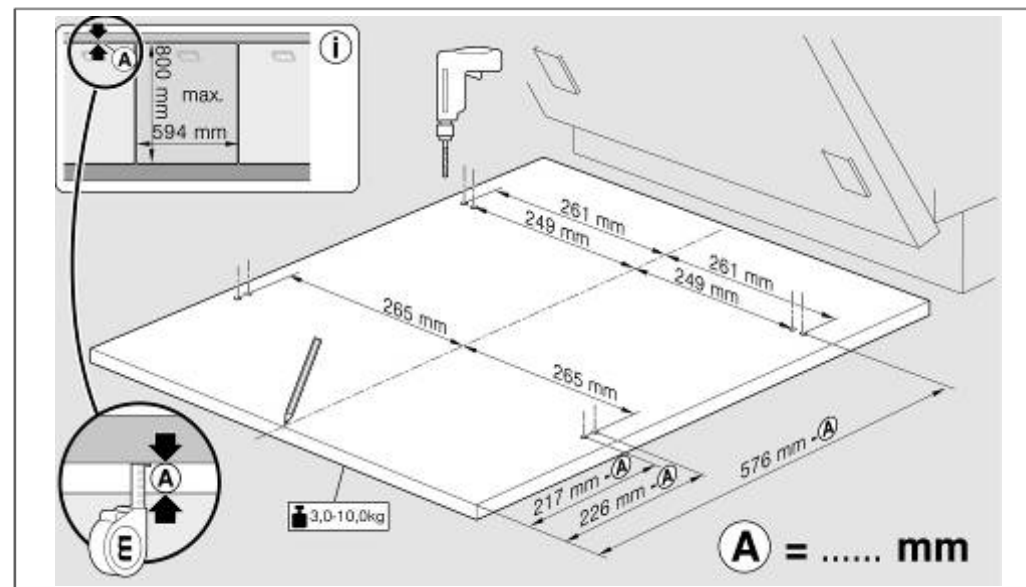
5.18.3 Installing furniture door

When installing the door for the first time, attach the 4 retaining elements to the furniture door as described in the installation instructions.

Dimensions for 81 cm models:



Dimensions for 86 cm models:



1. Mark installation points exactly with 2 mm drill bit attach 4 retaining elements exactly.

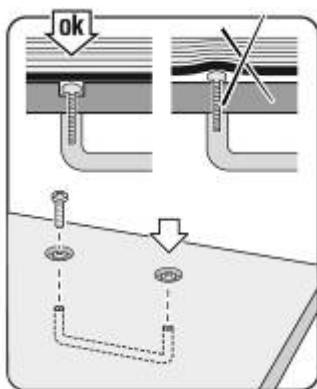


CAUTION

Incorrect marking and attachment!

Destruction of the furniture door

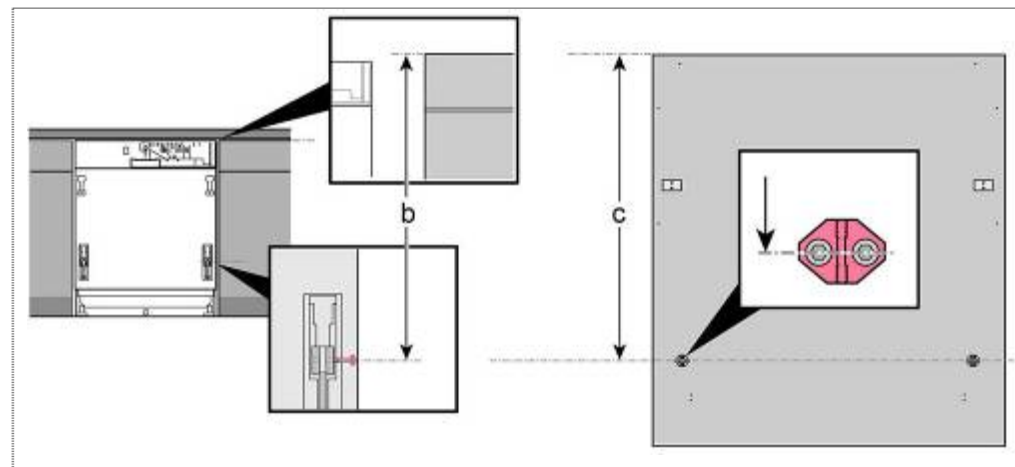
- The attachment points of the retaining element must be observed exactly. If the 4 retaining elements are attached unevenly or slanted, the furniture door may jam when it is being opened or closed.
- The screw fittings of the hand grip must always be countersunk.



Countersink screw fittings of the hand grips.

To ensure the the correct assembly height, the measures **(b)** and **(c)** must agree.

Condition: Equipment correctly aligned



The distance **(b)** from the upper edge of the neighbouring front to the clamping screw of the glider must correspond to the distance **(c)** from the upper edge of the furniture sheet up to the middle of the connection clip.



Tolerance

- Disagree the dimensions, the height of the connection clip must be adapted!

(Primary system)

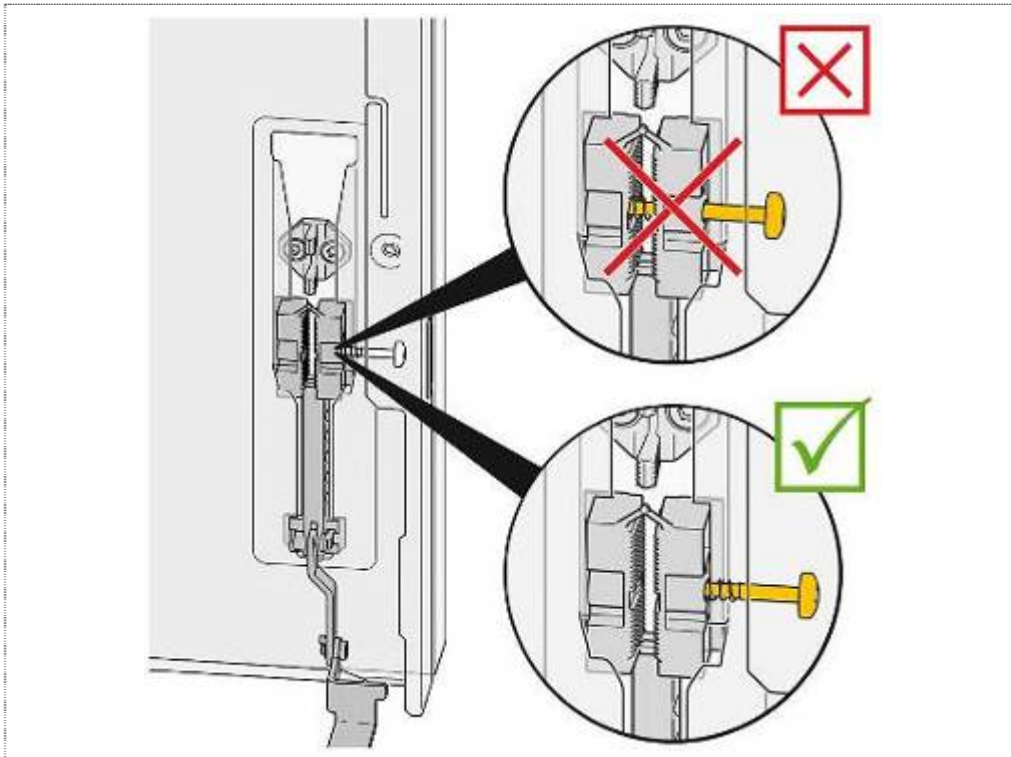


Incorrect position of the locking screws!

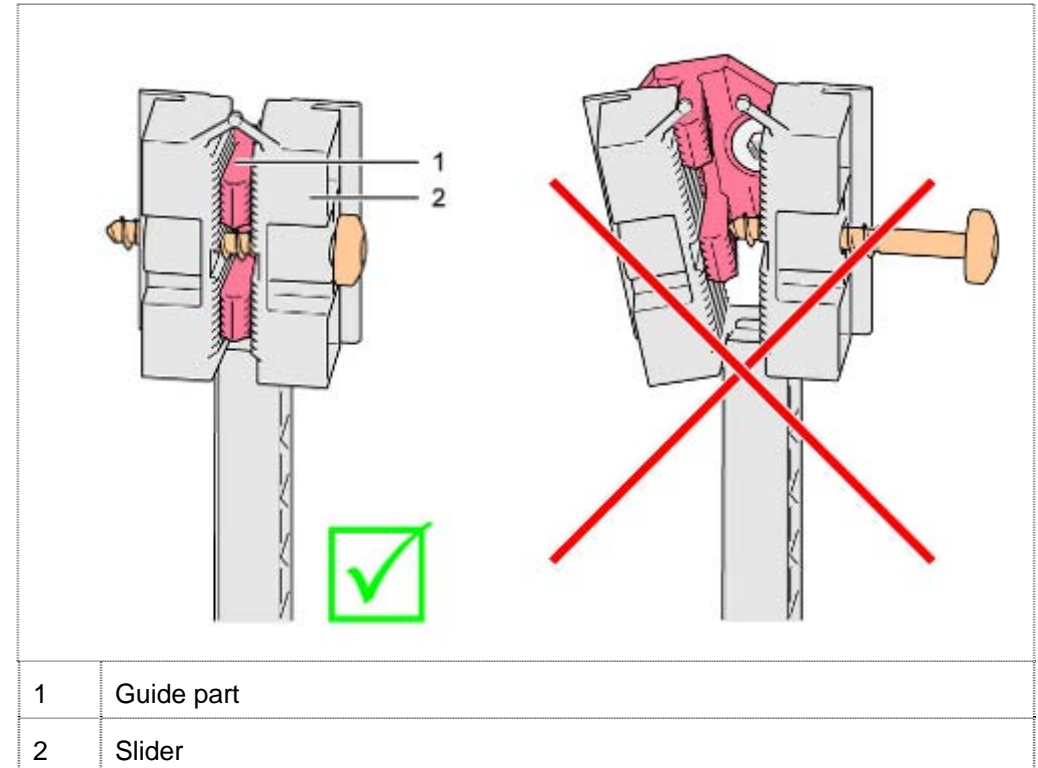
Destruction of the retaining elements or the sliding elements on the articulated joints.

- The locking screws must be unscrewed a long way before the furniture door can be attached. The receiving gap in the sliding elements must be free to prevent the retention lugs from catching or being blocked.

CAUTION

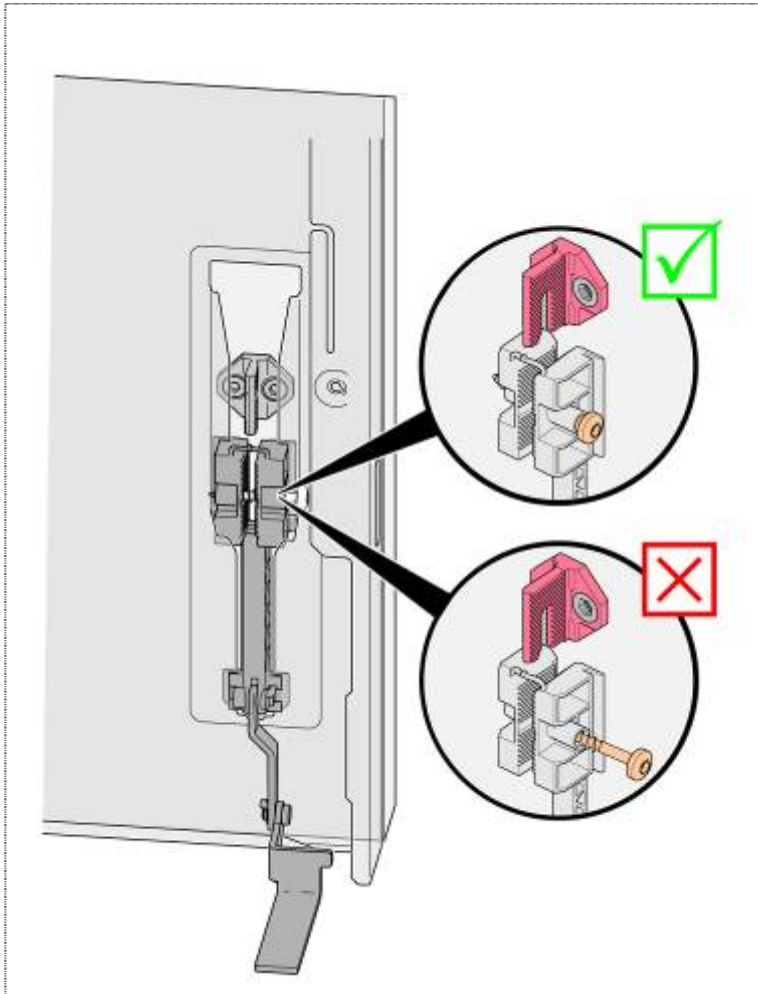


Check the locking screws. The guide part cannot be positioned securely unless the gap between the sliding elements is free. The screws must be unscrewed far enough.



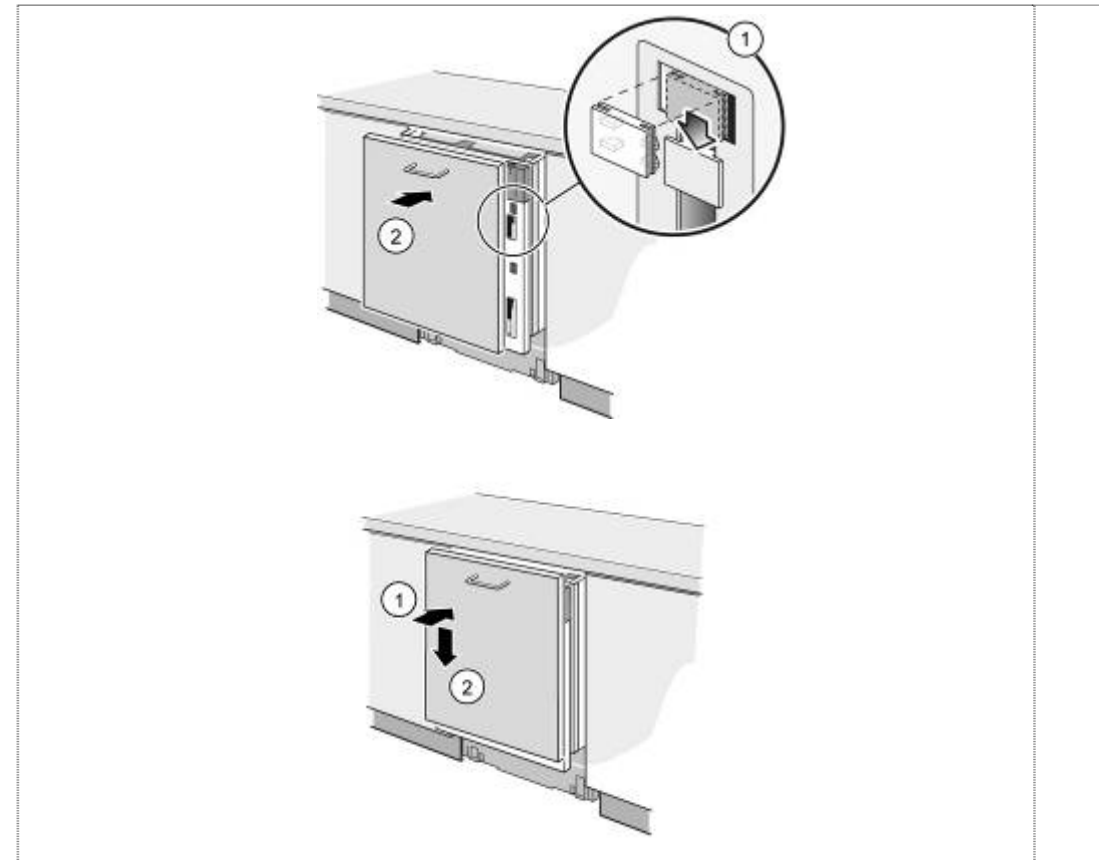
The guide part has to be positioned in such a way in the sliding elements, that the locking screw is in the centric recess.

**From FD 9205 on
(Modified system)**



The screw must be screwed in, but not fixed.

For all FD:



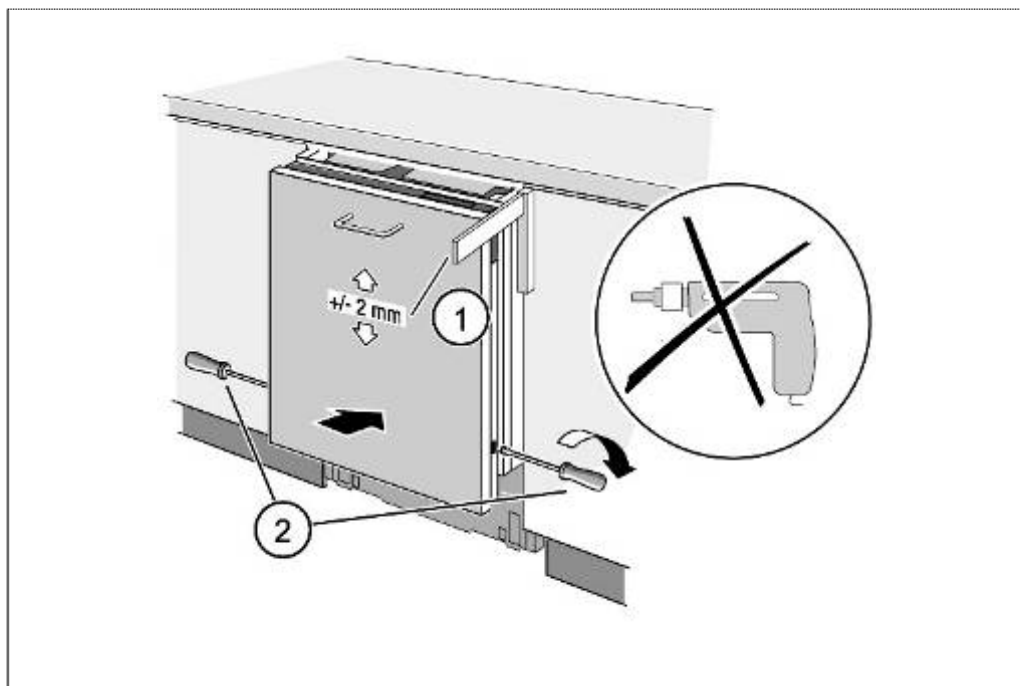
1. Insert sliding elements correctly into the guides.
2. Press furniture door onto the outer door. Carefully lower furniture door as far as the stop.



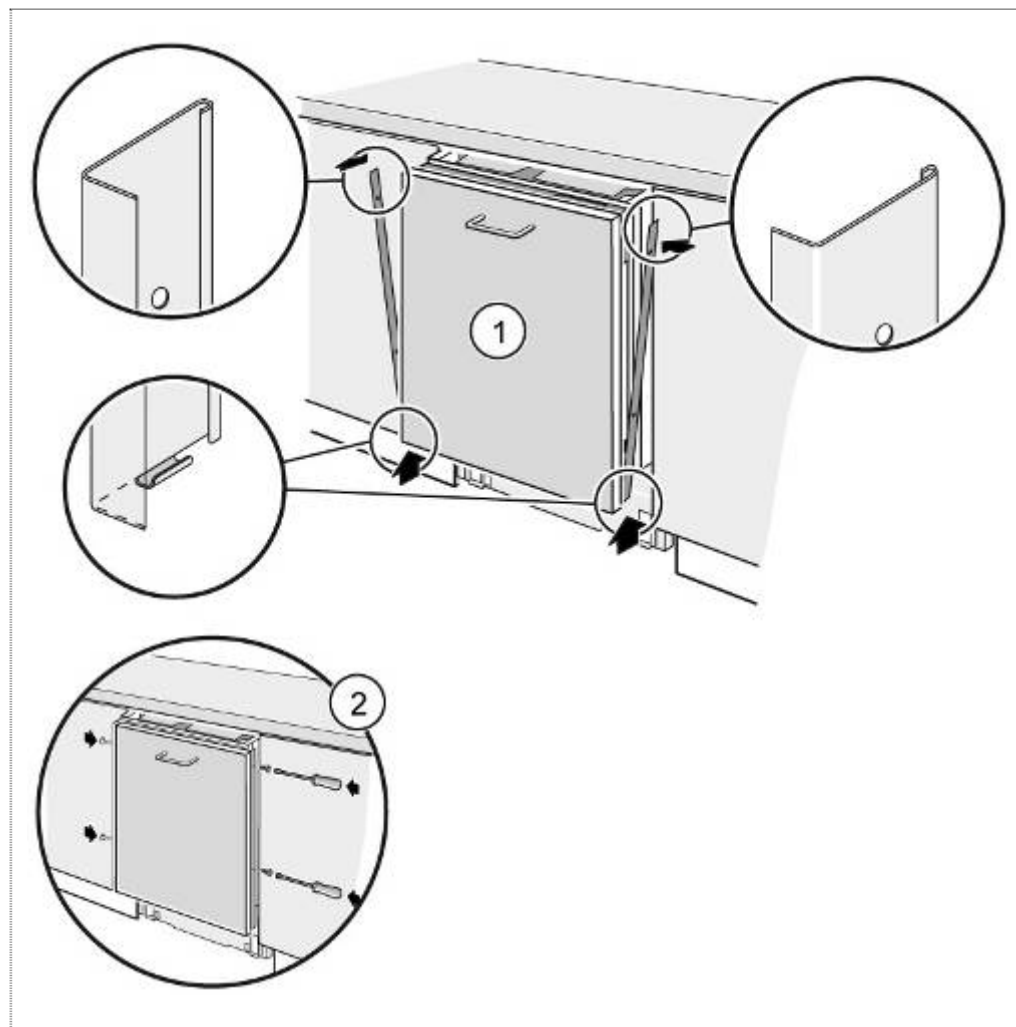
VORSICHT

Mounting by using screws

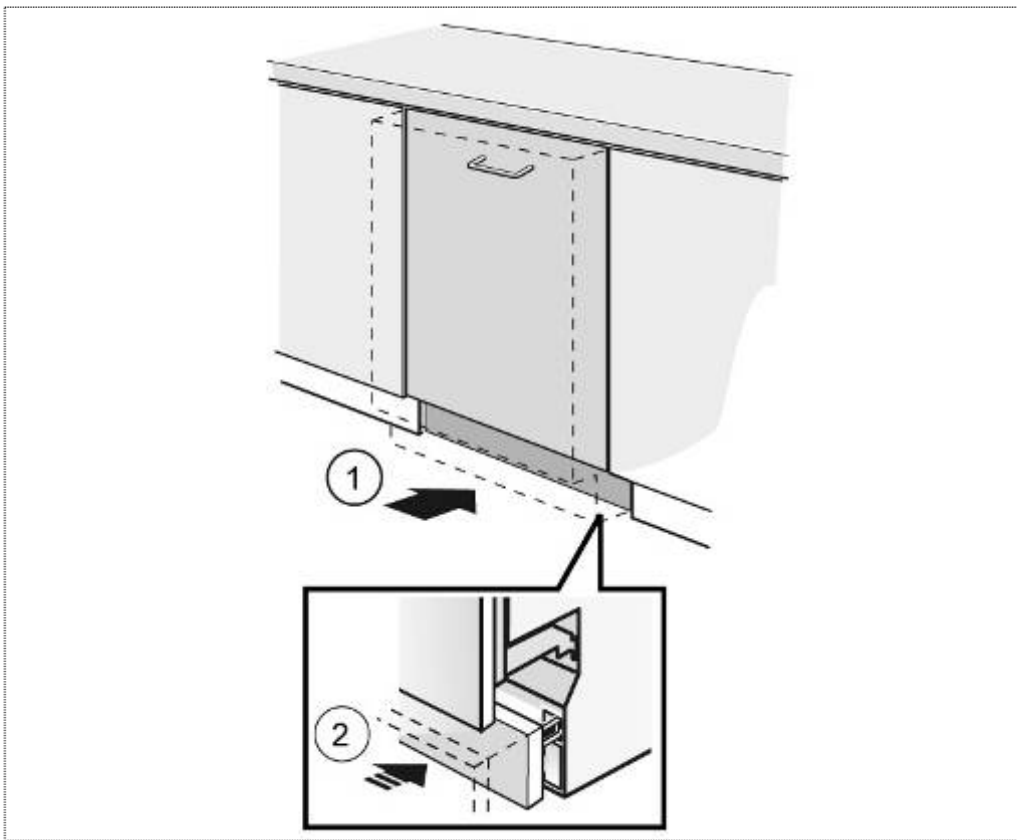
- The long screws, which are used in solid furnitures, are not required anymore!
The mobile system can be damaged by fixing the furniture sheet.



1. Align furniture door.
2. Tighten 2 locking screws by hand.



1. Position decorative strips.
2. Screw on decorative strips.

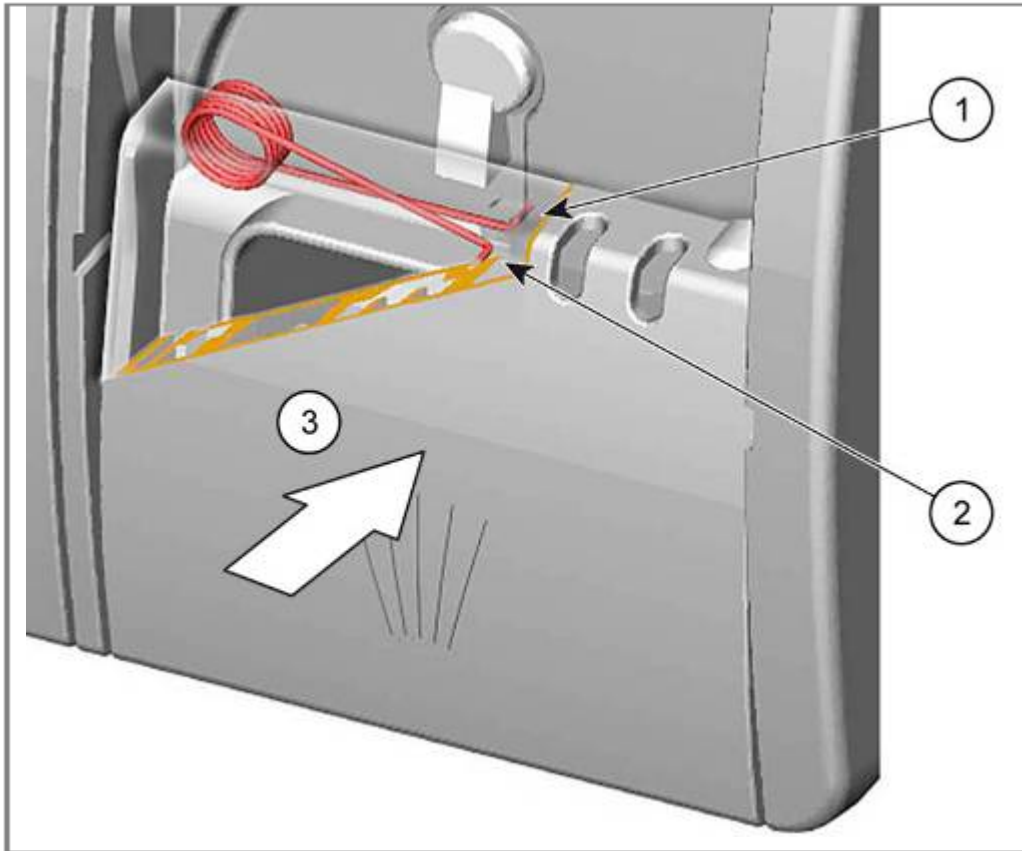


1. Install appliance and
2. install base panel.

5.19.3 Installation

- Before installing the dispenser, bend back sheet-metal brackets to the initial position.

5.20 Installing the detergent cover



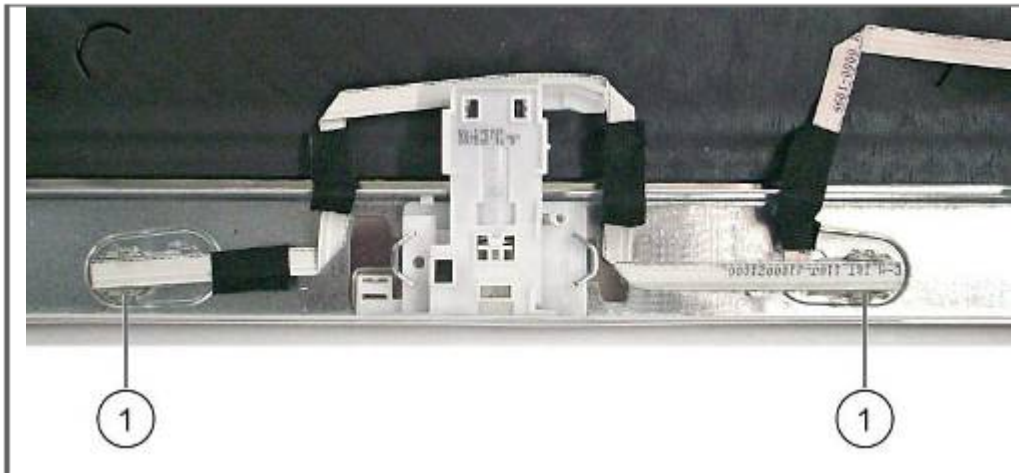
1. Attach long end of spring to the dispenser.
2. Attach short end of spring to the detergent cover.
3. Press cover into the dispenser.

5.20.1 Replacing EmotionLight (optionally)

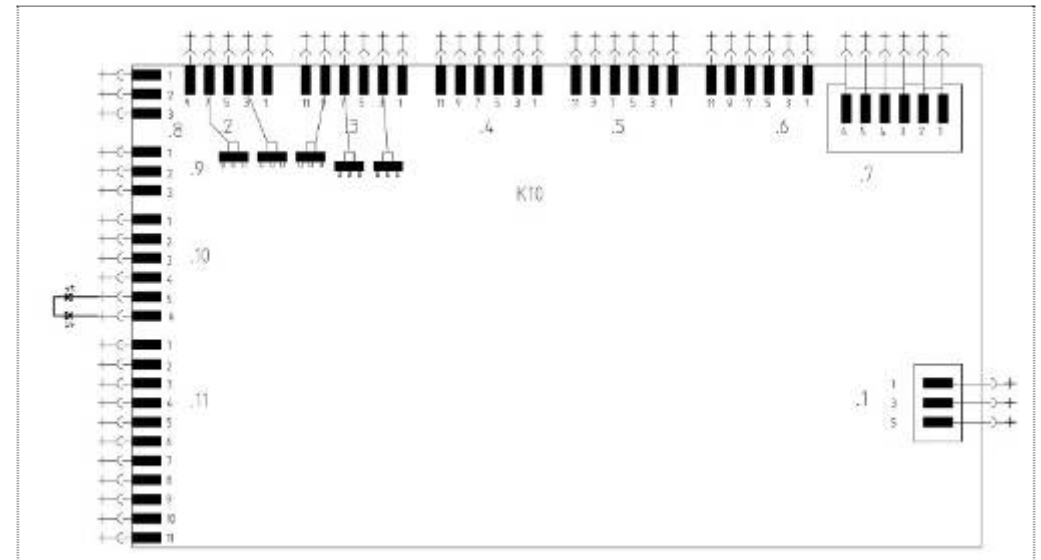
Requirement:

- ✓ Worktop (optional) removed
- ✓ Side panel on right removed

5.20.2 Removal



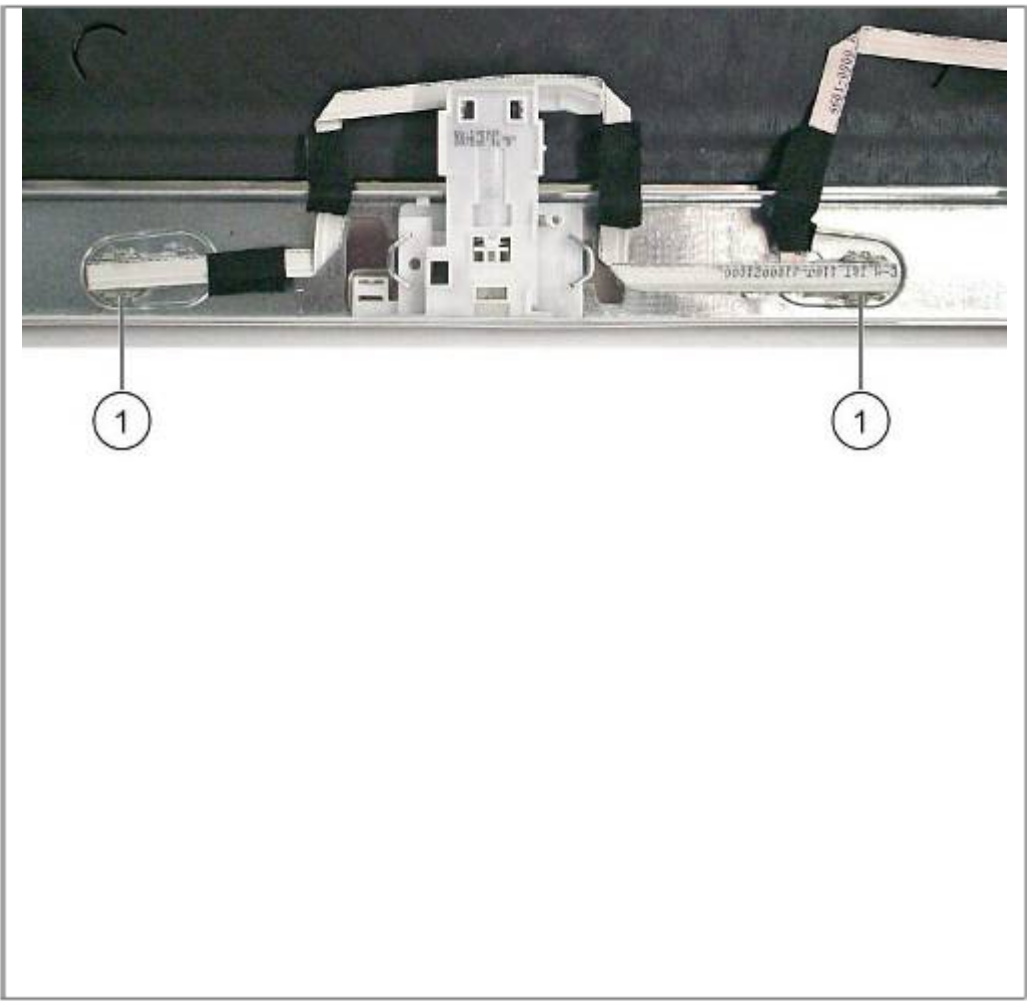
1. Remove both LEDs
2. with holder from the rinsing tank.



1. Loosen plug-and-socket connection. (Carefully expose ribbon cable.)

5.20.3 Installation

1. Re-attach plug-and-socket connection. (Carefully lay ribbon cable behind the hinge plate.)



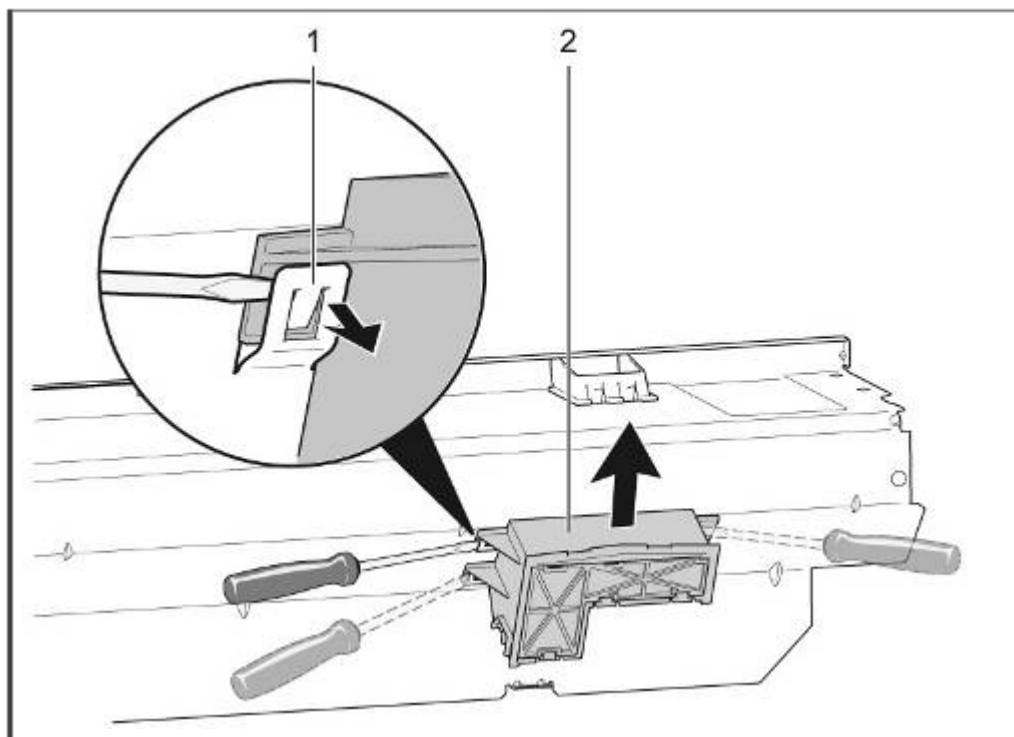
- F I T I I H E C C C F I I I G I A S S ^) a A A H E C C F H A U S S A E G A A I F A

5.22 Replacing TimeLight

In case of a defect the Infolight is to be renewed completely.

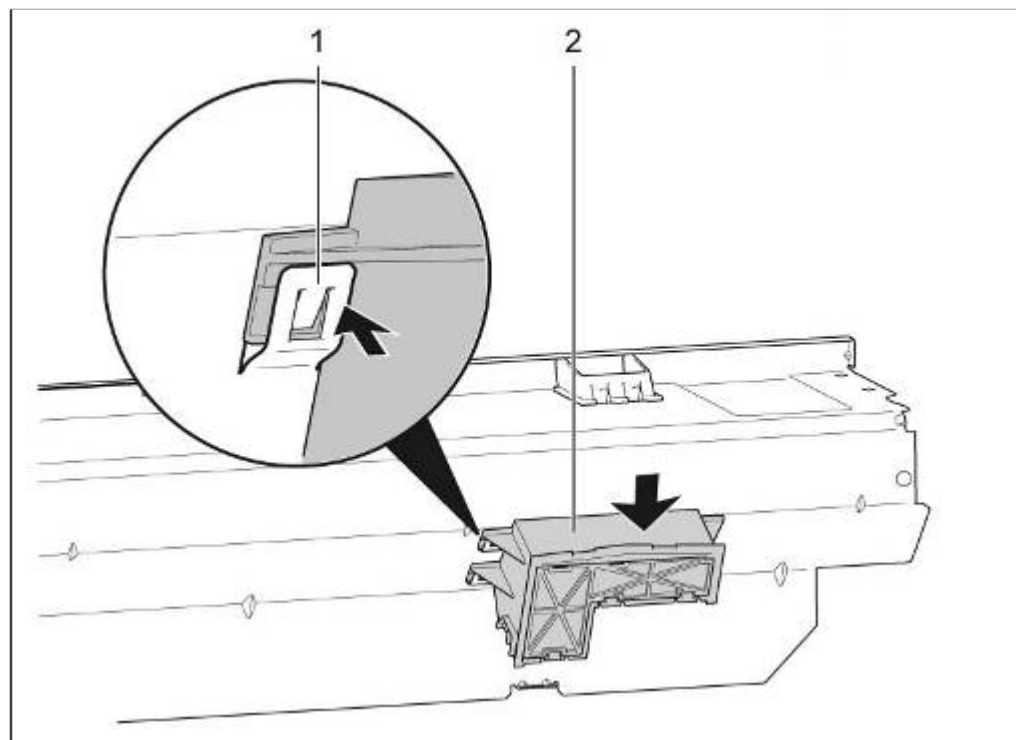
To disassembly bend the latches (1) easily outward.

Pull the TimeLight module upward from the guidance (2).



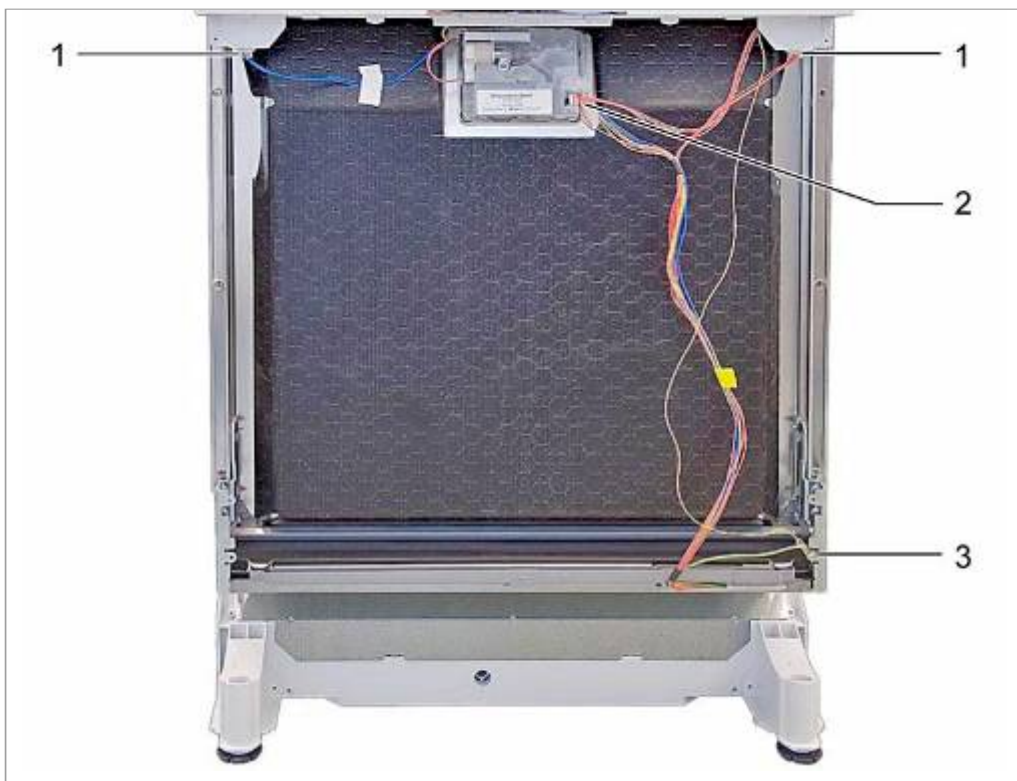
Bend the latches (1) back before installation.

Push the TimeLight module back into the guidance (2).



5.23 Replacing the fascia

✓ Outer door (if fitted) removed.



5.23.1 Preparation:

1. Remove wires on left and right from the bushings.
2. Remove wire from rinse-aid sensor.
3. Remove earth wire if fitted.



Note

- ▶ When loosening the last screw, hold the fascia with one hand. It is no longer secure and may fall down.
- ▶ Use 4x16 mm screws.



5.24 Replacing the door springs

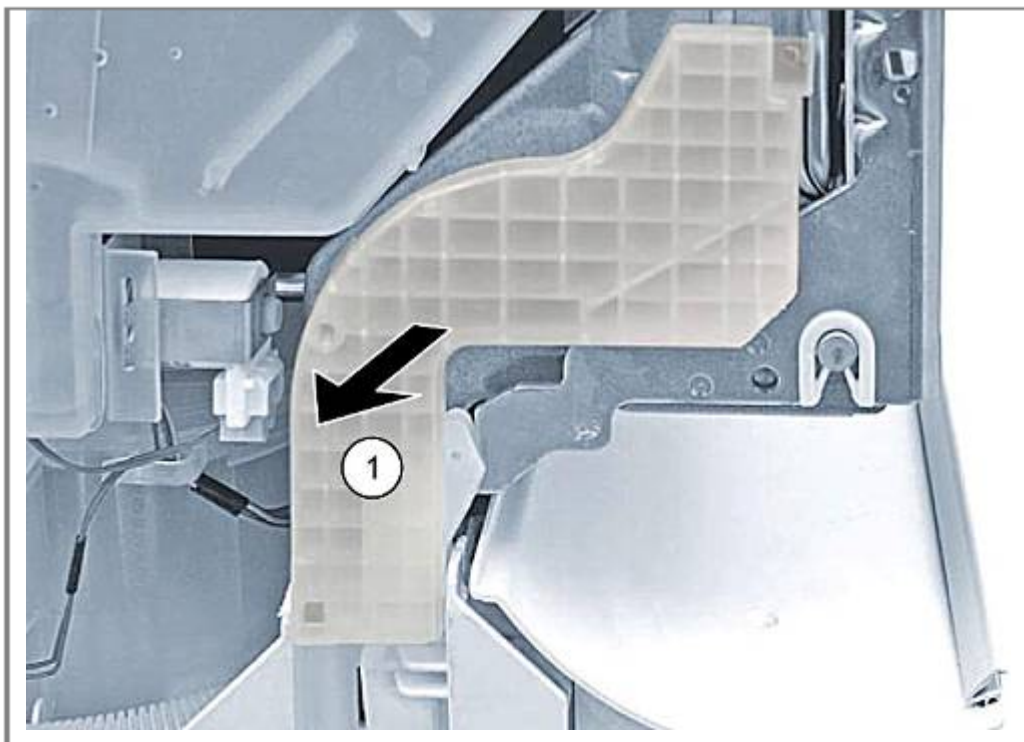
✓ Corresponding side panel removed.



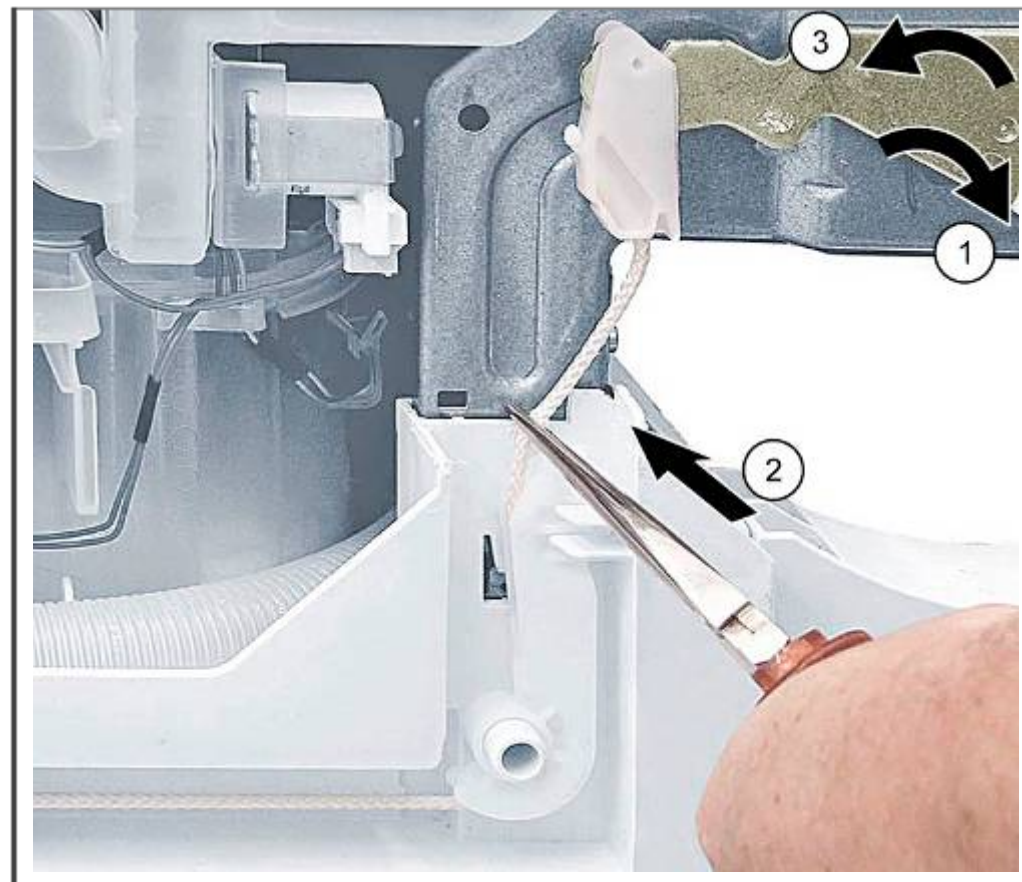
Different spring systems

- Two different spring systems are used. Both of them are described in this chapter.

5.24.1 Removal (Spring system I)

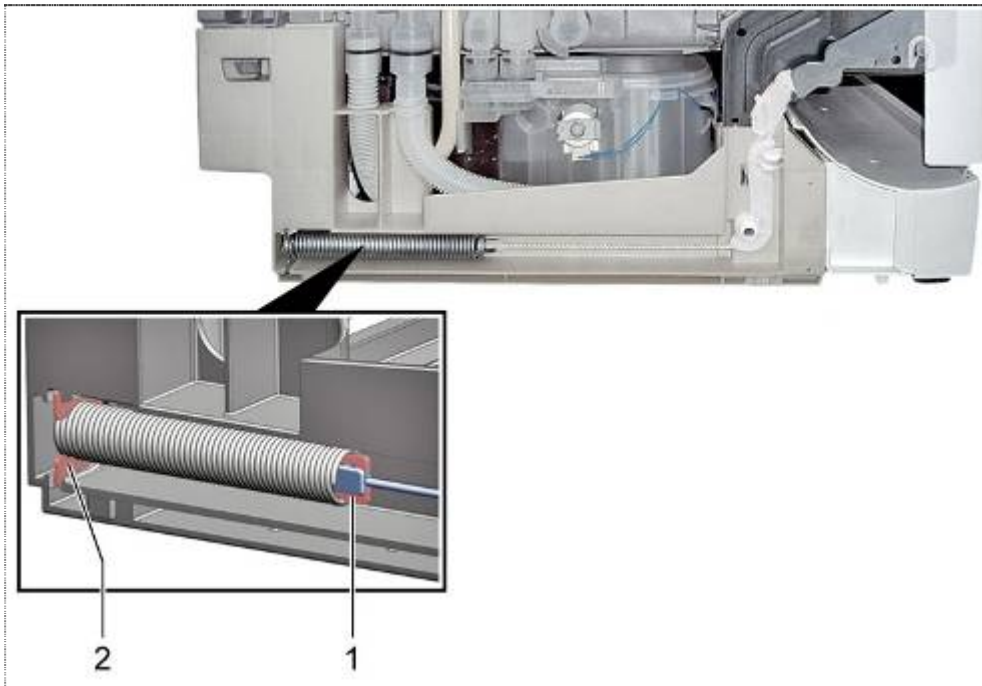


1. Remove cord guide cover outwards.



1. Open door slightly.
2. Grip tension cord with flat-nosed pliers.
3. Close door.

5.24.3 Assembling

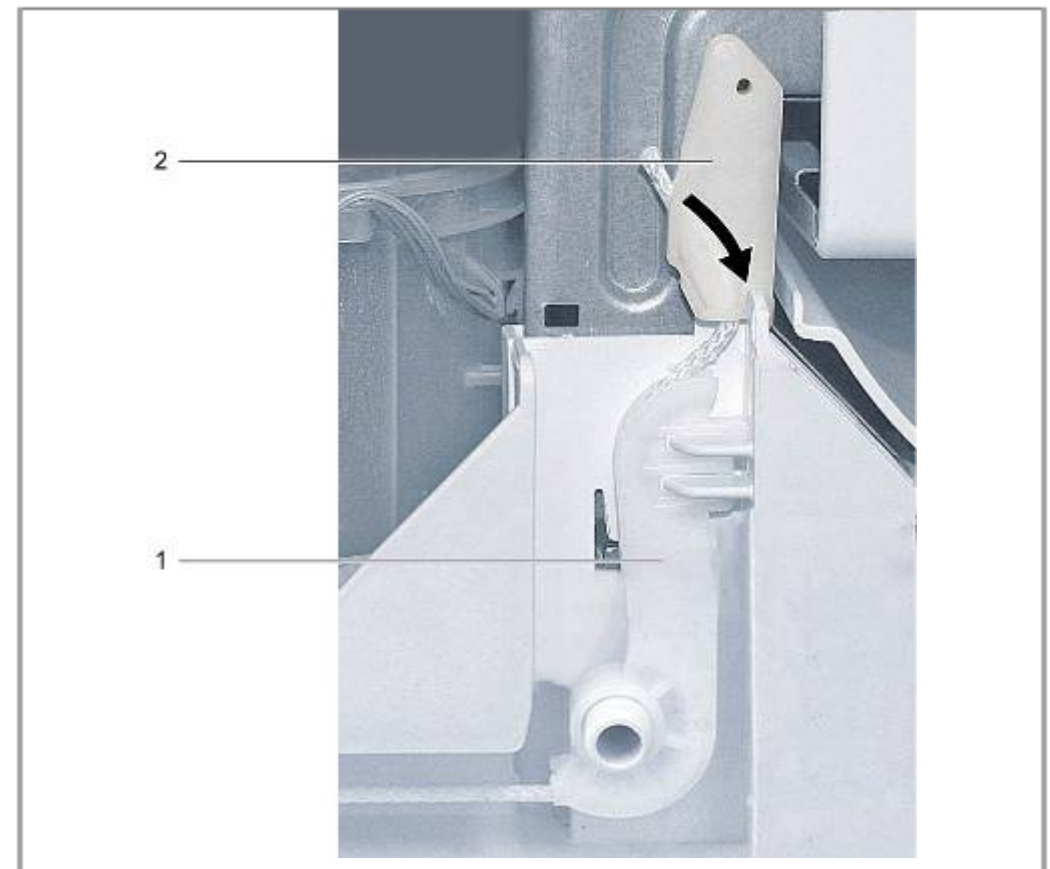


Insert tension cord to the spring (1) and fix it in the notch of the base pan (2).

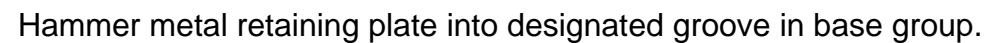


Tension cord holder

- The tension cord holder must be attached as illustrated in order to prevent friction on the base pan.



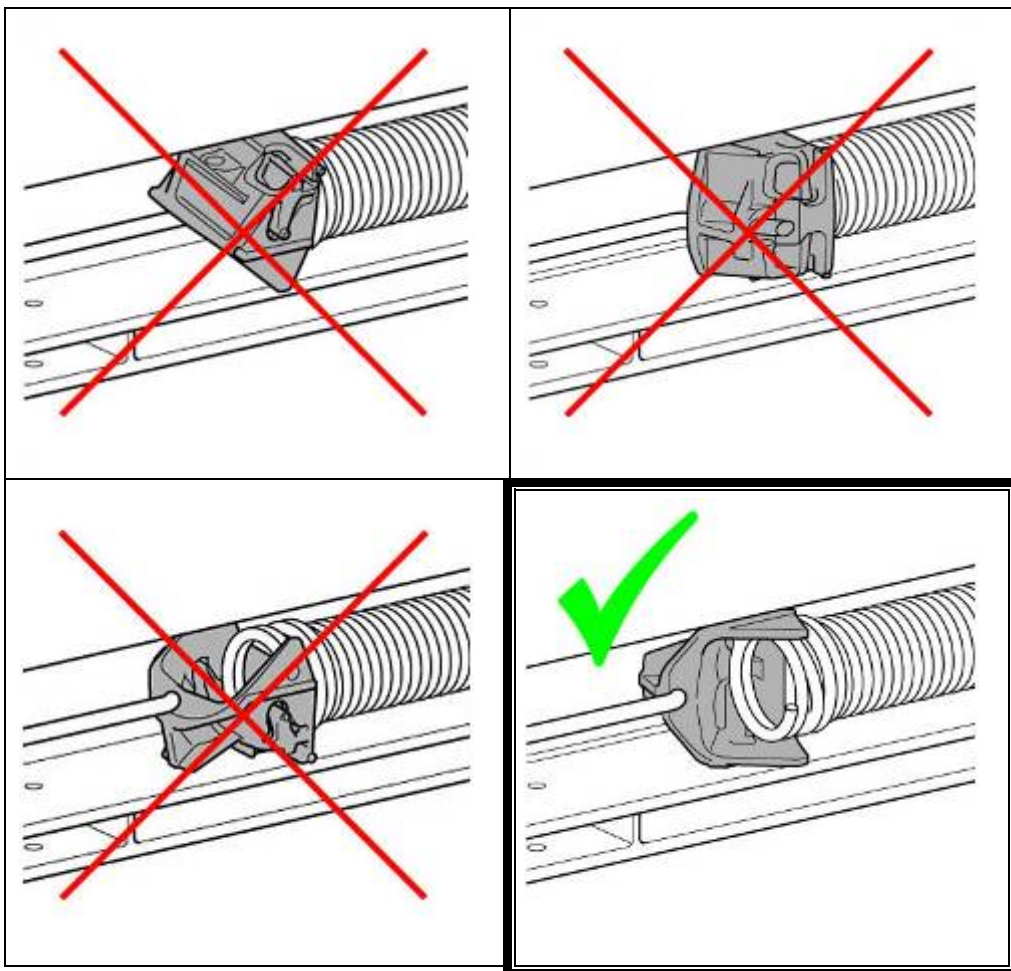
1. Fix tension cord holder in the notch of the base pan. The cord system is automatically attached to the door lever.

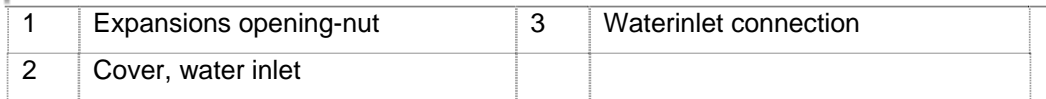


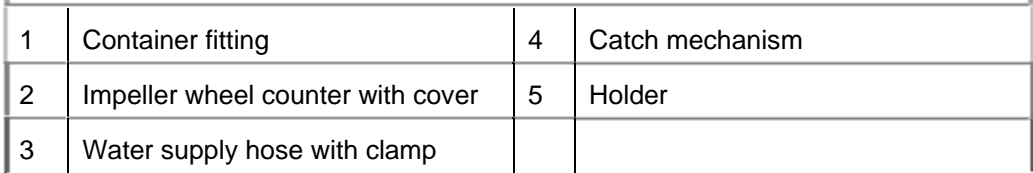
Noises

When converting or replacing the spring, ensure in particular that the front plastic holder is correctly repositioned; otherwise it may cause noises on the side panel.

- Place plastic holder correctly in the base group.







-

After prolonged operation the heat exchanger may become stuck to the bitumen insulation and be difficult to remove.

5.26 Replacing flow sensor

Requirement:

- ▶ Side panel on left removed

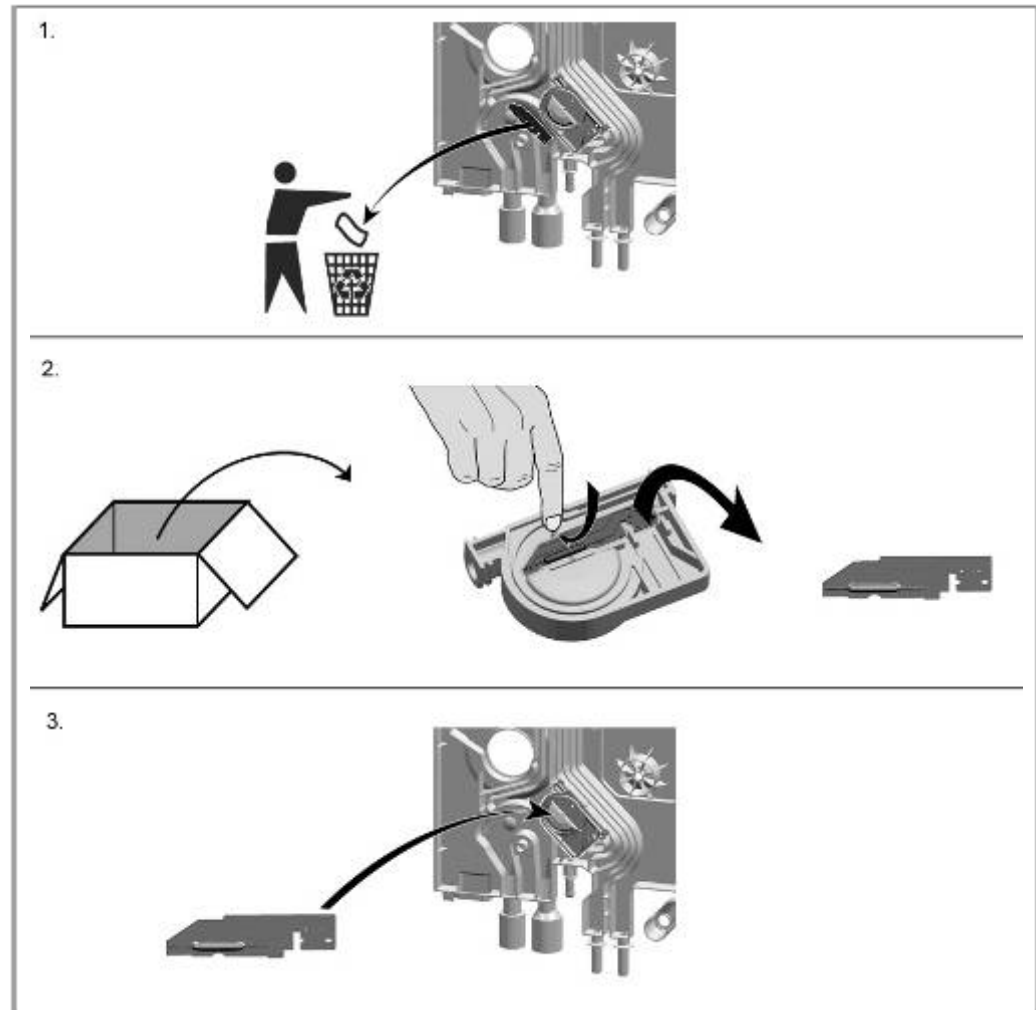


Risk of breakage

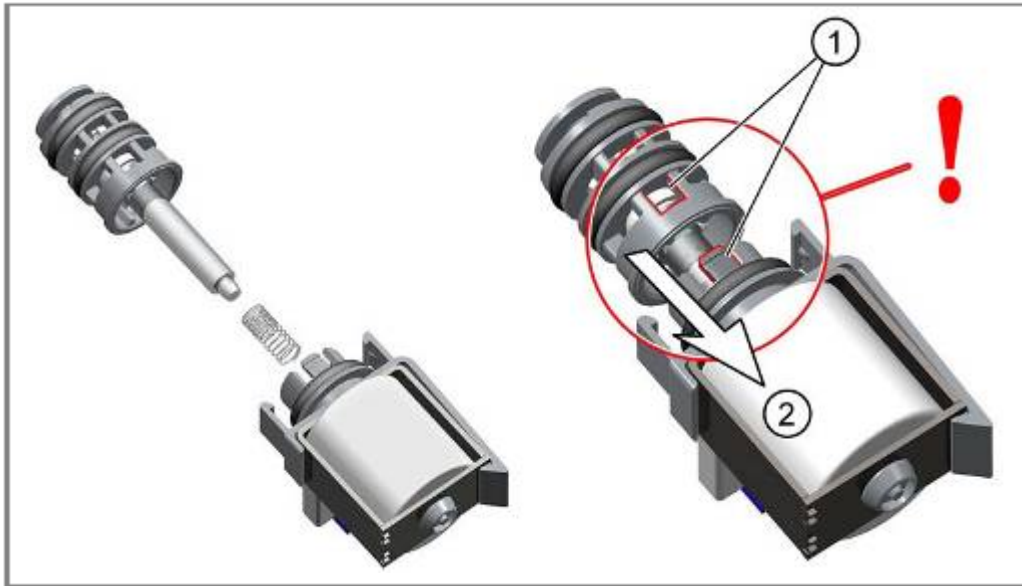
- ▶ Do not bend or kink boards with a flow sensor in the flask!
- ▶ Component is very sensitive!

Carefully bend out the plastic flap on the heat exchanger / water inlet.
Loosen plug-and-socket connection

1. Take complete board with flow sensor out of the catch mechanisms.
2. Unpack new flow sensor, take board out of transportation safety device and dispose of holder.
3. Carefully attach new board to the heat exchanger / water inlet.
Reconnect power supply and bend back plastic flap.



5.27.3 Positioning the armature



1. Align the marked points.
2. Press valve with spring back into the coil until the valve engages.



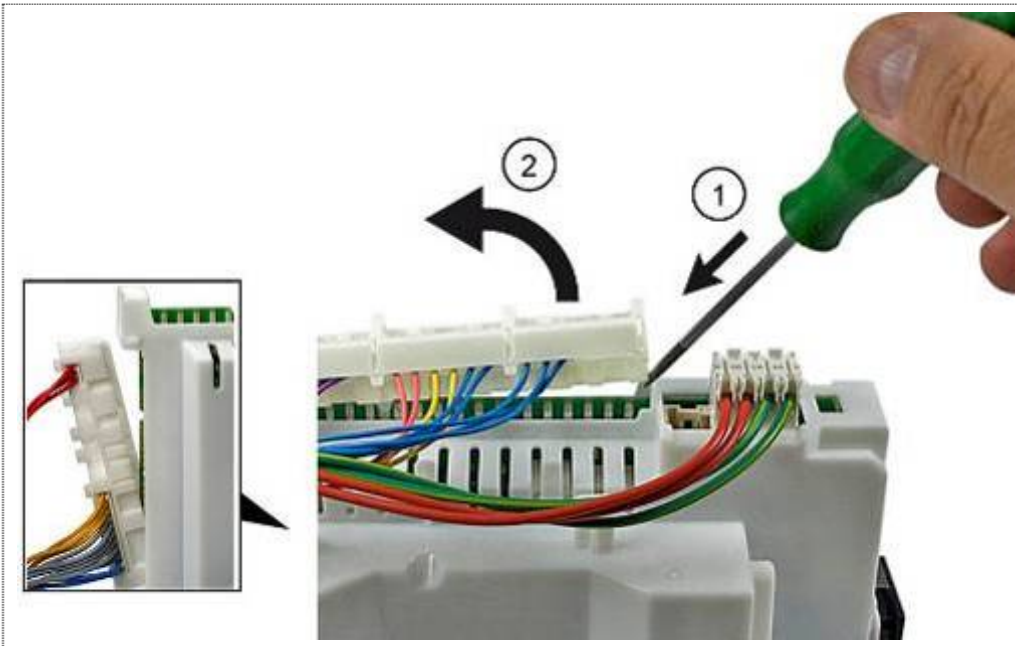
-
- A detailed close-up of the internal mechanism of a syringe pump. The image shows the syringe barrel, plunger, and various tubes and valves. A black arrow points to a specific component, likely a valve or sensor, which is part of the system's internal structure. The device is constructed from clear plastic and metal components.

Fi | i | i | H e e e e Fi | i | i | e | æ æ ^ | : a Å F H E G F H A U æ ^ | Å | Å | Å | F Å

-

- ```
Ff f i i l e c c e e r f i i t i a s ^) a A F f e c e h m o n u m e n t a l p a t h o l o g y a s ^ f i i A f i F A
```

#### 5.30.4 Loosen cable harness



1. Loosen catch and
2. Lift off complete coding frame with plugs.



#### Coding frames

- The coding frames are to be opened only if necessary. They are a component of the wiring harness and remain not on the module.



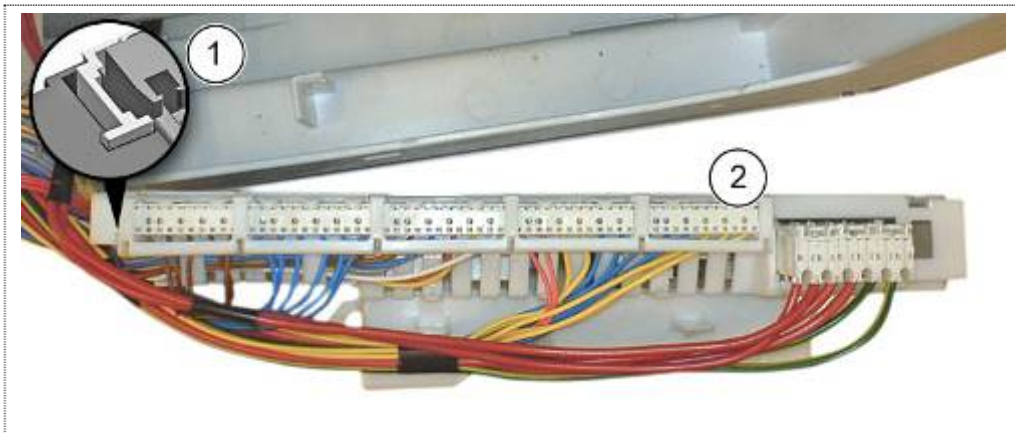
#### Components which come into contact with electrostatic voltage will be damaged beyond repair

- Before carrying out any work, apply protective system to components susceptible to electrical discharge.
- Observe measures to protect the components susceptible to electrical discharge.





### 5.30.5 Installation



1. Insert coding frame into the guide.
2. Press down until the catch clicks into position.



#### Plugs

- Respect for tighten the plug within the coding frame.

Installation is in reverse sequence. The power module must engage audibly into the base pan. Re-attach the splash guard cover.



#### Laying of cables

- Cables must always be installed under the cap section with water outlet channel..







---

## 5.32 Replacing non-return valve

Requirement:

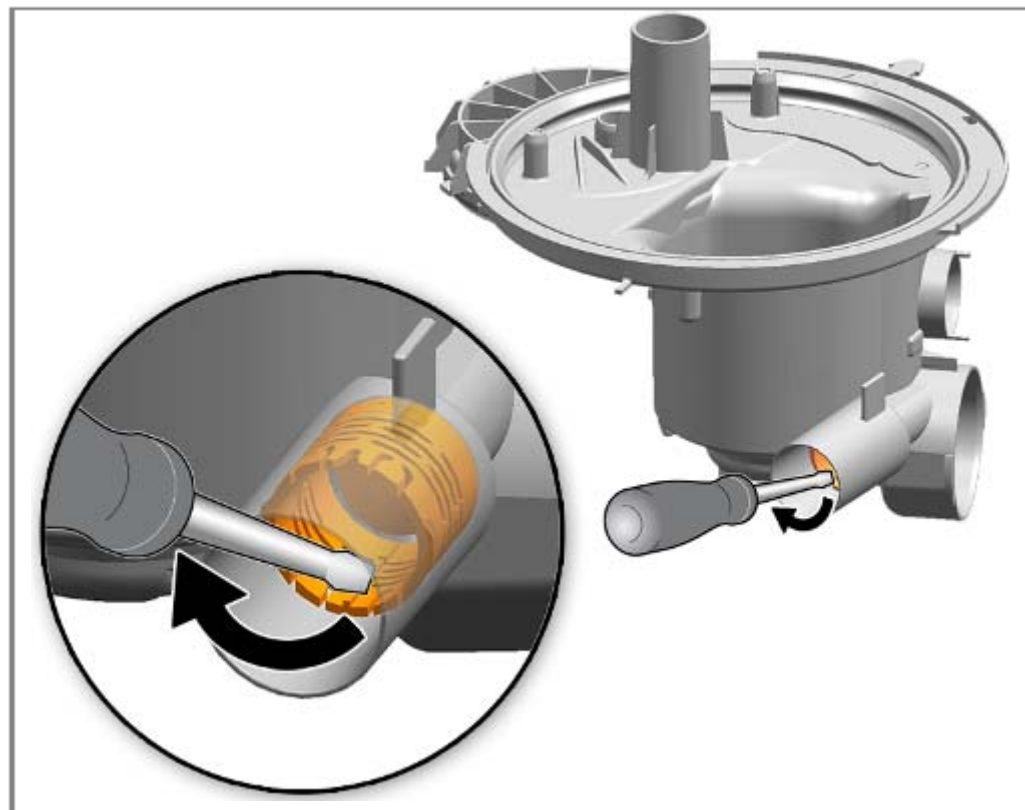
- ▶ Outer door removed
- ▶ Base panel and plate removed
- ▶ Water removed from pump sump
- ▶ Drainage hose removed from pump sump



### Scratches

- ▶ During removal, do not scratch the inside of the outlet connection with a sharp-edged screwdriver. Leaks may occur.

### 5.32.1 Removal



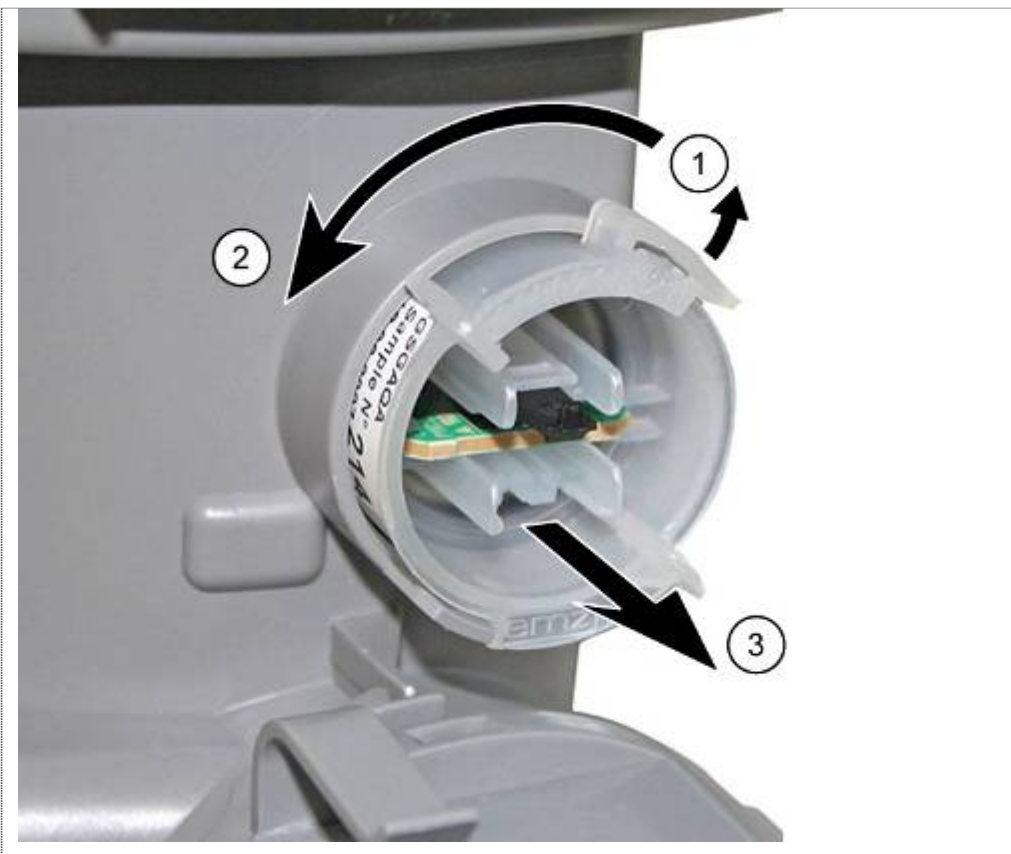




## 5.33 Replacing the Aquasensor

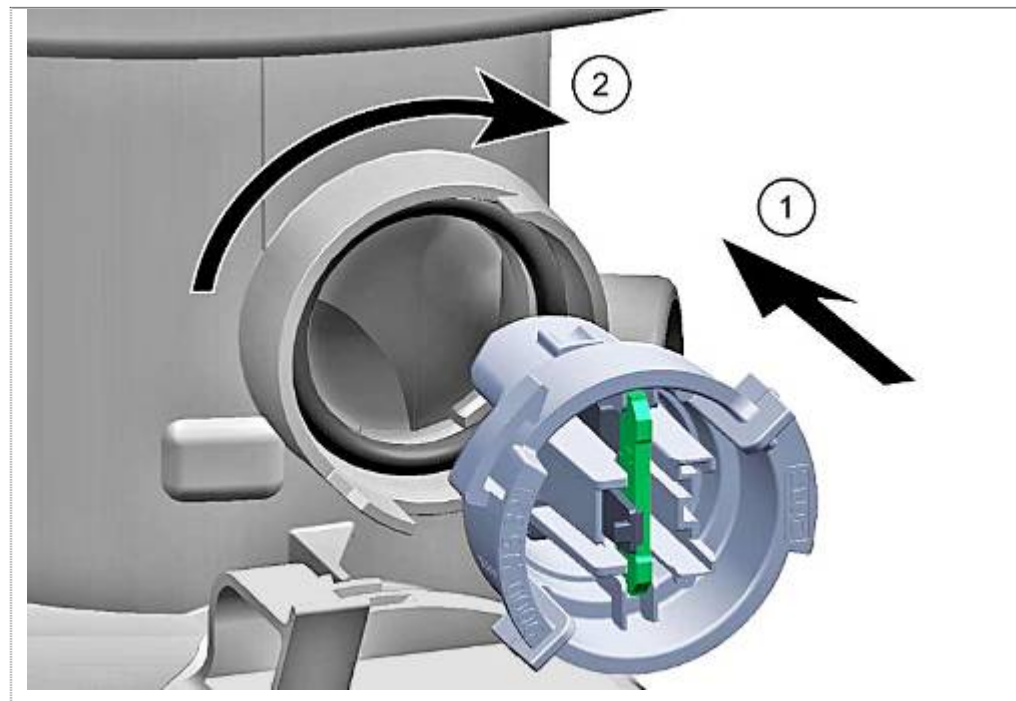
Requirement:

- Base panel and base plate removed.



### 5.33.1 Removal

1. Loosen catch mechanism.
2. Rotate Aquasensor housing by 90° to the left.
3. Pull out forwards.



### 5.33.2 Installation

Insert and lock board.

1. Press Aquasensor with board edgewise into the pump sump.
2. Rotate 90° to the right and lock in position.



Seal

- To facilitate rotating the Aquasensor, the seal can be lubricated with Promol or rinse aid.



## 5.34 Folding down rinsing tank

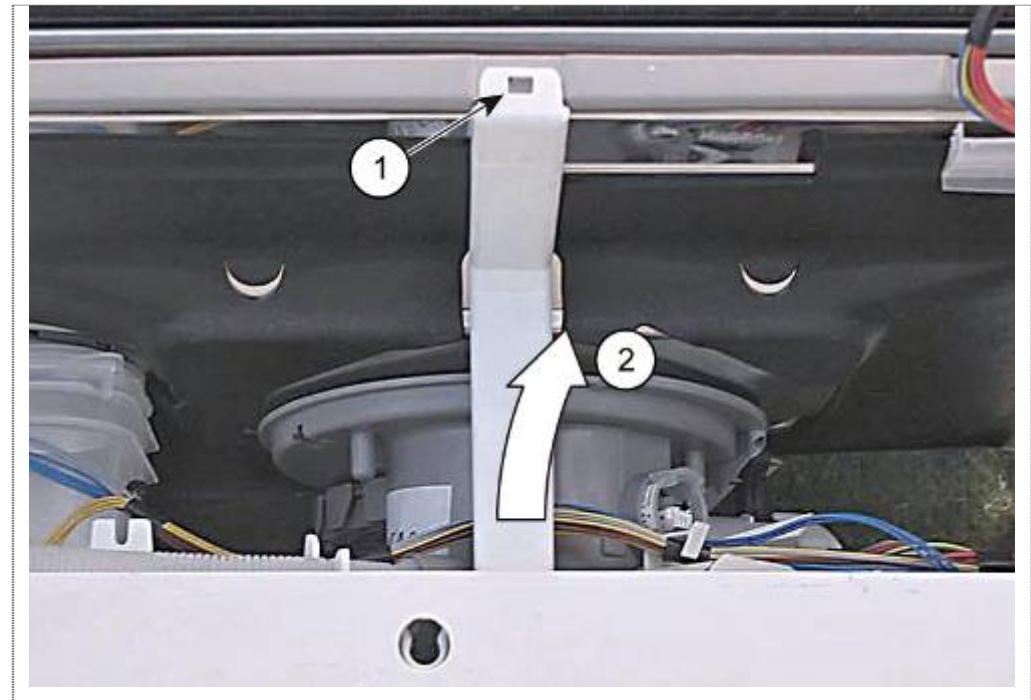
The rinsing tank must be folded down all the way from the base pan for the following work:

- ▶ Replacement of the water softening system.
- ▶ Replacement of the pump sump.
- ▶ Replacement of the heating pump.
- ▶ Replacement of the water points.

### 5.34.1 Requirements

- Remove overflow channel
- Remove drainage hose
- Remove float switch safety system
- Open supply hose grommet
- Remove power module
- Remove filling hose of water storage tank (optionally)
- Disconnect actuator of water storage tank (optionally)
- Disconnect emotion light (optionally)

### 5.34.2 Removing overflow channel



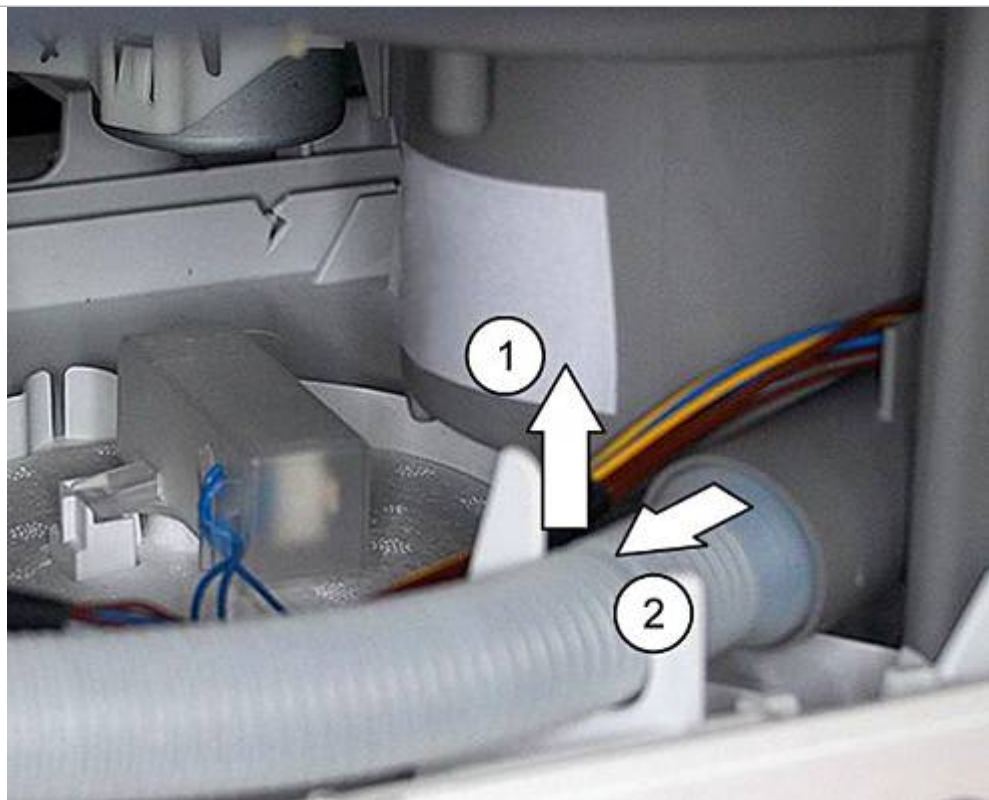
1. Detach from the upper catch mechanism.
2. Take out of the lower guide.

### 5.34.3 Removing drainage hose



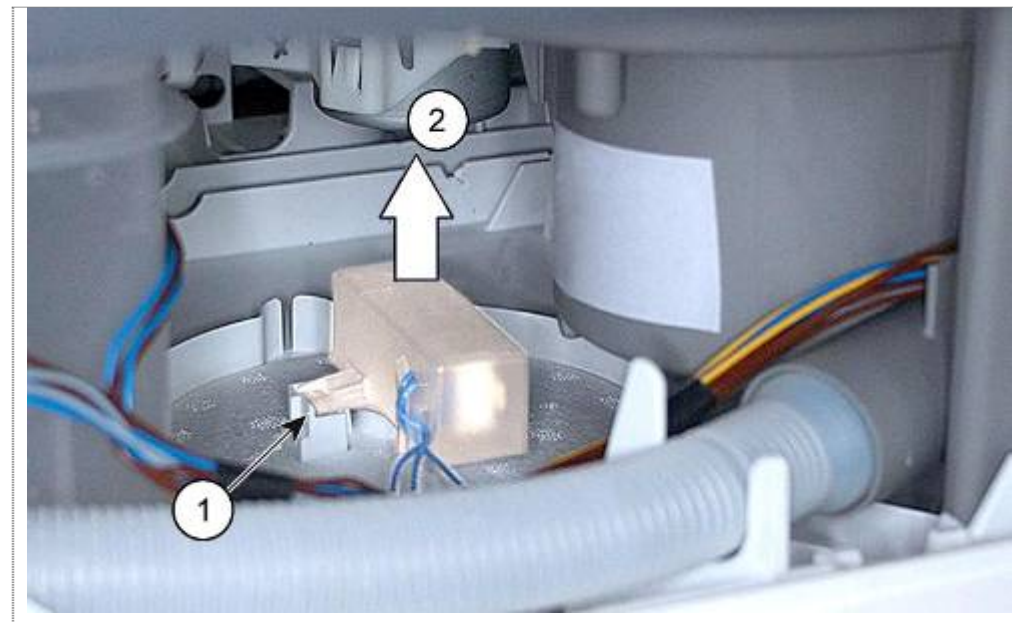
Residual water

- When the drainage hose is removed, residual water may run out. Catch water or remove from the base pan with suction syringe.



1. Press flexible drainage hose upwards out of the fixing.
2. Remove from pump sump.

### 5.34.4 Removing float switch safety system



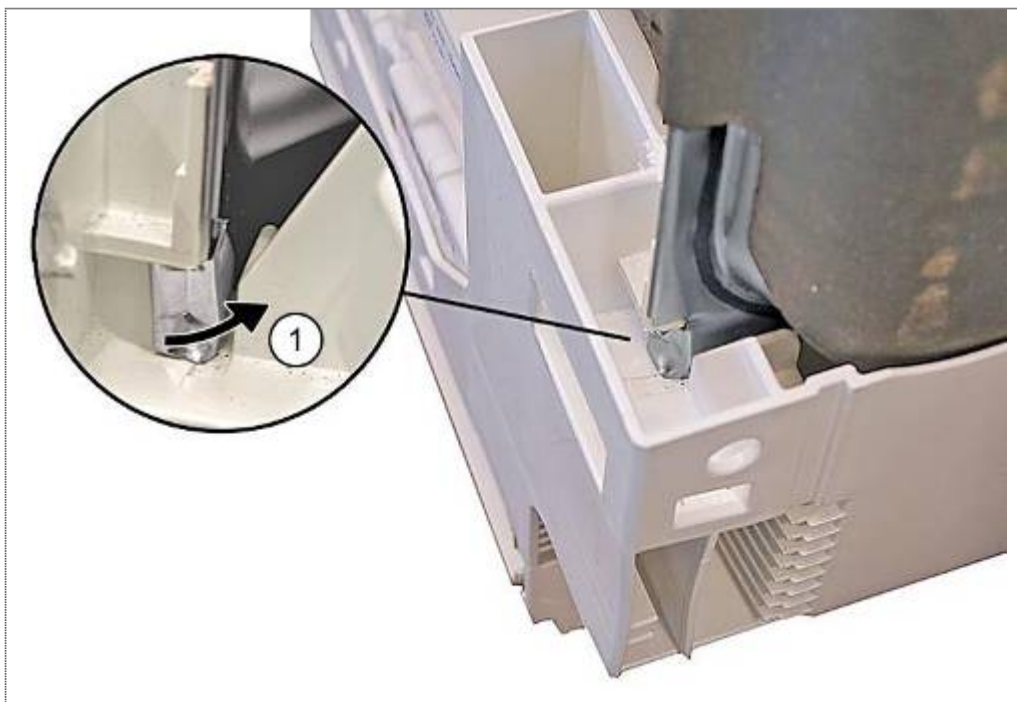
1. Loosen catches.
2. Remove switch upwards.



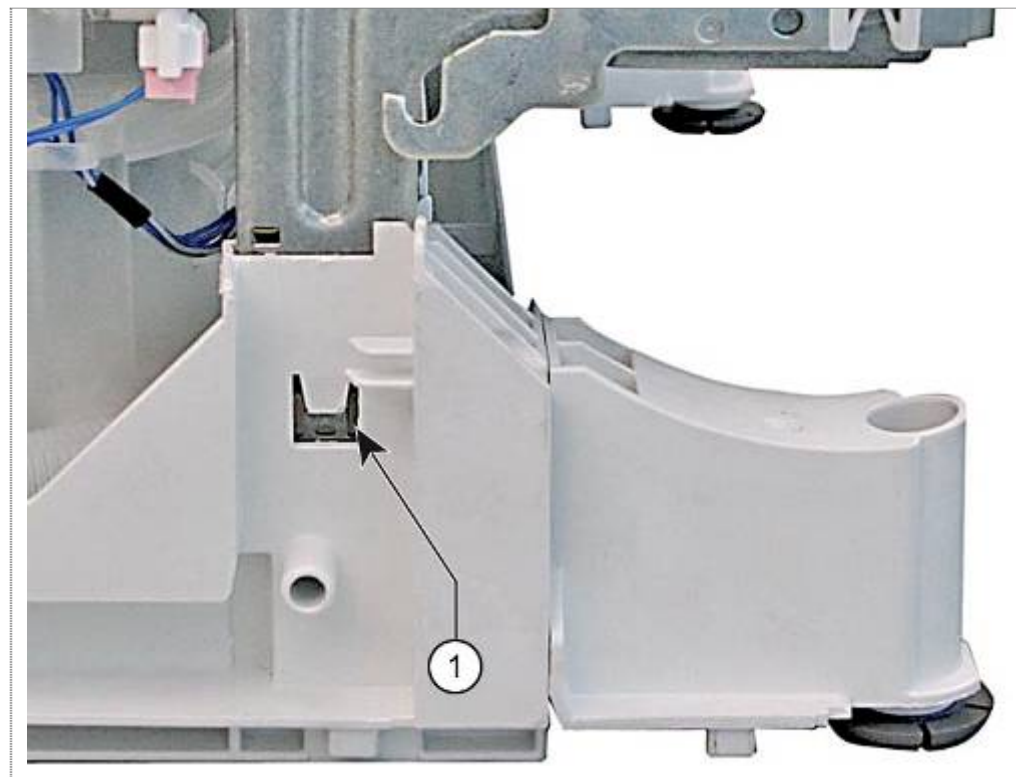
### 5.34.7 Loosening the tank catch mechanism

The rinsing tank is held and locked at the front and rear in guides on the base.

The rinsing tank is fixed at the rear on the left and right with sheet-metal brackets. These are bent by a plastic lug on the base pan.



1. Using a screwdriver, straighten sheet-metal brackets.



1. Using a screwdriver, detach hinge plates at the front side from the top of the catch mechanism. To do this, bend in the hinge plate catch mechanism.









## 5.35 Replacing pump sump

Requirement:

- ✓ Rinsing tank folded down
- ✓ Heating pump removed
- ✓ Water points removed
- ✓ Drain pump removed
- ✓ Supply pipe removed

### 5.35.1 Removal



#### Risk of injury!

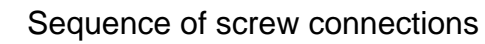
Sharp-edged sheet-metal parts

- The edge of the sheet metal at the opening for the pump sump may be sharp-edged!
- Wear gloves.



Loosen 4 screws (1. to 4.) in the interior container and remove pump sump downwards.

A top-down view of the front door of the washing machine. The door is open, revealing the drum. Four screws are shown being inserted into the door's frame. The screws are labeled with circled numbers: 1 (top right), 2 (top left), 3 (bottom left), and 4 (bottom right). The central part of the door has a circular opening for the detergent dispenser.



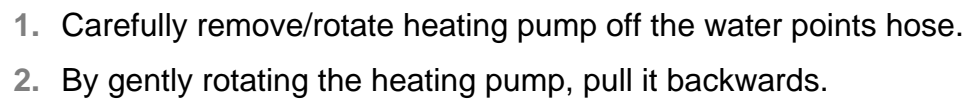
- ▶ Always observe the sequence of the screw connections. Leaks may occur.

Place pump sump from below directly and without tilting it on the container.

Insert and tighten screws in reverse sequence:

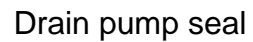
1. at rear right
2. at rear left
3. at front left
4. at front right





1. Push heating pump onto the pump sump and
2. press outlet channel into the water points.





- The replaced seal for the intake channel must be inserted all the way into the housing of the heating pump.

The heating pump must be cleaned from the outside only. If the heating pump is opened, the leak tightness can no longer be guaranteed when the heating pump is closed again.



Tighten the hose clamp as illustrated.

- ▶ Hose clamp mat. no.: 172272 is required for the re-installation.
- ▶ The hose clamp is supplied with the spare parts water points, pump sump and heating pump (set).







## 5.38 Replacing water softening system

Requirement:

✓ Rinsing tank folded down.



**CAUTION**

### Risk of injury!

Sharp-edged sheet parts

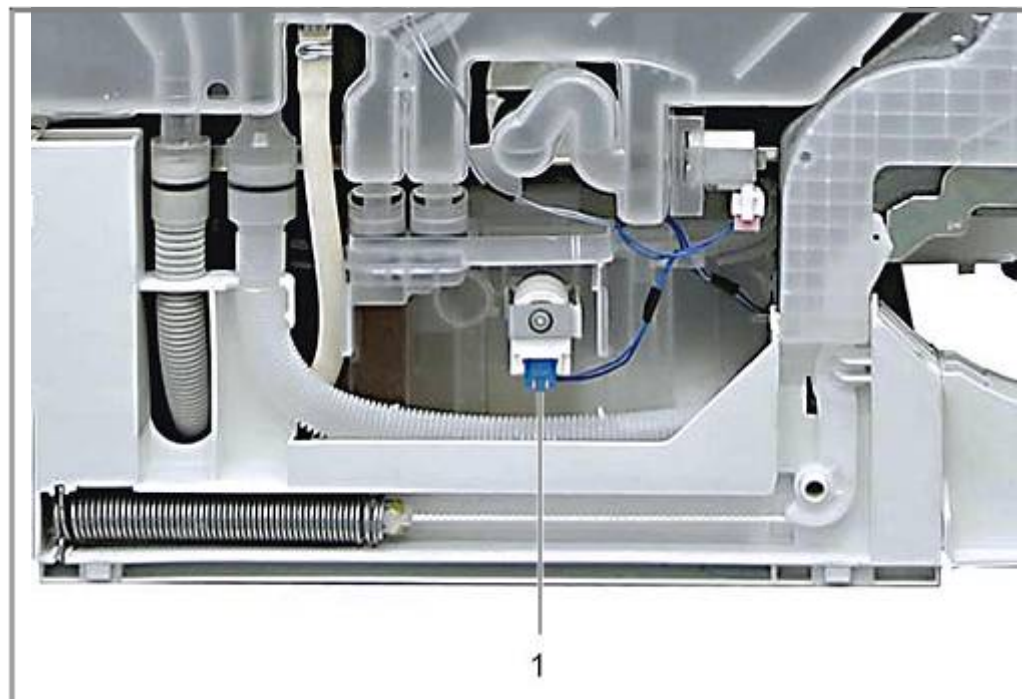
- The edge of the sheet at the opening for the water softening system may be sharp!



### AU-models

Conditional from manufacturing, Australia models have partially a "dummy" – water softener without softening pellets. The valve is replaced by a blind plug. It is important to ensure that the lid is always screwed to the water softener.

### 5.38.1 Removal

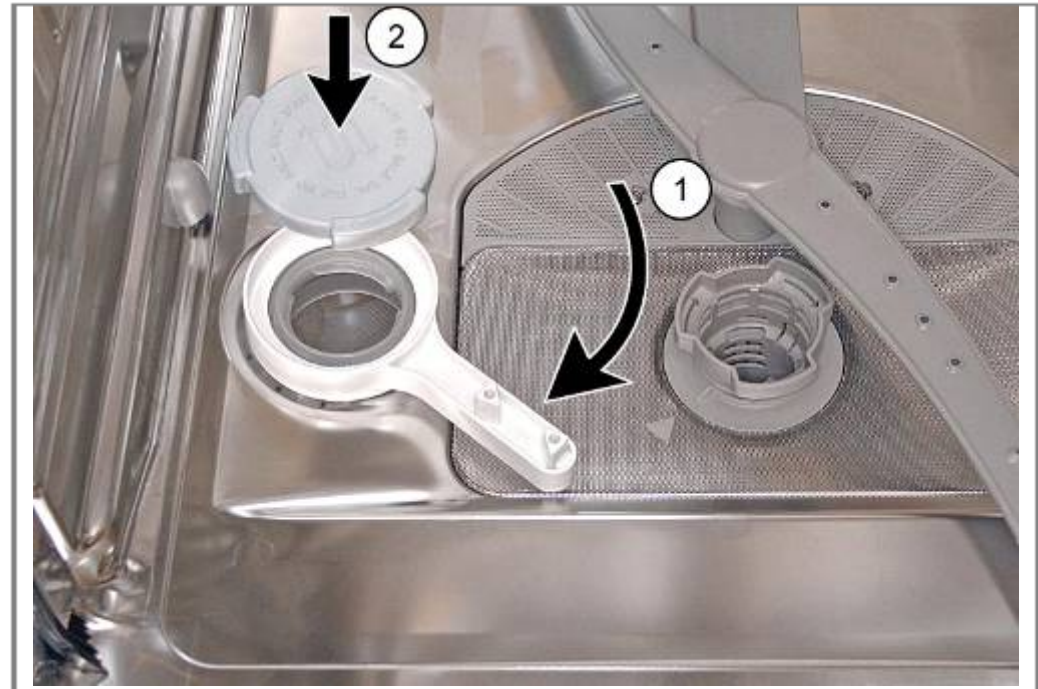


1. Loosen plug-and-socket connection on the regeneration valve.

### 5.38.2 Installation



1. Salt dispenser cover removed.
2. Loosen salt dispenser nut with special tool mat. no.: 341805.  
Remove water softening system downwards.



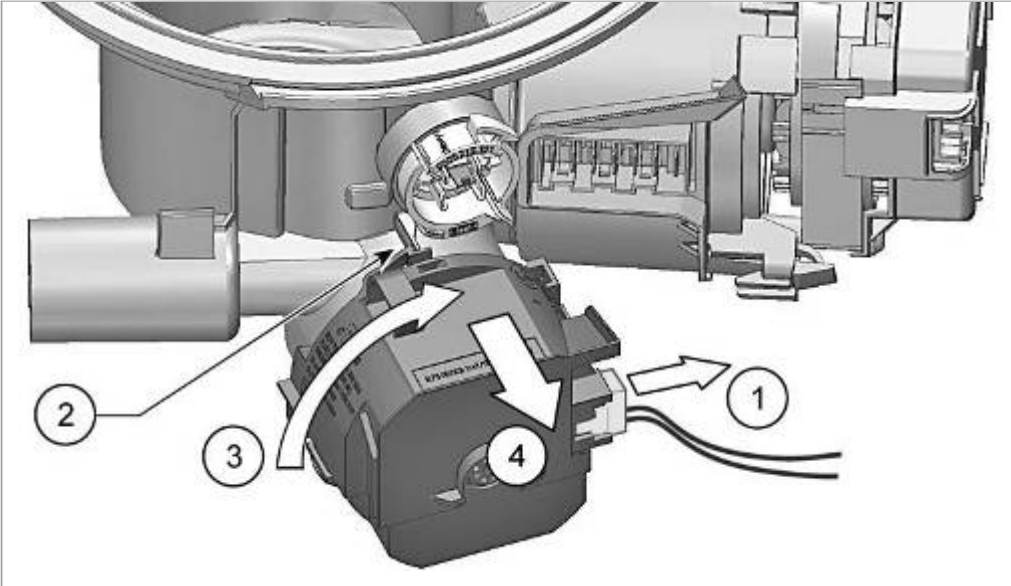
Push water softening system from below into the rinsing tank.

1. Tighten salt dispenser nut with special tool mat. no.: 341313.
2. Screw on cover.

### 5.39 Replacing the drain pump

Requirement:

- ✓ Base panel and plate removed.
- ✓ Water drained.



### 5.39.1 Removal

1. Remove plug.
2. Pull catch mechanism lever (1) for the drain pump forwards.
3. Rotate drain pump clockwise.
4. Remove pump forwards out of the pump sump.

### 5.39.2 Installation

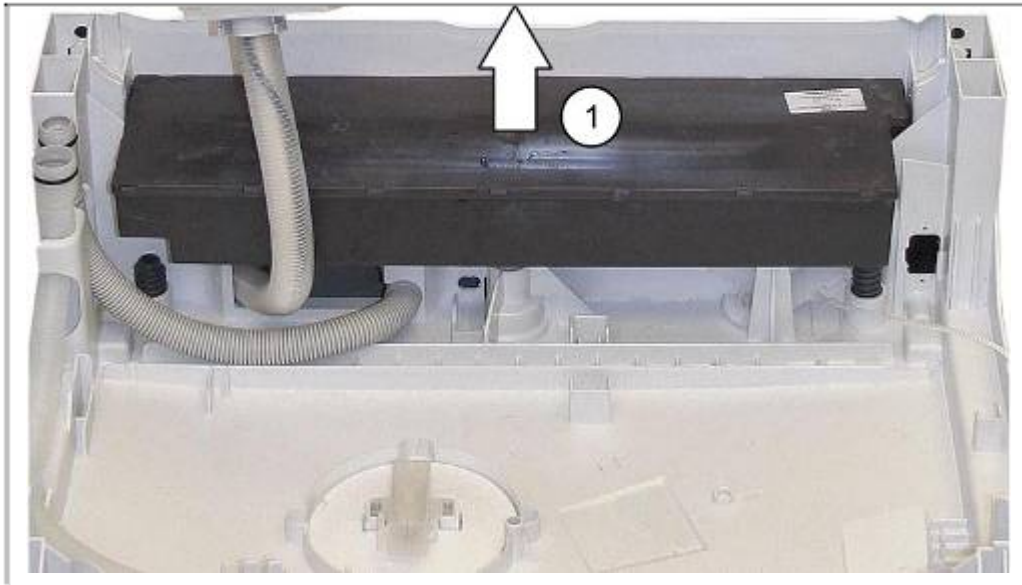
- Proceed in reverse sequence.



## 5.40 Counterweight

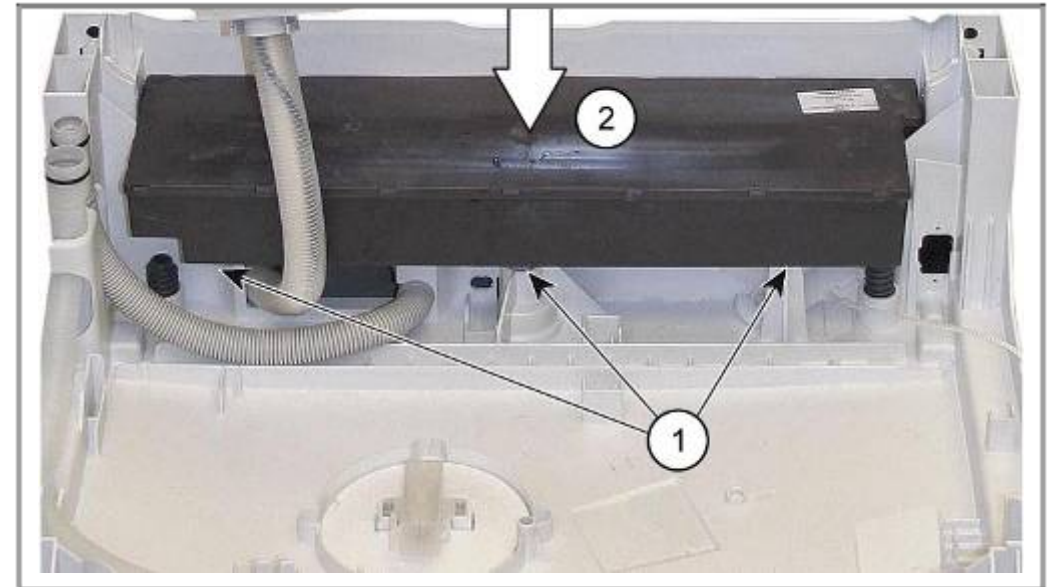
✓ Rinsing tank folded down

### 5.40.1 Removal



1. Remove the weight upwards.

### 5.40.2 Installation



1. Check rubber damper is in correct position.
2. Insert weight into the recesses.

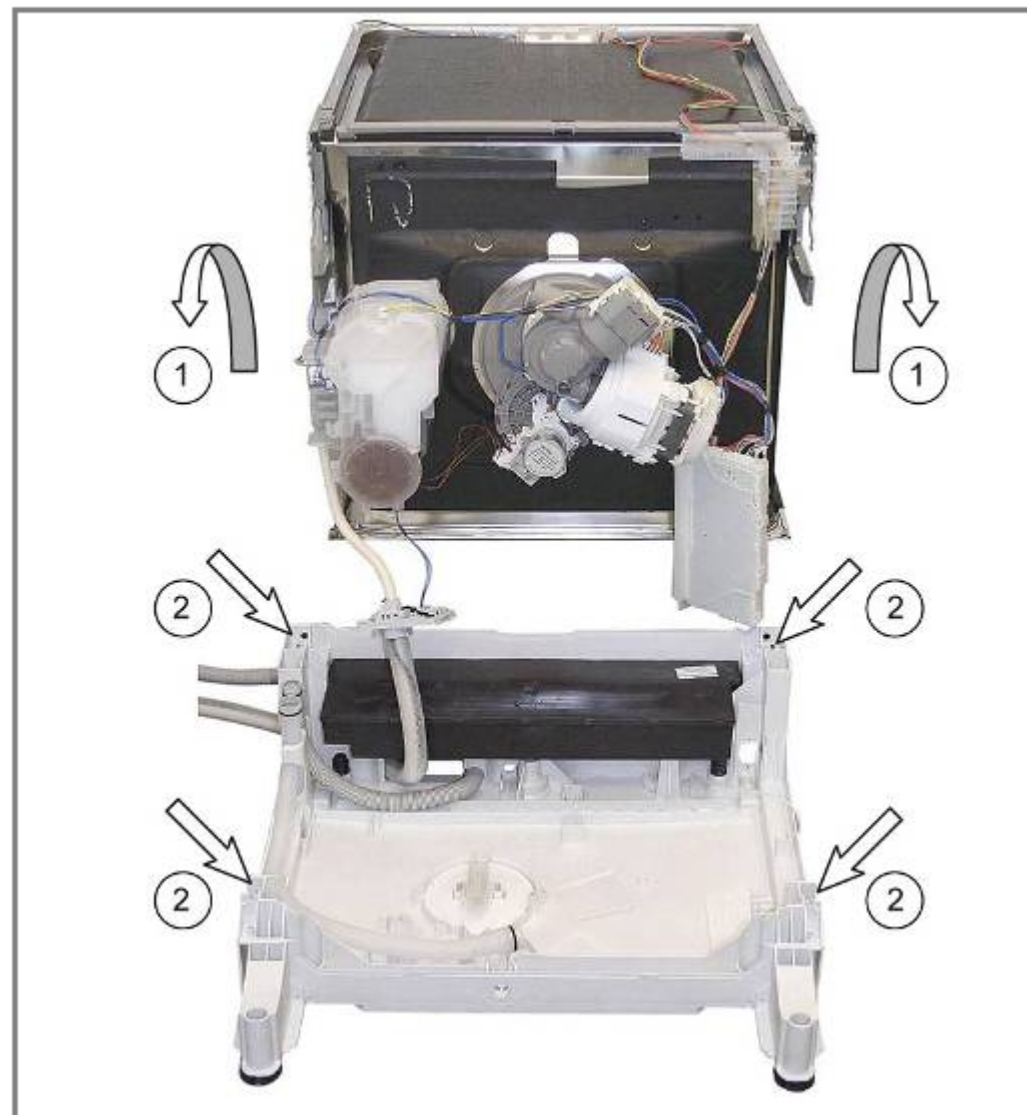
## 5.41 Attaching the rinsing tank

### 5.41.1 Attaching the rinsing tank



Ensure it is seated correctly

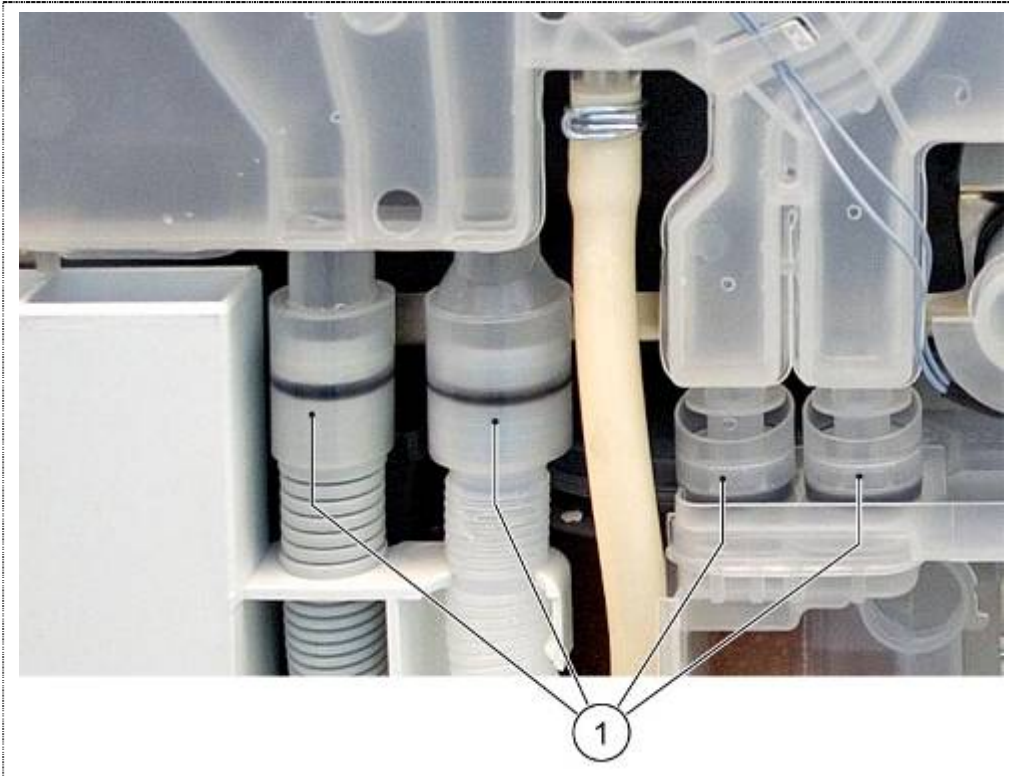
- ▶ Ensure that the weight is installed correctly in free-standing appliances.
- ▶ If the heat exchanger is mounted on the rinsing tank, ensure that the hose connections are clean.
- ▶ Do not trap supply and drainage hoses.
- ▶ Push water softening system into the guides.
- ▶ Protect power module from jamming.
- ▶ Protect cable harness from crushing.



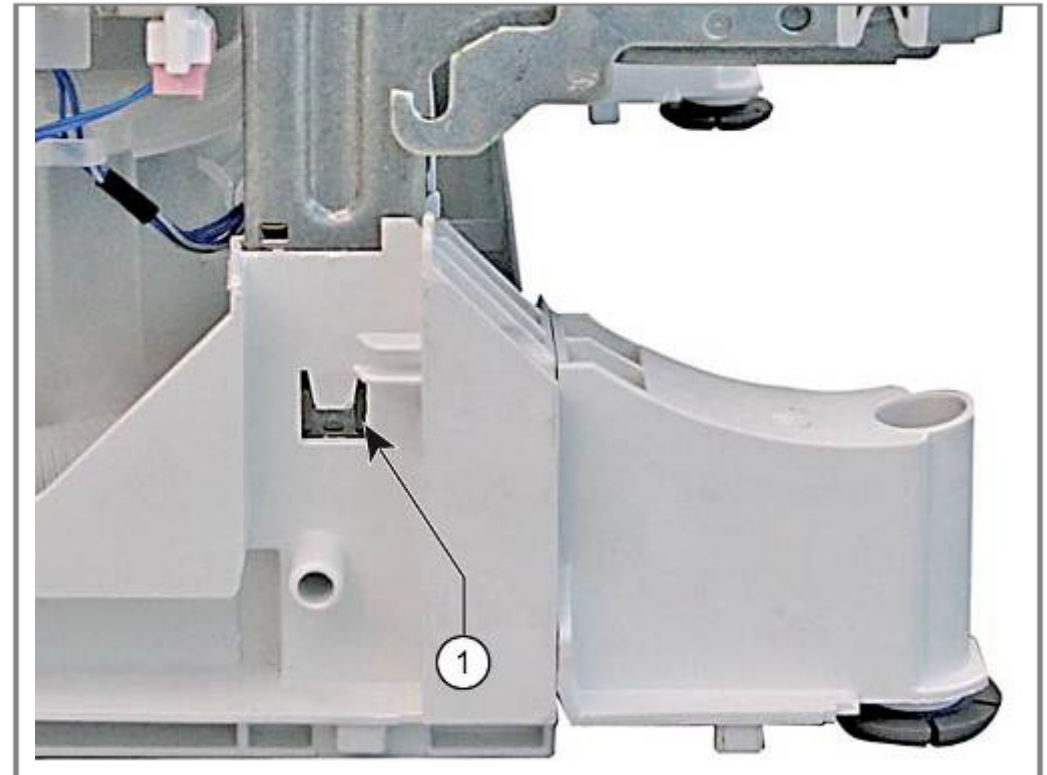
1. Carefully fold the rinsing tank forwards.
2. Insert into the guides.



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1. Ensure that the connection is faultless without crushing the terminals on the heat exchanger.



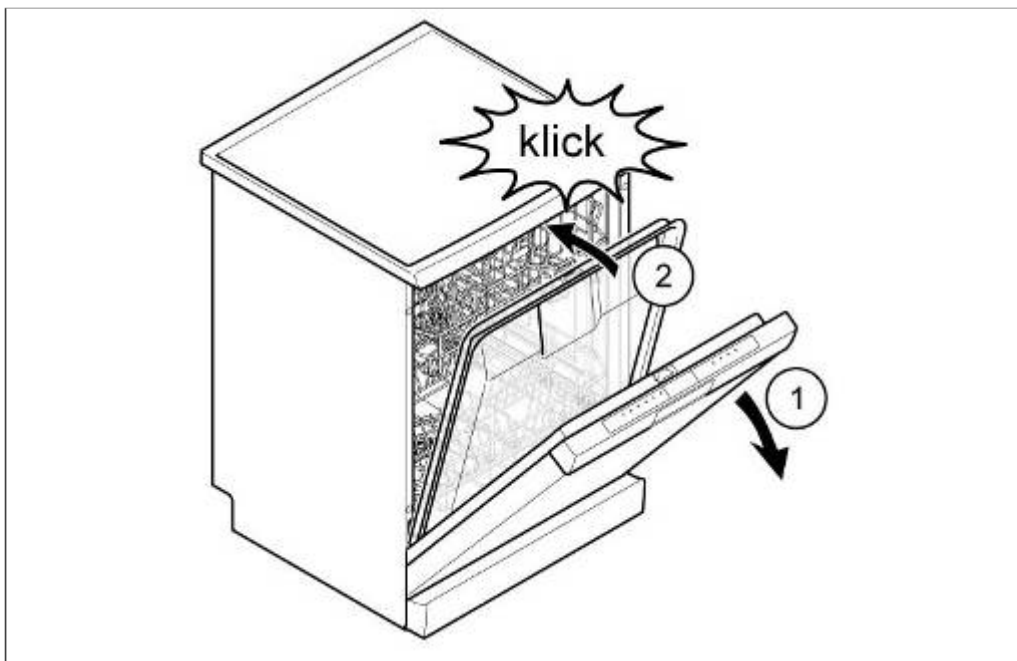
1. Using a screwdriver, bend hinge plate catch mechanism outwards.



- Take the hose bushing out of the base pan.
1. Insert panel.
  2. Lock panel.



## 5.42 Transparent door



1. Open appliance door.
2. Place transparent door in the appliance and engage at the top in the door lock.

Order numbers:

Transparent door 81 cm: 341333

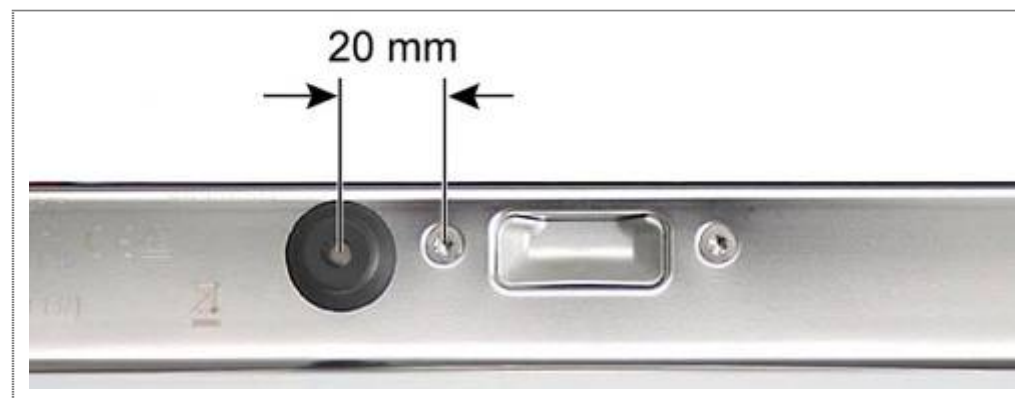
Transparent door 86 cm: 341334

Magnet: 341332



## Permanent magnet

- ▶ If using the transparent door, a permanent magnet must be positioned in the inside door. It is used to signal “door closed” to the door contact switch. The door contact switch responds to the direction of the magnetic field.
- ▶ If required, turn the permanent magnet until the appliance detects the magnetic field correctly.
- ▶ If the snap lock is locked manually, the system must be released again. To do this, close the door firmly



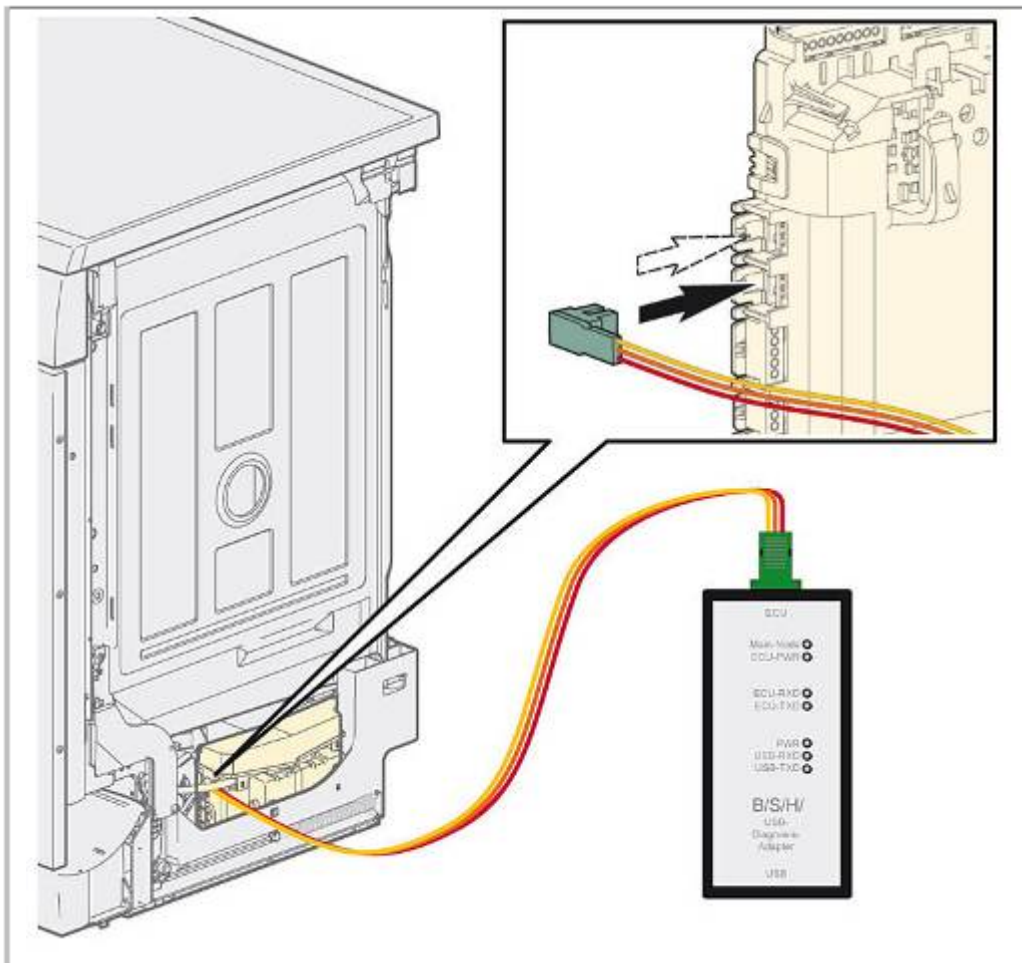
1. Attach suction button with magnet to the upper edge of the inner door.





### 5.43.2 UDA connection to the power module

The UDA connection cable can also be connected directly to the power module. The Y-cable must not be used for this connection.



Insert UDA connection cable into the free i-Service/D-Bus<sup>2</sup> connection. If both slots are occupied, unplug the lower plug and use this slot. The function of the operating module is then retained.

### 5.43.3 Software



Open iService Software on the computer and load appliance software. When flashing is complete, switch off the appliance and disconnect from the power supply (reset mains)

After the main reset, a software / programm reset must be done in any case.





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# ADDENDUM

## Service Program (3 pages)

This section provides instructions on how to enter and exit the Service Program, run Service Diagnostics, and access Error Codes for the Jenn-Air Flush Mount Dishwasher.

## Service Diagnostics (3 pages)

This section provides information on the Service Diagnostic program for the Jenn-Air Flush Mount Dishwasher. Diagnostic tests includes component activation, checks and measurements, anticipated values, and approximate time per tests. NOTE: Some tests cannot be skipped.

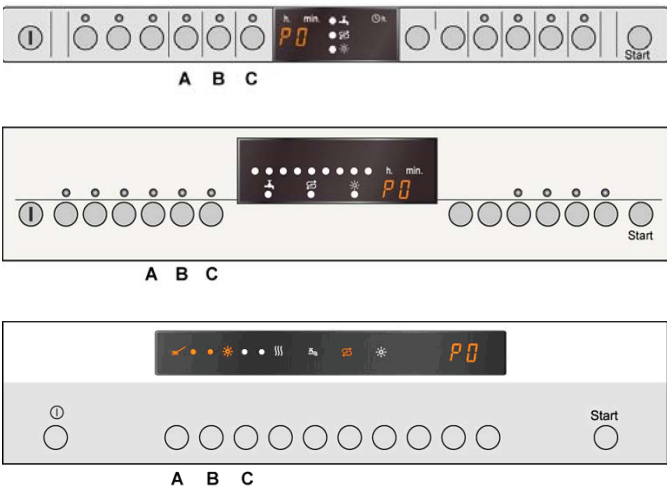
## Error Codes (5 pages)

This section provides a list of the Error Codes for the Jenn-Air Flush Mount Dishwasher. Additional information includes a description of the codes, appliance behavior, and possible causes.





# Service Program

| Function | Actuation | Display | Remark |
|----------|-----------|---------|--------|
|----------|-----------|---------|--------|



## 1.1 Operating diagram

|  |                                                                                                                                                                                                                                                                                                                      |  |                                                                                        |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------|
|  |  <p>The diagrams illustrate three different control panel layouts for the appliance. Each layout includes a main switch (I), buttons A, B, and C, a digital display showing 'PD' and 'h. min.' indicators, and a Start button.</p> |  | <p>Button name</p> <p>Panels are by way of example, different designs are possible</p> |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------|



## 1.2 Special programmes

|                     |                                                                                      |  |                                                                                                                                                                                                                                                                                                      |
|---------------------|--------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Precondition</b> |   |  | <p>Switch on the appliance:</p> <ul style="list-style-type: none"> <li>- Appliance is in rinsing program -&gt; in this case carry out "Reset", switch off the appliance and switch it on again.</li> <li>- Appliance is in program selection -&gt; in this case see next step (selection)</li> </ul> |
| <b>Selection</b>    |  |  | Switch off the appliance                                                                                                                                                                                                                                                                             |
|                     |  |  | Press and hold down buttons "B" + "C"                                                                                                                                                                                                                                                                |
|                     |  |  | Press the main switch                                                                                                                                                                                                                                                                                |




## Service Program

| Function | Actuation                                                                          | Display                                      | Remark                                                                                                                                                                                                                                                         |
|----------|------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |  | P0                                           | Release buttons when P0 is displayed                                                                                                                                                                                                                           |
| Select   |  | P0 ... P7                                    | Press button "B" until required programme is selected                                                                                                                                                                                                          |
|          |                                                                                    | P0<br>P1<br>P2<br>P3<br>P4<br>P5<br>P6<br>P7 | Error memory<br>Customer service test programme<br>Not relevant to customer service<br>Not relevant to customer service<br>Not relevant to customer service<br>Not relevant to customer service<br>Not relevant to customer service<br>Demonstration programme |









### 1.3 Read out error memory

|  |                                                                                    |                            |                                                                                                       |
|--|------------------------------------------------------------------------------------|----------------------------|-------------------------------------------------------------------------------------------------------|
|  |  | P0                         | Activate: Press button "C"                                                                            |
|  |  | C:00...C:07<br>E:00...E:32 | Storage space number: Hold down button "C"<br>Storage space contents (fault code): Release button "C" |

### 1.4 Customer service test programme

|                |                                                                                      |             |                                                                                             |
|----------------|--------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------------|
|                |  | P1          | Press button "B" until P1 is displayed                                                      |
|                |  | S:00...S:xy | Activate: Press button "C"                                                                  |
| Skip test step |  | S:00...S:xy | Press button "B"<br>Not all test steps can be skipped (see customer service test programme) |

# Service Program

| Function                                | Actuation                                                                           | Display | Remark                                                                                                                       |
|-----------------------------------------|-------------------------------------------------------------------------------------|---------|------------------------------------------------------------------------------------------------------------------------------|
| <b>1.5 Special programme stopped</b>    |                                                                                     |         |                                                                                                                              |
| In error memory (P0)                    |    |         | Switch off main switch                                                                                                       |
| In customer service test programme (P1) |    | 0:01    | Press "Start" button for 3 seconds (Reset)                                                                                   |
|                                         |    |         | Switch off main switch                                                                                                       |
| <b>1.6 Demonstration programme</b>      |                                                                                     |         |                                                                                                                              |
| Select                                  |    | P7      | Press button "B" until P7 is displayed                                                                                       |
|                                         |    | 1:23    | Activate: Press button "C"                                                                                                   |
|                                         | Door                                                                                |         | If operation from front:<br>Open and close door again<br><br>If operation from above:<br>Close and open door and close again |
| End                                     | Door                                                                                |         | Only if operation from above:<br>When programme is running, open door                                                        |
|                                         |  | 0:01    | Press "Start" button for 3 seconds (Reset)                                                                                   |
|                                         |  |         | Hold down buttons "B" + "C"                                                                                                  |
|                                         |  |         | Switch off main switch                                                                                                       |

## Service Diagnostics

| Function                                     | Display | Remark         |                 |       |                                                   |                                                                                                                                |
|----------------------------------------------|---------|----------------|-----------------|-------|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
|                                              | Display | Can be skipped | Time (s)        | Value | Check / Measure                                   | Remark                                                                                                                         |
| <b>1.1 Customer Service Program</b>          |         |                |                 |       |                                                   |                                                                                                                                |
| <b>Preparation</b>                           |         |                |                 |       | Remove approx. 0.5 l water from salt dispenser.   | Regeneration valve must be checked for leaks at appropriate customer specifications (see also steps with display S:04 + S:17)  |
| <b>CoilCheck</b>                             | S:00    | No             | approx 20       |       |                                                   | Check the drain pump. Activate the drain pump and place the water switch in the top basket position.                           |
| <b>Check flow sensor and flow controller</b> | S:01    | No             | approx . 10-100 |       |                                                   | Add 50 ml (filling valve, drainage pump and circulation pump are activated in succession).                                     |
| <b>Pause</b>                                 | S:02    | No             | 10              |       |                                                   |                                                                                                                                |
| <b>Fill + pump</b>                           | S:03    | No             | approx 100      |       |                                                   | Heat exchanger is overfilled, residual quantity in the pump sump is pumped off ==> heat exchanger full (contains 3.1 l water). |
| <b>Pause</b>                                 | S:04    | No             | 10              |       | Visual inspection: water level in salt dispenser. | No change to water level ==> Regeneration valve leakproof.                                                                     |
| <b>Fill</b>                                  | S:05    | No             | approx 40       | 1,5 l | Check waterinlet amount                           | Within of 40s should the filling amount achieved. The heat exchanger will be overfilled.                                       |
| <b>Pause</b>                                 | S:06    | No             | 10              |       | Visual inspection: water level in appliance.      | Water level on upper edge of fine mesh filter (= 1.5 l in pump sump).                                                          |
| <b>Fill</b>                                  | S:07    | No             | approx 60       | 2,5 l |                                                   | Total: 4 l in appliance                                                                                                        |
| <b>Circulate</b>                             | S:08    | No             | 15              |       |                                                   | Circulation pump must not "snorkel".                                                                                           |
| <b>Dispense (detergent)</b>                  | S:09    | No             | 10              |       |                                                   |                                                                                                                                |



## Service Diagnostics

| Function                                                   | Display | Remark         |            |       |                                                   |                                                                                                                    |
|------------------------------------------------------------|---------|----------------|------------|-------|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
|                                                            | Display | Can be skipped | Time (s)   | Value | Check / Measure                                   | Remark                                                                                                             |
| <b>Circulate + heat + calibrate AquaSensor</b>             | S:10    | Nein           | 110        |       |                                                   |                                                                                                                    |
| <b>Circulate + heat</b>                                    | S:11    | Yes            |            | 40 °C |                                                   | Increase of temperature during heating +2.5 °C/min                                                                 |
| <b>Pause</b>                                               | S:12    | No             | 5          |       |                                                   |                                                                                                                    |
| <b>Circulate + dispense (rinse aid)</b>                    | S:13    | No             | 60         |       |                                                   | Number of impulses = set value of dispensed rinse aid                                                              |
| <b>Circulate + heat + change position of water switch</b>  | S:14    | Yes            | approx 480 | 65 °C |                                                   | Increase of temperature during heating +2.5 °C/min. Change every 30 s roof shower head, top basket, bottom basket. |
| <b>Pump off</b>                                            | S:15    | No             | 45         |       |                                                   | Tightness test of outlet valve<br>Water-level at heat exchanger is not supposed to falling off                     |
| <b>Drain heat exchanger</b>                                | S:16    | No             | 60         |       |                                                   | Check outlet valve                                                                                                 |
| <b>Pause</b>                                               | S:17    | No             | 10         |       | Visual inspection: water level in appliance.      | Water level must be over handle of coarse filter                                                                   |
| <b>Pump off + drain heat exchanger + fill + regenerate</b> | S:18    | No             | approx 20  |       |                                                   | Drain the complete appliance                                                                                       |
| <b>Pause</b>                                               | S:19    | No             | 10         |       | Visual inspection: water level in salt dispenser. | Water level in salt dispenser must be increased by several cm.                                                     |
| <b>Pump off + drain heat exchanger + fill</b>              | S:20    | No             | approx 100 | 4 l   |                                                   | Rinse the brine solution out of the heat exchanger and pump sump.                                                  |






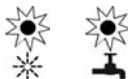







## Service Diagnostics

| Function                                                                        | Display                            | Remark         |               |       |                        |                                                                                                 |
|---------------------------------------------------------------------------------|------------------------------------|----------------|---------------|-------|------------------------|-------------------------------------------------------------------------------------------------|
|                                                                                 | Display                            | Can be skipped | Time (s)      | Value | Check / Measure        | Remark                                                                                          |
| Pump off + drain (heat exchanger)                                               | S:21                               | No             | 30            |       |                        | Drain the complete appliance                                                                    |
| Check whether appliance was drained (activates circulation pump and drain pump) | S:22                               | No             | approx 10-120 |       |                        | Self-check whether appliance was drained.                                                       |
| End of test programme                                                           | „0“ on display or „End LED“ is lit |                |               |       | Switch off main switch | Test has ended. When the appliance is next switched on, the normal rinse programme is displayed |
|                                                                                 |                                    |                |               |       |                        |                                                                                                 |




### 1.2 Reset program

|       |  |  |  |  |               |                                                                                  |
|-------|--|--|--|--|---------------|----------------------------------------------------------------------------------|
| Reset |  |  |  |  | Perform reset | Is possible at any time by pressing the button “Start” for longer than 3 seconds |
|       |  |  |  |  |               |                                                                                  |












# Error Codes

| Display CS Program                                                                               |                                                                                                                                                                                                                                                             | Display Customer |                                                                                     | Description                                                                                                                                                                                                            | Appliance behaviour                                                                                                  | Results of internal check                                                                                      | Measures                                                                                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Display                                                                                          | LED<br>Act. Clean Sani<br>End                                                                                                                                                                                                                               | Display          | LED<br>End                                                                          |  LED off<br> LED on<br>flashes slow<br>flashes quick |                                                                                                                      |                                                                                                                |                                                                                                                                                                                                                                                                                     |
| E:00                                                                                             |          |                  |                                                                                     | No error                                                                                                                                                                                                               | ---                                                                                                                  |                                                                                                                | ---                                                                                                                                                                                                                                                                                 |
| h:00 – h:24                                                                                      |                                                                                                                                                                                                                                                             |                  |                                                                                     | No error                                                                                                                                                                                                               | Appliance does not start                                                                                             | Delay timer is activated!                                                                                      | No appliance fault!                                                                                                                                                                                                                                                                 |
| All LED´s are on                                                                                 |                                                                                                                                                                                                                                                             |                  |                                                                                     | Interface error                                                                                                                                                                                                        | Appliance without function                                                                                           | Appliance must be disconnected from the power supply after flash process (main switch on/off is not adequate!) |                                                                                                                                                                                                                                                                                     |
|  LED´s flashing |                                                                                                                                                                                                                                                             |                  |                                                                                     |                                                                                                                                                                                                                        | Stops in current position, Appliance without function                                                                | Communication error between the electronics                                                                    | <ul style="list-style-type: none"><li>– Check D-bus plug-and-socket connections (3-pole wire) for electrical connection faults</li><li>– Disconnect appliance from the power supply (unplug and plug in again)</li><li>– Run Flash process again</li><li>– Replace module</li></ul> |
| E:01                                                                                             |    | E:01             |    | Internal fault power module                                                                                                                                                                                            | → End of programme                                                                                                   | Pump control or pump switchover defective                                                                      | Replace the power module                                                                                                                                                                                                                                                            |
| E:02                                                                                             |                                                                                                                                                                                                                                                             | E:02             |                                                                                     |                                                                                                                                                                                                                        | Operates without heater                                                                                              | Working relay for heater defective                                                                             |                                                                                                                                                                                                                                                                                     |
| E:03                                                                                             |                                                                                                                                                                                                                                                             | E:03             |                                                                                     |                                                                                                                                                                                                                        | Operates without auxiliary drying system                                                                             | Working relay for auxiliary heater defective                                                                   |                                                                                                                                                                                                                                                                                     |
| E:04                                                                                             |                                                                                                                                                                                                                                                             | E:04             |                                                                                     |                                                                                                                                                                                                                        | Operates without heater                                                                                              | - Ground fault at zeolite heater<br>- Safety relay heater defective                                            | - Replace zeolite heater<br>- Replace the power module                                                                                                                                                                                                                              |
| E:05                                                                                             |                                                                                                                                                                                                                                                             | E:05             |  |                                                                                                                                                                                                                        | Due to manufacture, new appliances until FD9108 may have stored error code E:04 once during the first 8 wash cycles. |                                                                                                                | No appliance fault!                                                                                                                                                                                                                                                                 |
| E:05                                                                                             |                                                                                                                                                                                                                                                             | E:05             |  |                                                                                                                                                                                                                        | Water switch is running continuously → programme termination with draining                                           | Triac for water switch motor defective                                                                         | Replace the power module                                                                                                                                                                                                                                                            |
| E:06                                                                                             |                                                                                                                                                                          | E:06             |                                                                                     | Door Hall sensor fault                                                                                                                                                                                                 | Stops in current position, appliance without function                                                                | Wire to the Hall sensor interrupted or power module defective                                                  | Check wire / plugs<br>Measure supply voltage on the Hall sensor                                                                                                                                                                                                                     |
|                                                                                                  |                                                                                                                                                                                                                                                             |                  |                                                                                     |                                                                                                                                                                                                                        |                                                                                                                      | Hall sensor defective                                                                                          | → If voltage on the Hall sensor is o.k., replace Hall sensor                                                                                                                                                                                                                        |








## Error Codes

| Display CS Program |                                                                                   | Display Customer |            | Description                                                                                                                                                                                                            | Appliance behaviour                                                                                 | Results of internal check                                                                            | Measures                                                                                                |
|--------------------|-----------------------------------------------------------------------------------|------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Display            | LED<br>Act.   Clean   Sani<br>End                                                 | Display          | LED<br>End |  LED off<br> LED on<br>flashes slow<br>flashes quick |                                                                                                     |                                                                                                      |                                                                                                         |
| E:07               |  |                  |            | Heating fault                                                                                                                                                                                                          | Operates without auxiliary drying system                                                            | Fan defective or blocked, module on the fan defective                                                | Check components and connection wires, measure winding. (Only on appliances with Zeolite drying system) |
| E:08               |                                                                                   |                  |            |                                                                                                                                                                                                                        | Operates without heater                                                                             | Heat pump detects too low water level in pump sump.                                                  | Heat exchanger valve leaky<br>Bowls / pans overturned in the appliance?                                 |
| E:09               |                                                                                   | E:09             |            |                                                                                                                                                                                                                        |                                                                                                     | Low voltage                                                                                          | no appliance fault!                                                                                     |
| E:10               |                                                                                   |                  |            |                                                                                                                                                                                                                        | Operates without Zeolite - drying system<br>(Applies only to appliances with Zeolite drying system) | Heating circuit interrupted (resistance, supply wires, contacts of the safety relay on power module) | Measure heater resistance<br>Check wires                                                                |
| E:11               |                                                                                   | E:11             |            |                                                                                                                                                                                                                        |                                                                                                     | Zeolite heater heating circuit interrupted (resistance / supply wires)                               | Measure heater resistance<br>Check wires                                                                |
| E:12               |                                                                                   |                  |            |                                                                                                                                                                                                                        |                                                                                                     | Fan module defective                                                                                 | Check component                                                                                         |
| E:13               |                                                                                   |                  |            |                                                                                                                                                                                                                        |                                                                                                     | Wires interrupted                                                                                    | Check wires                                                                                             |
|                    |                                                                                   |                  |            |                                                                                                                                                                                                                        | Operates without heater                                                                             | NTC resistance values outside permitted range                                                        | Measure NTCs                                                                                            |
|                    |                                                                                   |                  |            |                                                                                                                                                                                                                        |                                                                                                     | Wire or plug interrupted                                                                             | Check wires / plugs                                                                                     |
|                    |                                                                                   |                  |            |                                                                                                                                                                                                                        | Operates without auxiliary drying system                                                            | NTC resistance values outside permitted range                                                        | Measure NTCs                                                                                            |
|                    |                                                                                   |                  |            |                                                                                                                                                                                                                        | Operates without heater                                                                             | Water temperature too high (>75 °C)                                                                  | Protective measure – no appliance fault! Check temperature of water supply                              |

## Error Codes







| Display CS Program |                                                                                                                                                                                                                                                       | Display Customer |                                                                                                | Description                                                                                                                                                                                                            | Appliance behaviour                            | Results of internal check                                                        | Measures                                                     |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------------|
| Display            | LED<br>Act.   Clean   Sani<br>mm   End                                                                                                                               | Display          | LED<br>End    |  LED off<br> LED on<br>flashes slow<br>flashes quick |                                                |                                                                                  |                                                              |
| E:14               |    | E:14             | ● ●                                                                                            | Filling fault                                                                                                                                                                                                          | Programme stops with draining                  | No impulses from flow sensor, although water is detected by heat pump            | Check wires, test flow sensor (reed switch)                  |
| E:15               |                                                                                                                                                                                                                                                       | E:15             | ●             |                                                                                                                                                                                                                        | Programme stops with intermittent pumping      | Base carrier safety switch active. Appliance cannot be switched off              | Search for cause of water in the base carrier                |
| E:16               |                                                                                                                                                                                                                                                       | E:16             | ●                                                                                              |                                                                                                                                                                                                                        |                                                | Water supply (impulses from flow sensor) without activation of the filling valve | Check filling valve<br>Check actuation of filling valve      |
| E:17               |                                                                                                                                                                                                                                                       | E:17             | ●                                                                                              |                                                                                                                                                                                                                        | Programme stops with draining                  | Water supply rate too high according to flow sensor                              | Check flow controller in the filling valve                   |
| E:18               |                                                                                                                                                                                                                                                       |                  | ●                                                                                              |                                                                                                                                                                                                                        | Wait for supply; programme stops with draining | Water supply rate too low according to flow sensor or no water supply            | Check water supply                                           |
| E:19               |    |                  |                                                                                                | Circulation pump fault                                                                                                                                                                                                 |                                                | Reserved                                                                         | - - -                                                        |
| E:20               |                                                                                                                                                                                                                                                       | E:20             | ●                                                                                              |                                                                                                                                                                                                                        | → End of programme                             | Resistance values of heat pump wrong                                             | Check wires / plugs<br>Measure resistance values of windings |
| E:21               |                                                                                                                                                                                                                                                       | E:21             | ●                                                                                              |                                                                                                                                                                                                                        | → End of programme                             | Heat pump blocked                                                                | Check heat pump for foreign objects, if required replace     |

## Error Codes

| Display<br>CS Program |                                                                                                                            | Display<br>Customer |                                                                                                | Description                                                                                                                                                                                                            | Appliance behaviour                     | Results of internal check            | Measures                                                       |                                                                                                       |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Display               | LED<br>Act.   Clean   Sani<br>mm   End    | Display             | LED<br>End    |  LED off<br> LED on<br>flashes slow<br>flashes quick |                                         |                                      |                                                                |                                                                                                       |
| E:22                  |                                           | E:22                | ●                                                                                              | ●                                                                                                                                                                                                                      | Drain pump fault                        | → End of programme                   | Residual water in the pump sump, as filters dirty              | Clean filters                                                                                         |
| E:23                  |                                                                                                                            | E:23                | ●                                                                                              |                                                                                                                                                                                                                        |                                         | → End of programme                   | Resistance values of drain pump wrong                          | Check wires / plugs<br>Measure resistance values of windings                                          |
| E:24                  |                                                                                                                            | E:24                | ●                                                                                              | ●                                                                                                                                                                                                                      |                                         | → End of programme                   | Non-return valve leaky                                         | Check non-return valve for leaks                                                                      |
|                       |                                                                                                                            |                     |                                                                                                |                                                                                                                                                                                                                        |                                         |                                      | Draining not possible. Drain pump cover missing from pump sump | Check water drainage (hose kinked, blocked, delivery height, pump cover)<br>→ Attach drain pump cover |
|                       |                                                                                                                            |                     |                                                                                                |                                                                                                                                                                                                                        |                                         |                                      | Drain pump blocked (from FD 9101 till FD 9108)                 | Check drain pump for foreign objects                                                                  |
| E:25                  | E:25                                                                                                                       | ●                   | ●                                                                                              | → End of programme                                                                                                                                                                                                     | Drain pump blocked                      | Check drain pump for foreign objects |                                                                |                                                                                                       |
|                       |                                                                                                                            |                     |                                                                                                |                                                                                                                                                                                                                        | Drain pump cover missing from pump sump | Attach drain pump cover              |                                                                |                                                                                                       |
| E:26                  |                                         |                     |                                                                                                |                                                                                                                                                                                                                        | Water switch fault                      | Permanet activation of water switch  | No impulses from water switch despite actuation                | Check wires<br>Measure mains voltage on the motor<br>Test switch at water switch                      |
| E:27                  |                                         | E:27                | ●                                                                                              |                                                                                                                                                                                                                        | Undervoltage fault                      | → End of programme                   | Continuous undervoltage (<170 V)                               | No appliance fault!                                                                                   |
| E:28                  |                                                                                                                            |                     |                                                                                                |                                                                                                                                                                                                                        | AquaSensor fault                        | Operates without AquaSensor          | Appliance without AquaSensor                                   | Appliance equipped with AquaSensor?                                                                   |
|                       |                                                                                                                            |                     |                                                                                                |                                                                                                                                                                                                                        |                                         |                                      | Calibration of AquaSensor not successful                       | Check wires<br>AquaSensor dirty?                                                                      |



## Error Codes

| Display<br>CS Program |                                                                                                                     | Display<br>Customer |                                                                                         | Description                                                                                                                                                                                                                                                                                                                                                                                | Appliance behaviour                                                                                         | Results of internal check     | Measures                         |
|-----------------------|---------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------------|
| Display               | LED                                                                                                                 | Display             | LED                                                                                     |  LED off<br> LED on<br> flashes slow<br> flashes quick |                                                                                                             |                               |                                  |
|                       | Act.   Clean   Sani<br>mm   End    |                     | End    |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                             |                               |                                  |
| E:29                  |                                                                                                                     |                     |                                                                                         | Internal error codes                                                                                                                                                                                                                                                                                                                                                                       | Stops in current position, appliance without function, Malfunctions, unsatisfactory rinsing / drying result | Undervoltage (<170 V / 190 V) | No appliance fault!              |
| E:30                  |                                                                                                                     |                     |                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                            | Appliance switches off                                                                                      | Overvoltage (>290 V)          | No appliance fault!              |
| E:31                  |                                                                                                                     |                     |                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                             | Reserved                      | Not relevant to customer service |
| E:32                  |                                                                                                                     |                     |                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                             | Reserved                      | Not relevant to customer service |
|                       |                                                                                                                     |                     |                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                             |                               |                                  |

# **PRODUCT SPECIFICATIONS & WARRANTY INFORMATION SOURCES**

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## ***IN THE UNITED STATES:***

### **FOR PRODUCT SPECIFICATIONS AND WARRANTY INFORMATION CALL:**

1-800-JENNAIR  
(1-800-536-6247)

Website:  
[www.jennair.com](http://www.jennair.com)

### **FOR TECHNICAL ASSISTANCE WHILE AT THE CUSTOMER'S HOME CALL:**

THE TECHNICAL ASSISTANCE LINE: 1-800-832-7174

**HAVE YOUR STORE NUMBER READY TO IDENTIFY YOU AS AN AUTHORIZED IN-HOME SERVICE PROFESSIONAL**

### **FOR LITERATURE ORDERS (CUSTOMER EXPERIENCE CENTER):**

PHONE: 1-800-851-4605

### **FOR TECHNICAL INFORMATION AND SERVICE POINTERS:**

[www.servicematters.com](http://www.servicematters.com)

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## ***IN CANADA:***

### **FOR PRODUCT SPECIFICATIONS AND WARRANTY INFORMATION CALL**

1-800-JENNAIR  
(1-800-536-6247)

Website:  
[www.jennair.ca](http://www.jennair.ca)

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