



GLASS AND DISHWASHERS



AUP SERIES

INSTALLATION AND OPERATION INSTRUCTIONS

Starting from Serial No.:
8658 0001

REV. 04.08.2008

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1 | IMPORTANT NOTES

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Use in Accordance with Regulations

This machine is exclusively to be used to wash ware such as plates, cups, glasses, cutlery, trays etc.
Do not use for electrically heated cooking and heat conservation appliances.

Safety

Never hose down the machine.



The "**Attention**" symbol is shown beside instructions that are essential for the **safe operation** of the machine.
Please read these passages thoroughly.

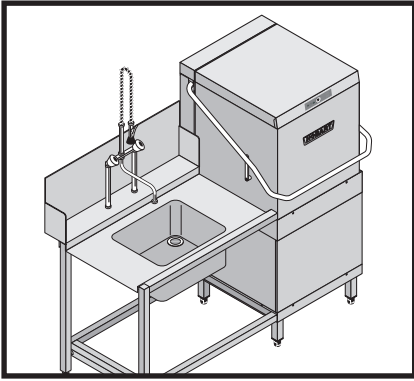
Liability

Installations and repairs which are carried out by **non authorized technicians** or the use of **other than original spare parts**, and any **technical alterations** to the machine, **may affect the warranty set out in the standard conditions of sale.**

Machine noise level:

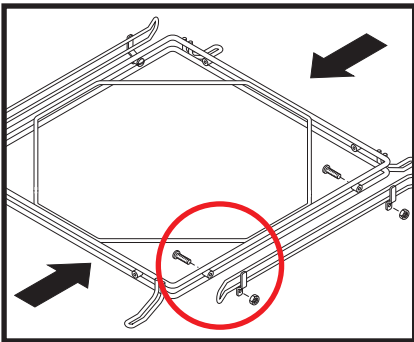
The machine noise level is ≤ 70 dB (A).

2 | INSTALLATION



2.1 | LOCATION

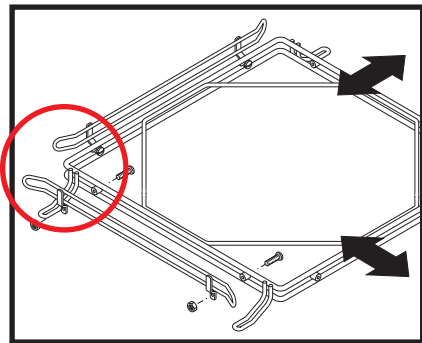
- Rear wall clearance not required.
For corner installation lateral clearance of 107 mm is required.
For free-standing installation the optional rear panel has to be installed.
- Level machine by turning the feet.
- Distribute machine weight equally onto all feet.

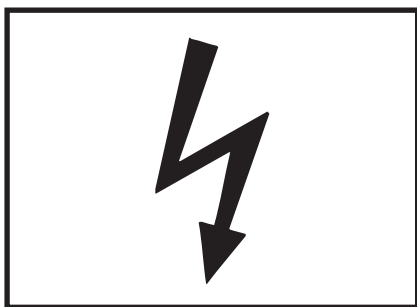


2.2 | CONVERTING TO CORNER OPERATION

Depending on direction of operation, the guide rails may need to be adjusted to suit the direction of operation (see arrows).

- Unscrew the guide rail in front.
- Refit guide rail at right angle according to the direction of operation.





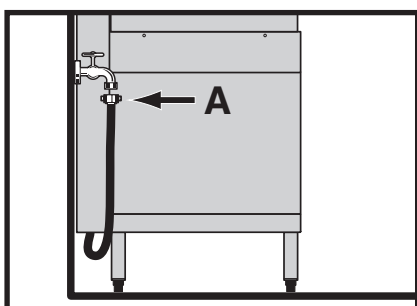
2.3 ELECTRICAL CONNECTION



Must be carried out by an authorized technician according to the local and national codes.

- The electrical supply shall comply with the name-plate data.
With voltage 400/50/3/N reduced booster loading can be realised according to wiring diagram.
- Line fuses and cable cross section shall comply with the requirements.
- A cut-off device shall be provided to connect the supply cord (isolating switch or accessible plug device).

According to EN 60 335 the appliance must be connected to an equipotential conductor. The connecting screw (⚡) is located beside the cable inlet.



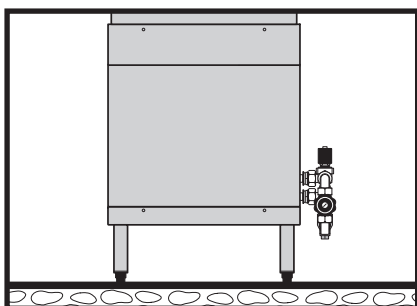
2.4 WATER CONNECTION



Must be carried out by an authorized technician according to the national and local codes.

**The machine must be operated with potable water.
For water with an extremely high mineral content an external demineralisation is strongly recommended.**

- **Machines without softener:** Connect to soft and if possible warm water (up to 4° Clark = 0.5 mmol/l, **max. 60°C**).
- **Machines with softener:** Connect to warm water (**max. 60°C**) if possible.
- Line flow pressure 0.5 – 10 bar.
Important: the line flow pressure must not be less than 0.5 bar.
- **If the line flow pressure is above 10 bar provide pressure reducer at source.**
- Connect the union nut "A" (3/4") of the water supply hose to the site shut off valve.
- Do **not kink** or **cut** the supply hose.
If an extended supply hose is required, use one of the same specifications as the original.

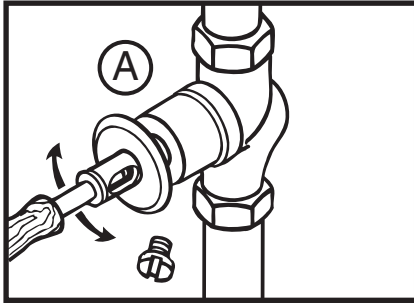


2.5 STEAM CONNECTION (STEAM HEATED MACHINES ONLY)



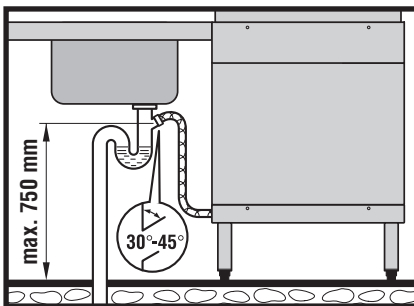
Must be carried out by an authorized technician according to the national and local codes.

- Connection to steam supply (DN 20) at customer site, 0.5 - 3.5 bar (max. 150°C) at the machine.
See data plate!
- Dimension of steam and condensate piping has to be according to the requirements.
- The machine is equipped with all necessary fittings.
- Make sure that permissible pressures and temperatures will not be exceeded.
- All pipework has to be insulated with water and heat resistant material.



2.6 | ADJUSTMENT OF SHUT-OFF VALVE WITH FLOW REDUCER FOR STEAM SUPPLY

- The built-in shut-off valve is equipped with an adjustment device (A) to limit the heating supply medium. A special tool is necessary for adjusting the valve-seat.
- The correct adjustment is very important particularly for higher pressure, and therefore **must be done by a HOBART trained service man** at first installation or after any changes are done at the customer site.
- The adjustment is correct if the heating-up time of the boiler is as long as the shortest wash cycle, while the valve is opened to maximum.
- If adjusted too far open pressure shocks may occur when the solenoid valve closes. This could cause damage at the installation. If adjusted too far close the required heating-power cannot be achieved.

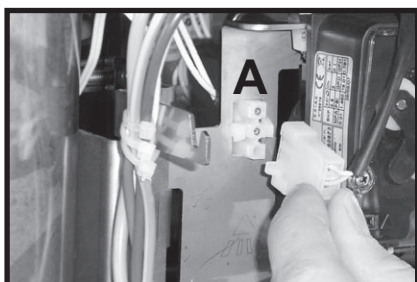
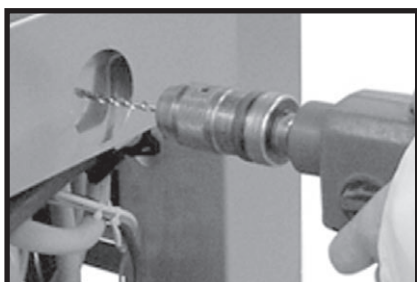
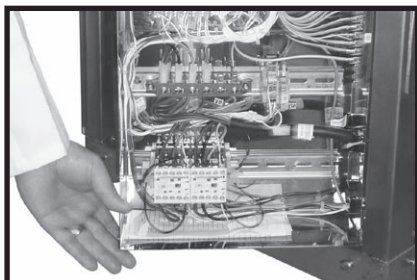
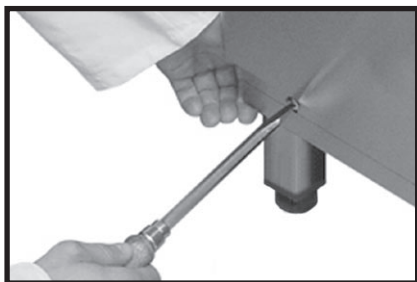


2.7 | DRAIN CONNECTION

- Connection between machine and site drain must not exceed max. height of 0.75 m.
- Do not place the drain hose loosely on the floor (the hose could be rubbed through). Fix it at site!
- Do not kink the drain hose.

3 CONNECTING A POWDER OR SOLID DETERGENT DISPENSER

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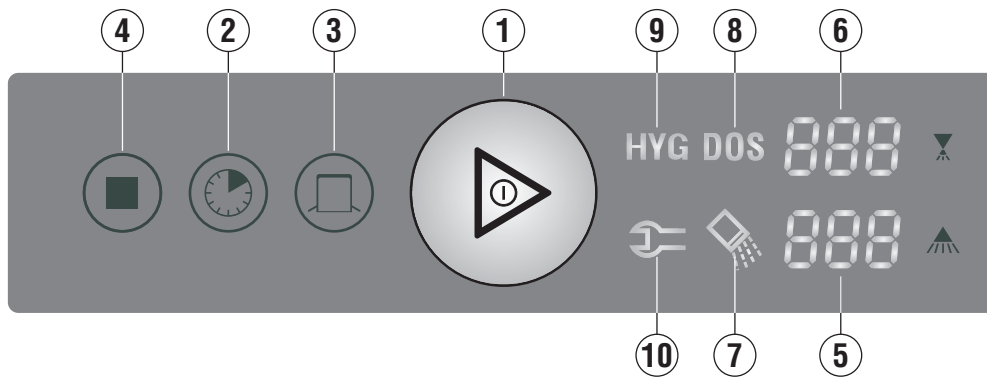


 **Must be carried out by an authorized technician according to the local and national codes.**

- **Tank must be drained.**
- **Switch off main switch or unplug.**
- Remove front panel and the left hand or right hand side panel (according to requirement on site).
- Lift up control box and turn it to front.
- Break out perforated disk at the tank panel (either at the right or left side).
- Drill a hole through the inner tank wall appropriate to the required connection diameter.
- Screw up tightly the dosing connection with tank wall.
- Connect the plug (A) of the wire harness with the dosage pump (max. 100 VA).
- **NOTE: The chemicals deficiency sensor must be deactivated (see chapter 11.9).**
- Close control box and put panels back into place. Switch on main switch at site or put the plug in.
- Dispenser adjustment see **chapter 11.1.**

CONDUCTIVITY PROBE:

- Conductivity probe should be installed at the flat part of tank bottom (see fig.).
- The hole size should be appropriate to the conductivity probe.



① Machine **ON / OFF**

Pushing this button switches the machine on.

By pushing and holding (3 seconds) this button, the drain and self cleaning cycle starts. At the end of the cycle, the machine switches off automatically.

After switch off, the machine is not voltage free!

Furthermore the button illuminates to indicate the mode of the machine:

- GREEN** = Machine is ready for operation
- BLUE** = Wash cycle is running
- RED** = Failure indication (see chapter 10)
- GREEN/RED** (alternate flashing) = Failure indication (see chapter 10)
- BLUE/RED** (alternate flashing) = Failure indication (see chapter 10)



The status of the program is indicated by the color change of the four button segments:

- Filling increasingly GREEN
- Draining decreasingly GREEN
- Washing from BLUE back to GREEN

② **Program** button

By pushing this button, it is possible to select between different preset programs, according to the model and equipment.

The program no. (e.g. **P02**) will be shown in the Display ⑥.

③ **High pressure** button

Activation of high pressure cleaning (see page 13).

Never use for cleaning glasses and light dishes (breakage) !

④ **Stop** button

In case of operating error or faults, it is possible to switch-off the machine immediately without the drain cycle, by pushing this button.

After switch off, the machine is not voltage free!

⑤ **Display**

e.g. temperature indication **Wash** (°C) (see chapter 8).

⑥ **Display**

e.g. temperature indication **Rinse** (°C) (see chapter 8).

⑦ **Salt** required

Indicating the need for regeneration salt to be added. (Only with built-in softener.)

⑧ **Detergent-/rinse aid** indicator

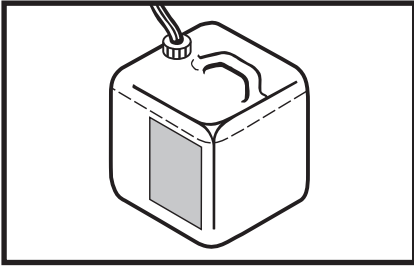
Indicates detergent or rinse aid deficiency.

⑨ **Hygiene** indicator

Indicates that a hygiene cleaning should be carried out (see chapter 7.4).

⑩ **Service** indicator

Indicating, that the machine has a fault (see chapter 10).



5.1 | DETERGENT / RINSE AID

Use only commercial detergent and rinse aid. **Please pay attention to the manufacturers safety instructions.**



The dosing pumps can operate to a maximum head height of 1.5 m. Do not confuse the containers !

5.1.1 | DETERGENT

Do not use any acidic detergent products with the built-in detergent pump! (The ph-value has to be higher than 7.)

- Place the suction hose into the external detergent container. Fill the suction hose according to chapter 5.2.

5.1.2 | RINSE AID

- Place the suction hose (**blue marking**) into the external rinse aid container. Fill the suction hose according to chapter 5.2.

5.1.3 | CHANGING THE TYPE OF DETERGENT / RINSE AID

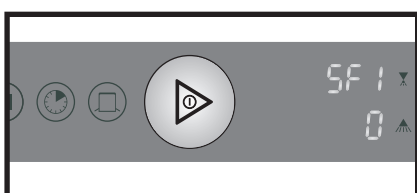
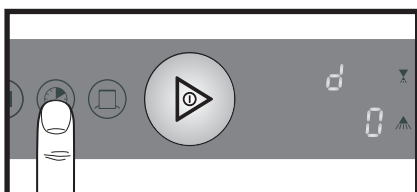
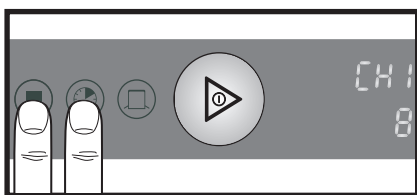
- **Before changing to a different product type** (even from the same supplier), **the suction hoses must be rinsed thoroughly with fresh water** (procedure as described under 5.2). Otherwise, the mixing of different types of chemicals will cause crystallisation, which may result in a malfunction of the dosing pump.
- If a new type of detergent / rinse aid is attached, maybe the deficiency sensor has to be readjusted.
- Contact the after sales service if necessary.

5.2 | PRIMING THE SUCTION HOSES

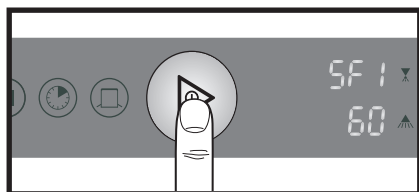
- Is carried out automatically but will take several wash cycles. Therefore we recommend the manual hose priming as follows.



ATTENTION:
The machine has to be switched off.

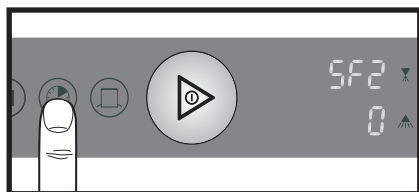


- **Open the hood.**
- Push **Stop** button ④ and **Program** button ② simultaneously until the upper **Display** ⑥ shows "CH1".
- Push **Program** button repeatedly, until "d" is displayed.
- **Close the hood.**
In the upper **Display** appears "SF1", in the lower one "0".



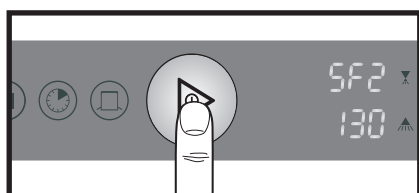
5.2.1 | DETERGENT SUCTION HOSE

- Pushing the **ON/OFF** button ① activates the hose priming for 60 seconds.
Each cycle can be interrupted by pushing the **ON/OFF** button again.



5.2.2 | RINSE AID SUCTION HOSE

- Push the **Program** button ②.
In the upper **Display** ⑥ appears "SF2", in the lower one ⑤ "0".



- Pushing the **ON/OFF** button ① activates the hose priming for 130 seconds.
Each cycle can be interrupted by pushing the **ON/OFF** button again.

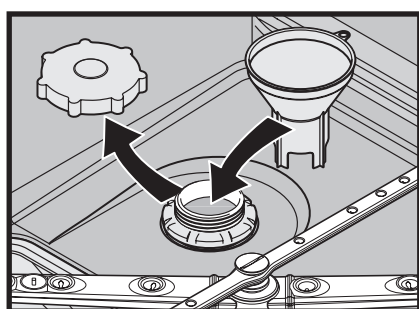
5.2.3 | TERMINATION OF HOSE PRIMING

- **Open hood and close it again or do not press any button for 10 seconds.**

5.3 | SOFTENER (only on option)

For the first run, the softener has to be filled with regeneration salt and potable water.

⚠ Filling the salt reservoir with cleaning agent will damage the water softener.

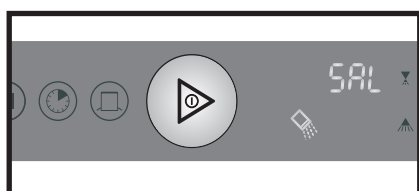


- Open the hood.
- Unscrew the softener lid and fill the softener with **2 kg** of "Granular regeneration salt" (do not use salt tablets).
- Fill up the softener with potable water (only at the first run).

Clean seal and rim of softener lid carefully, before closing the lid.

- Close lid and tighten.

- Adjust the water hardness according to chapter 11.4 !

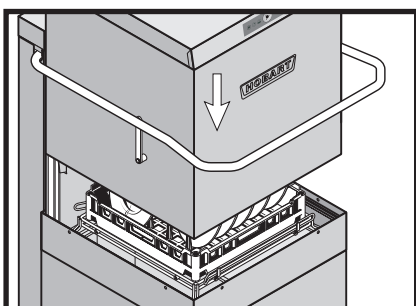
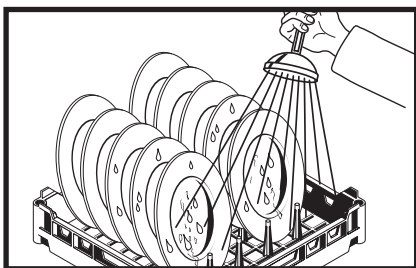
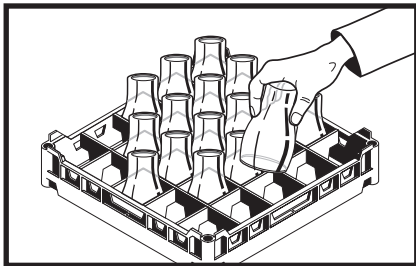
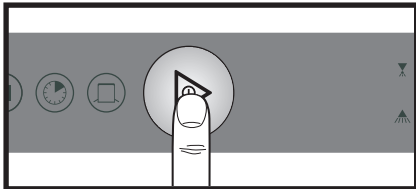
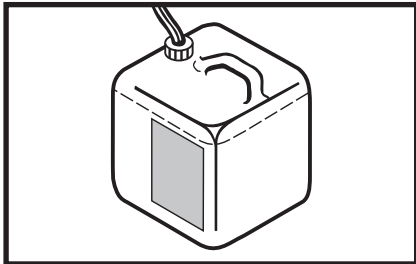
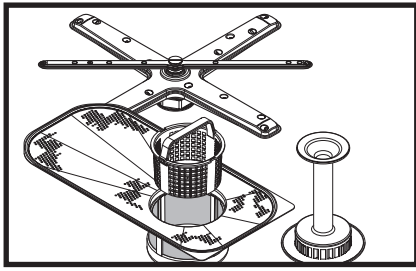


- When the **Salt** indicator ⑦ illuminates during operation, the softener has to be refilled with regeneration salt.
There will be a slight delay before salt light goes out after refill.

6 OPERATION

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6.1 PREPARATION



- Check correct position of rack guide, wash/rinse arms and strainers.
- **Open shut-off valve.**
- **Switch on main switch or put the plug in.**

- Check level of detergent and rinse aid containers.

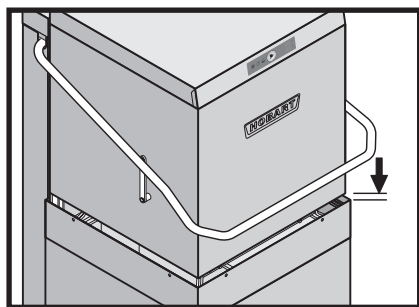
- Close hood and push the **ON/OFF** button ①, tank will be filled.
- The **ON/OFF** button will become gradually **green** during fill and heating cycle. This process can take several minutes. When the button becomes completely **green**, machine is ready for operation.

- Place glasses and cups face downwards into the rack.

- Remove any food debris before loading plates into rack.
- Spray off greasy food soil.

6.2 RUN

- Put rack into the machine and close the hood. During the wash cycle is running, the color of the **ON/OFF** button changes from **blue** increasingly back to **green**.
- As soon as the **ON/OFF** button illuminates completely **green**, the wash cycle is finished.
- Open the hood and take out rack. Allow dishes to dry for 1 minute approx.



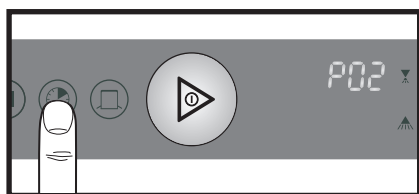
- To avoid heat loss, lower hood to "Stand By" position between wash cycles.

6.3 PROGRAM SELECTION

The machine is operating automatically with standard cycle time. If needed, it is possible to select a shorter or longer program.

To show the present program, push the **Program** button ② before starting the wash cycle.

To change the program, push the **Program** button again.



P01 = Short cycle (for light / medium soiled dishes and glassware)

P02 = Standard cycle (for medium / heavy soiled dishes)

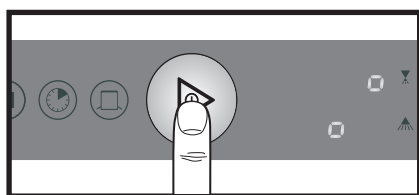
P03 = Long cycle (for dried on soiling and containers)

P04 = Endless cycle

An endless cycle will be indicated by moving light points in the displays.

To stop the wash cycle, push **ON/OFF** button ①. (After 20 minutes the machine will stop automatically.)

After a short break, rinse starts automatically.



H = See chapter 7.4

bc = Stripping cycle (intensive **b**asic **c**leaning, see chap. 9)

The machine continues with the chosen cycle time until it is switched off or another program is chosen.

HIGH PRESSURE CLEANING

Never use for cleaning glasses and light dishes (breakage) !

- To activate high pressure mode for the next or for a running cycle:

Push **High pressure** button ③ **shortly**.

During Stand-by = "HP" flashes

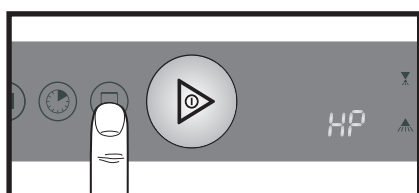
During wash cycle = "HP" illuminates permanently

- To activate high pressure mode permanently for the present program:

Push **High pressure** button for **approx. 3 seconds**.

In the lower **Display** illuminates "HP".

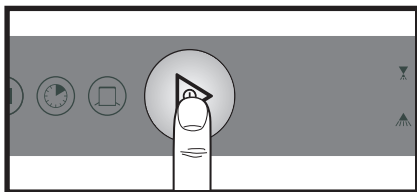
As soon as another program is selected, if the machine is switched off or by pushing the high pressure button again, high pressure cleaning will be deactivated.



7 SWITCH-OFF AND CLEANING THE MACHINE

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7.1 SWITCH-OFF



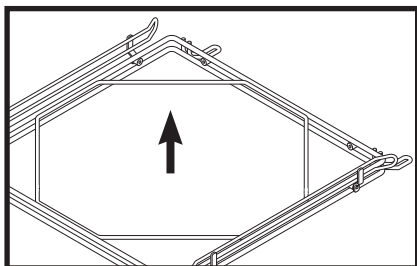
- Close the hood.
Push and hold (approx. 3 seconds) the **ON/OFF** button ① until the first segment of the green illuminated button goes out.


NOTE:

During the drain cycle, the interior of the machine is cleaned automatically. A final inspection is recommended to remove any food debris.

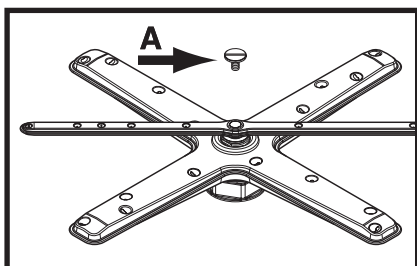
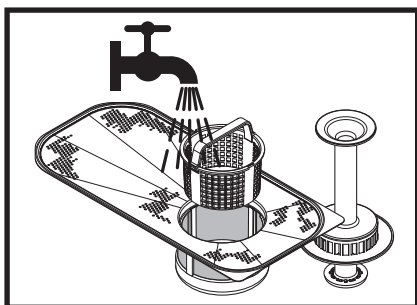
- When the **ON/OFF** button has gone out completely:
Switch off main switch or unplug and close the shut-off valve!

7.2 CLEANING (DAILY)



-  **To clean the machine do not use any chloric, acidic or abrasive products and no metallic brushes.**

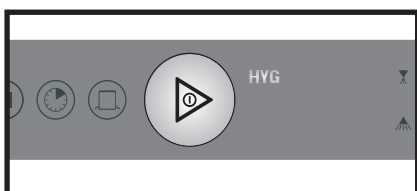
- Open hood and take out rack guide.
- Take out strainers and flush.
Please ensure that food debris does not enter pump intake!
- Clean interior of the machine.
- Put strainers and rack guide back into place.
- Leave hood open for ventilation.



7.3 CLEANING (WEEKLY)

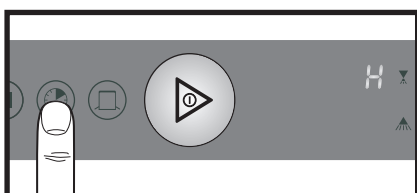
- Take out rack guide.
- Loosen the retaining screws (A) by turning them counter-clockwise.
- Take out and clean wash and rinse arms.

7.4 HYGIENE CLEANING



After reaching a pre-set number of wash cycles the **Hygiene** indicator ⑨ lights up to indicate that an automatic hygiene cleaning of the machine interior should be carried out.

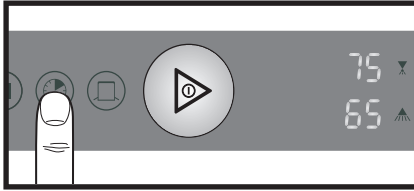
- Before end of operation: Take out rack.
- Remove manually coarse soil from tank strainer.
- Put 2 HOBART-Hygiene-Cleaner Tabs into the machine interior.
- Push **Program** button ② repeatedly until the upper **Display** shows "H".
- Close the hood.
During the Hygiene Program is running (duration 20 minutes) the green illuminated segments go out one after the other.
At the end of the cycle the machine switches off automatically.



If necessary hygiene cleaning should be carried out before reaching the pre-set number of wash cycles. With regular use the machine interior will remain free of food debris and deposits.

8 | PREVIEW OF TEMPERATURES

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- Press and hold (3 seconds) the **Program** button ② until the actual temperatures (°C) are displayed (top = rinse, bottom = wash).
- The indicators go out 10 seconds after releasing the **Program** button.

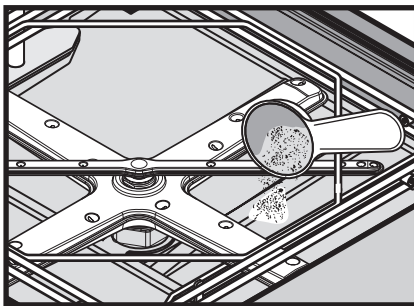
Permanent temperature display can be activated on request by the service technician.

9 | STRIPPING PROGRAM

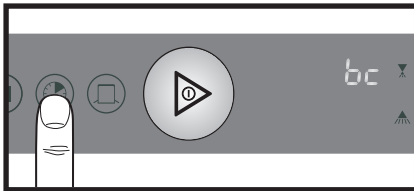
Special program for removal of heavy coatings / deposits
(e.g. protective film on new glasses, starch residues).



Manual dosing of a dedicated powdered detergent required
(according to the recommendation of your chemical supplier).
Please pay attention to the manufacturers safety instructions.



- Open the hood.
- Remove manually coarse soil from tank strainer.
- According to the manufacturers dosing recommendations add powdered detergent for 30 liters of water to the flat side on the right of the tank.



- Push **Program** button ② repeatedly until the upper **Display** shows "**bc**" (basic-cleaning).
- Move rack with washware into the machine and close the hood.
During the stripping cycle (takes approx. 4 minutes), the color of the **ON/OFF** ① button changes from **blue** back to **green**.

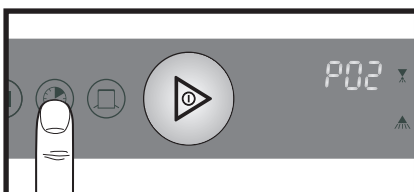
Note:

Depending on the water feed temperature, the cycle can extend up to several minutes.

- As soon as the **ON/OFF** button illuminates completely **green**, the cycle is finished.

NOTE:

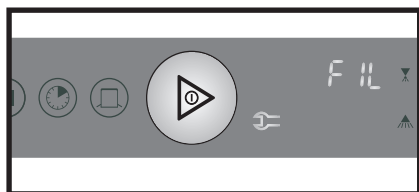
For each following stripping cycle an additional manual dosing is necessary according to 4 liters of water.



- Return to "normal" wash cycle by pushing the **Program** button ②.

10 | FAULTS


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– According to the fault, an error code will be shown in the upper display ⑥ (see table below).

Please report the error code to the service technician.

If the **ON/OFF** button ① is flashing **GREEN/RED** alternately – restricted operation may be possible:

CODE	POSSIBLE CAUSE	MEASURES
AL	Drain hose blocked.	Restart drain cycle. Clean drain hose if necessary.
HEI	Rinse booster heating defective.	Call the after sales service.
d 0	OPTION External demineralisation cartridge depleted.	Replace cartridge.
CH1	DOS Detergent deficiency.	Replace container. After replacement it can take several wash cycles until the indication goes out. If required, hose priming should be carried out according to chapter 5.2.
CH2		
SAL	 Salt deficiency (only with built-in softener).	Refill the softener with granular regeneration salt.
CLOSE Hood	Filling interrupted because hood is open.	Close hood, filling will continue.

The **ON/OFF** button ① illuminates **RED** and the **Service indicator** ⑨ is illuminated:

CODE	POSSIBLE CAUSE	MEASURES
FIL	Shut-off valve is closed.	Open shut-off valve at site and switch on machine again.
	Fill valve or fill system defective.	Call the after sales service.
SIE	Tank strainer not correctly positioned.	Put strainer correctly in place.
UL	Drain hose blocked.	Clean drain hose and restart drain cycle.
	Fill system or drain system defective.	Call the after sales service.
F01	Temperature probe "rinse booster" defective.	Call the after sales service.
F02	Temperature probe "tank" defective.	Call the after sales service.
F03	Pressure transmitter "rinse booster" defective.	Call the after sales service.
F04	Pressure transmitter "tank" defective.	Call the after sales service.

OTHER INDICATIONS

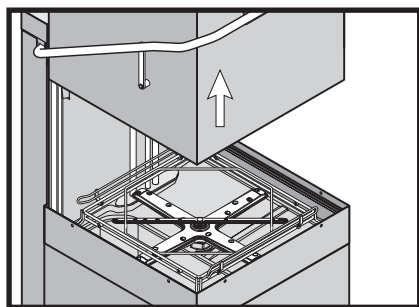
Moving light point in the upper display:

CODE	CAUSE	MEASURES
. . .	Softener regeneration active (only with built-in softener).	None.

The **ON/OFF** button ① is flashing **BLUE/RED** alternately:

CODE	CAUSE	MEASURES
	Wash tank filters blocked.	Remove and flush strainers. Replace in machine, lower hood to recommence wash cycle.

11 | SETTINGS AND COUNTER VALUES



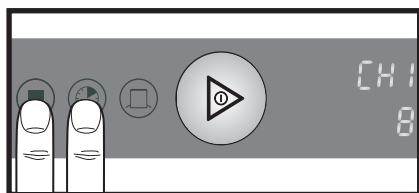
ATTENTION:
The machine has to be switched off.

- Open the hood.

If the hood will be closed or if no button is pressed for 10 seconds, the indicator automatically switches off and the new settings will be saved.

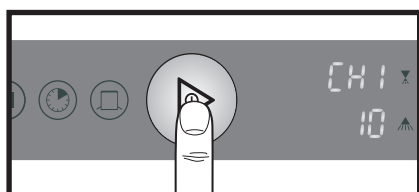
Therefore the setting procedure can be interrupted at any time.

11.1 | ADJUSTMENT OF DETERGENT DOSAGE QUANTITY



- Push **Stop** button (4) und **Program** button (2) simultaneously until in the upper **Display** (6) "CH1" appears.

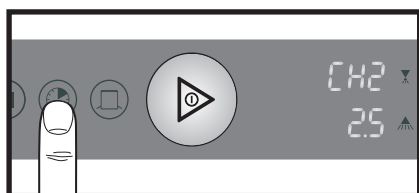
- In the lower **Display** (5) appears e.g.:
"8" = pre-adjusted value of the detergent dosage time =
8 s ≈ 2 g/l.



- To adjust the detergent dosage time, push **ON/OFF** button (1) repeatedly, until the desired value (0-50 s ≈ 0-15.4 g/l) appears.

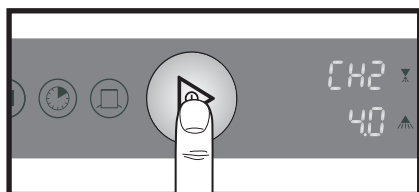
Adjustment should be done in accordance with chemical suppliers recommendations.

11.2 | ADJUSTMENT OF RINSE AID DOSAGE QUANTITY PROGRAM P01 TO P04



- Push **Program** button (2) again.
In the upper **Display** (6) appears "CH2".

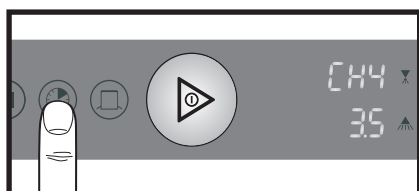
- In the lower **Display** (5) appears e.g.:
"2.5" = pre-adjusted value of the rinse aid dosage time =
2.5 s ≈ 0,33 g/l.



- To adjust the rinse aid dosage time, push **ON/OFF** button (1) repeatedly, until the desired value (0-50 s ≈ 0-6.6 g/l) appears.

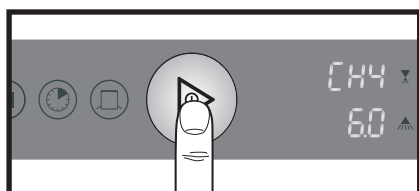
Adjustment should be done in accordance with chemical suppliers recommendations.

11.3 | ADJUSTMENT OF RINSE AID DOSAGE QUANTITY PROGRAM BC



- Push **Program** button (2) repeatedly until the upper **Display** (6) shows "CH4".

- In the lower **Display** (5) appears e.g.:
"3.5" = pre-adjusted value of the rinse aid dosage time =
3.5 s ≈ 0,31 g/l.



- To adjust the rinse aid dosage time, push **ON/OFF** button (1) repeatedly, until the desired value (0-50 s ≈ 0-4.4 g/l) appears.

Adjustment should be done in accordance with chemical suppliers recommendations.

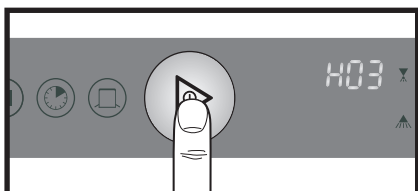
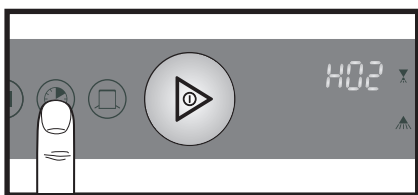
11.4 | ADJUSTMENT OF WATER HARDNESS

With optional softener only.

To adjust the softener to the local water hardness (obtain details from local water authority):

- Push **Program** button ② repeatedly until in the upper **Display** ⑥ "H02" appears.
- Push **ON/OFF** button ① repeatedly, until the required value (**H01-H04**) will be displayed.

H01 = up to 9 °eh / **H02** = 10 to 18 °eh / **H03** = 19 to 26 °eh / **H04** = 27 to 38 °eh water hardness (°eh = Clark).

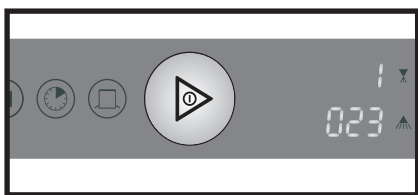
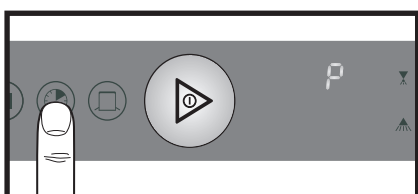


11.5 | CYCLE COUNTER

- Push **Program** button ② again. The display will show alternately "P" or the number of wash cycles.

- In the lower **Display** ⑤ appears the value up to **999**. Thousands will be shown in the upper **Display** ⑥.

Example: 1023 wash cycles
Max. indication: **999 999**

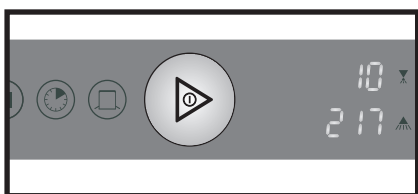
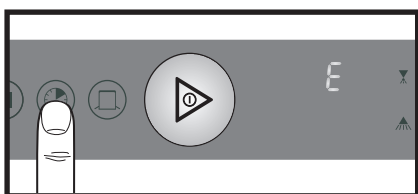


11.6 | WATER CONSUMPTION COUNTER

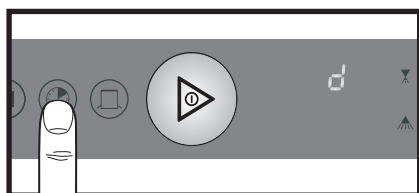
- Push **Program** button ② again. The display will show alternately "E" or the water consumption (liter).

In the lower **Display** ⑤ appears the value up to **999** liter. Thousands will be shown in the upper **Display** ⑥.

Example: 10217 liter
Max. indication: **999 999**

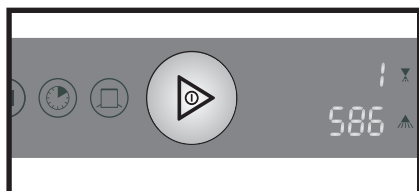


11.7 REMAINING WATER QUANTITY COUNTER FOR EXTERNAL WATER TREATMENT



(Only available if activated in service mode (S18). The capacity (liter) of the water treatment has to be stored via C79/80.)

- Push **Program** button ② again.
The display will show alternately "d" and/or the remaining water quantity (liter).

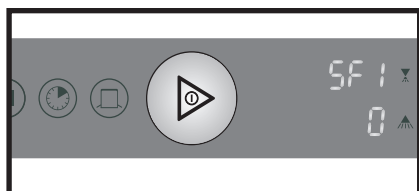


In the lower **Display** ⑤ appears the value up to **999** liter. Thousands will be shown in the upper **Display** ⑥.

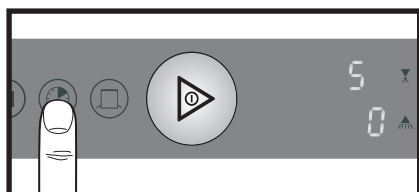
Example: 1586 liter
Max. indication: **999 999**

To reset the counter to pre-set value, push and hold (3 seconds) the **ON/OFF** button ①.

11.8 ACTIVATION / DEACTIVATION ACOUSTIC SIGNALS

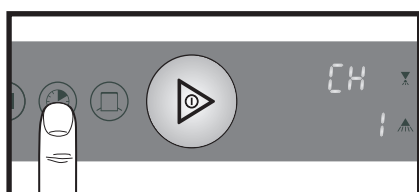


- **Close the hood.**
- In the upper **Display** ⑥ appears "SF1".



- Push **Program** button ② repeatedly, until "S" is displayed.
- By pushing the **ON/OFF** button ① acoustic signals can be activated / deactivated.
The lower Display ⑤ shows "1" (activated) or "0" (deactivated).

11.9 ACTIVATION / DEACTIVATION OF CHEMICALS DEFICIENCY SENSORS



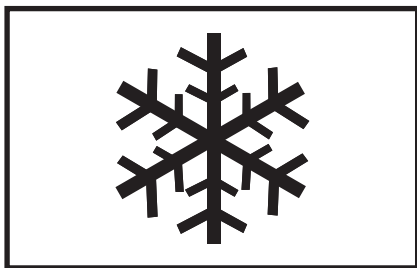
- Push **Program** button ② repeatedly, until "CH" is displayed.
The lower Display ⑤ shows "1" (activated) or "0" (deactivated).
- By pushing the **ON/OFF** button ① sensors can be activated / deactivated.

11.10 TERMINATION OF SETTING MODE / COUNTER DISPLAY

- **Open the hood and close it again or do not press any button for 10 seconds.**

12 | FROST PREVENTION

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In case of frost or longer operation pauses (e.g. for seasonal operations) the machine must be completely drained.

This should be carried out by **after sales service**.

Reset for operation according to chapter 5.

13 | MAINTENANCE



For trouble free operation we recommend you enter into a service contract with your local Service Office.

14 | TROUBLESHOOTING GUIDE

TYPE OF FAILURE	POSSIBLE CAUSE	REMEDY
Poor wash result		
Dishes are not clean.	Wash arms stiff (you should be able to turn them easily by hand).	Take out wash arms and clean them thoroughly. Check water outlet from machine to wash arms is clear.
	Wash arm nozzles are clogged (visual check).	Take out wash arm, remove cleaning cap and rinse wash arm thoroughly until soil is removed. Replace correctly.
	Rinse arm nozzles are clogged (possibly by lime deposit)	Remove rinse arms and decalcify them in separate container.
	Detergent concentration is too low or too high.	Check setting of detergent concentration. See also operating instructions point 11.1.
	Coarse strainer soiled.	Take out strainer, empty and clean it.
	Fine strainer soiled or obstructed by lime.	Take out fine strainer. If heavily soiled soak in a vinegar solution. Then clean it thoroughly until the pores are free. Cleaning is to be done daily (see operating instructions).
	Wrong program selected for heavily soiled dishes.	Select program with longer wash cycle.
Dishes or glasses do not dry properly.	Rinse aid concentration too low.	Increase concentration. See also operating instructions point 11.2.
	Dishes still greasy.	<ol style="list-style-type: none"> 1. Detergent concentration too low: increase (see instructions). 2. Check if detergent is appropriate. If not choose a stronger one. 3. Drain soiled water and refill machine. Check pre-scrapping procedure.
	Rack is not suitable for type of dishes (sloping).	Use appropriate racks to create a sloping position which allows water to drain away from cavities.
	Dishes stay too long in the machine at the end of program.	Take out dishes as soon as cycle is completed to enable them to dry.

TROUBLESHOOTING GUIDE

TYPE OF FAILURE	POSSIBLE CAUSE	REMEDY
Poor wash result		
Stripes and stains on dishes or glasses.	Rinse aid concentration too high.	Reduce quantity (see instructions).
	Hard water or high mineral content.	Check water quality. Obtain details from local water authority. Recommended values: Ideal degree of hardness is 4° Clark. Ideal conductivity value for glasses is max. 150 µS/cm and for dishes max. 400 µS/cm.
	Rack is not suitable for type of dishes (sloping).	Use appropriate racks to create a sloping position which allows water to drain away from cavities.
	Insufficient rinse aid concentration causes stains	Increase quantity (see instructions)
	Machine with softener: Wrong type of salt used.	Use only granular regeneration salt.
Other malfunctions		
Glasses are totally or partially cloudy	Surface of glasses is rough and porous, this is called glass corrosion	This is not caused by a malfunction on the machine. Replace with new glasses.
Glass breakages.	Use of inappropriate dish or glass racks.	Use appropriate racks.
	High pressure cleaning had been activated.	Never use high pressure cleaning for glasses and light dishes.
Machine suddenly stops during wash program.	Machine is connected to a "maximum power supply unit" which cuts out the energy consumer at a given point, or machine is interlocked with another energy consumer unit.	Connect machine separately (call electrician).
	Blown site fuse.	Check site fuses.

If no button will be pressed during **6 hours**, the machine switches off automatically without draining.

As continued product improvement is a policy of HOBART, specifications are subject to change without notice.