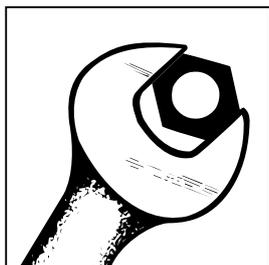


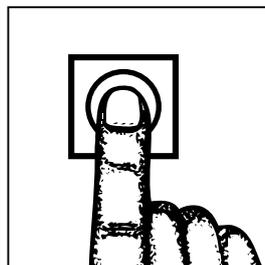


**Utensil Washing Machine
UX-60 H / UX-60 HB**

INSTALLATION



OPERATION



Installation and Operation Instruction for HOBART Utensil Washing Machine Model UX-60 H / UX-60 HB

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Machine noise level is ≤ 70 dB (A)

Important Notes

● Use in Accordance with Regulations

Hobart Utensil Washing Machines are only intended for cleaning pots and pans, baking sheets, cutlery, trays etc.
Do not use for electrically heated cooking and heat conservation appliances.

● Safety

Never hose down the machine.

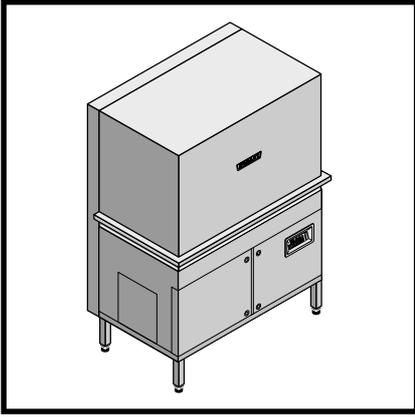


The "**Attention**" symbol is shown beside instructions that are essential for the **safe operation** of the machine. **Please read these passages very thoroughly.**

● Liability

Installations and repairs which are not carried out by **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.**

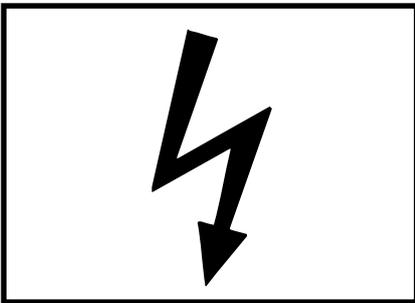
1 Installation



1.1 Location

- Wall clearance is not required.
- Level machine by turning the feet.
- Distribute machine weight equally onto all feet.

2 Connections



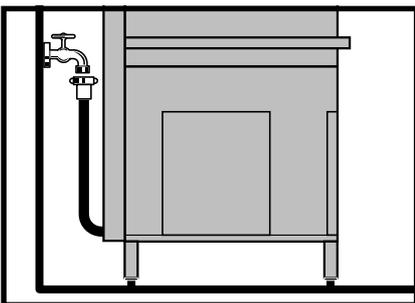
2.1 Electrical connection



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

- **The appliance is intended for a fixed electrical connection. Main-switch is required according EN 60 204.**
- Check machine specifications to make sure they correspond to those of the site supply and to wiring diagram.
- Check site fuse rating.

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



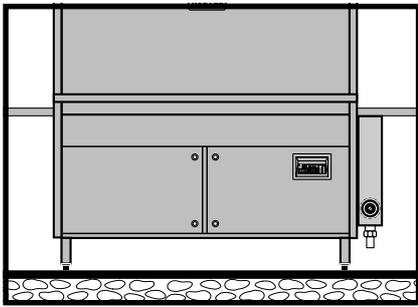
2.2 Water connection



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

The machine must be operated with water of drinking quality. For water with an extremely high mineral content, water treatment is recommended.

- **U.K. only:** the machine is fitted with **Class "A" Air Gap.**
- Connection if possible to soft (4° Clark) and warm (max. 60°C) water.
- Line flow pressure 0.4 – 6 bar.
If line flow pressure is below 0.4 bar: provide a rinse booster pump at site.
If line flow pressure is above 6 bar: provide a pressure reducing valve.
- Connect flexible supply hose with union nut 3/4" to site connection.
- Fit shut-off valve.

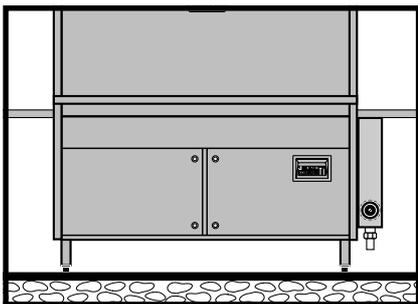


2.3 Hot water connection (hot-water heated machines only)



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

- Connection to hot water supply (DN 20) on customer site PN 25 (110°C - 200°C). **See data plate !**
- The machine is equipped with all necessary fittings.
- Dimension of hot water flow and return piping has to be according to the requirements.
- Make sure that permissible pressures and temperatures will not be exceeded.
- All pipework has to be insulated with water and heat resistant material.

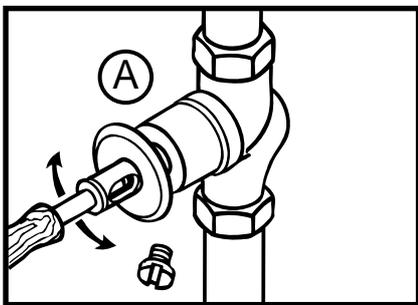


2.4 Steam connection (steam heated machines only)



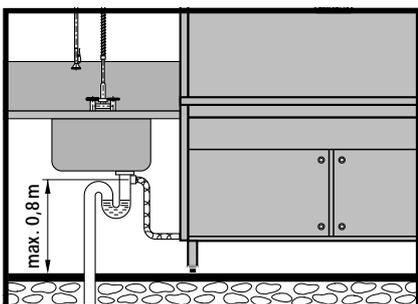
Must be carried out by an authorized technician according to the national and local codes.

- Connection to steam supply (DN 20) at customer site 0.3 - 3.5 bar (max. 150°C) or 3.5 - 10 bar (max. 200°C). **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.



2.5 Adjustment of shut-off valve with flow reducer for steam and hot water supply

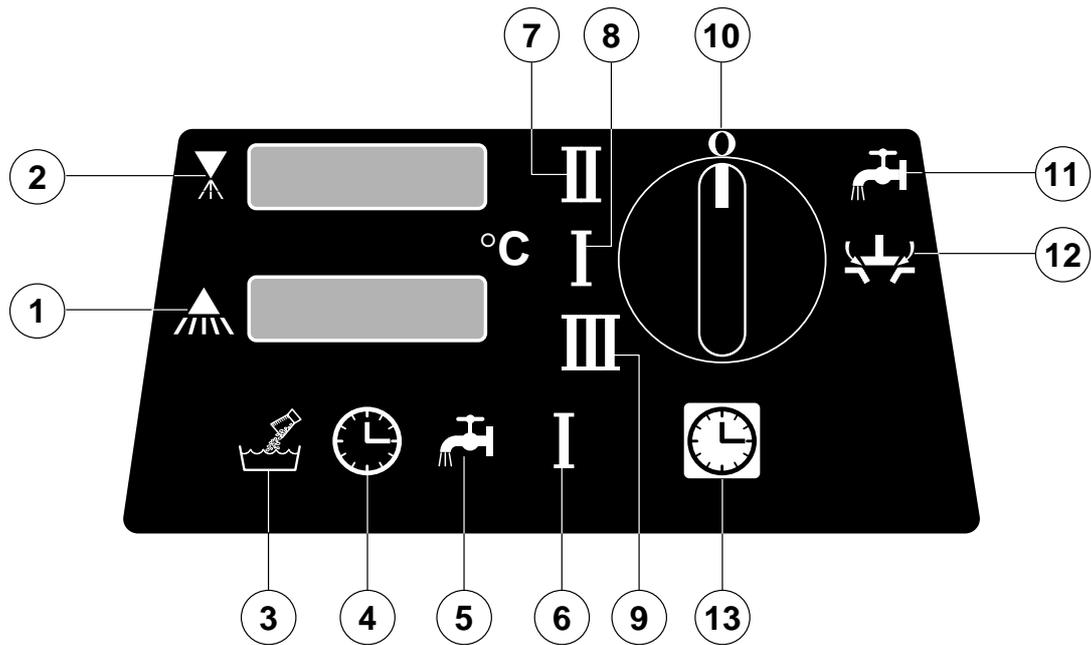
- The built-in shut-off valve is equipped with an adjustment device (A) to limit the heating supply medium. A special tool is necessary for adjusting the valve-seat.
- The correct adjustment is very important particularly for higher pressure, and therefore **must be done by a HOBART trained service man** 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.



2.6 Drain connection

- Connection between machine and site drain must not exceed max. height of drain pump lift of 0.8 m.
- Do not kink drain hose.

3 Controls



1. Thermometer **Wash**

2. Thermometer **Rinse**

3. Pilot light **Detergent dispenser** (built-in dosing pump only on option)

4. Pilot light **Programme**

5. Pilot light **Filling**

Pilot light illuminates: fill cycle is running.

Pilot light blinks: indicating that fill cycle is not completed in time. Check if shut-off valve is open. If there is no apparent reason for the fault, please call your HOBART Service Desk.

6. Pilot light **Machine ON**

PROGRAMME SELECTOR SWITCH:

7.	II	240 sec.	normal programme
8.	I	120 sec.	light duty programme
9.	III	360 sec.	heavy duty programme

10. **Machine OFF**

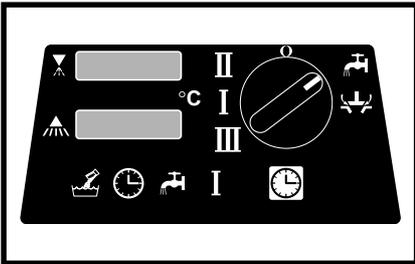
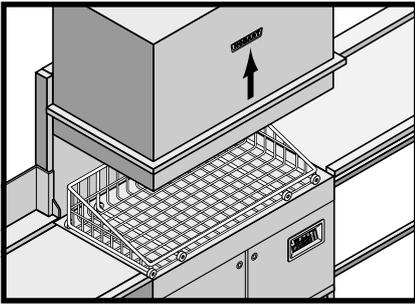
11. **Filling**

12. **Tank drain**

13. **Programme Start button**

4 First run

4.1 Fill rinse booster heater

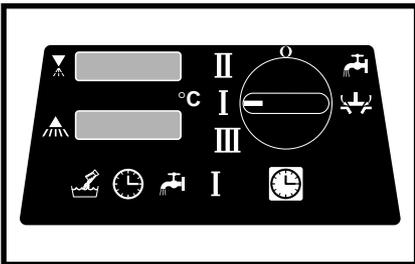


- Open shut-off valve.
- Switch on the main switch.
- Open hood.

- Set selector switch to **fill** position.
Pilot light **machine on (I)** illuminates, pilot light **programme** blinks.
- Close the hood, press **programme start** button.
The pilot lights **programme** and **filling** illuminate permanently.
- When the pilot light **filling** switches off and the **programme** pilot light blinks, the machine is filled.

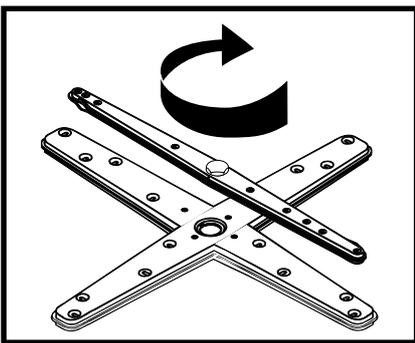
The filling time depends on the rinse booster heater and the water feed temperature (approx. 30 min with 15 kW booster and 10°C water feed temperature).

4.2 Test cycle

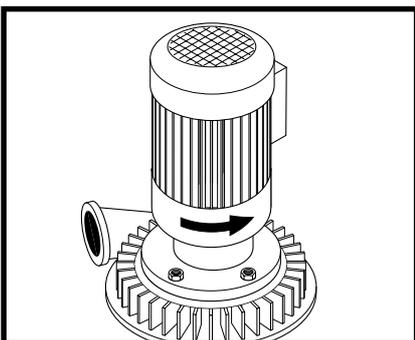


- Open hood.
- Set selector switch to **programme I**.
- Close the hood, press **programme start** button.
- Pilot light **programme** illuminates, the programme runs.

4.3 Check



- Open hood during cycle and check if upper and lower wash arms rotate smoothly.
- Check and eliminate any leakages of supply and drain pipework.



- Check direction of rotation of pump motor (see direction sign).
If motor runs against the indicated direction (pump is running noisily and circulates only a little water) interchange 2 phases (threephase current only).



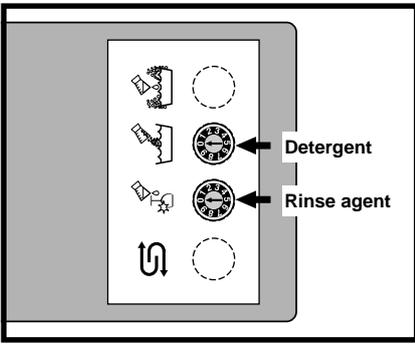
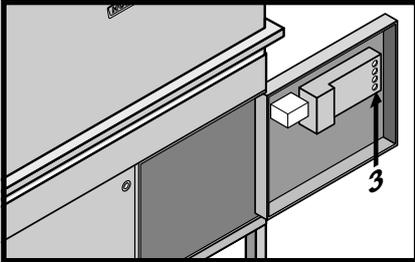
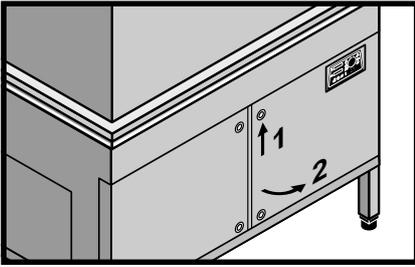
This must be carried out by an authorized technician.

5 Dispensers (detergent dispenser on option only)

5.1 Adjustment

The dispensers are factory adjusted to a medium position.

- Switch **Off** machine.
- Set **main switch to "0"**.
- Open the lock ① and the front panel ②.
- Adjustment of rinse agent and detergent quantity at the bottom of the rear side of control box ③.
- Turn the rotary switches to right: increase dosage,
Turn the rotary switches to left: decrease dosage (see table).



Pos.	Detergent (on option only)		Rinse agent	
	Time (sec.)	Quantity (g/l)	Time (sec.)	Quantity (g/l)
0	2	1	2	0.2
1	2.5	1.25	4	0.4
2	3	1.5	5	0.5
3	3.5	1.75	6	0.6
4	4	2	7	0.7
5	5	2.5	8	0.8
6	6	3	9	0.9
7	7	3.5	10	1
8	not occupied			
9	not occupied			

- Each time the dosage is changed, switch off the machine (set the selector switch to "0") in order to activate the new dosage time.

The dosage of rinse agent and detergent depends on the quality of water. For economical use of detergent and rinse agent at optimal levels, adjustment should be in accordance with chemical suppliers recommendations.

5.2 Filling the containers

- **Rinse agent**
put suction hose (**blue**) into rinse agent container.
- **Detergent** (option)
Put suction hose (**white**) into detergent container.

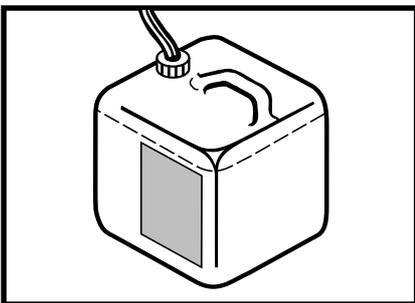


Be careful that you do not confuse the rinse agent and detergent containers.

As high pressure and high circulation is needed for the cleaning of utensils, use only commercial low foaming detergent and rinse agent.

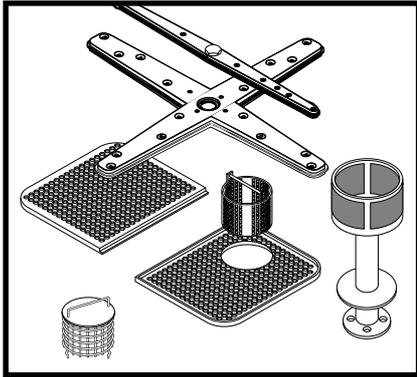
Do not use any acidic detergent products with the built-in detergent pump.

Please pay attention to the manufacturers safety rules and instructions.

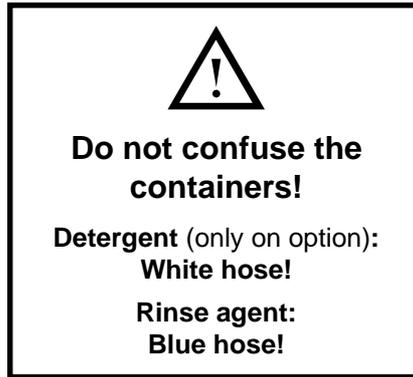


6 Operation

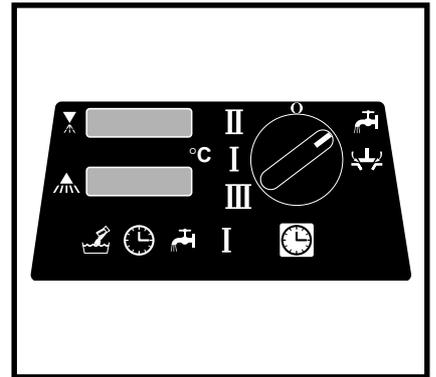
6.1 Preparation



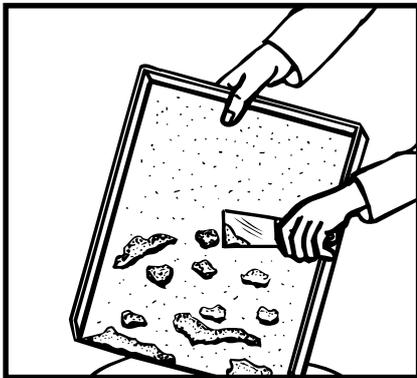
Check correct position of wash arms, rinse arms and strainers.
Open shut-off valve and switch on the main switch.



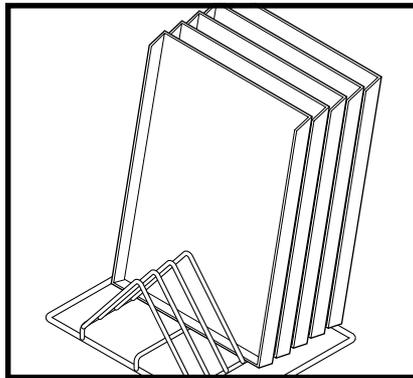
Check level of detergent and rinse agent containers.
Do not run the dosing pumps for long periods without a liquid in the containers.



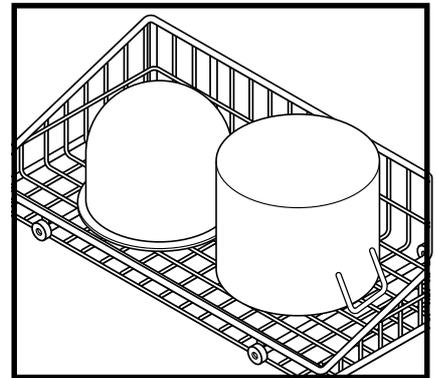
Set programme switch to **fill** position, close the hood and press the **start** button.
Machine will be filled.



Remove coarse food soil.

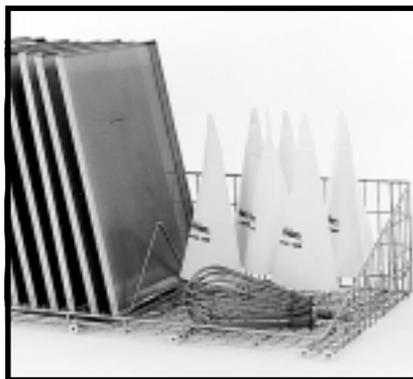


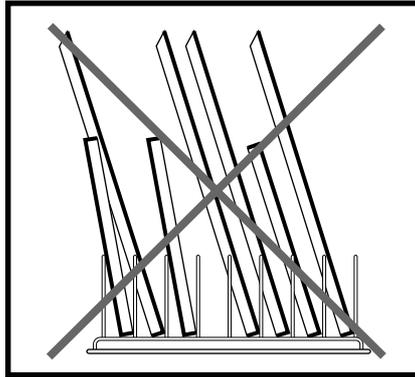
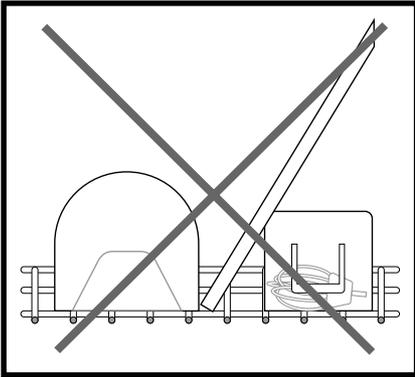
Insert sheets into the frame.



Put pots and pans facing downwards into the racks.

6.2 Racking

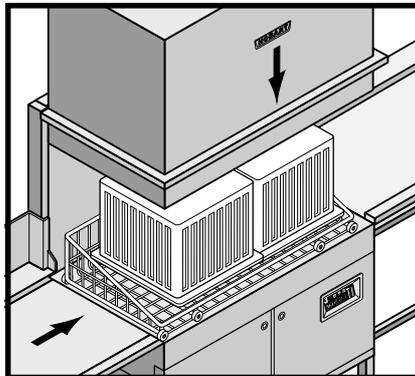




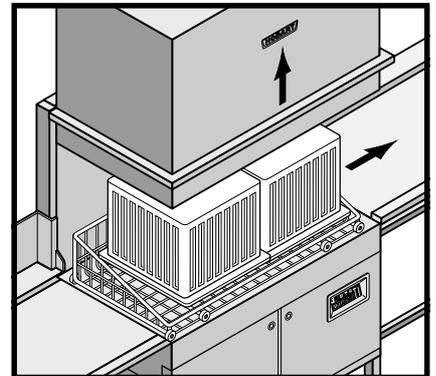
6.3 Washing

II for normally soiled washware
I for lightly soiled washware
III when food soil is dried on

Select programme.

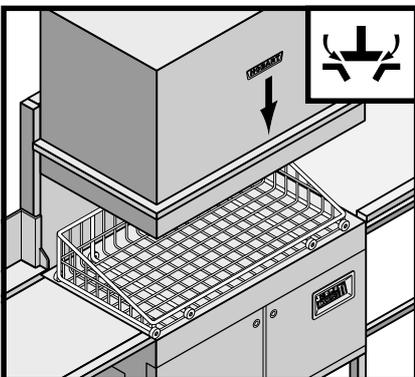


Put rack into the machine, close hood and press **start** button. Pilot light **programme** illuminates, wash cycle starts.



When **programme** pilot light switches off, open hood and take out rack. Allow washware to dry for 1 min. approx.

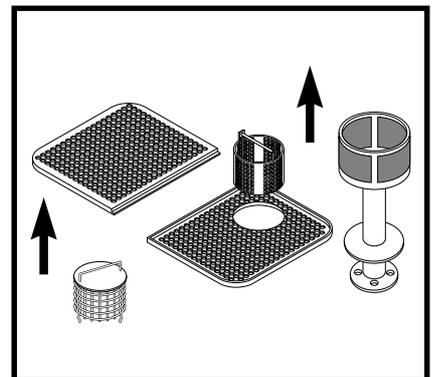
7 Cleaning the machine (daily)



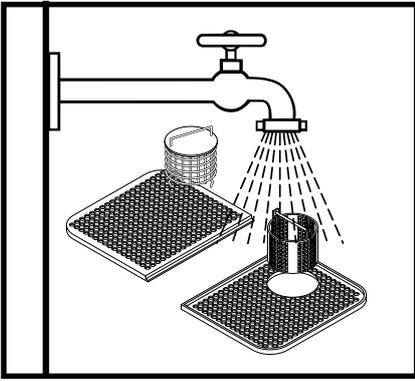
Close the hood, set selector switch to **drain** position and press the **start** button. Pilot light **programme** illuminates, drain cycle is running.

NOTE:
 During the drain cycle, the interior of the machine is cleaned automatically.
 A final inspection is recommended.

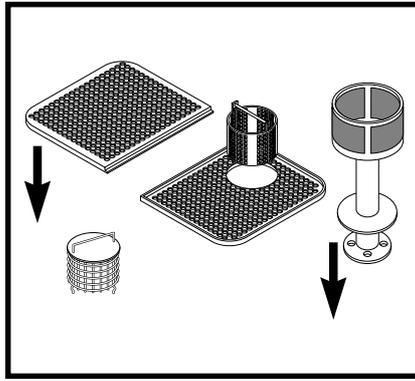
When **programme** pilot light switches off, open hood and switch off machine. **Set main switch to "0" and close shut-off valve.**



Take out strainers.

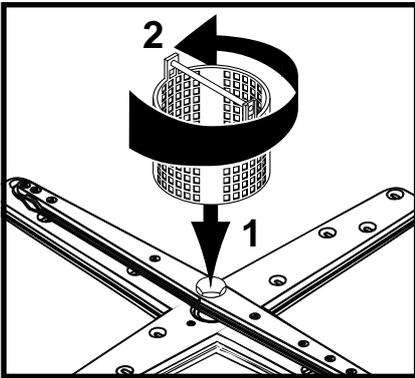


Flush strainers.

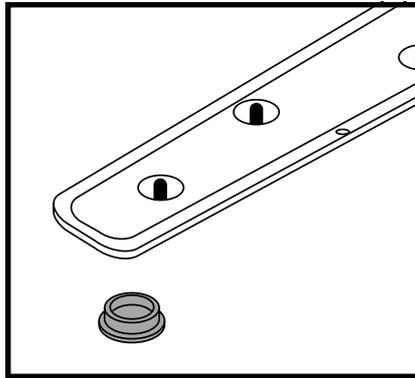


Put strainers back into place.
Leave the hood open for ventilation.

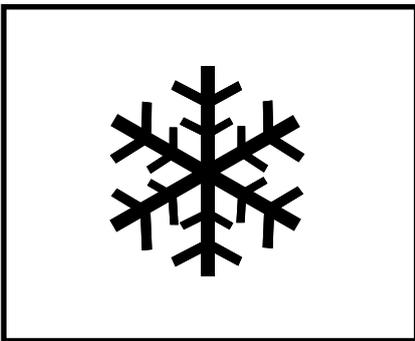
If required:



Take out wash and rinse arms.
Use the strainer as a spanner to loosen the hexagon screw (1) by turning it counter-clockwise (2).



Open plugs of wash and rinse arms and flush.



8 Frost prevention

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

This should be carried out by HOBART after sales service. Please contact your local HOBART Office.

Reset for operation according to chapter 4.



9 Maintenance

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

10 Trouble shooting guide

TYPE OF FAILURE	POSSIBLE CAUSE	REMEDY
Poor wash result		
Washware is 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 (generally through lime deposit).	Remove rinse arms and decalcify them in separate container.
	Detergent concentration is too low or too high.	Check setting of detergent concentration (usually on 4). See also operating instructions point 5.
	Coarse strainer soiled.	Take out strainer, empty and clean it.
	Fine strainer soiled or obstructed through 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 programme selected for heavily soiled washware.	Select programme with longer wash cycle.
Washware does not dry properly.	Rinse aid concentration too low.	Increase concentration (see operating instructions).
	Washware 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.
	Washware stays too long in the machine at the end of programme.	Take out washware as soon as cycle is completed to enable it to dry.
Stripes and stains on washware.	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. 200 µS/cm and for dishes max. 400 µS/cm.
	Insufficient rinse aid concentration causes stains.	Increase quantity (see instructions).
Trouble with foam		
Machine gets much louder during wash cycle.	Foam production above average caused by unsuitable detergent and rinse agent.	Use suitable detergent and rinse agent (see chapter 5).
	Foam production above average caused by contact of foam producing substances (albumins etc.).	Pre-clean washware.
Other malfunctions		
Machine suddenly stops during wash programme.	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.

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