

# BIOMATIC 2.0 MOBILE WASHER

Art. No. 995.00004

## Operating Manual



**BIOMATIC 2.0 MOBILE WASHER**  
**Operating Manual****INTRODUCTION****INTRODUCTION****Thank you for purchasing the Biomatic Parts Washer**

The Biomatic Parts Washer is designed to safely and effectively remove oil and grease from industrial and automotive parts. It employs a clever technology called bioremediation to dramatically reduce waste fluid generation, reducing the expense of hazardous waste removal and bringing significant savings to the user.

The Biomatic Parts Washer system comprises three distinct parts: The Biomatic Parts Washer machine, the Biomatic Fluid and the filter mat. The filter mat contains millions of micro-organisms. It releases these microbes into the Biomatic Parts Washer system to break down or "eat" the oil and grease that has been washed off dirty parts into the Biomatic Fluid. The microbes turn it all into harmless carbon dioxide and water, leaving the Biomatic Fluid clean and strong for every use, effectively recycling the fluid and reducing the need for hazardous waste disposal. The Biomatic Fluid is pH neutral, non-caustic, non-flammable and a biodegradable degreasing solution bringing health and safety benefits to the user and assisting compliance with latest workplace legislation.

This operating manual has been designed to give you all the information on the Biomatic Parts Washer.

Please read carefully before using the machine. Familiarise yourself with this unit's operation, its particular features and limitations.

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## 1. SAFETY INSTRUCTIONS

Every person who works with this machine must be familiar with the content of the operating instructions prior to use. These instructions are part of the unit and must be available to operating staff at all times. Please read the operating instructions for your Biomatic Parts Washer before using it.

The unit should only be operated by those authorised to do so. Warning information on the machine provides important directions for safe operation. Misuse of the Biomatic Parts Washer will affect the safe operation of the machine.

Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

In addition to the information contained in the operating instructions, all statutory safety and accident prevention regulations must be observed.

The operating noise level of this machine is below 70dB(A).

### Key to Safety Instructions




Warning Symbol - You will find this symbol next to all safety instructions relating to damage prevention. Take caution to avoid personal injury or material damage.





Prohibition Symbol – You will find this symbol next to all prohibition instructions where failure to comply could result in direct personal injury and damage to material. It is mandatory to comply with these instructions

## 2. POWER CONNECTION

 The voltage indicated on the machine base control box label must correspond to the voltage of the electrical source.

 Safety class 1 – Appliances may only be connected to sockets with proper earthing.

 It is recommended that you connect this device to a socket that has a 30mA RCD device guard against earth leakage faults.












 Make sure the power cord is not damaged by running over, pinching, dragging or similar. Protect the cable from heat, oil and sharp edges. If the power cord is damaged do not use. Damaged supply cords increase the risk of electric shock.

 Never touch the mains plug with wet hands.

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### 3. PROPER USE

-  The Biomatic Parts Washer is designed for manually cleaning parts with a maximum weight of 150kg. Do not exceed the specified weight.
-  Biomatic Fluid and filter mat must be used for the Biomatic Parts Washer system to function properly. The use of other detergents or cleaning fluids can hamper or prevent the bioremediation of oil and greases and invalidate the warranty.
-  Do not fill the tank with solvents, flammable or explosive liquids.
-  The Biomatic Parts Washer is not meant for the disposal of used oil. If large quantities of oil, petrol, engine oil, anti-freeze agents or similar substances are added to the system this can hamper the bioremediation of oil and grease by the microbes.
-  Do not clean paint brushes or painting tools in the Biomatic Parts Washer or any materials containing asbestos or other hazardous substances such as pesticides.
-  The machine should only be used by people who have been instructed in how to use it properly.
-  The operator must use the machine as instructed in this manual. The operator must pay attention to any surrounding hazards and consider those working around him when using the Biomatic Parts Washer.
-  The machine must be checked prior to use to ensure that it is in proper working order and is operating safely.
-  All electrical equipment in the working area must be protected against any spraying cleaning solution.
-  Please wear appropriate PPE when using the machine – such as safety goggles and protective gloves.
-  Read the Safety Data Sheet for the Biomatic Fluid (Art. 995.903) for additional precautions and specific first aid treatments in case of exposure.

### 4. FUNCTION

The microbes are first introduced to the system in the filter mat and are then transported by the Biomatic Fluid through the filter mat into the Biomatic Parts Washer tank.

The cleaning fluid in the tank is heated by the element and transported by the pump to the sink where it is dispensed through the nozzle and flo-thru brush. The cleaning fluid must remain heated for the microbes to function properly.

Solid dirt particles washed off parts into the sink are captured in the filter basket in the sink tray and in the underlying filter mat which traps large particles of grease and oil along with any particulate matter larger than 50 microns.

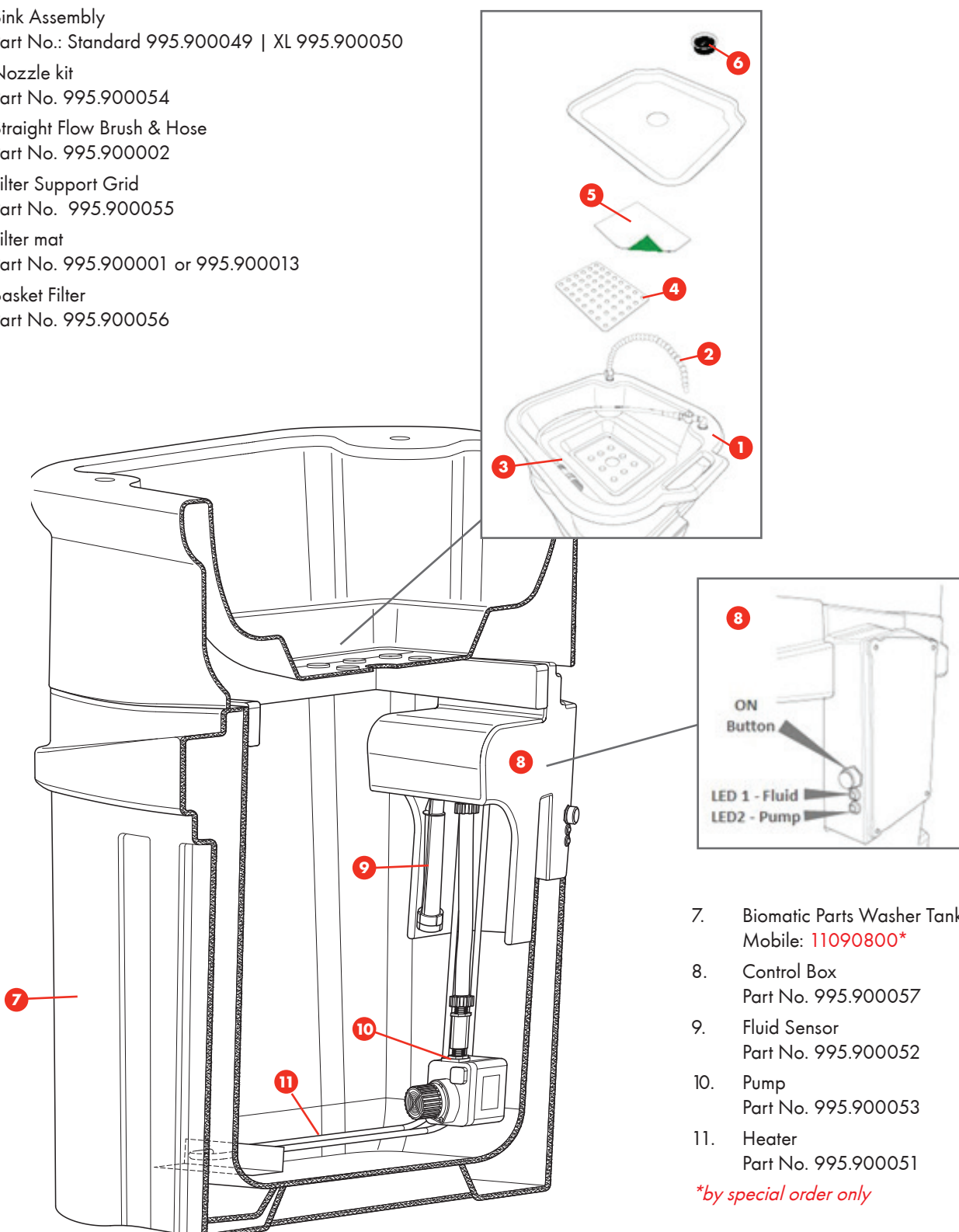
Grease and oil is washed off parts into the Biomatic Parts Washer tank and then degraded by the microbes into carbon dioxide and water.

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### 5. MACHINE DIAGRAM AND PARTS

1. Sink Assembly  
Part No.: Standard 995.900049 | XL 995.900050
2. Nozzle kit  
Part No. 995.900054
3. Straight Flow Brush & Hose  
Part No. 995.900002
4. Filter Support Grid  
Part No. 995.900055
5. Filter mat  
Part No. 995.900001 or 995.900013
6. Basket Filter  
Part No. 995.900056



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## 6. SETTING UP

After removing packaging, check the unit for transport damage. If any defect is detected do not connect the machine to the mains. Report damage to vendor.

 Situate the Biomatic Parts Washer on flat stable ground. The floor must be even to ensure safe operation.

Press the wheel brakes on the rear of the machine.


Remove the black sink tray.


Unpack the filter mat and place it white side up on top of the filter support grid.

Replace the black sink tray on top.

Pour 60 litres of Biomatic Fluid slowly into the sink.

 Do not overfill.

 **WARNING** – Adding any other cleaning solution or liquids such as solvents, disinfectants and alkaline cleaners can deactivate the microbes and the bioremediation of grease and oil will be affected resulting in the Biomatic Parts Washer not working properly.

 Plug into the correct mains supply. To avoid damage, the machine must be plugged into the power source stated on the machine control box label. Switch on electrical supply.

The Biomatic Parts Washer will begin to heat up the cleaning solution to its optimal working temperature of 42°C. (This will take approx. 4 hours)

## 7. OPERATION

Cleaning is a manual operation using the flo-thru brush in the Biomatic Parts Washer sink top.


 Wear appropriate PPE such as safety goggles and protective gloves.


 Place the dirty parts in the sink tray (maximum weights must not be exceeded – see 3. PROPER USE).

Press the metal on/off button to turn the pump on. Wet the sink, nozzle and brushes prior to cleaning to prevent grease and dirt sticking to the surfaces. The pump will run for 5 minutes and then automatically switch off.

Open the tap of the desired tool – you can use both the nozzle and the flo-thru brush at the same time for maximum cleaning if desired.

 Note: Any parts susceptible to corrosion should not be left in sink after cleaning.

 As with all parts washers excess grease and oil should be disposed of prior to washing.  
**DO NOT USE THE Biomatic Parts Washer AS A WASTE DUMP**

 Do not turn the Biomatic Parts Washer off unless it is for safety reasons, moving or servicing. The optimum temperature for the activity of the microbes and therefore breakdown of oil and grease is between 37°C and 42°C, therefore the biomatic parts washer must always be left switched on.

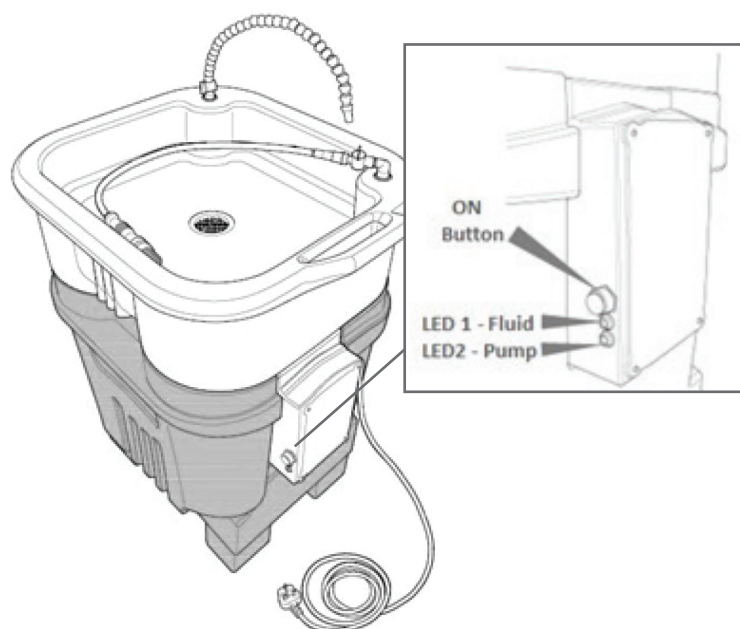
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## 8. ENERGY SAVING MODE

After a 4 hour period of inactivity the Biomatic Parts Washer automatically switches to energy saving mode (37°C) and remains at this temperature until the pump is restarted when it will return to 42°C.

## 9. OPERATIONAL GUIDE FOR CONTROL BOX



No:	Output			Description	Notes
	LED 1 FLUID	LED 2 TEMP	Sound		
1	Flashing <b>Yellow</b>	Flashing <b>Yellow</b>	Beep	Indication of successful initialisation stage.	Initialisation sequence will start immediately after machine is powered on. At the end of successful initialisation, the Sounder and two LEDs are activated and should be observed for one second. Any other colours or no sound at this point is an indicator of a problem.
2	Solid <b>Green</b>	Solid <b>Green</b>	No	Normal Mode 42°C active. Liquid level is OK.	Normal operation.
3	Solid <b>Green</b>	Solid <b>Yellow</b>	No	ECO Mode 37°C active. Liquid level is OK.	Normal operation.



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## **10. MAINTENANCE AND CARE**

### **DAILY**

Check to see if the red "LOW FLUID" indicator light is flashing.

If the red "LOW FLUID" light is flashing, pour 20 litres of Biomatic Fluid into the Biomatic Parts Washer sink.

 **NOTE** – Do not overfill the Biomatic Parts Washer.

If the red "LOW FLUID" indicator light is flashing the heater element in the base unit will be switched off and the cleaning solution will begin to lose temperature. Therefore it is important to top up the fluid as soon as possible to keep the microbes at their optimum working temperature.

### **MONTHLY - Change the filter mat**

First remove the sink tray.

Wring out the fluid from the old filter mat into the sink.

Please dispose of used filter mat according to local authority regulations for waste containing mineral oil (see "Instructions for Disposal").

Place new filter mat white side up onto the filter support grid.

Replace the sink tray.

### **YEARLY - Annual maintenance check on the Biomatic Parts Washer recommended**

If a cleanout and change of fluid is required please follow correct procedure.

Ensure the machine is switched off and unplugged from the mains.

Lift off the sink top and disconnect hose pipes.

Remove dirty solution from the base unit and dispose of waste according to local authority regulations (see "Instructions for Disposal").

Rinse / jetwash the base unit.

Replace sink top checking that the hose pipes are all connected.

Remove sink tray.

Place new filter mat white side up on the filter support grid.

Replace sink tray.


Pour 60 litres of new Biomatic Fluid into the sink.

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## 11. SHUTTING DOWN

Switch the power off at the electrical socket.


 **NOTE** – In order for the bioremediation process to occur the temperature of the cleaning solution must be maintained at 42°C for the microbes to operate at their optimal level. Therefore the Biomatic Parts Washer must remain plugged in at all times. The power supply must not be switched off at night or at weekends.

## 12. RESTARTING

 If there is a power failure or the machine is switched off for a considerable length of time and the cleaning solution is allowed to go cold, new microbes will need to be added to the cleaning solution.


Replace the filter mat (see section “Maintenance and Care/Monthly”).

## 13. MOVING OR TRANSPORTING

 Unplug the Biomatic Parts Washer from the electrical socket; roll up the power cord. Take off brakes. Carefully wheel to desired location taking into account the influences of the surrounding area and ground conditions to ensure the Biomatic Parts Washer does not tip over.

 Do not expose the appliance to rain or snow and do not use it in damp or wet conditions to ensure safe operation.

When finished move or wheel Biomatic Parts Washer to desired location and plug the power cord back into the appropriate electrical socket to avoid deterioration of cleaning performance (see section “Restarting”).

 Do not abuse the supply cord and/or the hose. Never use the supply cord or hose to carry or pull the appliance. Damaged supply cords increase the risk of electric shock.

## 14. MAINTENANCE AND REPAIR

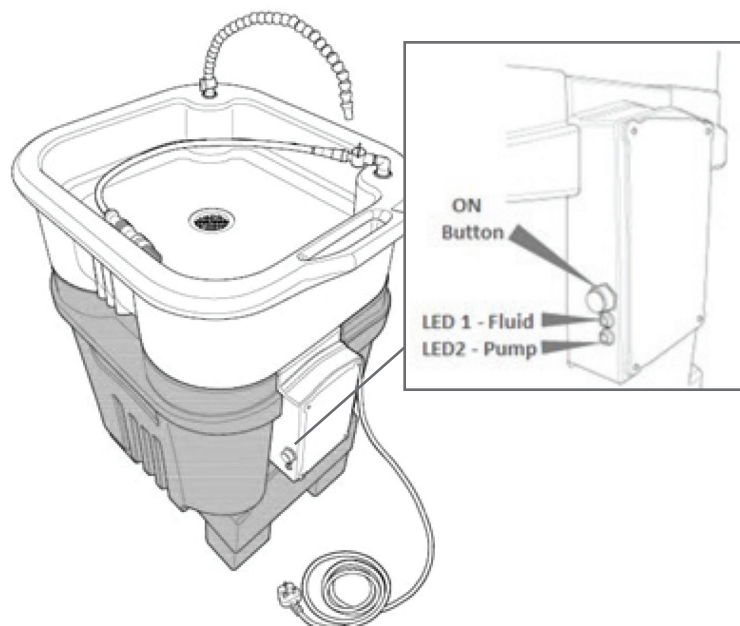
 Switch off the Biomatic Parts Washer and unplug from mains socket before carrying out any maintenance on the machine.

 Please wear appropriate PPE such as safety goggles and gloves.

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### 15. TROUBLESHOOTING GUIDE




No:	Output			Description	Notes
	LED 1	LED 2	Sound		
Problem Indicators					Solution
1	Flashing <b>Red</b> every second	Solid <b>Green</b> or <b>Yellow</b>	Beep	Liquid level is too low. Application stopped, heater and pump are disabled.	a) Check fluid level. b) Check level sensor position. c) Replace sensor unit.
2	Both Flashing <b>Red</b> for 3 seconds then 2 seconds OFF		Beep	Liquid level is too high. Application stopped, heater and pump are disabled.	a) Remove some fluid down to allowed level. b) Check level sensor position. c) Replace sensor unit.
3	Both Flashing <b>Red</b> for 4 seconds then 2 seconds OFF		Beep	No response from sensor. Application stopped, heater and pump are disabled.	a) Check sensor connection. b) Replace sensor unit.
4	Both Flashing <b>Red</b> for 5 seconds then 2 seconds OFF		Beep	No temperature rise has been detected. Application stopped, heater and pump are disabled.	a) More liquid added while device was active? b) Restart unit. Check fuses. c) Replace sensor unit. Heater element requires replacement.
5	Both Flashing <b>Red</b> for 6 seconds then 2 seconds OFF		Beep	Critical liquid temperature - above 48C.	a) Initial liquid temperature too high. b) Faulty heater relay. c) Restart unit. Check fuses. d) Replace sensor unit. Heater element requires replacement.
6	Solid <b>Green</b>	Solid <b>Red</b> or <b>Yellow</b>	No	Pump is not working after button was pressed.	a) Check pump connection. b) Check pump fuse.
7	OFF	OFF	No	No signs of activity when unit is powered on for more than a minute.	a) Check power connection. b) Check PSU fuse. c) Control unit requires replacement.

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## 16. ACCESSORIES AND SPARE PARTS

 Only use accessories and spare parts which have been approved by Wurth Canada Ltd. This ensures that the Biomatic Parts Washer operates correctly and safely.

## 17. WARRANTY

Wurth Canada warrants these products for one (1) year against deficiencies in material and workmanship.



Repair, replacement (same or similar product), or credit at the original sale price at Wurth Canada's option will be furnished if the product, upon Wurth Canada's standard investigation process, is found to be properly installed, adjusted, used, maintained, and/or operated.

Any such repairs or replacement will be made at no charge to the customer for parts or labour, provided that the customer shall be responsible for any transportation, lodging, meals, and/or other personal costs.

## 18. DISPOSAL INFORMATION

Dispose of hazardous waste materials in accordance with applicable federal and provincial and municipal acts, regulations, and guidelines.

## 19. ENVIRONMENTAL PROTECTION

	<p>The packaging material can be recycled. Please do not place the packaging into the ordinary bin for disposal, arrange for proper recycling.</p>
	<p>Old appliances contain valuable materials that can be recycled. Please arrange for the proper recycling of old appliances. Batteries, oil and similar substances must not enter the environment. Please dispose of your old appliances using appropriate collection systems.</p>

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## 20. CE DECLARATION

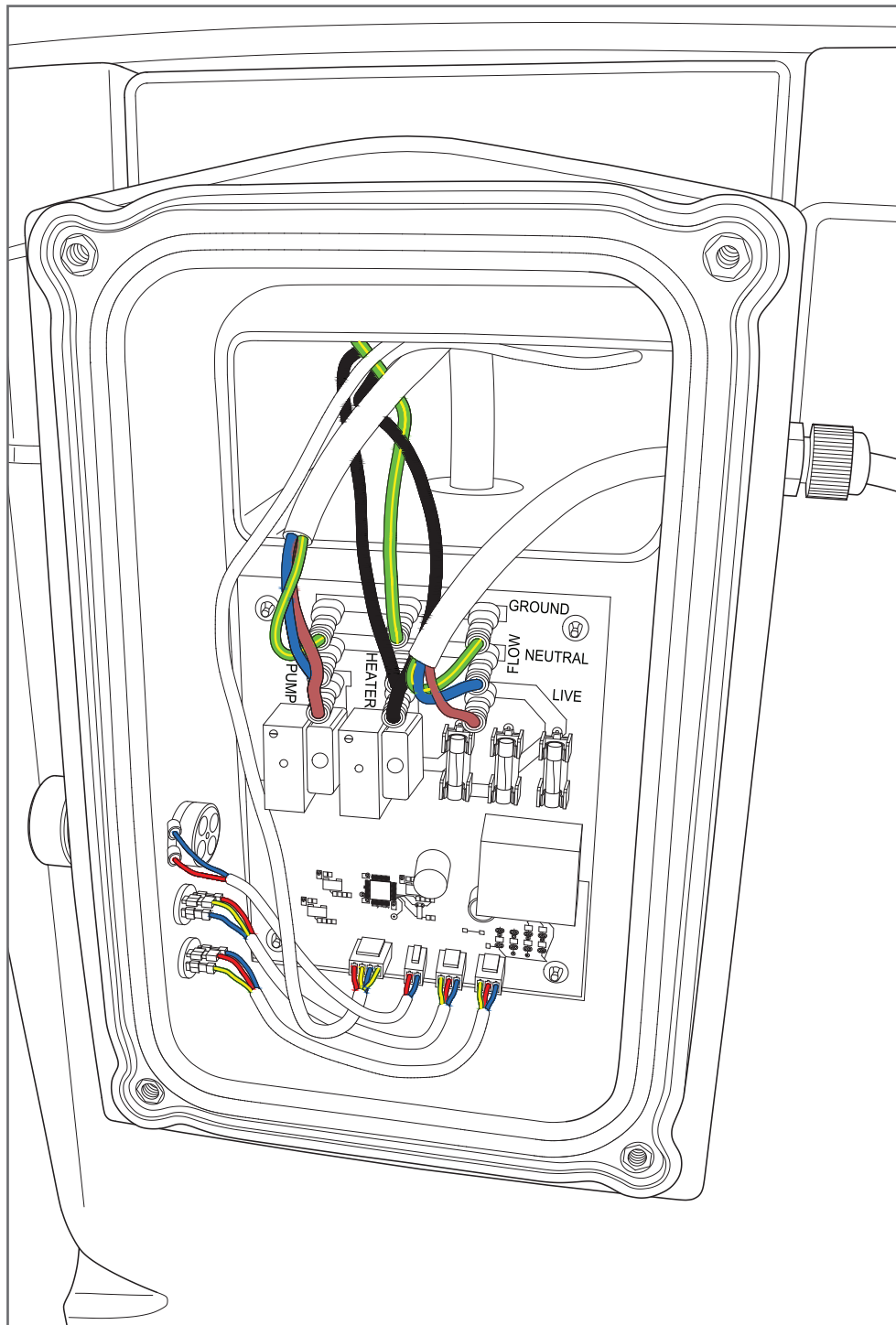
We hereby declare that the machines stated below comply with the relevant basic health and safety requirements of the EU Directive, both in their basic design and construction and in the version put into circulation by us. This declaration shall cease to be valid if the machine is modified in any way without prior approval.

PRODUCT	Machine designed for parts cleaning using water based cleaning solutions
Type	Biomatic Parts Washer
Relevant EU Directives	2014/35/EU
	2014/30/EU
Applied Harmonized Standards	EN61000-6-2:2005
	EN61000-6-4:2007
	EN60335-1:2012
	EN61000-3-2:2014
	EN61000-2-3:2013
	+A11:2014
	IP65

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## 21. ELECTRICAL BOX DIAGRAM



# BIOMATIC PARTS WASHER

Art. No. 995.00004

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2021

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