



**USER INSTRUCTION MANUAL**

Models:

**Mobile Parts/Brake Washer  
 SW-23 -RGB**



**Signature Parts Washer  
 SW-25 -RGB**



**Supersink Parts Washer  
 SW-28 -RGB**



**Mobile Heavyweight Parts  
 Washer SW-37 -RGB**



SmartWasher®

**PLEASE READ THIS INSTRUCTION MANUAL CAREFULLY AND COMPLETELY TO ENSURE THAT YOUR NEW SMARTWASHER® WILL OPERATE AT ITS MAXIMUM EFFECTIVENESS**

**C.R.C INDUSTRIES EUROPE BV**  
 Touwslagerstraat 1, B-9240 Zele

- EN ..... P.1
- CZ ..... P.41
- DA ..... P.81
- DE ..... P.121
- ES ..... P.161
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- FI ..... P.241
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- RO ..... P.521
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- SV ..... P.601





## USER INSTRUCTION MANUAL

### I. General

Before assembly, installation and use of this equipment, please read this user instruction manual. Store the user instructions for later use or subsequent owners.

In case of transport damage, inform your SmartWasher® distributor or CRC Industries Europe immediately.

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## USER INSTRUCTION MANUAL

### 3. Introduction

#### CONGRATULATIONS !!

You have purchased the state-of-the-art SmartWasher®. SmartWasher Parts Washing Systems combine a powerful cleaning solution with the bioremediation power of specially-bred Ozzy® microbe. Once a SmartWasher® has been properly installed and activated, it is literally ALIVE.

#### Your SmartWasher®

**IS** safe and easy to use

**USES** the latest in bioremediation technology to eliminate hazardous liquid waste

**HELPS** deregulate and detoxify your workplace and reduce government paperwork

**SAVES** you money

The SmartWasher® is designed to safely and effectively remove oil and grease from automotive and industrial parts. It replaces hazardous solvent part washers with aqueous-based degreasing solutions called OzzyJuice® and microbe impregnated particulate traps called OzzyMats™. The microbes impregnated into the OzzyMat come to life in the OzzyJuice® and break down, or “eat” the grease, oil and other contaminants in the solution leaving by-products of harmless carbon dioxide and water - leaving nothing hazardous to haul away. OzzyJuice® is an award winning, pH neutral, non-caustic, non-flammable and biodegradable degreasing solution. Working in wconcert with our microbes (Ozzy®) these superior products help eliminate or greatly reduce your need to dispose of hazardous waste, giving you all the performance you are used to in a typical solvent parts washer without all the hazard and hassles. You have made a great decision.



## USER INSTRUCTION MANUAL

### 4. Description and operation

#### 4.1. Technical data

		SW-23	SW-25	SW-28	SW-37
<b>Electrical connection</b>					
Type of current	V/~ /Hz	220 V/AC – 50/60 Hz			
Connected load pump	W	45	45	45	45
Electrical fuses	A	I	I	I	I
<b>Performance data</b>					
Heating output	kW	1.0			
Working pressure	Bar	0.3	0.3	0.3	0.3
Flow rate pump	Litre/min	18	18	18	18
Adjustable thermostat	°C	40 – 46	40 – 46	40 – 46	40 – 46
Container capacity	Litre	60	95	95	95
Load capacity	Kg	180 kg	225 kg	225 kg	450 kg
<b>Noise emission (IEC 60704-1)</b>					
Sound pressure level	dB(A)	< 60			
<b>Device vibrations (ISO5349)</b>					
Washing brush	m/s <sup>2</sup>	< 0.62			
<b>Sizes and weights</b>					
Overall dimensions	cm	109x69x107	90x67x102	119x97x107	122x89x114
Inside sink dimensions	cm	69x58x20	69x44x20	104x58x20	84x69x20
Empty weight	Kg	32	37	42	70



## USER INSTRUCTION MANUAL

### 5. Safety instructions

- a. Use SmartWasher® only as described in this manual. Use only attachments, parts and tools recommended by the manufacturer.
- b. The equipment may only be installed, used, maintained and repaired by adult (> 18 years), professional, trained and/or qualified personnel
- c. The equipment must be used indoor, protected against deleterious environmental conditions (e.g. extreme low/high temperatures, rain, snow, wind, lightning, ...)
- d. Sufficiently lighting and ventilation must be foreseen by the user during use, maintenance and repair.
- e. The parts to be cleaned must have an appropriate shape, dimension and weight in relation to the equipment. Respect therefore the maximum load capacity of the parts to be cleaned, as indicated in part 4 of this user instruction manual.
- f. The SmartWasher® may not be used in explosive atmospheres (ATEX environments), confined spaces, ...
- g. The equipment may only be maintained and repaired after the equipment has been unplugged from the main power supply and after the equipment is cooled down to ambient temperatures. Care must be taken as burns can occur from touching hot parts.
- h. The SmartWasher® may only be used for cleaning in a closed position, with all quick disconnect pins in firmly place. (see chapter 7.1 of this user instruction manual).
- i. The overflow protection on the SmartWasher® may never be blocked. The overflow protection may not be connected to the sewage system of your company.
- j. Care must be taken to the ergonomic position of the operator in relation with the dimensions of the equipment during use.
- k. Care must be taken to the environment where the equipment is installed. It must be kept free from surrounding obstacles and greasy underground as this may lead to slipping, tripping or falling.
- l. Do not operate SmartWasher® with damaged electrical cable or if the equipment has been dropped or damaged until it has been examined by a qualified service person.
- m. Tools or parts, showing damage or wear, must be instantly replaced or repaired before further use.
- n. Do not let an electrical cable hang over the edge of the table, bench, or counter or come in contact with hot manifolds or moving fan blades.
- o. If an extension electrical cable is necessary, a cable with a current rating equal to or more than that of



## USER INSTRUCTION MANUAL

- p. the equipment should be used. Electrical cables rated for current lower than the equipment may overheat. Care should be taken to arrange the cable so that it will not be tripped over or pulled. (Must be rated a minimum of 220 VAC))
- q. Unplug the equipment from electrical outlet when not in use for an extended period of time. Never use the electrical cable to pull the plug from the outlet. Grasp plug and pull to disconnect.
- r. To reduce the risk of fire, do not operate equipment in the vicinity of open containers of flammable liquids (gasoline).
- s. Adequate ventilation should be provided when working on operating internal combustion engines.
- t. Keep hair, loose clothing, fingers, and all parts of body away from moving parts.
- u. To reduce the risk of electric shock, do not use on wet surfaces or expose to water.
- v. The mobile models SW23 and SW37: do not move them with high velocities (human walking speed only). Fix the swivel wheels in blocked position prior to use. During movement of these models of SmartWasher<sup>®</sup>, be aware of obstacles, slippery floors, ... as these may cause personal harm by falling, tripping, slipping, ... These equipment can only be moved at walking speed.
- w. Personal Safety Equipment
  - Always wear safety glasses to avoid eye contact with the degreasing liquid
  - Always wear safety shoes to avoid injury due to falling objects you are busy cleaning
  - It is good practice to wear gloves whenever using industrial cleaning fluids.
- x. The equipment may **ONLY BE USED** for the removal of oil and grease from automotive and industrial parts
- y. The equipment may **NOT BE USED** for cleaning human parts (e.g. hands, ...), animals, clothing, parts which come in contact with food, painting tools, parts containing hazardous substances (e.g. asbestos, cadmium, ...), ...
- z. For the degreasing fluids Ozzyjuice<sup>®</sup>, consult the Safety Data Sheet before use on the internet website of CRC Industries Europe. If you do not have access to the website, a paper copy can be obtained through your local CRC distributor.



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### 6. Transport and storage

#### 6.1. Transport

- Switch of the equipment and unplug from the main power source and avoid damage to the power cable during transport by putting it at a safe location
- Empty and clean the equipment
- DO NOT move the equipment when there are cleaned parts or parts to be cleaned on the equipment
- During movement of the equipment in the workshop, be aware of surrounding obstacles and the proximity of co-workers
- For internal transport:
  - If not fitted with wheels : put the equipment on a stable underground (e.g. pallet)
  - If fitted with wheels : make sure the wheels are in a good status before moving
- For external transport: Always put the equipment on a stable underground (e.g. pallet) and fix it well. Appropriate packaging is required to avoid transportation damages and to protect against deleterious environmental conditions
- Use appropriate equipment for lifting (check the weight of the equipment and the lifting devices), handling and moving the equipment
- During transport in vehicles, secure the equipment in an appropriate manner to avoid slipping and tipping.

#### 6.2. Storage

- Switch of the equipment and unplug from the main power source
- The equipment must be emptied and cleaned.
- The equipment must be stored in a dry and clean environment
- Protect the equipment for adverse environmental conditions



**USER INSTRUCTION MANUAL**

**SW-23**



PARTS WASHER OPERATION	BRAKE WASHER OPERATION
<ol style="list-style-type: none"> <li>1. The pump switch is attached to a ten minute timer. Turning the switch “ON” (upward position) will start fluid flowing for ten minutes. To restart the flow, turn the switch “OFF” then “ON” again and the flow will restart for another ten minutes.</li> <li>2. Adjust the valve at the base of the nozzle to control the flow of the fluid through the nozzle. The valve at the base of the brush hose controls the flow of fluid through the brush. Both outlets can be operated independently or together.</li> </ol>	<ol style="list-style-type: none"> <li>1. Unplug the SmartWasher® from the electrical outlet, roll up the power cable and secure it with the strap on the handle.</li> <li>2. Roll the SmartWasher® to the vehicle and position it under the brake you desire to clean.</li> <li>3. Plug in the power cable and begin cleaning.</li> <li>4. When finished, unplug the power cable and secure it with the strap on the handle. Roll the SmartWasher® back to its original spot and plug the power cable into the appropriate outlet.</li> </ol>



## USER INSTRUCTION MANUAL

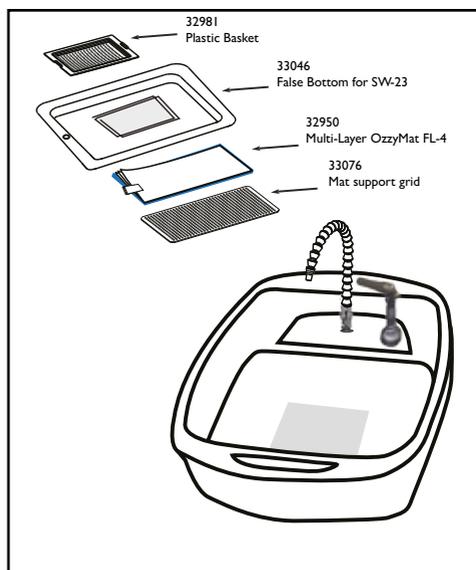
### 7. Installation and setup

#### 7.1. Mechanical installation and setup

##### 7.1.1. Model SW-23

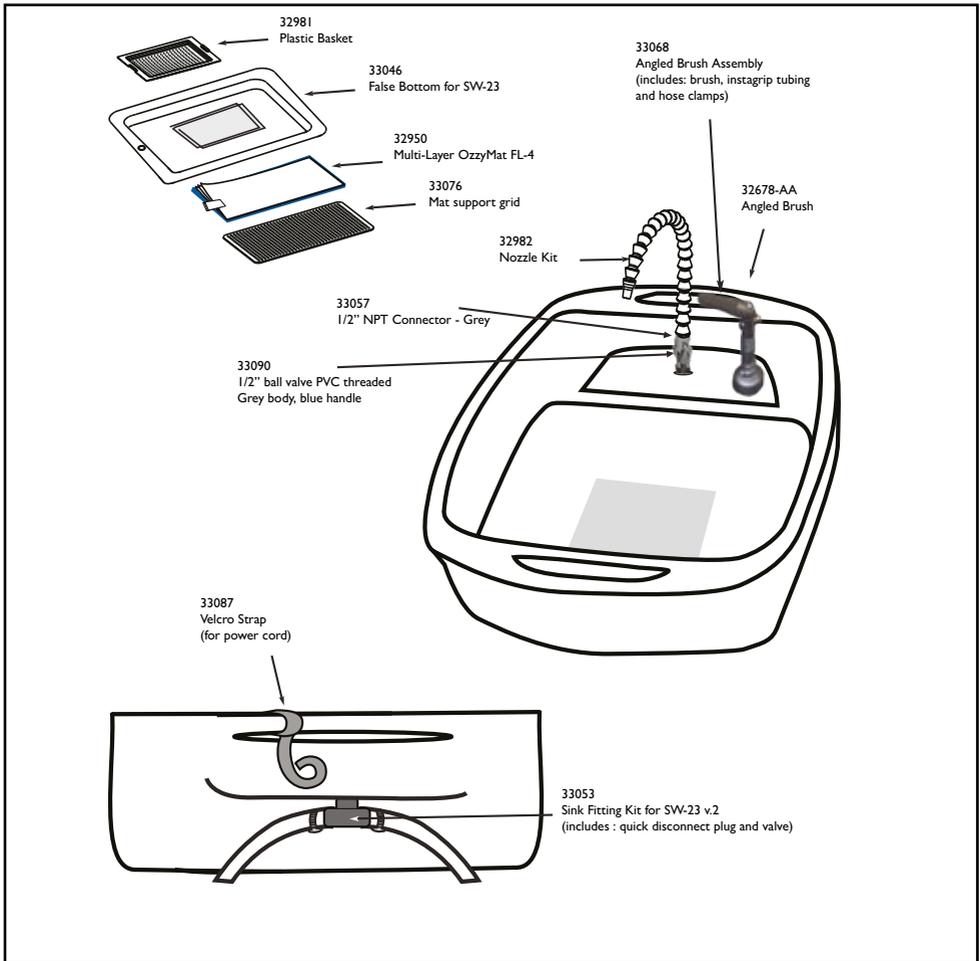
1. Remove the OzzyMat® from its package, unfold it and lay it on the mat support grid located in the lowest level in the sink. Make sure to lay the OzzyMat® white side up.
2. Place the false bottom in position in the sink.
3. Form the flexible nozzle to its desired shape and be sure that the parts brush is inside the sink
4. **DO NOT PLUG UNIT IN BEFORE ADDING OZZY JUICE®**
5. At start up, carefully add  $\pm 60$  liter of Ozzyjuice® to the SmartWasher by slowly pouring the solution directly into the sink.
6. Plug the unit into a 220 VAC GFCI electrical outlet
7. The SmartWasher® will take approximately four hours to heat up to its selected optimal temperature of  $40^{\circ}\text{C}$  ( $\pm 1^{\circ}$ ) or  $46^{\circ}\text{C}$  ( $\pm 1^{\circ}$ ). This temperature will be maintained as long as the SmartWasher® is plugged in and full of Ozzyjuice®. If the "Add Fluid" light is on, the heater automatically shuts off.

#### PARTS WASHER SETUP SW-23



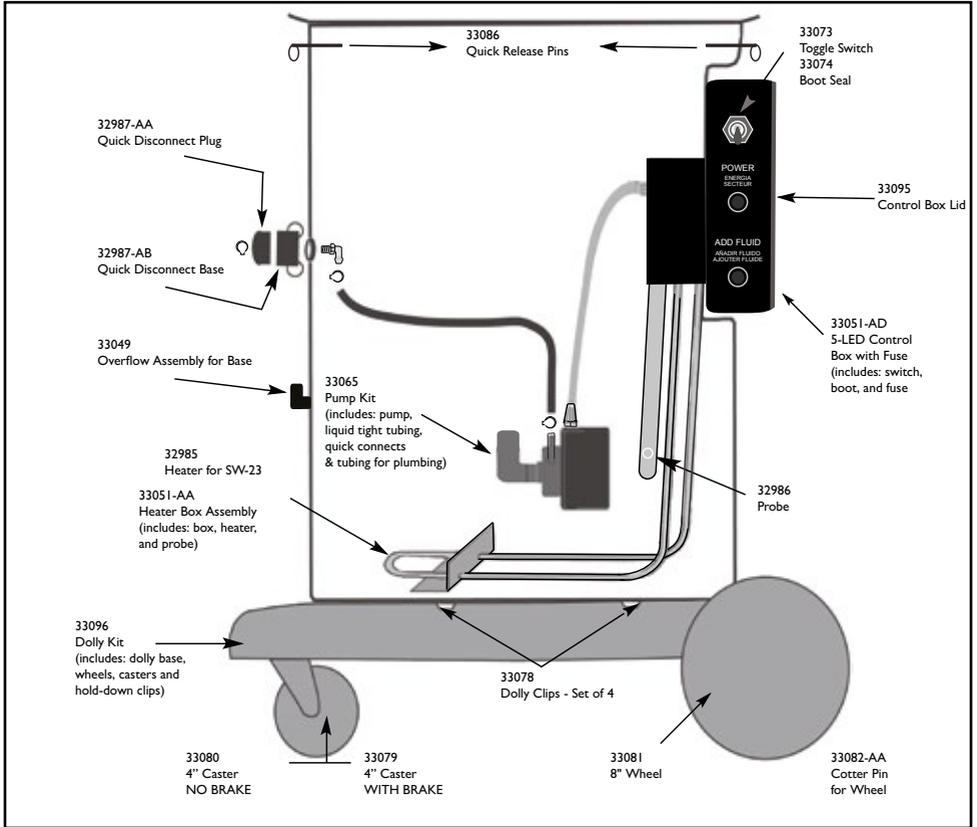
 **USER INSTRUCTION MANUAL**

**SINK DIAGRAM SW-23**



## USER INSTRUCTION MANUAL

### BASE DIAGRAM SW-23



<p>Additional Parts for Model SW-23:</p>	<p>32993-CF Heater Fuse; 6,3 Amp 32993-CH Pump Fuse; 1 Amp</p>	<p>33072 Bulkhead Fitting</p>
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 **USER INSTRUCTION MANUAL**

**SW-25**



**PARTS WASHER OPERATION**

1. The pump switch is attached to a ten minute timer. Turning the switch "ON" (upward position) will start fluid flowing for ten minutes. To restart the flow, turn the switch "OFF" then "ON" again and the flow will restart for another ten minutes.

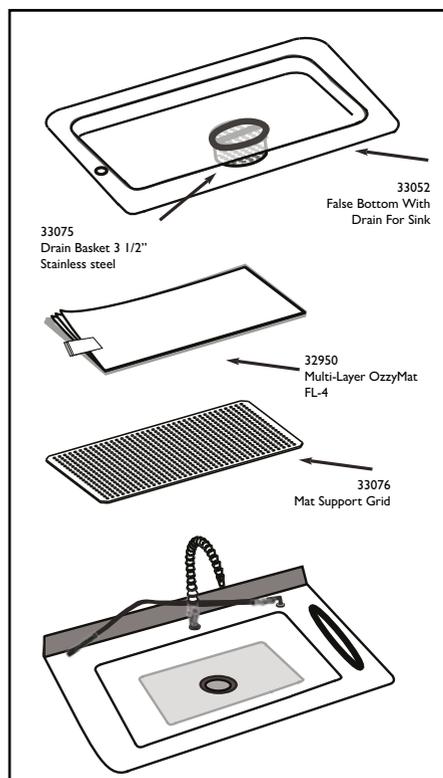
2. Adjust the valve at the base of the nozzle to control the flow of the fluid through the nozzle. The valve at the base of the brush hose controls the flow of fluid through the brush. Both outlets can be operated independently or together.



## USER INSTRUCTION MANUAL

### 7.1.2. Model SW-25

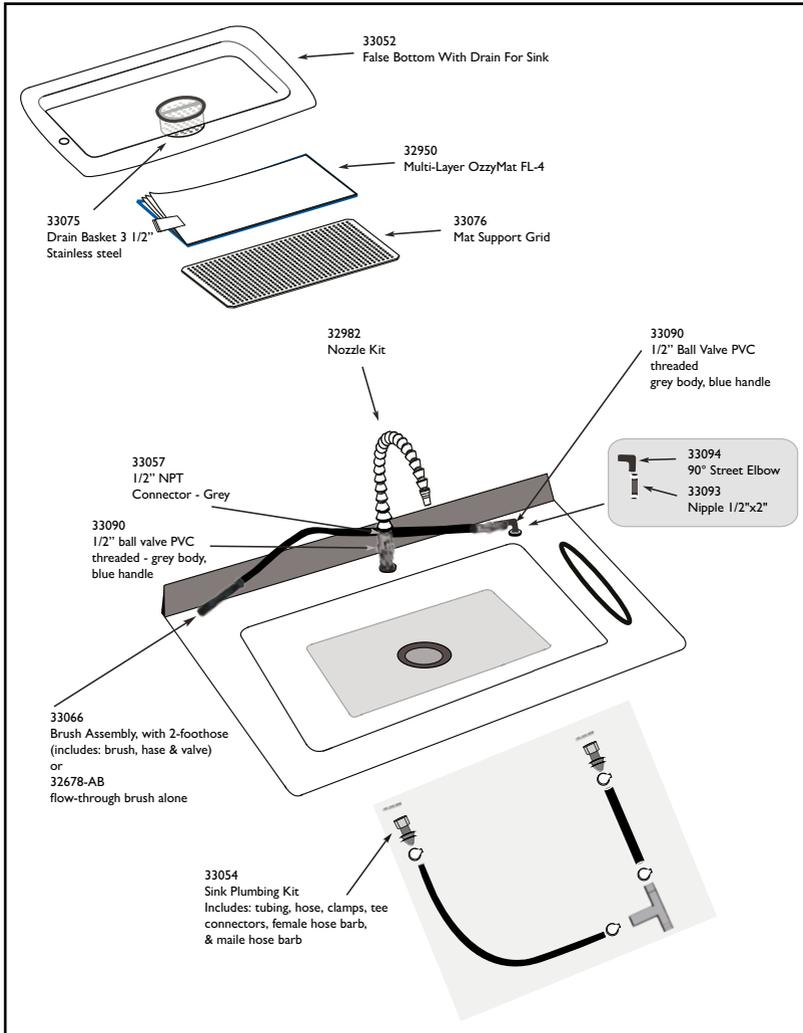
1. Remove the OzzyMat® from its package, unfold it and lay it on the mat support grid located in the lowest level in the sink. Make sure to lay the OzzyMat® white side up.
2. Place the false bottom in position in the sink.
3. Form the flexible nozzle to its desired shape and be sure that the parts brush is inside the sink
4. **DO NOT PLUG UNIT IN BEFORE ADDING OZZY JUICE®**
5. At start up, carefully add  $\pm 95$  liter of Ozzyjuice® to the SmartWasher® by slowly pouring the solution directly into the sink.
6. Plug the unit into a 220 VAC GFCI electrical outlet
7. The SmartWasher® will take approximately four hours to heat up to its selected optimal temperature of  $40^{\circ}\text{C}$  ( $\pm 1^{\circ}$ ) or  $46^{\circ}\text{C}$  ( $\pm 1^{\circ}$ ). This temperature will be maintained as long as the SmartWasher® is plugged in and full of Ozzyjuice®. (If the Add Fluid Light is on, the heater automatically shuts off)





**USER INSTRUCTION MANUAL**

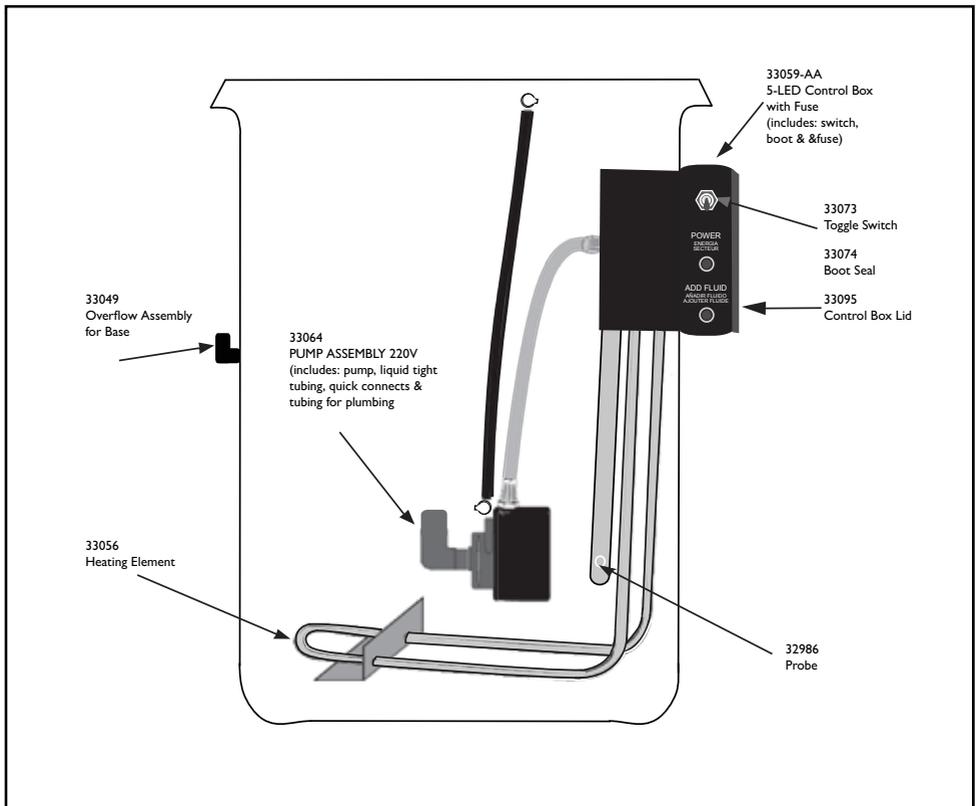
**SINK DIAGRAM SW-25**





**USER INSTRUCTION MANUAL**

**BASE DIAGRAM SW-25**



<p>Additional Parts for Model SW-25:</p>	<p>33061          Heater Box Assembly          (includes: heater, probe, box, fittings)</p>	<p>32993-CF Heater Fuse, 6,3 Amp          32993-CH Pump Fuse, 1 Amp</p>	<p>33072          Bulkhead Fitting</p>
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## USER INSTRUCTION MANUAL

SW-28



### PARTS WASHER OPERATION

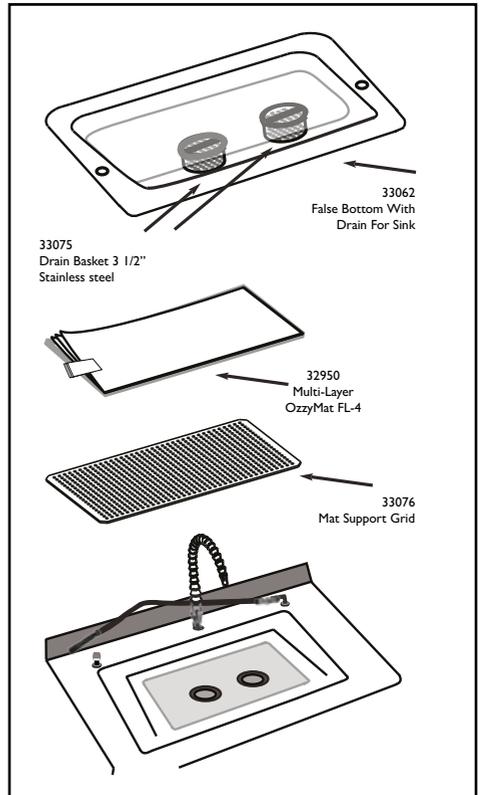
1. The pump switch is attached to a ten minute timer. Turning the switch "ON" (upward position) will start fluid flowing for ten minutes. To restart the flow, turn the switch "OFF" then "ON" again and the flow will restart for another ten minutes.
2. Adjust the valve at the base of the nozzle to control the flow of the fluid through the nozzle. The valve at the base of the brush hose controls the flow of fluid through the brush. Both outlets can be operated independently or together.



## USER INSTRUCTION MANUAL

### 7.1.3. Model SW-28

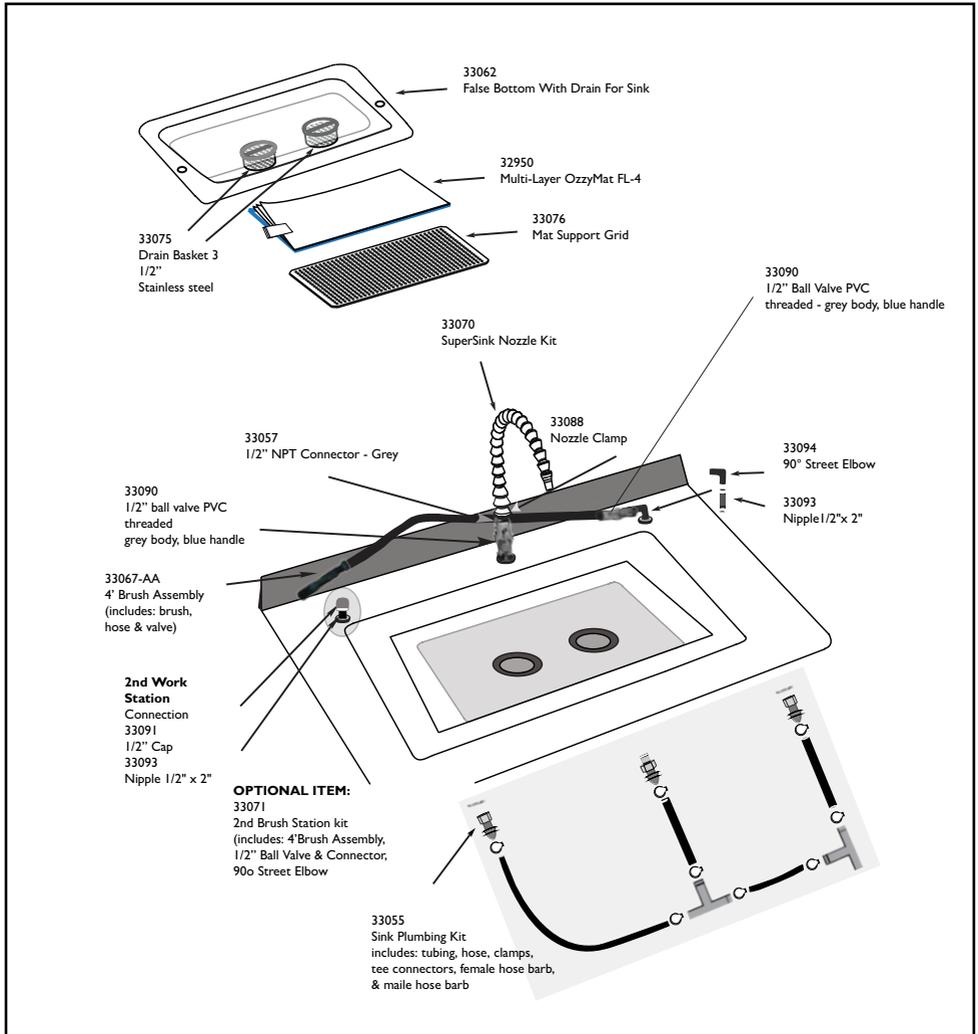
1. Remove the OzzyMat® from its package, unfold it and lay it on the mat support grid located in the lowest level in the sink. Make sure to lay the OzzyMat® white side up.
2. Place the false bottom in position in the sink.
3. Form the flexible nozzle to its desired shape and be sure that the parts brush is inside the sink
4. **DO NOT PLUG UNIT IN BEFORE ADDING OZZY JUICE®**
5. At start up, carefully add ± 95 liter of Ozzyjuice® to the SmartWasher® by slowly pouring the solution directly into the sink.
6. Plug the unit into a 220 VAC GFCI electrical outlet
7. The SmartWasher® will take approximately four hours to heat up to its selected optimal temperature of 40°C (± 1°) or 46°C (± 1°). This temperature will be maintained as long as the SmartWasher® is plugged in and full of Ozzyjuice®. If the “Add Fluid” light is on, the heater automatically shuts off.





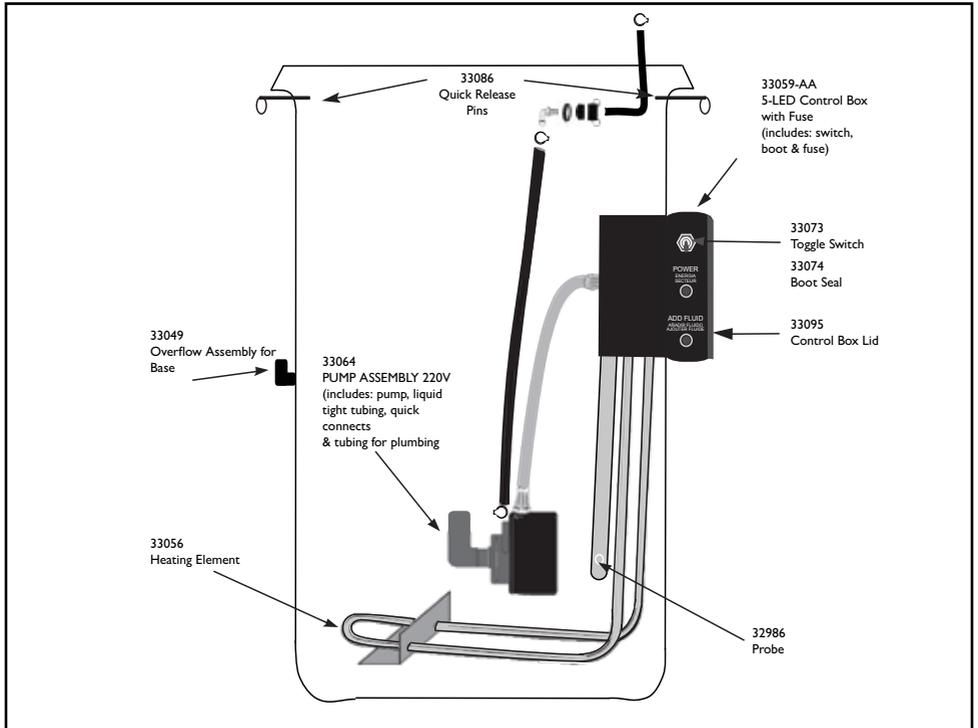
**USER INSTRUCTION MANUAL**

**SINK DIAGRAM SW-28**



 **USER INSTRUCTION MANUAL**

**BASE DIAGRAM SW-28**



<p>Additional Parts for Model SW-28:</p>	<p>33067-AB          Heater Box Assembly          (includes: heater, probe, box, fittings)</p>	<p>32993-CF          Heater Fuse, 6,3 Amp          32993-CH          Pump Fuse, 1 Amp          33072          Bulkhead Fitting</p>	<p>33064          Pump Assembly          (includes: pump, liquid tight tubing, quick connectors &amp; tubing for plumbing)</p>
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## USER INSTRUCTION MANUAL

SW-37



### PARTS WASHER OPERATION

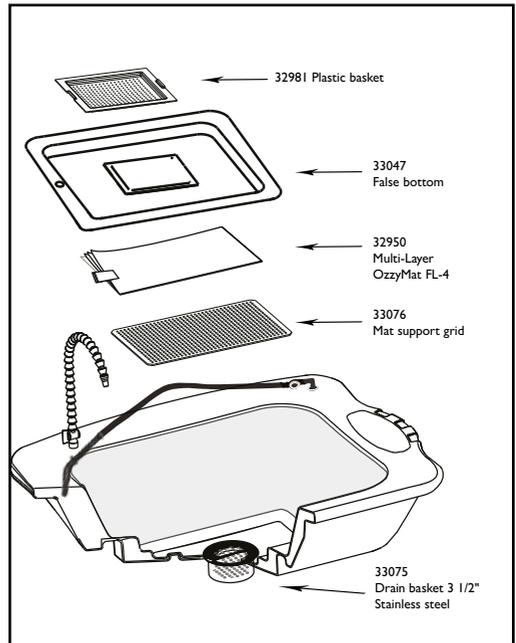
1. The pump switch is attached to a ten minute timer. Turning the switch "ON" (upward position) will start fluid flowing for ten minutes. To restart the flow, turn the switch "OFF" then "ON" again and the flow will restart for another ten minutes.
2. Adjust the valve at the base of the nozzle to control the flow of the fluid through the nozzle. The valve at the base of the brush hose controls the flow of fluid through the brush. Both outlets can be operated independently or together.



## USER INSTRUCTION MANUAL

### 7.1.4. Model SW-37

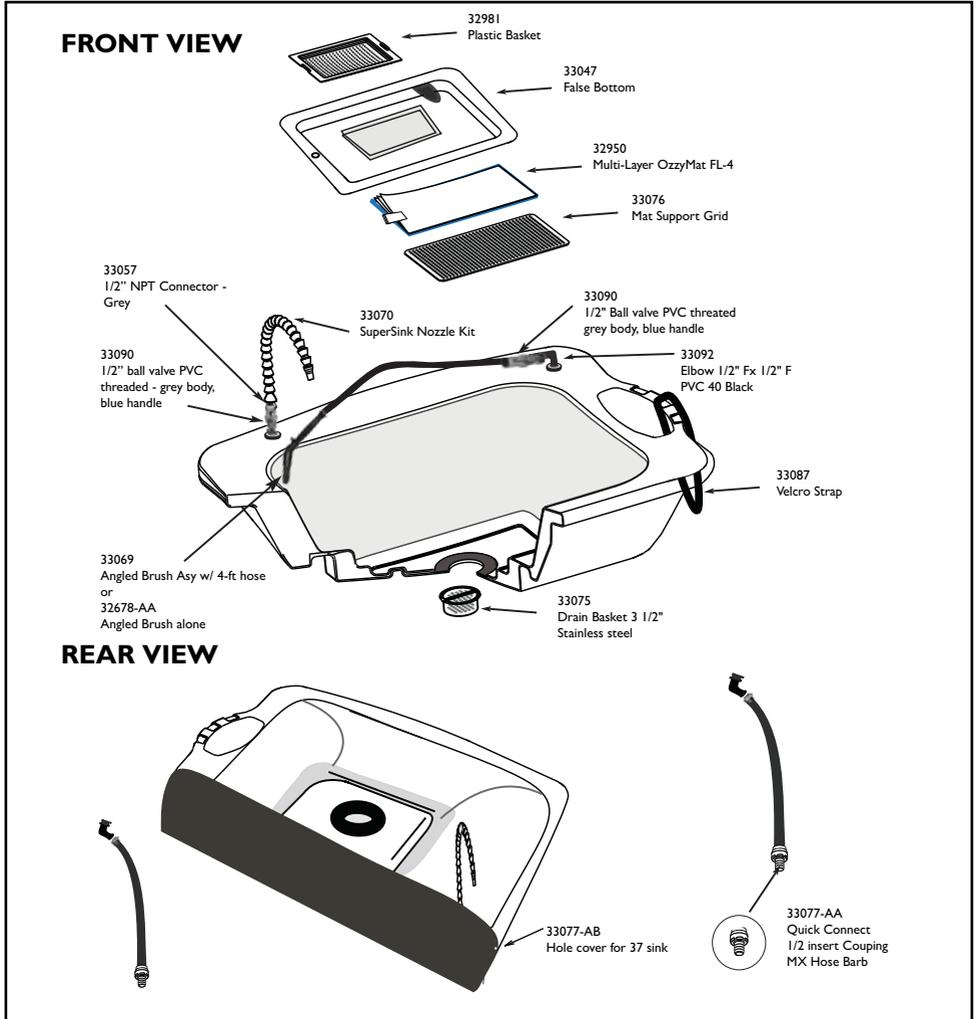
1. Remove the OzzyMat® from its package, unfold it and lay it on the mat support grid located in the lowest level in the sink. Make sure to lay the OzzyMat® white side up.
2. Place the false bottom in position in the sink.
3. Form the flexible nozzle to its desired shape and be sure that the parts brush is inside the sink
4. **DO NOT PLUG UNIT IN BEFORE ADDING OZZY JUICE®**
5. At start up, carefully add  $\pm 95$  liter of Ozzyjuice® to the SmartWasher® by slowly pouring the solution directly into the sink.
6. Plug the unit into a 220 VAC GFCI electrical outlet
7. The SmartWasher® will take approximately four hours to heat up to its selected optimal temperature of  $40^{\circ}\text{C}$  ( $\pm 1^{\circ}$ ) or  $46^{\circ}\text{C}$  ( $\pm 1^{\circ}$ ). This temperature will be maintained as long as the SmartWasher® is plugged in and full of Ozzyjuice®. If the “Add Fluid” light is on, the heater automatically shuts off.





**USER INSTRUCTION MANUAL**

**SINK DIAGRAM SW-37**

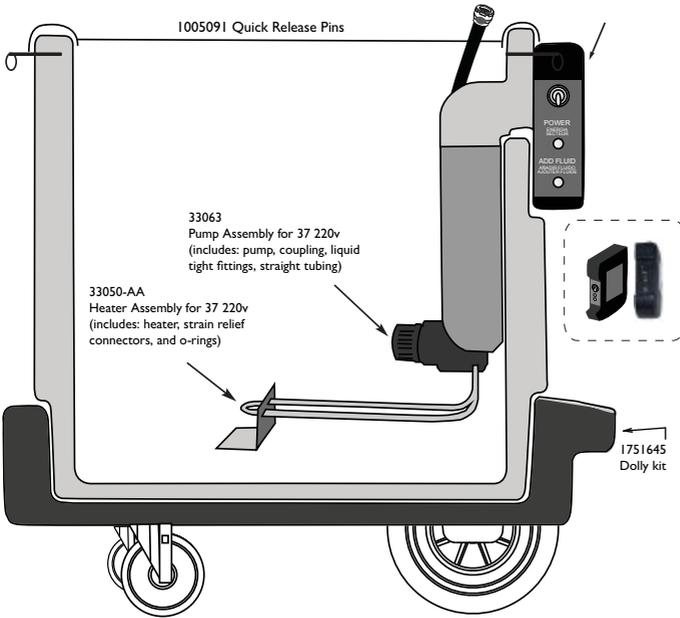


## USER INSTRUCTION MANUAL

### BASE DIAGRAM SW-37

33050-AF Overflow assembly - 37

33060-AA  
Control Box Assembly  
(includes: control box,  
toggle switch and boot,  
fuse, and strain relief  
connector)

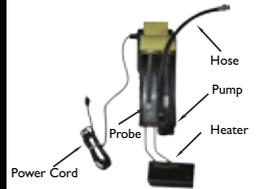


### FRONT AND SIDE VIEW control Assembly 37

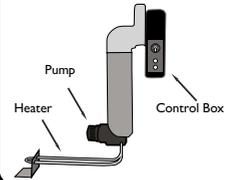
33058 Control Assembly 37 220v

(includes: pass thru, support bracket, control box assembly, heater assembly, probe, pump assembly, and hose kit)

#### FRONT VIEW



#### SIDE VIEW



33063  
Pump Assembly for 37 220v  
(includes: pump, coupling,  
liquid tight fittings, straight tubing)



33048  
Probe for 37



33050-AA  
Heater Assembly for 37 220v  
(heater, strain relief connectors  
and o-rings)



32993-CF  
Heater Fuse  
6.3 Amp

32993-CH  
Pump Fuse  
1 Amp



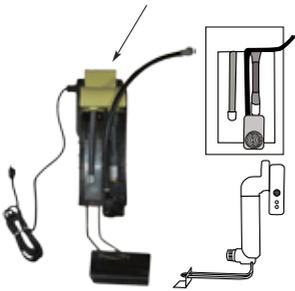
**USER INSTRUCTION MANUAL**

**REPLACEMENT PARTS**

**33058**

Control Assembly 37 220v Module

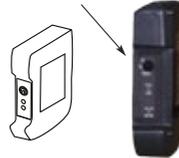
INCLUDES: Pass thru, support bracket, control box assembly, power cord, heater assembly, probe, pump assembly, and hose (Do not include powercord)



**33060**

Control Box  
 Assembly for 37

INCLUDES: control box, toggle switch and boot, fuse, and strain relief connector



**33063**

Pump Assembly 220v for 37

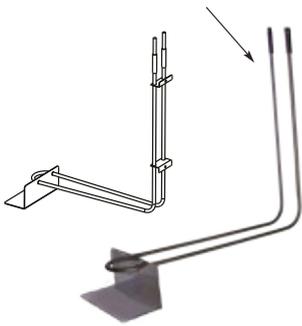
INCLUDES: pump, connectors, and tubing



**33050-AA**

Heater Assembly 37 220v

INCLUDES: heater, strain relief connectors, and o-rings



**33048**

Probe for 37





## USER INSTRUCTION MANUAL

### 7.2. Electrical installation and setup

- The SmartWasher® may only be connected to an alternating current power supply network. The voltage indicated on the type plate must correspond to the voltage of the electrical source. (220 VAC / 50-60 Hz)
- The equipment may only be connected to an electric supply that has been installed by a qualified electrician in accordance with IEC 60364.
- Any electrical component box may only be opened by a qualified electrician
- It is imperative to connect the equipment to the electric power supply by means of the supplied plug. The plug serves for the complete disconnection of the equipment from the main power supply. Do not alter the cable under any conditions. In case of damages to that cable, do not repair this cable but substitute by a new one.
- Check the power cable with mains plug for damage before every use. If the power cable is damaged, have it replaced immediately by your local CRC Distributor or by a qualified electrician in order to avoid possible hazards.
- The equipment should be installed in the neighbourhood of a normal 220VAC Ground Fault Circuit Interrupter (GFCI) electrical outlet so that it can be plugged in easily. The SmartWasher® should be the only item plugged into this circuit. The electrical circuit should be protected by a 30 mA differential switch.
- The use of an extension cable is authorized. If an extension cable is used, make sure that this cable is not damaged by running over, pinching, dragging or similar. Protect this cable from heat, oil, sharp edges, ...
- The extension cable must have the cross section listed in the circuit plan and be protected against spraying water. The connection must not lie in water.
- Please use the power cable prescribed by the manufacturer. The same is also applicable when you replace the power cable. For type details see chapter 7.1 of this user instruction manual.
- If couplings of the power cable or extension cable are replaced, the splash protection and the mechanical tightness must be ensured. For connection values, see type plate/technical data.
- Never touch the main power plug with wet hands.



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### 8. Use and application

- The equipment may only be used by persons who have been instructed in handling the equipment or have proven qualification and expertise in operating the equipment or have been explicitly assigned the task of handling the equipment.
- The equipment must not be operated by personnel under 18 years old, or by personnel who has not been instructed properly.
- The SmartWasher® with its tools must be checked to ensure that it is in proper working order and is operating safely prior to use. Otherwise, the equipment may not be used.
- The operator must use the equipment properly. The device is meant for manually cleaning parts in metal processing factories and plant maintenance.
- The degreasing fluids (OzzyJuice®) offered for this device and the corresponding microbe filter mats (OzzyMat®) should be used for the device to function properly.
- The use of other degreasing fluids can hamper or prevent the bio-degradation of grease and oily dirt.
- Do not use other degreasing fluid such as solvents, inflammable or explosive liquids, ...
- The equipment must be installed on a horizontal, firm base that does not allow liquids to seep in.
- The device is not meant for disposing off old oil. If large quantities of oil, petrol, gasoline, kerosene, engine oil, solvent, mineral spirits, anti-frost agents or similar substances enter the device. This can hamper the bio-degradation of oil/ grease by the microbes under normal operating conditions.
- It is not allowed to use the equipment in hazardous locations. (E.g. Potentially explosive atmospheres, closed environments, ...). If the equipment is used in hazardous areas (e.g. filling stations) the corresponding safety provisions must be observed.
- The operator must take into consideration environmental working conditions and must pay attention to other persons working in the neighbourhood when working with the equipment.
- All current-conducting parts in the working area must be protected against jet water.
- Do not clean
  - materials containing asbestos or other health-hazardous substances;
  - components coming in contact with food;
  - human body parts;
  - painting tools.
- Wear appropriate personal safety protection equipment against water sprays – especially appropriate safety goggles and gloves.
- If the degreasing fluid comes in contact with the eyes, please rinse the eyes thoroughly with water and consult a doctor immediately if the degreasing fluid has been swallowed.
- The SmartWasher® basin must provide a stable platform for the parts to be cleaned. The maximum load capacity is indicated in chapter 4 of this user instruction.
- Before using the models SW23 and SW37, the swivel wheels must be blocked.



## USER INSTRUCTION MANUAL

### 9. Operation

#### 9.1. Start Up

- Unpack the SmartWasher® ;
- Install the equipment as described in par. 7.1 of this user instruction
- Take away the basket and the OzzyMat®;
- Depending on the model, carefully add  $\pm 60$  or  $\pm 95$  liter of Ozzyjuice® to the SmartWasher®, by slowly pouring the solution directly into the sink;
- Plug in the SmartWasher® to the main power supply (220 VAC);
- The “Add Fluid” sign should be out when enough Ozzyjuice® has been added
- Please note that the heater will not operate if the “Add Fluid” sign is illuminated.
- Your SmartWasher® should be plugged in 24 hours a day, 7 days a week in order to maintain the optimal temperature;
- Depending on the Ozzyjuice® solution shipped with your SmartWasher®, the thermostat is factory-set to maintain a fluid temperature between 40°C and 46°C ( $\pm 1^\circ\text{C}$ ). This temperature provides the optimum condition for effective cleaning and activity of Ozzy microbes.
  - If, after a reasonable warm-up period, the fluid temperature seems too high or too low, please refer to the troubleshooting part in chapter 11 of this instruction manual.
  - The SmartWasher® uses a specially formulated fluid, called Ozzyjuice®. This is a degreasing solution which provides a combination of excellent cleaning characteristics, safety and nutrition for the

Ozzymicrobes. Ozzyjuice® is provided in ready-to-use containers of 20 litres.

- If the temperature falls below the recommended minimum temperature, the system will still clean, but remediation of the hydrocarbons by the Ozzy microbe colony will slow down. However, the microbes will not die. The Ozzy colony will become more active when the fluid temperature reaches the appropriate above mentioned temperature range.

#### 9.2. Operation

- The heater will not operate when the fluid level becomes critically low. Lift the sink and check the fluid level.
- To help monitor and maintain the proper fluid level, the SmartWasher® is equipped with an “Add Fluid” light. When the “Add Fluid” sign illuminates on the heater, the unit (including the heater) will automatically switch off until Ozzyjuice® has been added.
- Adding Ozzyjuice® : Take away the false bottom with the OzzyMat®, and slowly pour a full container (of 20 litres) directly into the SmartWasher® sink. The “Add Fluid” sign should go out when you have completed the process.
- The “Add Fluid” sign will shut off and the heater will automatically switch on again.
- Place the parts to be cleaned on the rinsing floor of the equipment. The maximum load capacity is indicated in the technical data in chapter 4 of this user instruction manual.



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- Switch on the pump
- Open the shut-off valve of the used cleaning tool

### 9.3. Shutting down

- After cleaning the parts, switch off the pump. Failure to do so will lead to unnecessary loss of degreasing fluid (OzzyJuice<sup>®</sup>) due to evaporation.

#### Notes:

- The pump will automatically switch off after 10 minutes. To restart, switch briefly “OFF” and “ON” the pump.
- Switch of the pump in case of power failure. If the pump remains switched “ON” during a power failure, the pump will restart as soon as the power supply is restored.
- If the power failure remains for a longer period of time, then new microbes must be added to the degreasing fluid. Replace the filter mat (OzzyMat<sup>®</sup>).
- A microbial enhancer, so called “OzzyBooster<sup>®</sup>” can be used to enhance or “boost” the microbial activity in the SmartWasher<sup>®</sup> system. It actually increases the density of Ozzy<sup>®</sup> microbes within the OzzyJuice<sup>®</sup>.
- If the interruption of power supply remains over several weeks, add an additional container of OzzyBooster<sup>®</sup> to the SmartWasher<sup>®</sup>.



## USER INSTRUCTION MANUAL

### 10. Maintenance & repair

#### 10.1. Execution of maintenance and repair

- Switch of the equipment and disconnect from the main power supply before cleaning and performing maintenance and/or repair.
- Wear appropriate personal safety protection equipment (e.g. glasses, gloves, ...)
- Foresee appropriate and sufficiently lighting during maintenance and repair.
- Repair and maintenance work may only be carried out by trained personnel in this field, familiar with the equipment and the related safety regulations (contact your local CRC distributor).
- Only use accessories and spare parts which have been approved by CRC Industries Europe. The exclusive use of original accessories and original parts ensures that the equipment can be operated safely and trouble free for its entire lifetime. (See chapter 7 of this user instruction manual for references).
- Mobile equipment used for commercial purposes may be subject to safety inspections in accordance with national regulations.

#### 10.2. Frequency of maintenance

##### 10.2.1. Daily

- Check in general for damages and wear. If present, see chapter 10.1
- Keep an eye on the "Add Fluid" light. If the indicator lamp is on, add degreasing fluid OzzyJuice® into the equipment.
- In general, keep the equipment clean

##### 10.2.2. Weekly



#### OzzyMat® FL-4 Maintenance

- Make sure the pump is not running
- Remove the false bottom from the sink
- Peel away the top layer of the OzzyMat® and wring out any excess fluid. Then dispose of this layer accordance to your local regulations
- Returns the false bottom to its proper place



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### 10.2.3. Monthly

The OzzyMat<sup>®</sup> traps sludge and dirt as small as 50 microns. It works effectively even when it appears dirty. At some point, however, it will become saturated and unable to pass fluid freely and should be changed. The FL-4 multi-layer OzzyMat<sup>®</sup> allows you the benefit of being able to peel layers between mat changes.

To maintain the effectiveness and performance of the Ozzyjuice<sup>®</sup>, maintain or replace the OzzyMat<sup>®</sup>, once a month.



#### OzzyMat<sup>®</sup> FL-4 replacement

- Make sure the pump is not running
- Remove the false bottom from the sink
- Remove the last layer of the soiled OzzyMat<sup>®</sup> and set to one side of the filter support grid
- Remove a new OzzyMat<sup>®</sup> from its poly bag, unfold the mat and lay it on top of the filter support grid – white side up.

Wring any excess fluid from the old mat onto the new OzzyMat<sup>®</sup>. It is important to wring used OzzyMat<sup>®</sup> prior to disposal

Take the old, used OzzyMat<sup>®</sup> and place into the poly bag the new mat came in.

Return the false bottom to its proper position

Discard used OzzyMat<sup>®</sup> in accordance with your local regulations.

### 10.2.4. Yearly

We suggest to perform at least an annual maintenance. Simple perform the annual maintenance described here below:

- Pump out the fluid into a suitable container until the machine is drained
- Unplug the SmartWasher<sup>®</sup>
- Only pull out the lock pins prior to removing the sink
- Remove the sink from the base, inspect and remove any sludge that might have accumulated on the bottom of the unit
- Clean the base with water to remove any debris
- Visually check the condition of the hoses, connectors, etc.
- If everything appears to be in a good working condition, reassemble the sink, pour the necessary amount of Ozzyjuice<sup>®</sup> in the SmartWasher<sup>®</sup>, and install the false bottom with the OzzyMat<sup>®</sup>.
- Make sure that during the re-assembly, components (e.g. hoses, ...) do not come in contact with the heating element.
- Do not forget to put the safety pins back in place
- If you fail to maintain your SmartWasher<sup>®</sup>, you may still be able to save your fluid
- Add OzzyBooster<sup>®</sup> for an extra supply of microbes to bring your fluid back into conformity.
- If the fluid has developed an odour or is discoloured, contact your local distributor.



## USER INSTRUCTION MANUAL

### I. Troubleshooting

ISSUE	REMEDIAL ACTION
Cold fluid	<p>If the SmartWasher is low on fluid, the heater automatically shuts off</p> <ul style="list-style-type: none"> <li>- Check to see if the “Add Fluid” indicators are lit. There should be approximately 28 cm of fluid in the machine when it is low</li> <li>- If the “Add Fluid” light is illuminated, add a full container (20 litres) of OzzyJuice®. The indicator light should go out.</li> <li>- Allow for a reasonable warm up period and then recheck.</li> </ul>
Overheated fluid	<p>If the fluid becomes extremely hot and exceeds 49°C, unplug the SmartWasher® and contact your local CRC distributor.</p>
Spilled OzzyJuice®	<ul style="list-style-type: none"> <li>- OzzyJuice® will cause the floor to become slippery. Use caution when walking in or near spilled fluid.</li> <li>- To clean up an accidental spill of new, unused fluid simply soak up the solution with an absorbent material, (or wash spillage down the nearest sanitary sewer).</li> <li>- If the spilled OzzyJuice® has been used, you must dispose of the spillage in accordance with local regulations.</li> <li>- If left to dry, the fluid will leave a tacky spot on the floor that when wet, will again become slippery.</li> </ul>
Excessive oil dumped in system	<ul style="list-style-type: none"> <li>- Unplug the SmartWasher® and lift the sink off the base.</li> <li>- Skim excessive oil off the top of the OzzyJuice® or place an absorbent pad on top of the fluid, soak up the oil and dispose of it in accordance with local regulations.</li> <li>- In extreme cases, it may be necessary to replace all of the OzzyJuice® in the SmartWasher®. Dispose of contaminated OzzyJuice® and OzzyMat® accordance to local regulations.</li> <li>- If you replace all of the OzzyJuice®, rinse the base of the SmartWasher to remove all excess oil and dirt.</li> <li>- Once unit has been cleaned, re-install the sink (without the false bottom and OzzyMat®, and add 60 or 95 liter of new OzzyJuice® (depending on the SmartWasher® type).</li> <li>- Re-install the false bottom with a new OzzyMat® .</li> </ul>



## USER INSTRUCTION MANUAL

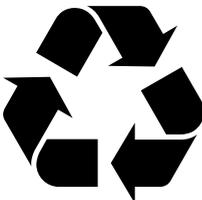
ISSUE	REMEDIAL ACTION
Excessive fluid loss	<p>With “normal usage” you should have to add a 20 liter container of Ozzyjuice<sup>®</sup> approximately every 6 to 8 weeks. “Normal usage” means the equivalent of several users in a 10 hour day in a standard maintenance, repair and operation facility or several users in a multiple bay garage facility.</p> <p>a) Check the fluid temperature. If the temperature is above 49°C the probe is not working properly. Temperatures above 49°C will increase the rate of evaporation.</p> <p>b) Examine closely where the sink and base meet. Are there any gaps? Is the base bowed? Is the sink warped? The SmartWasher operates as a closed system; any gaps will provide space for air to enter and condensation to escape.</p> <p><b>Is the SmartWasher<sup>®</sup> “leaking”? Where is it “leaking” from?</b> Make sure the nozzle and brush are flowing into the sink.</p> <p><b>If the fluid is leaking from the body of the base?</b> The base will need to be replaced.</p> <p>If none of the previous applies, this rules out any problem with the SmartWasher<sup>®</sup> itself.</p> <p>Make sure you and your co-workers are aware that certain practices can cause you to use excessive amounts of Ozzyjuice<sup>®</sup>.</p>
Low or no fluid from brush/ nozzle	<p>Make sure that the valves at the base of the nozzle and brush are open.</p> <p>If a stronger flow through either device is needed, turn the valve on the unused tool to the closed position</p> <p>Hoses from the pump to the nozzle and brush could be clogged, pinched or disconnected. Check the hoses from the pump to the nozzle making sure they are in working order.</p> <p>Make sure that the SmartWasher<sup>®</sup> is not low on fluid</p> <p>Hose connections should be secure and not leaking</p> <p>The pump comes with a one year factory warranty. If the pump is faulty, contact your local CRC distributor to order your warranty replacement (if applicable). Have the serial number of the SmartWasher<sup>®</sup> unit available when calling.</p>



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### 12. Environmental aspects

Check local regulations. You may be able to dispose of your used OzzyMat™ as solid waste or with your other absorbent mats.

	- The packaging materials of the SmartWasher® can be recycled. Do not dispose it with household waste, but dispose it for recycling.
	- Oil, diesel, petrol, ... must be disposed in accordance with National regulations in an environmentally-clean manner.
	- Mineral oil contaminated waste water cannot be disposed in the soil, water or sewage systems.
	- The filter mats and the degreasing fluids must be disposed in accordance with National regulations in an environmentally-clean manner
	- The equipment and its parts contain valuable materials, which can be recycled. Therefore, do not dispose them into the environment, but bring them to a recognized collection point for appropriate recycling.

The following EC waste codes are applicable to the filter mats and the degreasing fluids:

OzzyMat®	130899 – Oil waste a.n.g.
OzzyJuice® SW-I	070601 – Watery washing liquids due to the use of degreasing fluids
OzzyJuice® SW-XI	
OzzyJuice® SW3-3	
OzzyJuice® SW6-3	



## USER INSTRUCTION MANUAL

### 13. Frequently asked questions

#### What is **BIOREMEDIATION** ?

Bioremediation is the use of biological agents such as microbes or plants to break down or neutralize “hazardous substances” or “contaminants” thereby removing dangerous chemicals from the environment. The process of bioremediation is listed as one of the Environmental Protection Agency’s (EPA) innovative technologies.

#### How is “**Bioremediation**” different from “**Biodegradable**” ?

BIOREMEDIATION is the use of natural biological agents such as microbes to break down or neutralize “hazardous substances” or “contaminants”. FOR EXAMPLE: In the SmartWasher®, Ozzy(s), natural biological agents or microbes, break down the carbon-based contaminants (grease and oil) and turn them into harmless carbon dioxide and water. BIODEGRADABLE means that a substance or mixture is subject to or could be broken down by biological agents into smaller compounds.

#### Who and what is **Ozzy®** ?

Ozzy is the name we selected for the blend of non-pathogenic (harmless to humans) microbes in the SmartWasher system. Our microbes, Ozzy and his friends, eat potentially harmful hydrocarbon wastes in the SmartWasher® and transform these wastes into very small quantities of carbon dioxide and water. Similar types of microbes have been used for many years in various bioremediation applications, such as oil spills, including the Gulf of Mexico spill in 2010, and the Exxon Valdez disaster in 1989.

#### What happens to the **grease, oil and other contaminants in the SmartWasher?**

Grease, oil and other contaminants are bioremediated in the SmartWasher® - transformed into harmless, non-hazardous by-products such as carbon dioxide and water. Particulate matter, such as sand, grit, dirt and paint chips are trapped in the OzzyMat® to be disposed of properly.

#### How well does **Ozzyjuice** clean?

Ozzyjuice® is extraordinarily powerful and cleans extremely well. Ozzyjuice® is a surfactant that breaks down the surface tension between the grease and the part rather than dissolving it; the grease actually lifts off the parts leaving behind clean surfaces. Note that while Ozzyjuice® cleans differently than dangerous solvents or mineral spirits, it cleans just as well.

#### Will **Ozzyjuice** clean **carburetors, transmissions, aluminium, brakes and anything else in my shop?**

YES. Not only is Ozzyjuice® effective on these parts, it will not damage non-metal components that may be attached to the parts being cleaned such as rubber or plastic fittings. As with all parts cleaners, some items are going to become cleaner at different rates than others due to the degree and type of grime encountered.

#### How often do I change the fluid (**Ozzyjuice®**)?

If you are changing your OzzyMat® a minimum of once a month, under normal use and with proper maintenance, you should never have to change or haul away used Ozzyjuice®. This is one of the biggest advantages of



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the SmartWasher<sup>®</sup> system. Ozzy(s) microbes clean contaminants from the fluid through the process of bioremediation. This leaves you with clean OzzyJuice<sup>®</sup> to work with day after day.

### **Why is the SmartWasher heated?**

Two reasons: First, it keeps Ozzy eating at an optimal level to clean the solution as quickly as possible. Secondly, warm solution simply cleans better than cold solution. An added benefit to warm solution: it makes it more enjoyable to work with, especially in winter.

### **Why doesn't OzzyJuice damage my hands like solvents?**

OzzyJuice<sup>®</sup> is a pH-neutral, non-caustic, water-based formula that will not dry, crack or irritate the skin. Solvents are caustic and pull fat cells from the skin, possibly causing extreme drying, redness, blisters, and other dermatological problems.

### **Can I use OzzyJuice in other parts washers?**

We do not recommend that OzzyJuice<sup>®</sup> be used in other parts washers. The OzzyJuice<sup>®</sup> and the SmartWasher were made to work together with variables such as specific temperatures, compensation for foam, and so on. Also remember, the Ozzy(s) microbes are in the OzzyMat<sup>®</sup> and if the OzzyJuice<sup>®</sup> is used in another machine it will not have the Ozzy(s) microbes to clean the fluid.

### **How much oil can I put into the SmartWasher at a time?**

As with all parts cleaners, excessive greases, oils and

fluids should be disposed of prior to washing parts. The SmartWasher can handle large, tough, dirty jobs, but was not designed to be - nor should be treated as - a waste oil dump.

### **Can I use other fluids in my SmartWasher?**

The SmartWasher parts washing system has been painstakingly developed to work effectively as a whole: SmartWasher<sup>®</sup>, OzzyJuice<sup>®</sup> and OzzyMat<sup>®</sup>. Other solutions may damage the machine or kill Ozzy, thereby eliminating the advantages of the SmartWasher<sup>®</sup>. The use of other solutions in the SmartWasher<sup>®</sup> will void the warranty.

### **Can the SmartWasher<sup>®</sup> overheat if the OzzyJuice<sup>®</sup> gets low?**

NO. The heater is automatically de-activated when the "Add Fluid" indicator light is illuminated. While the pump will continue to operate, the heater will not be reactivated until the entire 20 liter container of OzzyJuice<sup>®</sup> is added to the system and the "Add Fluid" indicator light is off.

### **Can I simply add water to the SmartWasher to adjust the fluid level?**

NO. Adding water will dilute the OzzyJuice<sup>®</sup>, severely impacting its performance.

### **How often do I add OzzyJuice<sup>®</sup> to the SmartWasher<sup>®</sup>?**

The SmartWasher<sup>®</sup> comes equipped with an add fluid light which illuminates when you are low on fluid.



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When this light is on, simply add a 20 litre container of OzzyJuice<sup>®</sup> to bring the fluid level up to normal. On average, with normal use, you will add a 20 liter container of OzzyJuice<sup>®</sup> approximately every six to eight weeks.

### **How quickly can Ozzy break down oil and grease?**

Once activated, Ozzy and his friends are constantly eating. Assuming the system is operating optimally (OzzyJuice<sup>®</sup> temperature between 40°C - 46°C and the OzzyMat<sup>®</sup> routinely changed a minimum of once every 30 days) the rate at which the hydrocarbons can remediate can approach 80% every seven days. Analyses performed on samples of used OzzyJuice<sup>®</sup> from operating SmartWasher<sup>®</sup> systems consistently show oil and grease levels in the 1,400 parts per million range. BY COMPARISON, used, non-bioremediating, aqueous cleaners can average over 20,000 parts per million of oil and grease.

### **Does anything kill Ozzy?**

YES. Any biocides designed to kill microbes, such as bleach and Lysol™, will kill Ozzy; chemicals that kill living things like some strong pesticides and rat poison may be harmful to Ozzy.

### **How often, how much and when are you adding fluid?**

A full container of OzzyJuice<sup>®</sup> should be added immediately when the “Add Fluid” light comes on. The system is designed to warn users at the point at which fluid should be added. Please keep in mind that the light will remain illuminated while fluid is low, and more fluid

will be needed to reach the proper operating level. If the “Add Fluid” light is on, the heating of the cleaning fluid is switched off. Please note that in this

### **How many hours a day do you have the pump running?**

The more the pump runs, the more evaporation occurs. Never leave the pump running when the SmartWasher<sup>®</sup> is not in use.

### **How often do I change the OzzyMat<sup>®</sup>?**

At least once a month. This simple act accomplishes three things: First, it keeps trapped contaminants from reaching inappropriate levels. Secondly, Ozzy microbes are introduced into the SmartWasher system through the OzzyMat<sup>®</sup>. Every time you change the OzzyMat<sup>®</sup> you introduce fresh Ozzy(s) to the existing microbe colony which keeps the system working at an optimum level. Finally, changing the OzzyMat<sup>®</sup> keeps sludge from building up in the base of the unit. If the OzzyMat<sup>®</sup> is not changed regularly and allowed to become clogged, large contaminants can flow into the reservoir via the overflow holes in the sink, potentially causing sludge to build up.

### **How do I dispose of the OzzyMat<sup>®</sup>?**

In many areas the OzzyMat<sup>®</sup> can be disposed of in a non-leaching, sealed manner, and disposed of as solid waste. But it must always be disposed of in accordance with National Regulations.

### **What do I do if the OzzyMat<sup>®</sup> clogs up quickly with grease?**

The FL-4 OzzyMat<sup>®</sup> has 4 layers intended to be peeled away weekly, which helps eliminate unnecessary clogging.



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If you are using the FL-4 OzzyMat<sup>®</sup> then you need to make sure you are peeling away the individual layers on a weekly basis. Change the entire OzzyMat<sup>®</sup> on the 4th week OR every month. Make sure to remove any excess grease, dirt and debris from dirty parts prior to washing.

### **Does the OzzyMat<sup>®</sup> clog up and cause the fluid to pool up in the sink?**

If the fluid is backing up in the sink and not draining through the OzzyMat<sup>®</sup> properly, there will be increased evaporation and the low fluid light may come on prematurely because the fluid is in the sink, not in the base.

### **How many operators and how many hours a day are you using the SmartWasher<sup>®</sup>?**

This will help you determine if they have high, normal or low usage. If you have higher than normal usage, you will have higher fluid usage.

### **When did you notice the change in usage?**

If fluid usage has been fine for a period of time and usage has just recently increased, check to see if anything has changed recently. (New employees, more employees, more parts being cleaned, longer hours of use, etc.)

### **Are operators squeezing the excessive fluid out of the OzzyMat<sup>®</sup> into the sink after installing a new OzzyMat<sup>®</sup>?**

When changing out the old OzzyMat<sup>®</sup>, squeeze out any excessive fluid.

### **What if the fluid has discoloration or gives odour?**

Ozzyjuice<sup>®</sup> may become dark in colour due to dyes in oils or greases removed from dirty parts. This will not affect its cleaning power. If the fluid should develop a strong odour, it may be contaminated and you should call local CRC distributor.



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### 14. Disclaimer and warranty

#### 14.1. DISCLAIMER

The SmartWasher<sup>®</sup> is designed exclusively for removing oil and grease from automotive and industrial parts, and then remediating the residue. Any other use of this system, such as dumping waste oil, is not recommended and will cause damage to the system.

CRC Industries Europe cannot be responsible for any damages resulting from improper, inappropriate or unauthorized use

In addition, while CRC Industries Europe has performed multiple analyses of used OzzyMats<sup>®</sup> and fluid and found them to be non-hazardous, we strongly recommend that local regulations regarding hazardous waste disposal and handling be consulted before disposing or handling used CRC Industries Europe products.

CRC Industries Europe accepts no responsibility or liability for users' failure to comply with local regulations.

#### 14.2. WARRANTY

The SmartWasher is intended for professional use only. All parts on the SmartWasher are guaranteed for 1 year, with the exception of normal wear parts (brush, filters, hoses, etc.) and any parts that may have been damaged by incorrect use, negligence, accident, or failure to adhere to the written maintenance instructions contained in this Manual. CRC Industries will replace, at no charge to the distributor (original purchaser), any parts found to be

defective in material, when these parts are returned to our European Distribution Centre, located in Zele, Belgium. Transportation charges to be paid by original purchaser. The guarantee is effective from the date of distributors invoice for the SmartWasher. In the event of any claim under warranty, the original invoice, or copy will be required as proof of purchase. The SmartWasher has been designed for use as described in the operating instructions. Any modification made to the SmartWasher or use of any non-CRC-approved replacement parts will lead to the guarantee being declared null and void. In addition, the use of any consumables other than those indicated in the instruction manual, Ozzyjuice SW-1, SW-3, SW-6 and SW-X1 and any subsequent additional SW series fluids and the Filters, OzzyMat FL-4, will lead to the guarantee being declared null and void.

The manufacturer cannot be held in any way liable for any damage caused by using the parts washer in any way other than the way recommended in the operating instructions, in technical datasheets and in the safety data sheet concerning associated products.

All other warranties (whether expressed or implied) as to quality, condition, description, compliance with sample or fitness for purposes (whether statutory or otherwise) other than those expressly set out in this [Manual] are excluded to the fullest extent permitted by law. The manufacturer shall in any event not be liable for consequential damages. The manufacturer reserves the right to make changes in design or improvements to its product without imposing any obligation on itself to install the same on its product previously sold.



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### 15. EC Declaration of conformity (acc. MD2006/42/EC)

**Manufacturer:**

CRC Industries, Inc.  
8 Meca Way, Norcross  
GA 30093 USA

CRC Industries, Inc., hereby declares that the machine described below fulfils all the relevant safety and health requirements of the below mentioned EU Directives, both in design and construction. This declaration shall cease to be valid if the machine is modified without our prior approval.

**Product:** SmartWasher<sup>®</sup> SW-23 / SW-25 / SW-28 / SW-37

**Serial number:** (see equipment data plate)

**Relevant EU Directives:**

MD2006/42/EC – Machine Directive  
LVD2014/35/EU – Low Voltage Directive  
EMC2014/30/EU – Electro Magnetic Compatibility Directive

**Applied harmonized standards:** EN12100:2010, IEC60335-1 (2012+A1:2014)

The undersigned hereby declares that the equipment specified has been developed, designed and produced according to the requirements of the above mentioned EU Directives under the sole responsibility of CRC Industries, Inc.

Signature: *Michelle Rudrick*

Date: 24-AUG-2020

Title of the signing person: Director of Regulatory Affairs



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### 16. Attachments

#### Electrical diagram

**Note:** The material safety data sheets of the Ozzyjuice® are freely available on the internet site of CRC Industries BV. If you have no access to this this internet, you can ask a copy to your CRC local distributor.