#### LIST OF CONTENTS TOPIC

INTRODUCTION	3	
MACHINE IDENTIFICATION	3	
WARNINGS!	4	
GENERAL WARNINGS AND RECOMMENDATIONS	4	
DISPOSAL	6	
TRANSPORT AND MOVEMENT	6	
UNPACKING	7	
BATTERIES INSTALLATION	8	
MACHINE DESCRIPTION	11	
PRIMARY FUNCTIONS AND CONTROLS	13	
MACHINE SETTING	18	
BRUSHES/ABRASIVE DISC INSTALLATION	18	
MOUNTING THE SQUEEGEE	19	
ADJUSTING THE SQUEEGEE	19	
FILLING THE DETERGENT SOLUTION TANK	21	
DETERGENT DOSING DEVICE	22	
DETERGENT DOSING DEVICE WASHING	22	
DETERGENT DOSING DEVICE CONTROLS	23	
ADJUSTING THE DETERGENT SOLUTION ON THE BRUSHES	23	
SLASH GUARD LIFTING FOR PRE-WASHING	24	
FASTENING THE ABRASIVE DISC ON THE ENTRAINER	24	
USING THE MACHINES	25	
CHECK BEFORE USE	25	
OPERATION	25	
PERIODIC SERVICING	27	
DRAINING AND CLEANING THE RECOVERY TANK	27	
ECO-SYSTEM PLANT WASHING INSTRUCTIONS	28	
DRAINING AND CLEANING THE SOLUTION TANK	29	
CHECKING BRUSHES OR ABRASIVE DISCS	30	
CLEANING THE DETERGENT SOLUTION FILTER	30	
CLEANING, REPLACING AND CHECKING THE INSTALLATION OF THE SQUEEGEE BLADES	31	
SPLASH GUARD BLADES ROTATION/REPLACEMENT	33	
• CLEANING THE SOLUTION DOSER CONNECTION AND THE DETERGENT DOSER	34	
CONNECTION		
CHECKING AND REPLACING FUSES	35	
GREASING POINTS	37	
CHECKING AND REPLACEMENT OF MOTOREDUCER OIL	37	
CLEANING THE SUCTION FILTER	38	
CHECKING THE SEAL ON THE COVER	38	
RECHARGING BATTERIES	39	
DIMENSIONAL TECHNICAL DRAWINGS	40	
TECHNICAL CHART	40	
RECOMMENDED SPARE PARTS	<u>41</u> 43	
TROUBLE-SHOOTING CHART		
	<u>46</u> 47	
INSTALLATION FORM FOR WARRANTY APPROVAL		
DECLARATION OF CONFORMITY	49	

DATE OF LAST UPDATE 22-01-13

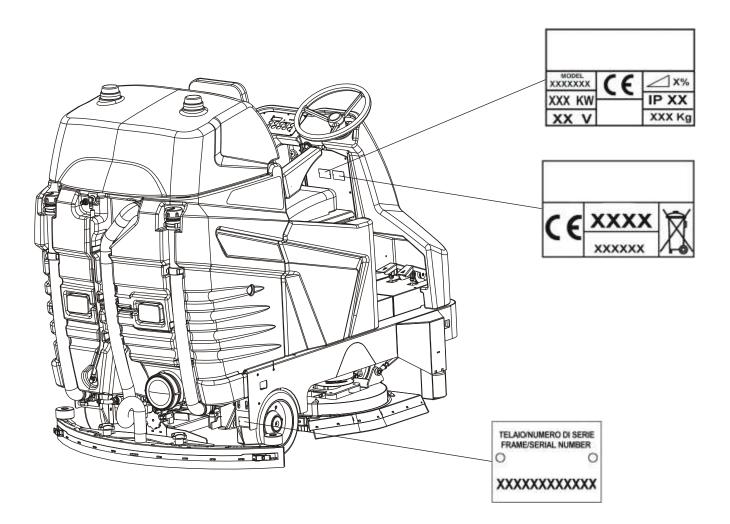
### **INTRODUCTION**

Our company, a leading industrial cleaning machine manufacturer, is delighted to welcome you to the ranks of our scrubber owners and it trusts that you will get the greatest satisfaction from the use of the machine. We are certain that while using the machine you will have the opportunity to see the quality, solidity and possibilities for use by yourselves. Our scrubber is ideal for private, industrial or public uses. Described in this manual are various installation, checking and maintenance operations necessary for keeping your scrubber in tip top condition. These are normal maintenance measures that any operator will be able to carry out with implements that he or she should normally have in the company. In the case of particularly demanding work, please call in specialised help.

OUR COMPANY AIMS AT THE CONSTANT IMPROVEMENT OF ITS PRODUCTS AND RESERVES THE RIGHT TO MAKE MODIFICATIONS AND IMPROVEMENTS WHEN IT CONSIDERS IT ADVISABLE WITHOUT BEING OBLIGED TO UPGRADE PREVIOUSLY SOLD MACHINES WITH SAID IMPROVEMENTS AND MODIFICATIONS

#### MACHINE IDENTIFICATION

The machine and manufacturer are identified through three plates on the left of the driver's seat.



## REFER TO THESE DETAILS WHEN ORDERING SPARE PARTS OR MAKING ANY OTHER ENQUIRY TO THE MANUFACTURER.

Our scrubbers conform to the EEC directives and show the CE mark.

### **ATTENTION!**

BEFORE USING THE MACHINE OR CARRYING OUT ANY OPERATION ON IT, ALL THE PROCEDURES AND WARNINGS DESCRIBED IN THIS MANUAL MUST BE READ AND UNDERSTOOD.

RIGOROUS COMPLIANCE WITH THE REGULATIONS AND INSTRUCTIONS CONTAINED IN IT, TOGETHER WITH THE OPERATOR'S ATTENTION AND PRUDENCE WILL BE THE BEST GUARANTEE AGAINST ACCIDENTS THAT COULD OCCUR AT WORK.

OUR SCRUBBERS ARE DESIGNED TO PROVIDE MAXIMUM SAFETY IF USED ACCORDING TO THE INSTRUCTIONS

OPERATORS WHO DO NOT KNOW THE REGULATIONS AND PROCEDURES CONTAINED IN THIS MANUAL MUST BE PREVENTED FROM USING THE MACHINE.

THE USER'S MANUAL IS AN INTEGRAL PART OF THE SCRUBBER AND MUST ACCOMPANY IT UNTIL THE SCRUBBER IS DEMOLISHED.

PURSUANT TO DIRECTIVE 89/392 CE, PRESIDENTIAL DECREE 459 DATED 24/07/1996 AND LATER MODIFICATIONS NOTICE IS GIVEN THAT:

OPERATOR IS INTENDED TO MEAN THE PERSON(S) ASSIGNED TO INSTALL, OPERATE, ADJUST, CARRY OUT ORDINARY SERVICING, CLEAN, REPAIR AND TRANSPORT THE MACHINE.

OUR COMPANY WILL NOT BE HELD LIABLE FOR ANY PROBLEMS, BREAKAGE, ACCIDENTS OR OTHER OCCURRENCES DUE TO THE IGNORANCE OR THE NON-APPLICATION OF THE PROCEDURES CONTAINED IN THIS MANUAL OR TO THE IMPROPER USE OF THE MACHINE.

FURTHERMORE, OUR COMPANY SHALL NOT BE HELD LIABLE FOR THE CARRYING OUT OF MODIFICATIONS AND/OR THE INSTALLATION OF PARTS OR ACCESSORIES THEY HAVE NOT BEEN AUTHORISED BEFOREHAND.

### GENERAL WARNINGS AND ADVICE DANGER SIGNS - ATTENTION



THIS SYMBOL HIGHLIGHTS ALL THE OPERATIONS THAT REPRESENT A POTENTIALLY HAZARDOUS SITUATION FOR THE OPERATOR IT IS THEREFORE NECESSARY TO ADHERE CLOSELY TO THE CONDITIONS SHOWN BY THIS SYMBOL.



GLOVES MUST BE WORN



SAFETY GLASSES OR GOGGLES MUST BE WORN



BE CAREFUL NOT TO CRUSH YOUR HANDS BETWEEN PARTS IN MOTION



ATTENTION: DO NOT GET IN TOUCH WITH WATER THE DEVICES MARKED WITH THIS LABEL ARE NOT TO GET WET. (USUALLY THEY ARE ELECTRICAL COMPONENTS)



AN ANTI-VAPOUR MASK HAS TO BE WORN WHEN USING CORROSIVE DETERGENTS.



# Â

### **CLEANING AND MAINTENANCE**

The machine must be cleaned by persons who have received proper instruction for the purpose, who know how to cut off the sources of energy and who know the characteristics of the machine so as not to find themselves in a hazardous situation.

Clean the machine coverings, the panels and commands with cloths soaked in water or a detergent solution.

Solvents such as petrol, alcohol, etc. must not be used.

Call in specialized personnel to clean the electrical components. Said personnel should use products that are not corrosive and are anyway suitable for electrical circuits.

Specialized personnel with thorough knowledge of the machine and its components must be called in to carry out maintenance operations.

Any maintenance and cleaning operation must be carried out with the machine off, with all the mechanisms still, after the hot sections have cooled down and with the battery disconnected.

When using compressed air guns for cleaning, protect the eyes and ears.

#### STORING THE MACHINE

If the machine is not used for a long period, it is essential to:

- recharge the batteries before storing the machine as empty batteries may get damaged.
- empty and wash the tanks as described in the relative section.
- remove the detergent can if fitted
- clean the filter on the detergent suction pipe in the can
- wash the detergent dosing system as indicated on page 22 of the manual
- clean the clean water filter, empty the filter protection and drain the water completely from the system
- clean the ECO-SYSTEM circuit and allow for water-flowing.
- clean the machine inside and outside
- keep brushes and squeegee raised
- lock the machine in place with the parking brake
- remove the key
- remove the battery lead connections
- keep the machine in a protected place
- keep the machine within a temperature range of  $5^{\circ}C / 40^{\circ}C$
- keep the machine within a humidity range of  $30^{\circ}C / 80^{\circ}C$

## $\wedge$

### PRECAUTIONS FOR THE SAFETY OF OPERATORS AND TECHNICIANS

- The machine must not be used by non-authorized personnel who have not been trained to use it properly or by people who are under the influence of substances that could alter their nervous reflexes (alcohol, psycho pharmaceuticals, drugs etc.)
- Do not use the machine in inflammable areas or where there is the danger of explosions
- Do not collect material that is alight or anything else that could cause a fire.
- Do not remove protections or guards when the machine is in operation.
- Do not use the machine to clean objects.
- Do not start to perform maintenance operations with parts in movement
- Protect eyes and ears when using compressed air or water guns for cleaning the machine.
- To raise the machine make use of devices that are adequate to bare the weight of the machine itself.
- Do not cause flames or sparks around the machine.
- Disconnect the battery cables before working on the electrical circuit.
- Avoid contact with battery acid
- Move carefully over uneven or crumbling paving and on slopes.
- Slow down on slopes and slippy surfaces
- Make sure the machine is not exposed to rain and weather conditions, whether in motion or still.
- Temperature of usage of the machine has to be kept within + 5 °C / + 40 °C.
- Humidity has to be kept within 30% / 80 %.

#### UPDATING OF THE USER'S MANUAL

When large-scale modifications are made to the machine or new parts are installed, the updated documentation must be sent to the Dealer along with the purchased part or as an update of the manual

#### OBLIGATIONS OF THE EMPLOYER OR OWNER OF THE MACHINE

The employer or owner of the machine is responsible for giving the User's Manual to all the personnel who are going to have to use the machine.

The employer or owner of the machine also undertakes the responsibility to update the manual with the documentation that the Manufacturer will send if modifications are made to the machine.

# $\underline{\mathbb{A}}$

### **RESPONSIBILITIES OF THE OPERATOR**

- The operator is responsible for the day-to-day servicing of the machine
- The operator must care for the machine and keep it in good operating condition
- The operator must inform his or her superior or the technical department when scheduled maintenance is requested in the case of damage or breakage.
- The operator must not carry people, animals or objects on the machine.
- When moving the machine, observe the safety measures for circulation.
- The machine cannot be used for toxic-harmful materials.
- Never let people get close to the machine's sphere of action.
- Never leave the scrubber-dryer with the key and the emergency switch inserted.
- Engage the hand brake
- If the machine malfunctions, have a look at the procedures shown in the various chapters.
- Never collect pieces of string, wire or anything else that could damage the brushes by winding around them.
- Never suck up pieces of wood, plastic waste etc. as they may clog the vacuum pipe.
- Never remove or alter the plates on the machine

### DISPOSAL



### SPENT OILS

Spent oils must not be thrown away into the environment under any circumstances.

They must be given to authorized Collectors in compliance with the regulations currently in force.

Temporary storage must be inside watertight containers with sealed lid to avoid contact with the environment and with rainwater.

The filters must also be given to authorized collectors and temporarily kept like the oils.

### DEAD LEAD BATTERIES

Dead batteries must be considered harmful toxic waste, they must be given only to Collectors with specific authorization (to be checked at the time of consignment).



### SCRAPPING OF THE MACHINE

When the machine is to be scrapped, it is necessary to dispose of the materials the machine consists of, properly. It is compulsory to give the machine to authorized collectors who will see to the proper disposal of: batteries, oils, filters, plastics, metals, electric engines, electric cards etc. in accordance with the regulations currently in force.



### DISPOSAL OF THE RECOVERY SOLUTION TANK

Prior to be moved on specific purification plants, the recovery tank solution is to be disposed of in the appropriate sites.

### TRANSPORT – HANDLING

## $\triangle$

The machine must be fixed to a pallet to make it easier to transport and more secure.

At the reception of the machine, check that the packaging is in good condition -in case of damage, report to the forwarder.

PAY PARTICULAR ATTENTION WHILE TRANSPORTING THE MACHINE AT TEMPERATURES BELOW 0°C TO PREVENT THE WATER INSIDE THE TANKS AND THE PIPES FROM BECOMING FROZEN.

DRAIN THE TANKS, REMOVE THE SCREEN OF THE CLEAN SOLUTION FILTER AND LET THE WATER FLOW AWAY COMPLETELY OUT OF THE PIPES.

### TRANSPORT- HANDLING

**TRANSPORT** 

When the machine is moved from one place to another you are advised to:

- not load it on the vehicle with a forklift truck in order not to damage it

- lock the machine in place with the parking brake
- fix it well to the vehicle using belts, ropes and chains.

#### TRANSPORTING THE MACHINE BY MANUAL PUSHING

In case of transport by means of manual pushing –for machines featuring electronic traction only - the machine must be pushed on at walking pace. Do not tow it with fork lifts.

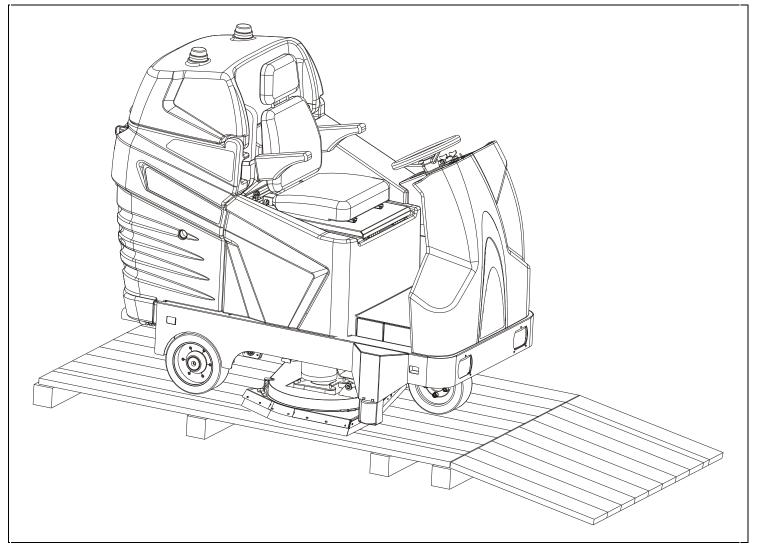


### UNPACKING

Make sure that all the parts indicated in the following list are present before unpacking the machine:

- Squeegee;
- battery cable fitted with connector, terminals and terminal covers;
- on board battery charger;

NOTICE: brushes, discs and disc pad holders must be purchased separately.



Follow the instructions below to unpack the machine:

- connect the inclined ramp to the front part of the pallet, as shown in the figure;

- remove the fasteners fixing the front wheels and eventual other devices;
- make use of the inclined ramp.

### CAUTION: DO NOT USE A FORKLIFT TO REMOVE THE MACHINE FROM THE PALLET AS IT MAY CAUSE DAMAGE TO THE MACHINE.

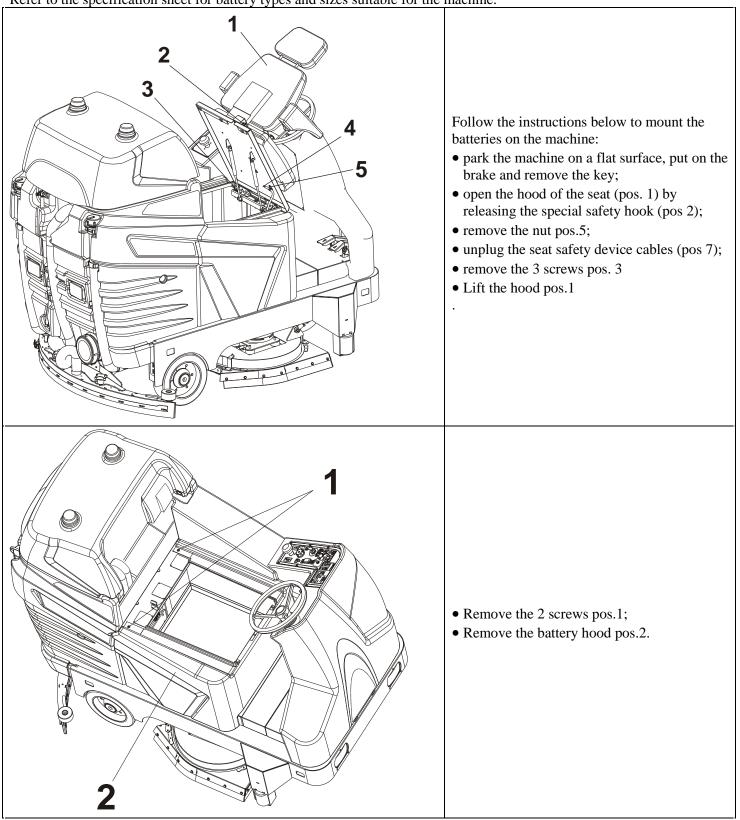
### **INSTALLING BATTERIES**

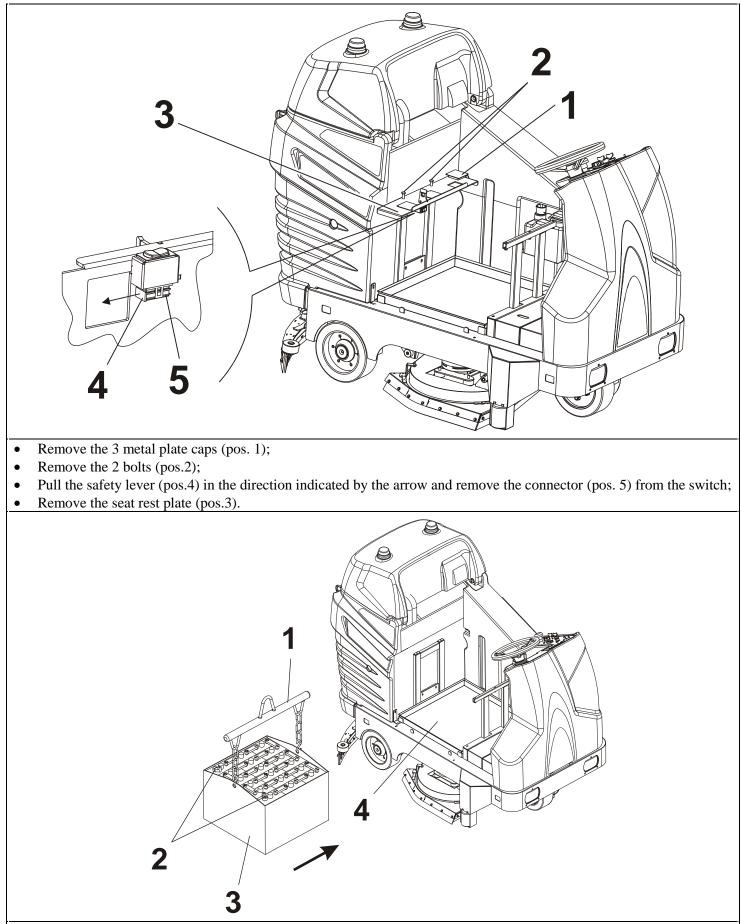
CAUTION: USE PROTECTIVE GLOVES AND GOGGLES WHEN HANDLING BATTERIES, AVOIDING ANY CONTACT WITH THE ACID INSIDE THE BATTERIES. CAUTION: THE MACHINE'S CONTROL BOARD AND BATTERY CHARGER COME OFF THE

ASSEMBLY LINE CONFIGURED FOR USE WITH LEAD ACID BATTERIES.

IF GEL BATTERIES OR AGM BATTERIES ARE USED, THE MACHINE'S CONTROL BOARD AND THE BATTERY CHARGER MUST BE SET. CONTACT A RESELLER OR A TECHNICIAN BEFORE MOUNTING THESE TYPES OF BATTERIES.

Refer to the specification sheet for battery types and sizes suitable for the machine.

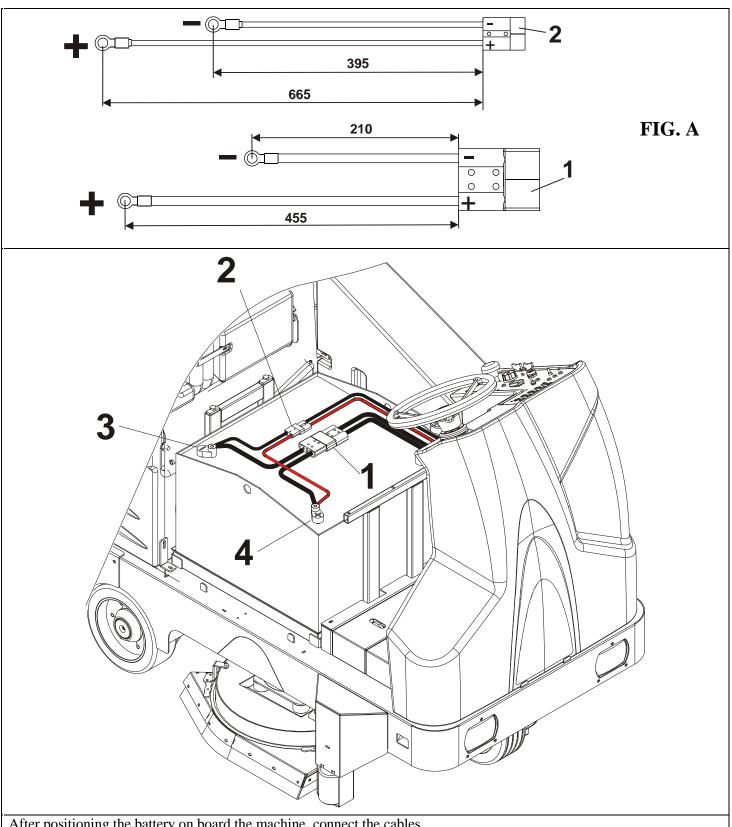




• To install the battery (position 3), lift it with an overhead travelling crane, a carriage or a crane and use a lifting beam (position 1), chains or belts to fasten it.

• Position the battery inside the compartment provided (pos. 4) on the machine by fitting it in the direction indicated by the arrow and not lowering it from above. Position the poles (pos. 2) towards the right of the machine as shown in the illustration.

#### **BATTERY CONNECTION**

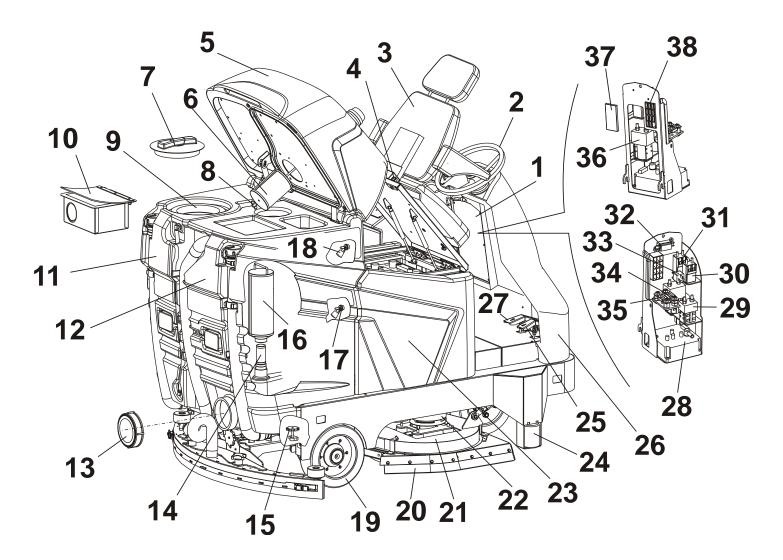


After positioning the battery on board the machine, connect the cables.

- The machine features 3 connectors shown in figure A:
  - 1) Battery connector for supplying power to the machine;
  - 2) Battery-charger connector;

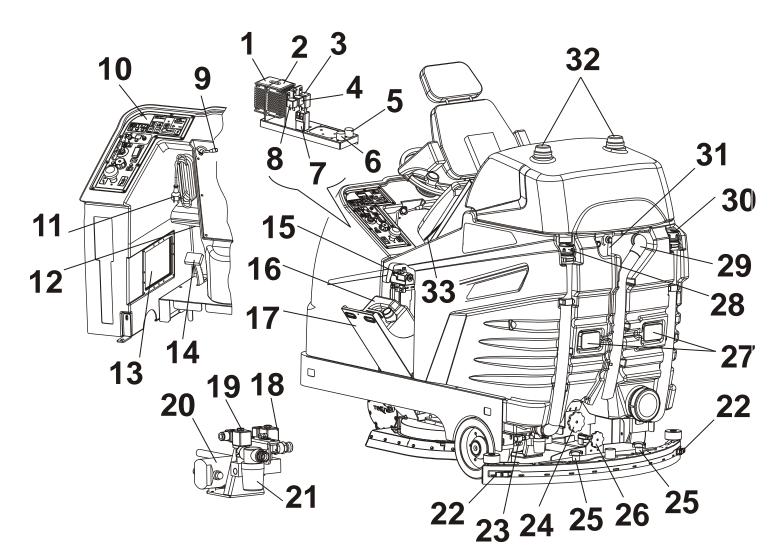
Connect the cables of connectors 1 and 2 to the negative pole 3 and positive pole 4 in accordance with the polarities. Connect connectors 1 - 2 to the respective connectors on the machine.

Fit all the machine components back on and connect them up again.



1.	Fuses inspection door	20. Splashguard
2.	Handwheel	21. Brush tray
3.	Seat	22. Brush motor
4.	Hood and seat opening device	23. Battery seat
5.	Lid and vacuum motor seat	24. Bumper roller
6.	Vacuum filter	25. Forward movement pedal
7.	250 diameter lid of the solution tank	26. Machine front nose
8.	Blocking filter device	27. Backward movement pedal
9.	Filling-in solution	28. Drive control card
10.	Gathering material gasket	29. Brush remote switch
11.	Solution tank	30. Suction unit remote switch
12.	Recovery tank	31. Brush release remote switch
13.	Recovery tank inspection hatch cap	32. Brush release protection fuse
14.	ECO-SYSTEM safety filter	33. Relay ap
15.	Squeegee maximum pressure adjustment	34. 100 A brush input peak protection fuse
16.	ECO-SYSTEM filter	35. 125A drive system protection fuse
17.	ECO-SYSTEM floating device	36. Forward movement remote switch
18.	Max. level floating device of the recovery tank	37. Fuse holder cover
19.	Rear wheel	38. Fuse holder

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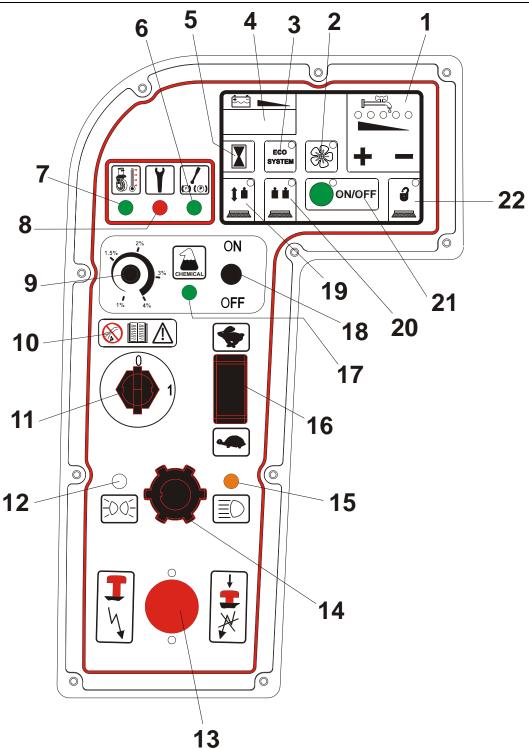
1.	Transformer no. 2 36V-24V (LIGHTS)	17. Detergent can compartment
2.	Transformer no.1 36V-24V (SERVICES)	18. ECO-SYSTEM solenoid valve
3.	Flashing light intermittence	19. CLEAN WATER solenoid valve
4.	Reverse light relay	20. Solution pump
5.	Handbrake engaged buzzer	21. Clean water filter
6.	Motor temperature alarm buzzer	22. Rear blade locking plate hook
7.	Service remote switch	23. Clean water tank tap
8.	Drive motor temperature alarm relay	24. Squeegee adjusting pressure handwheel
9.	Parking brake locking and unlocking device	25. Squeegee locking knobs
10.	Control panel	26. Squeegee adjusting inclination handwheel
11.	Battery charger cable	27. Rear lights
12.	Cooling fan (battery recharge phase)	28. Solution drain pipe
13.	Battery charger	29. Squeegee vacuum pipe
14.	Pedal brake	30. Recovery tank drain pipe
15.	Solution pump	31. Solution tank level

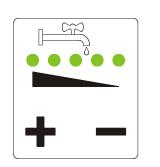
Solution pump
 Detergent can

- 32. Flashing lights33. Seat adjusting lever

### **PRIMARY FUNCTIONS AND CONTROLS**

#### **CONTROL PANEL**





#### WATER ADJUSTMENT BUTTONS

Use the buttons + or - to set the maximum quantity of water to use for the operation. Press the + button to increase the quantity of water; the 5 green led lights on the panel come on progressively one at a time.

Each led light is associated with a maximum pre-set quantity of water.

Press the - button to decrease the quantity of water; the 5 led lights will go out progressively one at a time. **The water is shut off when all the led lights are off.** The machine keeps memory of the preset quantity of water even when switched off. If the 5 led lights start flashing at the same time, this means that there is no solution into the tank.

#### SUCTION FAN BUTTON

If the suction fan is switched off, this button can be used to turn it on, the squeegee lowers and a green light indicator will come on.

If the suction fan is switched on, the light will start flashing, when this button is pressed, but the suction function will remain active for a fixed period of time and once lapsed the squeegee will lift and the suction function will come off.

The warning light will start flashing even when the machine is in reverse drive to indicate that the squeegee is being raised from the floor.

The suction function may turn off automatically when the solution on the recovery tank is too full. The machine is equipped with a float that switches off the function when the tank reaches its maximum level. In case of prolonged idle time, the suction fan will switch off automatically after 1 minute regardless of whether the squeegee does not lift automatically from the floor for safety reasons, but must be lifted by pressing the button

#### ECO-SYSTEM OPERATION BUTTON

Press this button to enable the ECO-SYSTEM.

The green light is on when the system is operating.

If the button is pressed and the led light does not come on, it means that the solution level on the recovery tank is too low and therefore, the function cannot be enabled. Continue to wash in "normal" mode until reaching the minimum level. However, it is advisable to have enough solution in the recovery tank for better performance in the ECO-SYSTEM mode.

If the level on the recovery tank goes below the minimum level required for the ECO-SYSTEM function, all five led lights on the water metering unit will start flashing and the brushes will stop operating.

#### CHARGE BATTERY LEVEL INDICATOR AND DISPLAY

The charge level of the battery is displayed when the machine is switched on (100 - 90 - etc). When the battery charge level reaches 20, the number on the display starts blinking and the brush operation is disabled raising the plate, since a protection device is triggered to prevent the battery from getting damaged, however the suction and forward functions remain active.

At this point, the brush plate shall be raised and the floor shall be dried quickly. Upon reaching level 10, the number on the display shall start blinking and the suction function will also be disabled, the forward function will be the only active function. Lift the squeegee, go to the tank drainage area and charge the batteries. When 4 blinking dashes (----) appear on the display, the forward function will also be disabled as the battery reaches a minimum discharging threshold. Therefore, the

machine must be pushed over to the tank drainage area and then pushed over to the battery charging area.

#### HOUR METER BUTTON

Hold down this button to display the operating hours of the machine.

#### HANDBRAKE ENGAGED RED INDICATOR LIGHT

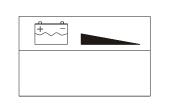
When the LED is on and the buzzer buzzes, this means the handbrake is engaged. Disengage the brake by means of the lever before starting to move the machine.



#### RED WARNING LIGHT: FORWARD GEAR MOTOR TEMPERATURE

If the temperature on the gear motor casing exceeds 75-85°C, the red warning light will come on and the gear motor will stop operating, emitting a buzzing warning.

14

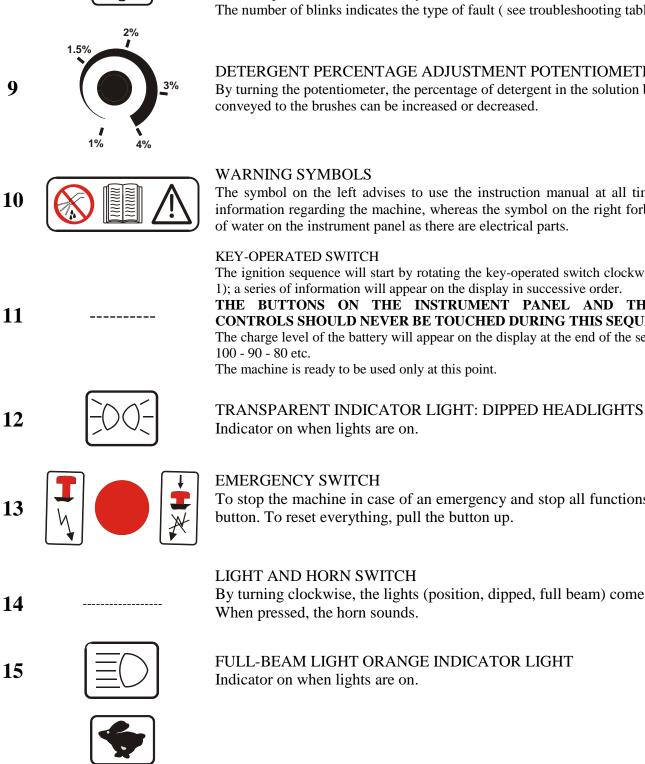


ECO

SYSTEM



7



#### GREEN WARNING LIGHT: DRIVE ALARM

It shows any anomalies present on the motor's drive board. The green light will come on under normal operation. The light will start flashing if there is a problem with the drive system.

The number of blinks indicates the type of fault (see troubleshooting table)

#### DETERGENT PERCENTAGE ADJUSTMENT POTENTIOMETER

By turning the potentiometer, the percentage of detergent in the solution being conveyed to the brushes can be increased or decreased.

#### WARNING SYMBOLS

The symbol on the left advises to use the instruction manual at all times for any information regarding the machine, whereas the symbol on the right forbids the use of water on the instrument panel as there are electrical parts.

#### **KEY-OPERATED SWITCH**

The ignition sequence will start by rotating the key-operated switch clockwise (position 1); a series of information will appear on the display in successive order.

THE BUTTONS ON THE INSTRUMENT PANEL AND THE DRIVE CONTROLS SHOULD NEVER BE TOUCHED DURING THIS SEQUENCE. The charge level of the battery will appear on the display at the end of the sequence, e.g. 100 - 90 - 80 etc.

The machine is ready to be used only at this point.

#### EMERGENCY SWITCH

To stop the machine in case of an emergency and stop all functions, press the button. To reset everything, pull the button up.

#### LIGHT AND HORN SWITCH

By turning clockwise, the lights (position, dipped, full beam) come on. When pressed, the horn sounds.

FULL-BEAM LIGHT ORANGE INDICATOR LIGHT Indicator on when lights are on.



#### SPEED SELECTOR

By pressing the button towards the "hare" symbol, the machine moves forward and in reverse at normal speed.

By pressing the button towards the "tortoise" symbol, the machine moves forward and in reverse at half speed. This speed can be used in very dirty environments and allows using a lot of solution at low speed.

8





### 18

OFF

#### DETERGENT DOSING SYSTEM GREEN INDICATOR LIGHT When the indicator light is on, this indicates the detergent dosing system is on.

#### LEVER SWITCH

By pushing the lever towards the ON or OFF position, the detergent dosing system is turned on or off.

#### **BRUSH BUTTON**

Press this button to enable the brush function; a green led light will come on and the brush plate will descend. The brushes will start rotating when the forward pedal is pressed.

When the forwards pedal is released, the brushes will rotate for other 3 seconds before stopping. In case of prolonged halt, after 1 min the brush plate will automatically rise.

When the machine is in motion with lowered brushes, by pressing the brush button the brushes will stop rotating and the brush plate will automatically rise.

With the extra-pressure function on, by pressing the brush button the brushes will stop rotating and the brush plate will automatically rise.

The electrovalve and the solution pump are also connected to the brush function and allow the user to automatically open or shut the flow of the solution while the brush is rotating.

This function can not be activated if there is not solution in the tank. In this case by pressing the button, the five led lights on the solution metering unit will start flashing and the brush function will not be enabled. When this occurs, make sure to fill the tank.

This function will be automatically deactivated in case there is no solution in the tank. When this occurs, the five led lights on the solution metering pump will start flashing and the brushes function will be deactivated.

#### EXTRA-PRESSURE BUTTON

Press this button to increase pressure on the brush plate; a green led light will come on. This function can be activated only if the brush function is already active. Switch it off to disable extra-pressure and work in normal conditions.

By pressing the brush button when working on extra-pressure mode, you will cause the brushes to stop rotating and the brush plate to automatically rise.

#### **GREEN ON/OFF BUTTON**

This button enables the operator to use all the functions of the machine. Press the button once to lower the brush plate and the squeegee, the led lights on this button and on the brush and suction fan buttons will come on. Push the drive pedal to start rotating the brushes and the solution metering pump.

The vacuum motor will also turn on. The quantity of water used will equal to the quantity stored after the last use.

Press this button again to stop the operation of the brushes and the brush plate will lift from the floor.

The squeegee will also lift from the floor with a preset delay to allow the operator to dry the entire floor.

If this button is pressed when the tank is empty, the five led lights on the solution metering unit will start flashing and the brush function will not be enabled, but only the squeegee. When this occurs, make sure to fill the tank.

#### **BRUSH RELEASE BUTTON**

This button will enable the brush release sequence.

The led light will start blinking during this sequence.

This operation shall be carried out with the still machine, with deactivated brushes and raised brush plate.

19

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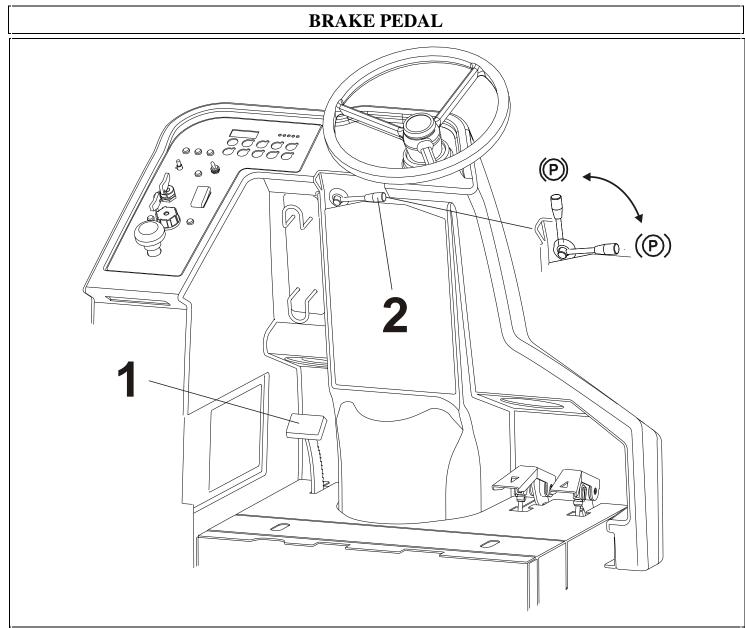








22



#### SERVICE BRAKE

The machine is fitted with a service brake that operates on both the rear wheels. By pushing the pedal pos. 1, the brake gets inserted.

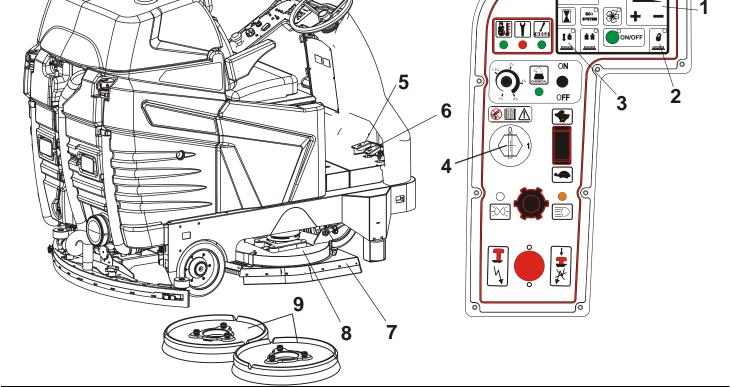
#### PARKING BRAKE

The machine is fitted with a parking and emergency brake that operates on both the rear wheels.

To lock the machine push the brake pedal (pos.1) down, turn the lever pos.2 anticlockwise to its maximum stroke and then release it

Push the pedal (position 1) and turn the lever (position 2) clockwise to release the brake.

# ENGAGING AND RELEASING THE BRUSHES OR THE ABRASIVE DISCS



Follow the instructions below to engage the brushes or disc pad holder with abrasive disc:

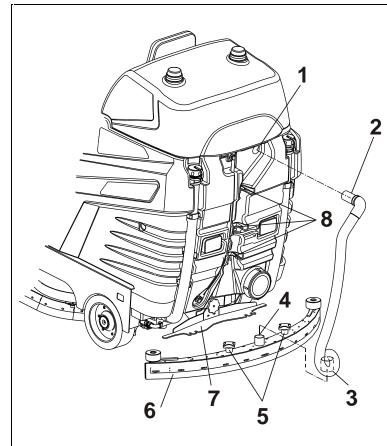
- Make sure there is water in the solution tank;
- Turn off the machine and press the key (pos.4) into position 0.
- Position the brushes or the discs (pos. 9) under the brush plate (pos. 8) lifting the splashguard (pos. 7).
- Turn the key (pos.4) into pos. 1 and wait till the ignition sequence is over and the battery charge level is visible on the display
- Lower the brush plate (pos. 8) by pressing the brush button on the control panel (pos.3)
- Slowly push forward the drive control (pos.6). The brush motors will start rotating and the machine will start to move slowly. Go forward for a brief distance and then go in reverse drive using the switch (position 5) and step back slowly until engaging the brushes. Repeat the operation if necessary. To prevent leaked waste during the operation, it is advisable to set the detergent solution flow to 0 (all led lights in position 1 are off).

Follow the instructions below to release the brushes or disc pad holder with abrasive disc:

- Stop the machine on a flat piece of floor;
- Lift the brush plate and press the brush button to deactivate the brush function pos.3.
- Press the brush release button on the keyboard pos. 5. The releasing sequence will be activated and the brush will be released from the plate.



#### Follow the instructions below to mount the squeegee to the machine:

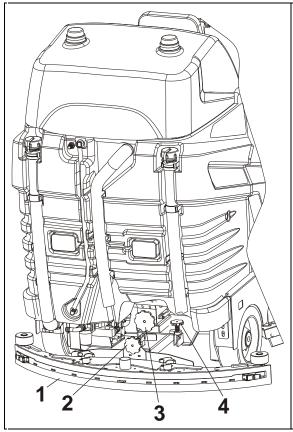


- disable the suction function to keep the squeegee support in up position and facilitate assembling procedures;
- park the machine on a flat surface, insert the brake, switch it off and remove the key;



- Fit in the squeegee (pos.6) into the squeegee support (pos.7) centring the knobs (position 5) into the corresponding slits on the support (position 7).
- Once the squeegee is fitted completely, secure the knobs (position 5).
- Connect the squeegee hose from the curved side (pos. 2) into the special hole located in the tank (pos. 1) and press down until it fits into place completely
- Mount the other end of the hose, from the roll-up side (position 3) into the squeegee in the cuff pos. 4
- Connect the hose in the special locking springs pos. 8

### ADJUSTING THE SQUEEGEE



There are 3 types of adjustments that can be carried out on the squeegee:

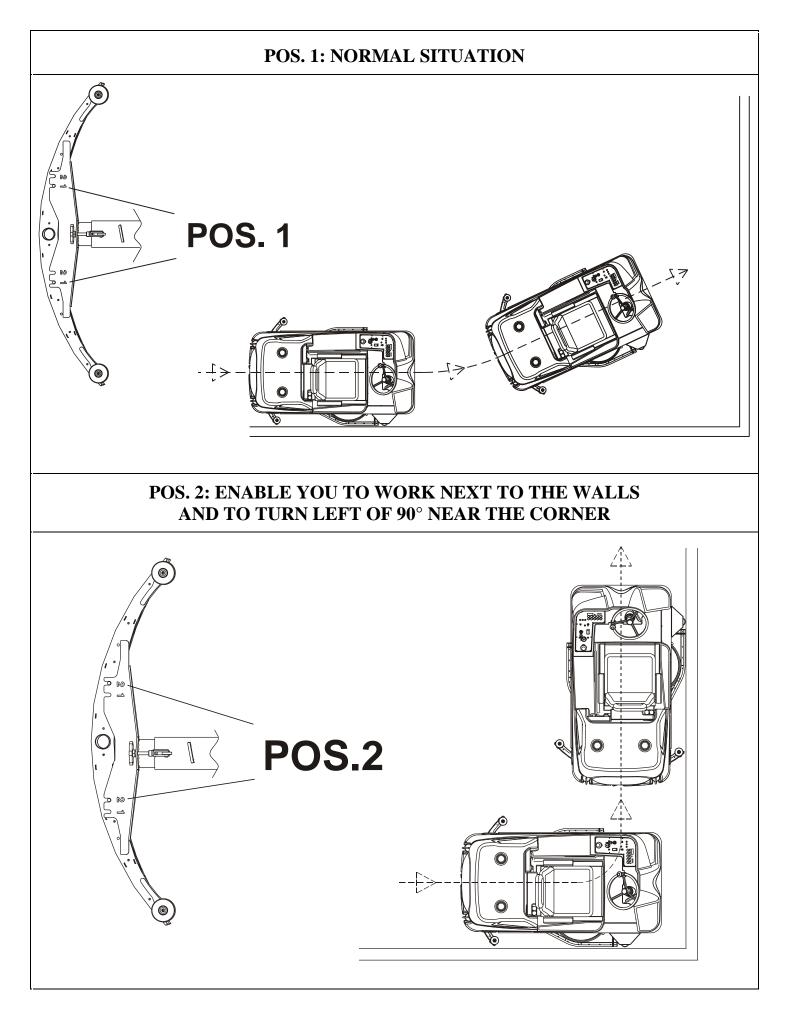
• **Inclination adjustment,** with knob position 2.

It adjusts the inclination of the squeegee in order to have a constant pressure over the entire length of the blade (position 1).

Turn the knob counter-clockwise if there is too much pressure on the outer points and little pressure on the central area.

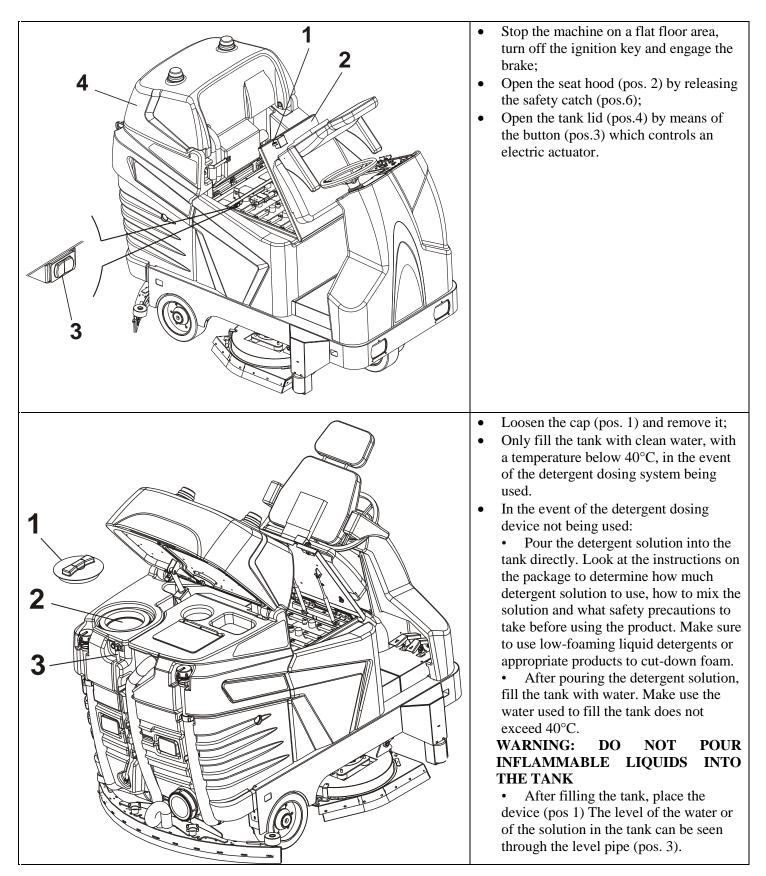
Turn the knob clockwise if there is little pressure on the outer points and too much pressure on the central area. To make the adjustment lower the squeegee, turn on the suction fan and drive forward slowly. Examine the pressure distribution on the blade and if necessary correct the inclination as described above.

- Pressure adjustment, using the knob in position 3.
   This allows for optimal pressure on the blade (position 1) which can be adjusted for each type of floor and for each type of blade.
   For rough floors or uneven floors, increase the pressure by turning the knob (position 3) clockwise.
   For smooth floors, lower the pressure by turning the knob counter-clockwise
- **Max. pressure limit** by means of the knob in position 4. Allows setting max. pressure to be applied to the squeegee blades. To be adjusted when thinner blades are fitted or when the second suction unit is fitted.

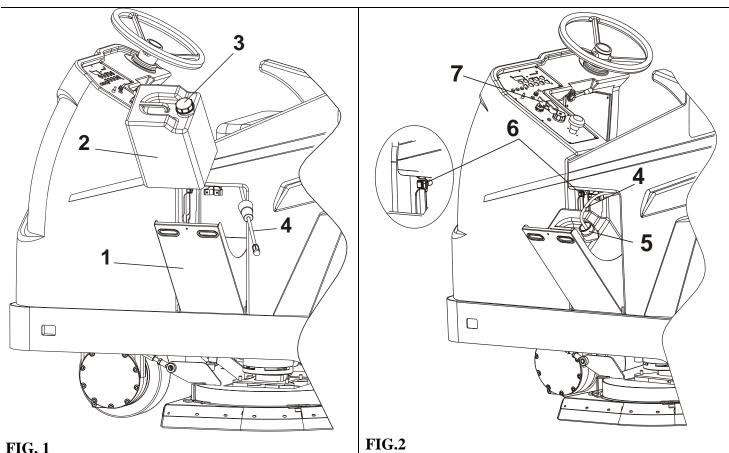




The solution tank can only be filled with clean water when the detergent dosing system is used, or with a mix of water and detergent suited to the type of floor and to the conditions of dirt to be washed and a product suitable for reducing foam.



#### **DETERGENT DOSING DEVICE**



#### **FIG. 1**

To use the detergent dosing device, the detergent can must be fitted in the compartment provided on board the machine. To do this, proceed as follows:

Open the compartment (pos. 1);

Take out the pipe (pos. 4) so it does not hinder can fitting:

Fit the can (pos. 2) as indicated in FIG.1. While performing this operation, do not remove the cap (pos. 3) of the can to prevent detergent coming out. Use low-foam liquid detergents or use a foam reducing product. Do not use inflammable liquids.

For the percentages of detergent to be used and for safety precautions to be taken, see the instructions on the pack.

- Once the can has been fitted, remove the cap (pos. 3) and insert the pipe (pos. 4), making sure the filter reaches the bottom so as to suction up all the detergent in the can.
- Block the pipe (pos.4) by means of the cone (pos.5) inserting it in the can with a slight pressure (FIG.2).

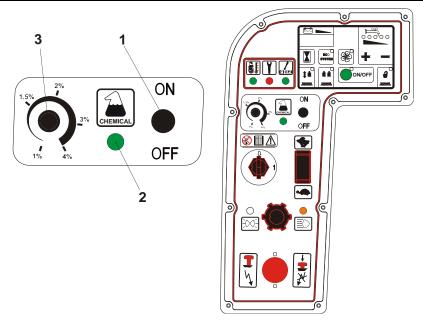
### DETERGENT DOSING SYSTEM WASHING

Once the washing operation has terminated, to keep the system in good working order and prevent scale, the system is best washed as follows:

- Remove the detergent can and insert another one filled only with water.
- Make sure there is some water in the clean water tank. •
- Fit the detergent suction pipe (pos.4) and block it in position by means of the cone (pos.5). •
- With the machine stopped, turn the ignition key (pos.7) to POS.1 and press the red key (pos.6). The metering pump will start to operate and suck up the water from the can and begin washing the entire dosing system.

At the same time, the water pump will also begin operating, washing the pipes, the solenoid valve and the pump.

### DETERGENT DOSING SYSTEM CONTROLS



The detergent dosing device is switched on by moving the lever switch (pos. 1) to ON.

At the same time as the pump, the green indicator light (pos. 2) also comes on to indicate the system is ON.

The detergent pump operates when the water pump is on.

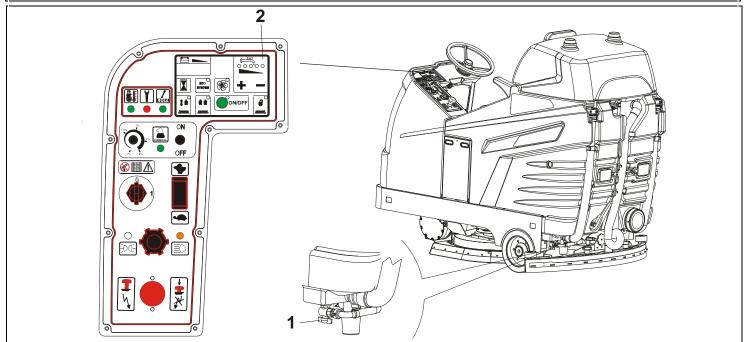
The percentage of detergent can be metered by means of the potentiometer (pos. 3).

For the percentages to be used, follow the instructions on the pack.

Our scrubber-dryer features an electronic solution dosing device proportionate to the speed of the machine, so the exact quantity of solution can always be obtained on the brushes, thus avoiding waste.

This operating principle is also applied to the detergent dosing system.

#### ADJUSTING THE QUANTITY OF SOLUTION ON THE BRUSHES

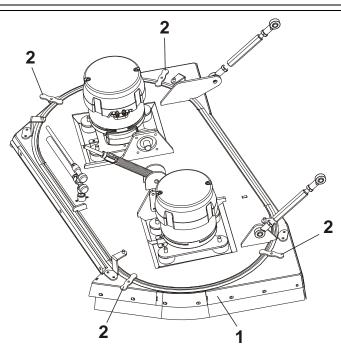


The max. quantity of the solution on the brushes can be adjusted by using the + and - keys (pos. 2) located on the board panel. Our scrubber-dryer features a solution electronic dosing system which - for being proportional to the machine speed- constantly allows for the correct flow of solution on the brush - thus minimizing any waste. In fact, by decreasing the machine speed, the solution flow decreases accordingly. On the contrary, by increasing the machine speed, the flow will increase till reaching the preset maximum level at maximum speed.

The above-mentioned dosing device can be activated also with the machine in ECO-SYSTEM mode.

Make sure that the valve (pos. 1) located beneath the machine is open before operating the machine.

#### LIFTING THE SPLASHGUARD FOR THE PRE-WASHING



A pre-washing operation is highly advisable when using the machine for particularly dirty surfaces, as to allow the chemical product present in the detergent solution to remove the dirt more efficiently.

Once pre-washing is over, clean the surface by activating the brush function. Do not use the squeegee to gather the solution. During this operation it is advisable to lift the machine splashguard as to allow the detergent solution to spread smoothly over the surface.

After a few minutes, wash the surface one more time after lowering the splashguard and activating the vacuum function as to dry the floor.

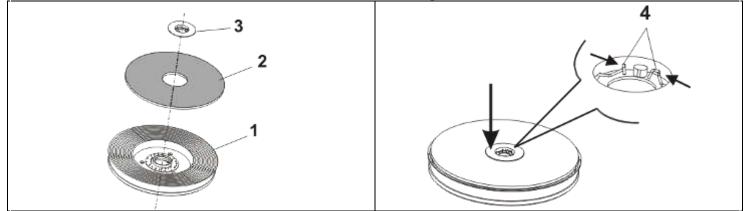
To lift the splashguard, please refer to the following instructions:

- Lift the splashguard (pos. 1) manually by pulling it upwards;
- Make the 4 blocking lever pos. 2 rotate. This way, the splashguard will remain raised from the ground.
- Once pre-washing is over, unfasten the screws pos. 2 thus letting the splashguard pos. 1 lower.



#### MOUNTING THE ABRASIVE DISC ONTO THE DISC PAD HOLDER

The machine can operate with brushes or abrasive discs of various types mounted on special disc pad holders. Follow the instructions below to mount the abrasive disc onto the disc pad holder:



- Remove the disc lock (position 3) from the disc pad holder (position 1) by pressing the 2 ends of the spring catch (position 4) against each other.
- Position the abrasive disc (position 2) and centre it onto the disc pad holder (position 1).
- Place the disc lock (position 3) on the centre and press down hard until the spring fits into place (position 4); this operation can be carried out using the palm of your hand, or your foot if the disc pad holder is resting on the ground.

### **USING THE MACHINE**

Our scrubber-dryers must be operated by properly trained authorised staff.

Scrubber-dryers that do not operate properly must be taken out of service immediately.

### **CHECK BEFORE USE**

Make sure to check the following before using the machine:

- Make sure the battery connector is plugged-in;
- Make sure the key is fitted correctly;
- Check the battery charge level.

The charge level of the battery will appear in the instrument panel when the machine is on. Charge the batteries if the battery charging level is low

- Make sure the brushes or discs are in good condition and mounted correctly.
- Make sure the splash guards that are mounted into the brush plate are in good condition
- Make sure the rubber wheels on the squeegee are in good condition and set properly

#### **OPERATION**

- Release the parking brake using the lever;
- Turn the key to position 1
- Push the ON/OFF button. A green led will turn on and all the functions will be activated. At this point, both the brush tray and the squeegee will lower. The brush motors and the vacuum motor will switch by pressing the advance pedal. The quantity of detergent solution will be the one which has been kept in memory since the last time the machine has been used. In case you wish to adjust it, work on the + and buttons -on the control panel.
- The brush function can be enabled individually using this button on the instrument panel. The brush plate will lower onto the floor by means of the actuator; however, the brushes will not start rotating until the drive command is activated.

Press the button again to disable the function and the pilot light will start flashing giving enough time to lift the brush plate and switch off the motors before turning off itself.

If during the washing operation the led light of the brush bottom starts flashing, this means that there is an over-absorption of the motors. After 1 minute with the flashing led light, the writing E1 appears on the control board. The brushes will stop lifting the plate.

When using the machine on particularly dirty surfaces, it is possible to have a further "extrapressure" on the brush plate. This function can be activated by pressing the special button, and only if the brush function is already active. Switch it off to disable extra-pressure and resume normal working conditions. By pressing the brush button when working on extra-pressure mode, you will cause the brushes to stop rotating and the brush plate to automatically rise. If during the washing operation the led light of the extra-pressure bottom starts flashing, this means that there is an over-absorption of the motors. After 1 minute with the flashing led light, the extra-pressure function will be deactivated automatically and you will continue working with the normal pressure.

• It is possible to turn on the suction fan using the special button in the instrumental panel. The squeegee will lower by means of the actuator; however, the suction fan will only come on when the drive pedal is pressed. Press the button again to disable the function and the pilot light will start flashing; the squeegee will remain on the floor for a preset period of time and it will then lift and switch off the suction fan as well as the pilot light on the instrument panel. The pilot light will also start to flash if the machine goes in reverse drive to indicate that the squeegee is being raised from the floor. The machine is also fitted with a float that shuts off the vacuum motor when the water level in the recovery tank is too high. If this occurs, the pilot light on the suction fan. The pilot light will start to flash and switch off the suction fan. The pilot light will continue to flash until the tank is emptied, or until the machine switches off. Drain the tank into the special drainage areas.











- Set the desired maximum solution quantity using + and keys. The led lights may start flashing if there is a leakage of the solution while operating or while attempting to enable the brush function without solution in the tank. When this occurs, make sure to fill the tank.
- Move the detergent dosing system switch to ON. The green indicator light will come on to indicate the system is operating. The metering pump will operate in conjunction with the water pump with the same switch-on and off procedures. The percentage of detergent will also remain unchanged when the water flow is increased or decreased by means of the keys + and -. The detergent flow is also proportionate to the machine speed, just like the water flow.
- Set the percentage of detergent according to the instructions on the pack.
- When starting the washing operation, make sure to lubricate the cutting edge of the splashguard blades. As soon as the brush plate lowers with the detergent solution opened, slowly move the machine forwards and backwards for a few meters in order get the splashguard rubber wet. This operation will protect the cutting edge of the splashguard blades and increase its life.
- To avoid damaging the floors, when you start working, be very careful not to halt the machine over the same floor area while the brushes continue to operate
- The brushes will stop automatically after 3 seconds when the forward pedal is released. Stopping the pump and closing the electrovalve, the flow of the solution will be shut off. When resuming the drive operation, the brushes will start and the solution will automatically start to flow.
- In case of prolonged idle time, the brush plate will lift after 1 minute and switch off the function. The suction fan will also switch off but the function will remain active (pilot light on) and the squeegee will not lift automatically for safety reasons. The suction fan will resume operation when the drive pedal is pressed again. IMPORTANT: make sure to press this button to lift the squeegee.
- If the squeegee leaves wet lines on the floor during the washing operation, it means that there are pieces trapped beneath the rear rubber wheels of the squeegee. Lift the squeegee and remove the trapped pieces. Use a cloth to wipe off the rear rubber wheels if the pieces cannot be removed manually. In any case, it is always advisable to sweep the floors before washing.
- Once the solution is used up, the machine can continue its washing operation using the ECO SYSTEM function that can be enabled by pressing the button located in the instrument panel, this will enable the machine to re-use the water from the recovery tank as it is duly filtered by the special tank filter.

The ECO-SYSTEM function can also be enabled before consuming the entire detergent solution; in this case, the operation will only be allowed if there is enough solution in the recovery tank.

The function will not be enabled if the level is too low (the pilot light will not come on when pressing the button).

If this occurs, continue to wash the floor using the detergent solution until the function can be enabled.

However, if the ECO SYSTEM is started when there is still some solution left in the clean water tank, the operation can be deactivated at any time and it is possible to resume washing using the solution from this tank.

When using the ECO SYSTEM mode, the water is also distributed according to the speed of the machine, therefore the maximum quantity of water will flow when the machine reaches its maximum speed.

The detergent dosing system will also remain on in ECO-SYSTEM mode. Decide whether to switch it off or reduce the percentage inasmuch as the solution in the recovery tank already contains detergent.

- It is advisable to run a pre-wash operation before washing very filthy floor surfaces, as described on page 24.
- When completing the washing operation turn off the wash functions using the green ON/OFF button, which will switch off the brush function as well as the vacuum function after a preset delay and lift the squeegee. The 2 functions can be switched off individually using the relevant buttons for each function. In this case, the pilot light on the green ON/OFF button will remain active and must be switched off by pressing the button.



ON/OFF





### PERIODIC SERVICE

#### INTRODUCTION

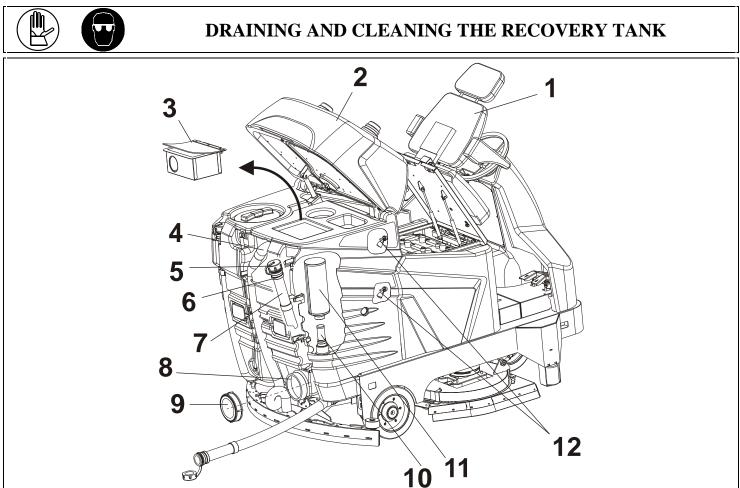
REGULAR AND PERIODIC SERVICING OF YOUR SCRUBBER GUARANTEES OUTSTANDING PERFORMANCE OF THE MACHINE AND ITS LONG LIFE. THE PAGES THAT FOLLOW CONTAIN THE INFORMATION THAT WILL HELP TO PLAN THE CARE AND THE SERVICING THAT THE SCRUBBER NEEDS.

#### WARNING!

DO NOT CARRY OUT ANY MAINTENANCE OPERATION NEITHER ON THE MACHINE NOR ON ITS COMPONENTS WITHOUT HAVING FIRST STOPPED THE MACHINE, ENGAGED THE PARKING BRAKE, BLOCKED OFF THE WHEELS AND DISCONNECTED THE STARTING BATTERY CONNECTORS.

#### WARNING!

DO NOT TAMPER WITH ANY SAFETY-RELATED PART. THESE CAN BE REMOVED ONLY AS PART OF THE MAINTENANCE OF AN AUTHORISED SERVICE CENTRE.



The recovery tank must be drained and cleaned after each washing operation. In order to drain and wash the tank proceed as follows:

- Turn off the washing function using the ON/OFF button and go to the tank drainage area ;
- Turn off the machine, remove the key and put on the brake.

- Open the hood of the seat pos. 1 by releasing the special safety hook;
- Open the tank lid pos. 2 by lifting it manually till the safety bar pos. 8 gets inserted;
- Remove the safety filter for bigger debris (pos. 3 by holding it from its upper part and pulling it out of the tank. Empty the filter in an appropriate dirt container. Wash the filter with water and remove the pieces which have got stuck through the meshes of the net, if there are any.

Remove the drain pipe from the dirty water tank (pos6) and while keeping the pipe vertically (pos 5) open the lid by rotating it counterclockwise as indicated by the arrow. Part of the pipe is flexible (pos 7) and therefore it can be squeezed to limit the water flow. Once opened, lay the pipe on the ground.

- After draining the tank, make sure to clean it thoroughly using water. If necessary, for cleaning use the hatch (pos.8) removing the cap (pos. 9).
- Wash the ECO-SYSTEM filter (pos.11) using water throughout the filter, paying attention not to damage it.

After each working day, carefully remove the filter and wash it inside in order to remove possible encrustations.

Before doing it, wash the area surrounding the filter. Unscrew the filter anti-clockwise.

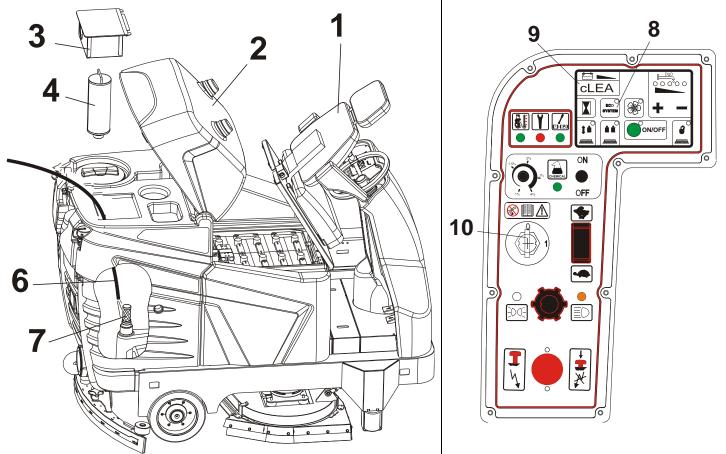
**Do not remove the safety filter pos.10** placed on the connection in which the filter is screwed in. To clean it, wash it with water.

- Wash the level sensors pos.12. Do not direct the water flow directly onto the sensors as not to damage them. If necessary, clean them by using a tissue in order to remove the material which might have got stuck in them (metallic debris) and could thus prevent the floating device from closing properly.
- After completing the cleaning procedures, remount the ECO-SYSTEM filter (pos.11), put the cap back on the dirty water drain pipe and rotate it clockwise, then place the pipe back into its housing in the tank.
- The suction pipe on the squeegee (pos. 4) shall be washed periodically, in order to prevent encrustation formation inside the pipe.



### **CLEANING INSTRUCTIONS ECO-SYSTEM**

At the end of each working day take the machine to the tank draining area.



Open the seat hood (pos. 1), by releasing the safety catch;

Open the tank cover (pos.2) by means of the key provided;

Remove the basket (pos.3);

Empty and wash the recovery tank;

Remove and wash carefully the ECO-SYSTEM filter pos.4;

At this point start the ECO-SYSTEM clearing cycle as follows:

With the machine turned off hold the ECO-SYSTEM button pos.8 turn the key (pos.10) in pos.1. Hold the button till the word cLEA appears on the display pos.9.

At this point move to the rear of the machine.

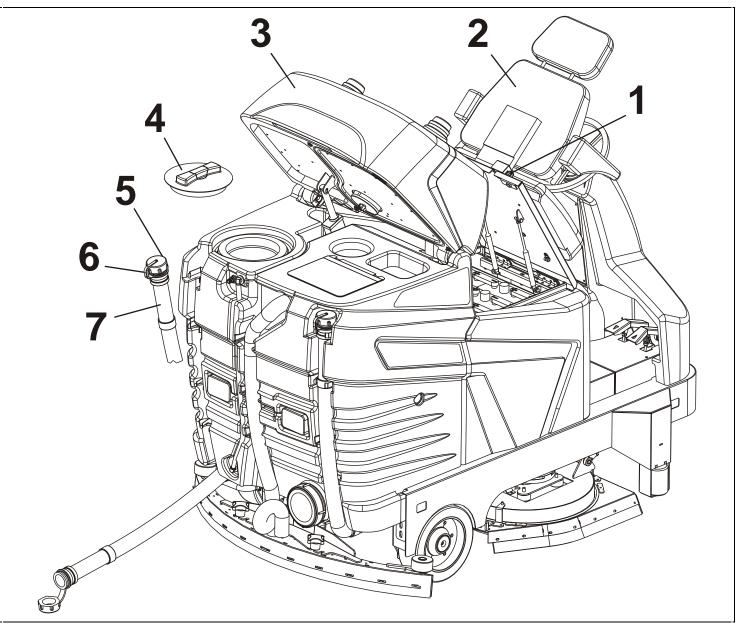
When the pump starts to operate, pour water using a pipe (pos. 6) onto the safety filter (pos. 7) (which must never be removed) so as to allow washing all the ECO-SYSTEM plant (pipes, solenoid valve, pump)

The cleaning operation will last about 40 seconds. If this time is not enough, repeat the complete cycle. To restore the normal functions of the machine, turn off and on the key.

REASSEMBLE THE ECO-SYSTEM FILTER.

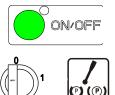


#### **DRAINING AND CLEANING THE SOLUTION TANK**



The recovery tank must be drained after each washing operation. In order to drain and wash the tank proceed as follow:

• Turn off the washing function using the ON/OFF button and go to the tank drainage area;



- Turn off the machine, remove the key and put on the brake.
- Remove the drain pipe from the clean water tank (position 6) and while keeping the pipe vertically (position 5) open the lid by rotating it counterclockwise as indicated by the arrow. Part of the pipe is flexible (position 7) and therefore it can be squeezed to limit the water flow. Once opened, lay the pipe on the ground slowly.
- After completing the cleaning procedures, open the hood of the seat pos. 2, by releasing the special safety hook pos. 1;
- Open the solution tank (pos. 3) using the switch provided.
- Unscrew the cap pos.4 and remove it;
- Wash the tank with water by means of a rubber pipe, trying to direct the water flow towards the interior of the machine as to clean it completely.
- Once completing the cleaning procedures, close the cap pos. 4, as well as the dirty solution tank pos.3, and the hood of the seat pos. 2 and place the drain pipe pos.6 with its cap pos. 5 into its housing.



#### **CHECHING BRUSHES OR ABRASIVE DISCS**

After using the machine, remove the brushes or discs by activating the brush release function.

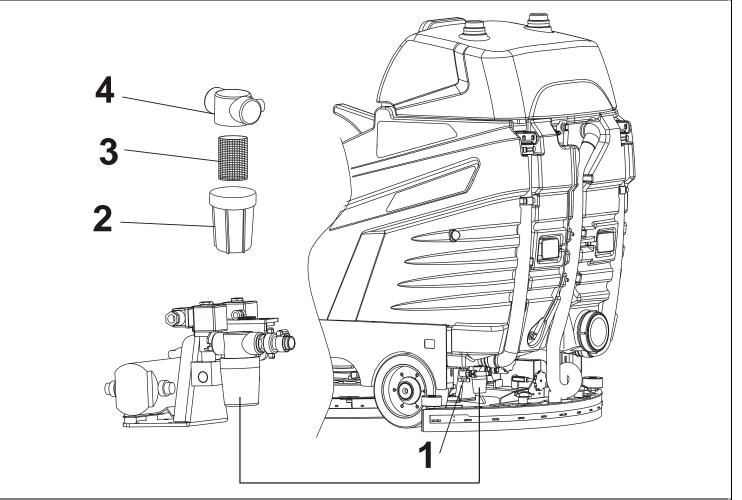


- Check the condition of the brushes and replaced them if they are worn out (the length of the lower bristle shall not be less than 10 millimetres)
- Check the condition of the abrasive discs and replace them if worn out

Make sure to switch the right brush with the left brush periodically to even out the wear so they can last longer

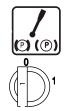


#### **CLEANING THE DETERGENT SOLUTION FILTER**

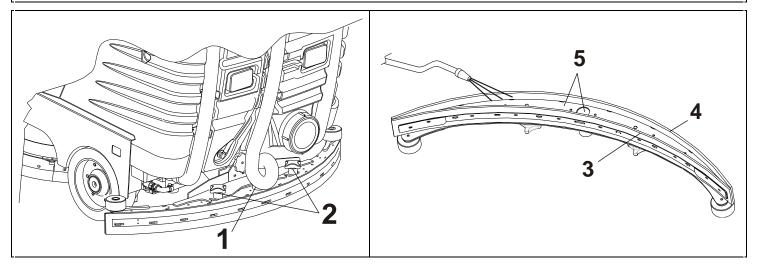


The machine is fitted with a filter on the pipe that comes from the detergent solution tank. In theory, the solution located in this tank should not have any impurities as the buckets or containers used to fill the solution are supposed to be clean, in addition there is a filter in the mouth of the tank that filters the water Follow the instructions below to clean the filter

• Bring the machine into a stop position in a flat surface area and put on the brake;



- Turn off the machine and remove the key;
- Close the valve pos.1;
- Remove the transparent cup pos.2
- Remove the protective screen (pos 3) and clean it with water together with the cup;
- Put the cup (see position 2) and the protective screen (see position 3) on the fixed part of the filter (see position 4); make sure the protective screen is fitted correctly into its housing inside the cup and into the support;
- Open the valve pos.1.



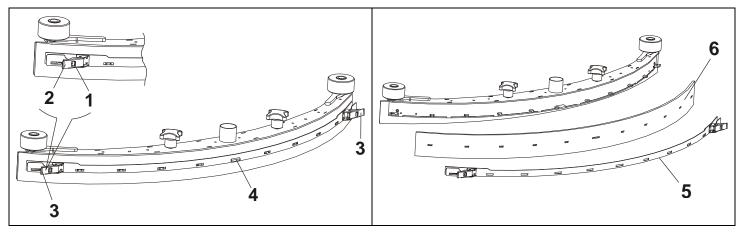
After completing the washing operation, clean the squeegee and make sure the blades are in good condition, then proceed as follows:

- Deactivate the suction function, in case it is active and lift the squeegee
- Bring the machine into a stop position in a flat surface area;
- Turn the key to position 0 and put on the brake
- Unscrew both screw knobs (see position 2 and remove the squeegee vacuum pipe (see position 1);
- Remove the squeegee, lay it on the ground facing up (as shown in the figure), wash it using water and for better vacuum flow, remove any pieces or incrustations from the lower part and from the mouth of the squeegee (see position 5);
- Use a piece of cloth to wipe off the rear drying blade (see position 4) and the front drying blade (see position 3).
- Make sure the blades are in good condition and rotate them if necessary in order to have a new edge in contact with the floor.



### **REPLACING SQUEEGEE BLADES**

The squeegee is fitted with two drying blades, a rear and a front blade, as specified in the previous paragraph. Each blade has 4 edges that can be used and rotated 4 times before being replaced, unless one of the edges is torn. For better drying performance, make sure the edge of the rear blade is not worn out. If the blade is worn out, rotate it or replace it.

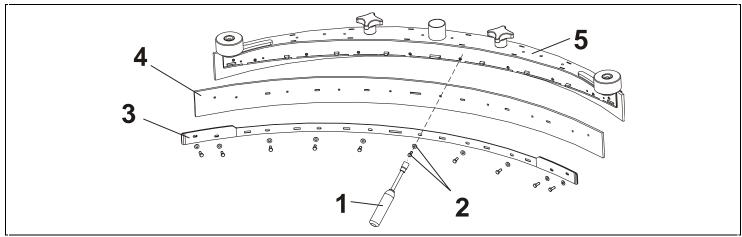


### **REPLACING THE REAR BLADE**

Follow the instructions below to rotate or replace the rear blade:

- Remove the squeegee from the machine;
- Remove the blade locking plate (see position 5) by unlocking the retainer (see position 3). This retainer is fitted with a safety device that keeps it from opening involuntarily. To release the retainer push the small lever (see position 1) towards the outer part of the squeegee and then pull the big lever (see position 2) towards the rear part of the squeegee;
- Remove the blade (see position 6);
- Rotate the blade and mount it back so that a new edge is on the drying side;
- Position the plate on the squeegee fitting it first of all in the centre slot (pos. 4) and then fastening it at the ends.

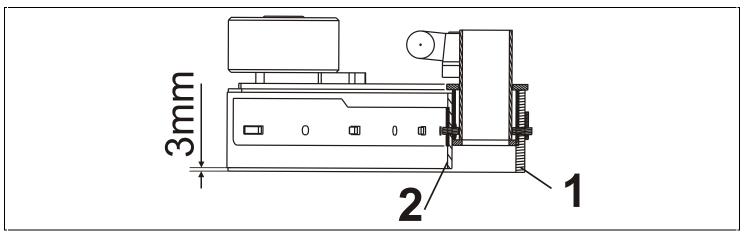
### **REPLACING THE FRONT BLADE**



Follow the instructions below to replace the **front blade**:

- Remove the squeegee (see position 5) from the machine;
- Use a 10-mm tubular nut driver (see position 1) and remove the 6 screws and the respective washers (see position 2);
- Remove the blade locking plate (see position 3);
- Remove the blade (see position 4);
- Rotate the blade and mount it back so that a new edge is on the drying side of the blade;
- Put the blade locking plate (see position 3) back into place;
- Put the 10 screws back into place and the respective washers (see position 2), and make sure not to tighten the screws excessively causing the rubber blade to deform (swell).

### CHECKING THE INSTALLATION OF THE SQUEEGEE BLADES



Once the squeegee blades are rotated or replaced, lay the squeegee onto a flat surface and check the following:

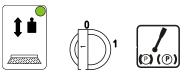
- Make sure the rear blade (see position 1) is fitted correctly and leveled throughout its entire length. If the blade is not fitted evenly, release the blade locking plate and re-position the blade so that it is levelled correctly against the floor.
- Make sure the front blade (see position 2) is fitted evenly and check for any deformations due to tightening the screws excessively. Also make sure the blade is raised 3 mm above the ground throughout its entire length.

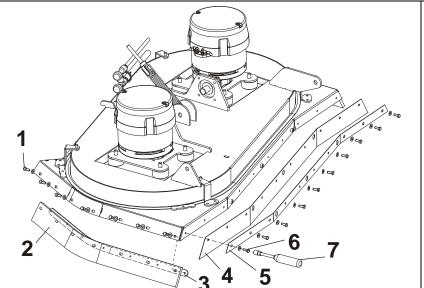


### **ROTATING OR REPLACING THE SPLASHGUARD BLADES**

Follow the instructions below to rotate or replace the splashguard side or front blade:

- Turn off the brushes function and lift the brush plate;
- Turn off the machine, remove the key and the battery connector and put on the brake.



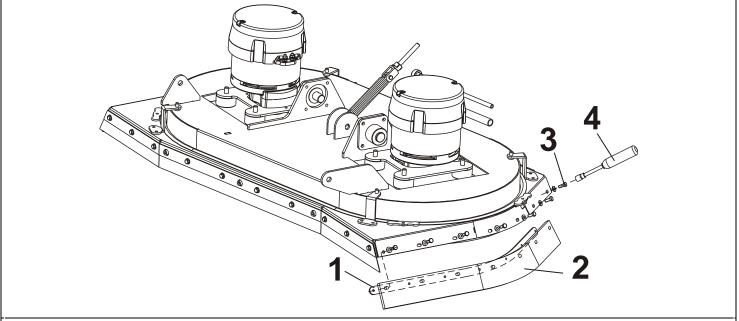


### ROTATING OR REPLACING THE FRONT BLADE

- Use a 10mm hex wrench (position 7) and remove the 10 screws (position 6) and the respective washers;
- Remove the rubber locking plate (position 5);
- Remove the rubber (position 4) and replace it;
- Put everything back into place;

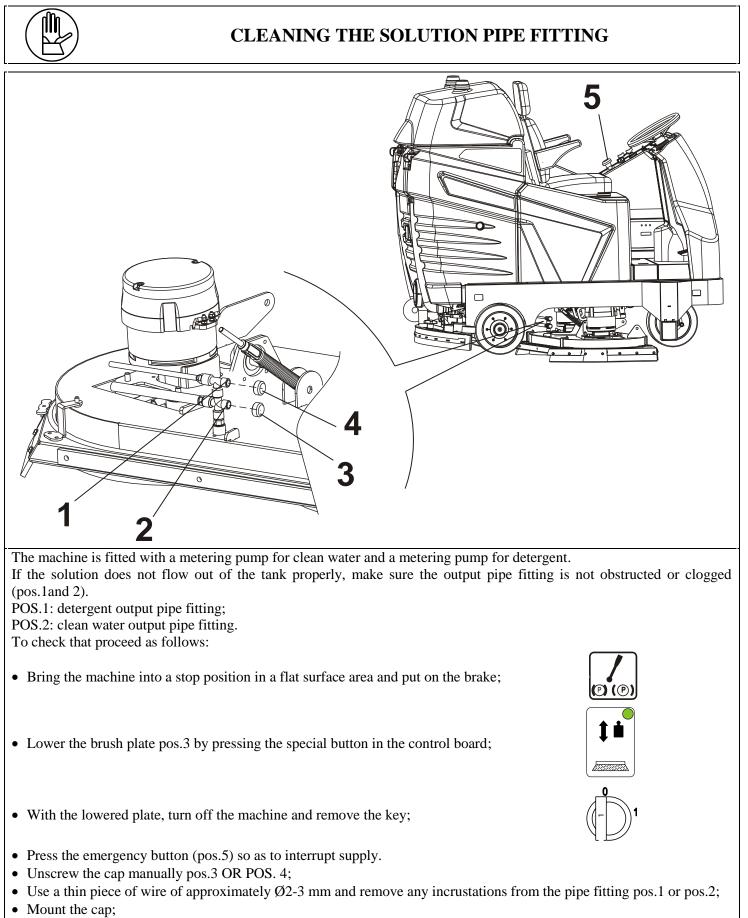
#### ROTATING OR REPLACING THE SIDE RIGHT BLADE

- Use a 10mm hex wrench (position 7) and remove the 7 screws (position 1) and the respective washers;
- Remove the internal rubber locking plate (position 3);
- Remove the right side blade (position 2), rotate it 180° and put it back into place if the external edge is in good condition, otherwise replace it with a new one;
- Put the rubber and the internal plate back into place using the 7 screws (position 1) and the respective washers making sure that the rubber is equally distributed over the entire length.



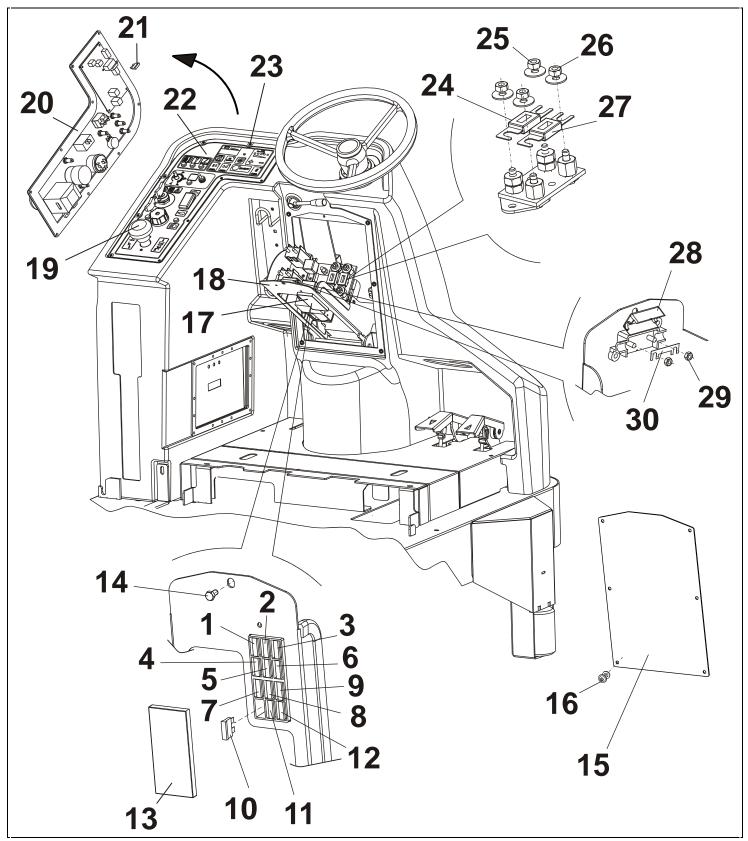
#### ROTATING OR REPLACING THE SIDE LEFT BLADE

- Use a 10mm hex wrench (position 4) and remove the 7 screws (position 3) and the respective washers;
- Remove the internal rubber locking plate (position 1);
- Remove the right side blade (position 2), rotate it 180° and put it back into place if the external edge is in good condition, otherwise replace it with a new one;
- Put the rubber and the internal plate back into place using the 7 screws (position 3) and the respective washers making sure that the rubber is equally distributed over the entire length.



- Pull the emergency button upwards;
- Insert the key and turn it towards the ignition
- After some seconds, the machine will lift automatically the plate and it will be ready to start working.

#### CHECKING OR REPLACING FUSES



To check or replace the fuses on the switchboard proceed as follows:

- Bring the machine into a stop position in a flat surface area, turn the key in pos. 0 and put on the brake;
- Press the emergency button (pos.19);
- Remove the 6 locking screws pos.16 from the fuse holder hood pos.15 and remove it;
- To make fuse changing more accessible, remove the screw (pos. 14) and open the control panel box (pos. 18) as shown in the illustration;

- In the electric plan there are different fuses and fuse holders that have the following functions:
- Fuse holder pos.28: 40 A fuse **PROTECTION OF BRUSH RELEASE**;
- TO REPLACE IT, PROCEED AS FOLLOWS:
  - $\Box$  Open the lid of the fuse holder
  - $\Box$  Unscrew the 2 fuse locking nuts (pos. 29);
  - $\Box$  Replace the **40A fuse** (pos.30) with a fuse of equal amperage
  - $\Box$  Reassemble the nuts and close the lid of the fuse holder
- There are 12 fuses located in the fuse holder pos.17 and they have the following functions and features
  - **POSITION** 1: 30 A fuse vacuum motor (STANDARD)
  - **POSITION** 2:5 A fuse control board and battery charger protection;
  - **POSITION** 3: 30 A service supply protection fuse (transformers, function control board, etc);
  - **POSITION** 4: 10 A fuse pump protection;
  - **POSITION 5**: 3 A fuse flashing light protection;
  - **POSITION 6**: 10 A fuse for the protection of the 24V transformer 1 output (drive motor temperature indicator warning light, drive motor temperature alarm buzzer, reverse buzzer, drive system operation warning light, flashing lights)
  - **POSITION** 7: 5A reverse light protection fuse;
  - **POSITION 8**: 10 A fuse for the protection of the 24V transformer 2 output (all lights, horn, headlight warning lights, handbrake warning light, handbrake buzzer)
  - **POSITION** 9: 30 A suction motor protection fuse (OPTIONAL);
  - **POSITION 10**: 3 A lid actuator protection fuse;
  - **POSITION 11**: 3 A drive motor cooling fan protection fuse;
- **POSITION 12**: 3 A battery-charger cooling fan protection fuse;

#### • Fuse pos.24: 100 Ah fuse **BRUSH MOTORS PROTECTION**

**ATTENTION:**This fuse is used by the function card to control the correct absorption of brush motors (amperometric protection). It is possible that, although the motor reducers work with a correct absorption, error E1 appears on the display.

In this case there is an oxidation of the fuse that gives a wrong reading.

Please proceed as follows:

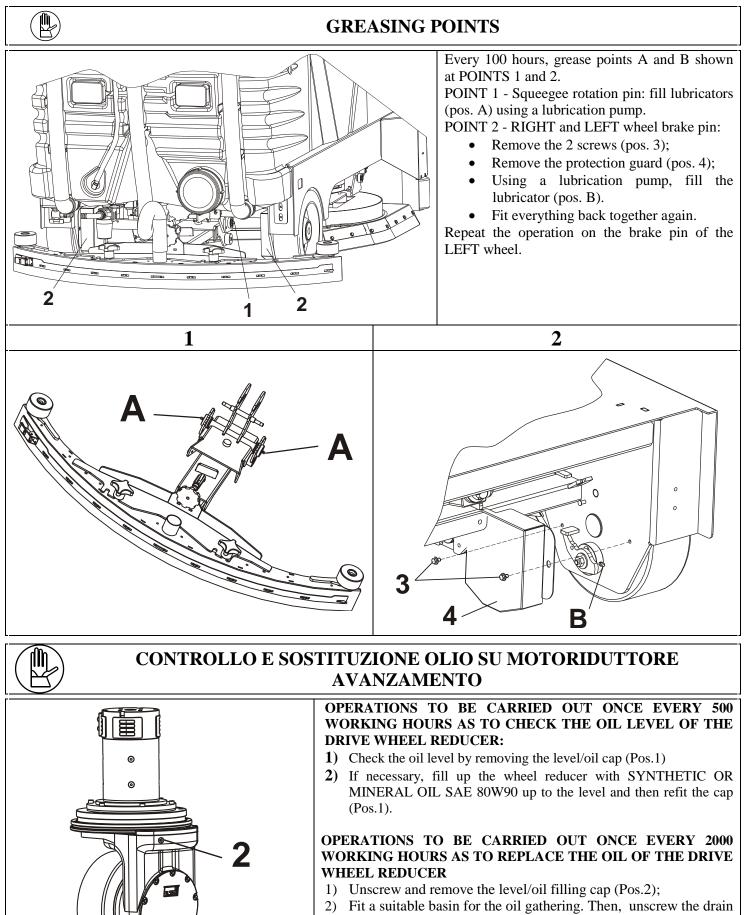
- Unscrew the 2 nuts pos.25 that fix the fuse of 100 Ah pos. 24
- Clean the fuse holder and oil it with vaseline
- Reassemble the nuts.

IMPORTANT: use exclusively the spare fuse by Eureka

#### • Fuse pos.27: 125 A fuse **PROTECTION OF THE DRIVE SYSTEM**

- TO REPLACE IT PROCEED AS FOLLOWS:
- Remove the 2 nuts pos.26;
- Replace **125** A fuse pos.27 with a fuse of equal amperage and with the same manufacturing characteristics;
- $\Box$  Reassemble the 2 nuts.
- Fuse pos.21: 20 A fuse **CONTROL BOARD CARD PROTECTION**; TO CHECK OR REPLACE IT, PROCEES AS FOLLOWS:
- Use a 2.5mm Allen wrench and remove the 10 clamping screws (see position 23) from the instrument panel, including the respective nylon washers;
- Carefully turn the instrument panel (see position 22), follow the arrows and make sure not to jerk it as it may damage the electrical system;
- Remove the 20 A fuse (see position 21), check it and replace it if necessary with a fuse of equal amperage;
- Put the instrument panel back into place (see position 22);
- Put the washer and screws back into place (see position 23) and close the panel using the special wrench, make sure to apply enough pressure on the seal beneath the panel (see position 20).

Once the fuses are checked or replaced, put everything back together and bring the machine back to its operating condition



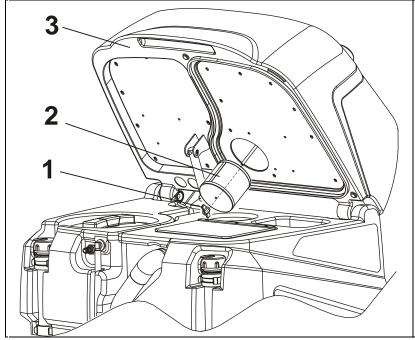
- Fit a suitable basin for the oil gathering. Then, unscrew the drain plug Pos 1 and remove it as to wait for the oil outflow;
- 3) Remove any metallic waste which got stuck on the drain plug;
- 4) Refit the drain plug Pos.1 by means of a proper gasket;
- Fill up the reducer with SYNTHETIC OR MINERAL OIL SAE 80W90 up to the level and then refit the oil filling cap (Pos.2).



# **CLEANING THE SUCTION FILTER**

The machine is fitted with a stainless steel washable cartridge filter or - as optional - with a PU filter on the suction duct, which provides two functions:

- 1) To filter the air vacuumed by the squeegee, trapping dust before releasing it into the environment, without putting it back into the air;
- 2) To protect the suction motor against dust that may ruin moving mechanical parts, making them last longer.

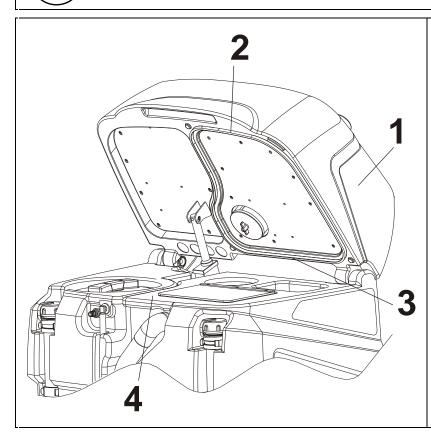


- Follow the instructions below to clean the filter:Bring the machine into a stop position in a flat surface area and put on the brake
- Open the cover (see position 3);
- Turn off the machine and remove the key.



- Unscrew the locking filter handwheel pos.1;
- Remove the filter pos.2 from its seat;
- Wash the filter with water and dry it using hot air, be careful not to damage it;
- Put the air filter back into place pos. 2;
- Lower the locking filter handwheel pos.1;
- Turn the machine on and close the tank cover.

# CHECK THE SEAL ON THE COVER

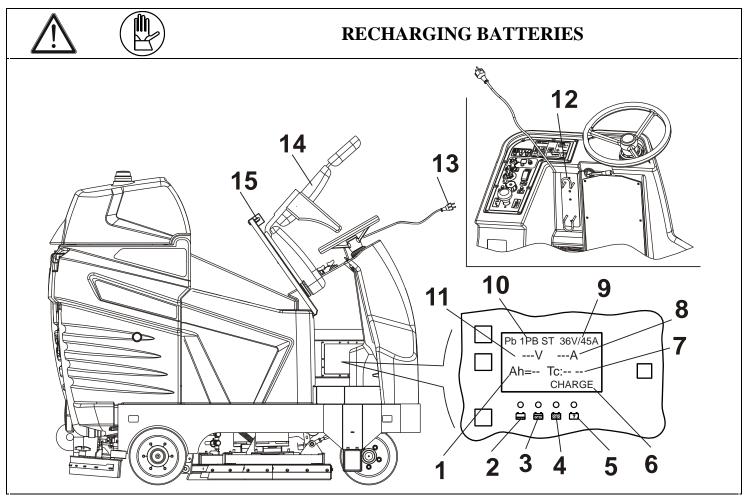


The recovery tank cover seal ensures that a proper vacuum is created inside the tank and this provides a better suction performance on the squeegee.

It is very important to keep the seal intact in order for the machine to work properly.

To clean and check the seal, proceed as follows:

- Open the cover (see position 1);
- Use a piece of cloth to wipe off the seal (see position 2 and make sure it is not broken or damaged;
- If the seal is damaged, remove it from the cover, mount a new seal and make sure to fit the seam of the seal into the rear position (see position 3);
- Clean the area of the tank where the seal leans (see position 4) when the cover is closed.



#### WARNING! THE CHARGER IS PRESET FOR LEAD BATTERIES. TO MOUNT GEL OR AGM BATTERIES, BOTH THE STATUS LED AND THE CHARGER HAVE TO BE SET ACCORDING TO THE TYPE OF BATTERY WHICH IS TO BE USED. TO THIS AIM, PLEASE CONTACT EITHER A TECHNICIAN OR AN AUTHORIZED RETAILER.

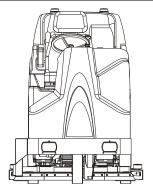
To charge the batteries follow the instructions below:

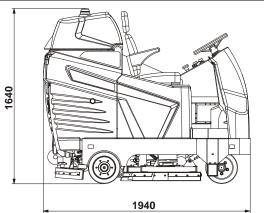
- Bring the machine into a stop position in a flat surface area, turn it off and put on the brake;
- Before charging the battery make sure to scrupulously follow the battery charger instruction manual provided with the machine.
- The recharging of the battery is to take place in well-aired environments.
- Open the hood of the seat pos.14 by releasing the locking device pos.15;
- The battery charger can run with a voltage range 230 VAC, for the use with different voltages it is advisable to use a proper charger.
- Unwind the cable from the cable reel pos.12 located on board the machine and connect the plug pos.13 into a standard electrical power socket. After fitting in the socket, the battery-charger display screen will light up and, after completion of a start sequence, a series of parameters will be displayed including the type of battery and the set charge curve (pos.10), the size of the battery charger (pos.9), the recharge voltage (pos.11), the recharge amperage pos.8, charged amps (pos.1), recharge time (pos.7).
- The word CHARGE will appear (pos.6) combined with the flashing of the green LED (pos. 2) to indicate that the charge phase is being correctly performed. If the word NO BAT appears in pos.6, this means the battery connector is disconnected. Connect the battery connector and start the charge cycle again.
- The LEDs 2-3-4 indicate recharge progression. At the end of recharge, all 3 will be on.
- WARNING: WHEN PLUGGING THE BATTERY CHARGER INTO THE ELECTRICAL SOCKET, THE MACHINE FUNCTIONS ARE AUTOMATICALLY DISABLED. Once the charge is completed the plug can be disconnected from the electrical socket and rolled back into the cable reel

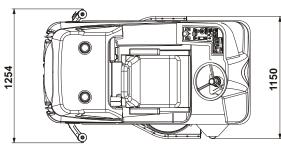
Once the battery is charged make sure to check the electrolyte level and if necessary fill it up only using distilled water.

- The gas released during the charging process can cause explosions if it comes into contact with flames or sparks.
- Battery acid should never come into contact with the eyes, skin or clothes, make sure to wear goggles, gloves and appropriate clothing.
- If it comes into contact with the eyes or skin, wash immediately with abundant water.
- Do not place metal objects on the batteries.
- Do not fill the batteries with sulphuric acid or other products.

# **DIMENSIONAL DRAWINGS**

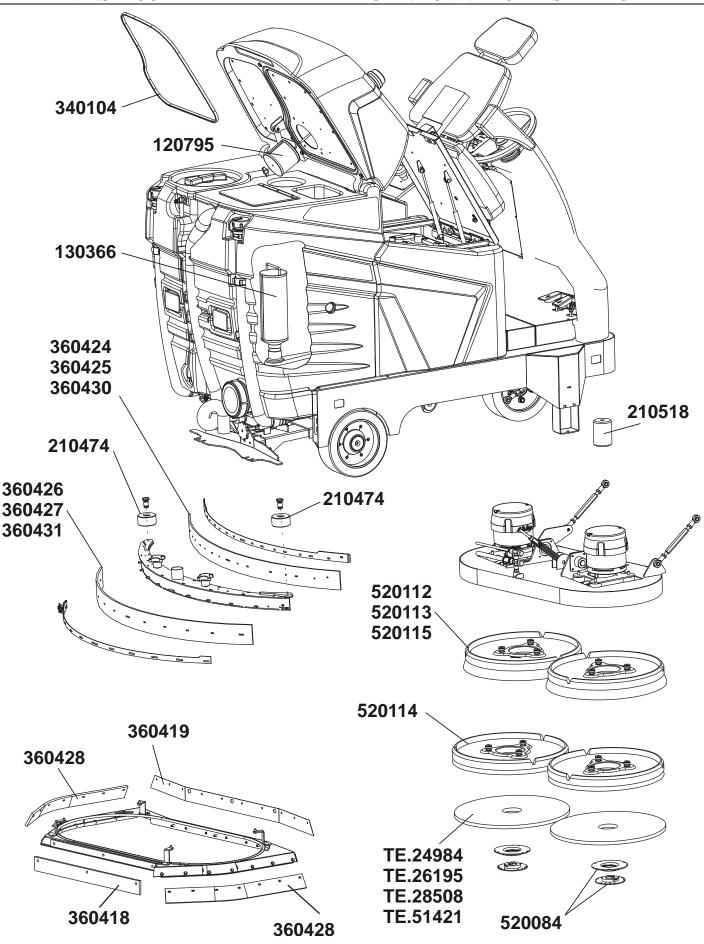






	CATIONS	
TECHNICAL CHART	MODEL	
	E 110 – M 110	
SCRUBBING WIDTH WITH BRUSH	mm 1020	
BRUSH PRESSURE	Kg 100	
SOLUTION / RECOVERY TANK CAPACITY	Lt 195 - Lt 195 with 175mm of free tank	
PRODUCTIVITY	m <sup>2</sup> /h 8160	
MACHINE WEIGHT (WITH ON-BOARD CHARGER/ WITHOUT BATTERIES)	Kg 680	
MACHINE SIZE (WITHOUT SQUEEGEE)	mm 1940X1150 H=1640	
SQUEEGEE WIDTH	mm 1260	
BRUSH AND PAD HOLDER DIAMETER, RPM	mm 520, mm510 rpm 210	
DIFFERENTIAL MOTOR FOR BRUSHES	V/Watt 36/750	
WATER PUMP	V/Watt 24/150	
VACUUM MOTOR	V/Watt 36/600	
WATER LIFT	mm / H2O 1800	
TRACTION	ELECTRONIC	
DRIVE BY MEANS OF DIFFERENTIAL MOTOR	V/Watt 36/2600	
FRONT WHEEL WITH STEEL CORE, FULL RUBBER TYPE, NON MARKING, OIL-PROOF	Ø300 X 100	
REAR WHEELS WITH STEEL CORE, FULL RUBBER TYPE, NON MARKING, OIL-PROOF	Ø300 X 100	
MAX FORWARD AND REVERSE SPEED	Km/h 8 – Km/h 4	
MAX GRADIENTS (WITH EMPTY TANK)	19 %	
RECOMMENDED 36V-320Ah (IN C5) ACID, HEAVY DUTY BATTERY	mm614x505x458 h Kg_385	
RECOMMENDED 36V-400Ah (INC5) ACID, HEAVY DUTY BATTERY	mm614X620X458 h Kg_480	
DIMENSIONS BATTERY SEAT	mm614X620X458h	
NOISE LEVEL IN OBSERVANCE OF ISO 3744 – ACOUSTIC PRESSURE MEDIUM LEVEL Lpm=	67.4 dB	

### RECOMMENDED SPARE PARTS USED FOR SERVICING. SERVICING OPERATIONS CAN BE CARRIED OUT BY THE USER HIMSELF ON CONDITON IT HAS PREVIOUSLY BEEN INSTRUCTED BY EITHER THE MACHINE OWNER OR HIS EMPLOYER



### RECOMMENDED SPARE PARTS USED FOR SERVICING. SERVICING OPERATIONS CAN BE CARRIED OUT BY THE USER HIMSELF ON CONDITON IT HAS PREVIOUSLY BEEN INSTRUCTED BY EITHER THE MACHINE OWNER OR HIS EMPLOYER

- COD. 120795 : MOTOR SAFETY FILTER STAINLESS STEEL
- COD. 130366 : ECO-SYSTEM FILTER
- COD. 210474: WHEEL
- COD. 340104: COVER GASKET MT. 1.9
- COD. 340418: REAR BLADE
- COD. 360419 : FRONT BLADE
- COD. 360247 : SQUEEGEE REAR BLADE OF LINATEX OF 6.35 mm (STANDARD)
- COD. 360449: SQUEEGEE FRONT BLADE OF LINATEX OF 6.35mm (OPTIONAL)
- COD. 360448: SQUEEGEE FRONT BLADE OF LINATEX OF 4.76mm (STANDARD)
- COD. 360426 : SQUEEGEE REAR BLADE OF LINATEX OF 9.52 mm (OPTIONAL)
- COD. 360428: LEFT RIGHT BLADE
- COD. 360447 : SQUEEGEE FRONT BLADE IN PULYURETHANE (OILPROOF)
- COD. 360431: SQUEEGEE REAR BLADE IN PULYURETHANE (OILPROOF)
- COD. 520084: COMPLETE FLANGE
- COD.520112 : PPL BRUSH 1.2 mm (2 EACH MACHINE)
- COD. 520113 : TYNEX BRUSH 1.2 mm (2 EACH MACHINE)
- COD. 520114 : PAD HOLDER (2 EACH MACHINE)
- COD. 520115 : PPL BRUSH 0.9 mm (2 EACH MACHINE)
- COD. TE.24984: ABRASIVE PAD RED 20" 508 mm
- COD. TE.26195 : ABRASIVE PAD WHITE 20" 508 mm
- COD. TE.28508: ABRASIVE PAD BLUE 20" 508 mm
- COD. TE.51421: ABRASIVE PAD BLACK 20" 508 mm

#### **TROUBLE-SHOOTING CHART**

# **IMPORTANT!** ALL MAINTENANCE JOBS OR TESTS, WITH THE EXCEPTION OF THOSE DESCRIBED IN THE MANUAL, MUST ONLY BE PERFORMED BY AN AUTHORISED AFTER-SALES CENTRE (AAC)

PROBLEM	CAUSE	SOLUTION		
The battery gets discharged	1. Either exhaust or broken elements	Replace it		
The display of the control card does not	2. Flat or worn out battery	Recharge it		
switch on when inserting the key	3. 5A fuse burn out (pos. 2 fuses box)	Replace it		
	4. 30A fuse burn out (pos.3 fuses box)	Replace it		
	5. Services supply remote switch faulty	Replace it		
	6. Emergency switch pressed	Unblock it		
	7. Battery mobile connector disconnected	Connect it		
	8. Key operated switch broken	Replace it		
	9. Control board is broken	Replace it		
When you press the brush button the	10. Flat or worn out battery	Recharge it		
brush plate can not be lowered	11. Faulty actuator	Replace it		
orush place can not be lowered	12. Faulty card	Replace it		
	<ol> <li>13. Actuator control module on the control board is broken</li> </ol>	Replace it		
	14. Some material got entangled underneath the brush	Remove the material as to unlock the brush plat		
	<ul><li>plate thus preventing it from lowering</li><li>15. Empty tank. The water output pipe lights are flashing</li></ul>	Fill the tank		
	16. Faulty floating device	Replace it		
The brush motor does not rotate	17. Flat or worn out battery	Recharge it		
	18. Electric remote switch is broken	Replace it		
	19. Control board is broken.	Replace it		
	20. Amperometric protection for over-absorption of	Follow the instructions at pag. 46 (E1).		
	the motor ON THE DISPLAY IT WILL APPEAR THE INDICATION "E1"			
	L	Replace it		
	21. Carbons are worn out	Replace it		
	22. 100A Fuse burn out	Replace it		
	23. Faulty engine	Trophate II		
By pressing the "extra-pressure" button	24. Faulty actuator	Replace it		
the brush plate does not get into correct	25. Faulty card	Replace it		
position	26. Actuator control module on the control board is	Replace it		
position	broken.	Replace It		
The brush release function does not work	27. The brush function is still on	Disable the brush function		
The brush release function does not work	28. The machine is in motion	Release the drive button		
	29. 40A Fuse for protection of brush release is broken	Replace it		
	30. Release remote switch is broken	Replace it		
	31. Control board is broken	Replace it		
The drive does not work	32. Brake is engaged	Disengage it		
	33. Flat or worn out battery	Recharge it		
	34. Seat safety device engaged	Sit down		
	35. Key disconnected	Insert it		
	36. 125A protection traction fuse is faulty	Replace it		
	37. Wheel gear motor is faulty	Repair/replace it		
	38. Wheel motor is broken or blocked	Repair/replace it		
	39. Motor carbons are worn out	Replace it		
	40. Faulty electric motor remote switch	Replace it		
	41. Electronic control board is broken	Replace it		
	42. Faulty pedal box	Repair/replace it		
	43. Faulty pedal control	Repair/replace it		
RED LIGHT on the control board; the	44. The temperature on the forward gear motor $1.75 + 0.05$	Wait till the temperature falls down before re-		
	exceeds 75-85° C.	starting the machine- Check the reason of the		
alarm enters into function and the gear	1	over-heating (climbs, over absorption etc.) Clea		
motor comes to a stop.				
		the motor air inlets.		
	45. Faulty relay	the motor air inlets. Replace it		
motor comes to a stop.				
motor comes to a stop. By pushing the brake pedal, the machine	46. Blocked pedal	Replace it Check it		
		Replace it		

PROBLEM	CAUSE	SOLUTION			
Not enough water flow on the brush	50. Tap is closed	Open the tap			
	51. Faulty solenoid valve of the detergent solution.	Replace it			
	52. Clogged detergent solution filter	Clean the filter			
	53. The solution pipe from the tank to the brush is	Make sure there is no incrustations			
	clogged 54. Faulty 10A pump fuse	Paplace fuse pos 4 of the fuse holder			
	55. Worn out carbons of the pump motor	Replace fuse pos. 4 of the fuse-holder. Replace them			
	56. Pump either clogged or faulty	Check the pump / replace it			
	57. Clogged solution pipe fitting	Clean the pipe fitting (see pag.34 - pos.3)			
	58. Control board is broken	Replace it			
Not enough water flow on the brush	59. Faulty ECO-SYSTEM solenoid valve of the	Replace it			
with the ECO-SYSTEM	detergent solution				
	60. Clogged ECO-SYSTEM filter.	Clean it			
	61. Control board is broken	Replace it			
	62. Clogged pipe from the recovery tank to the brush	Make sure there is no incrustations			
	<ul><li>63. Faulty 10A pump fuse</li><li>64. Worn out carbons of the pump motor</li></ul>	Replace fuse pos. 4 of the fuse-holder Replace it			
	65. Pump either clogged or faulty	Check the pump / replace it			
	66. Clogged solution pipe fitting	Clean it (see pag.34 - pos.3)			
When the detergent dosing device is	67. Detergent can finished	Replace the can			
started by means of the switch on the	68. Clogged filter on detergent suction pipe	Clean the filter			
panel, there is little or no detergent flow	69. Detergent pump blocked or faulty	Check the pump or replace it			
	70. Function control board faulty	Have it replaced			
	71. Dosing device connector blocked	Clean the connector (see page 34–pos. 4)			
The green warning light on the control	72. Diagnosis for led flashings				
board card indicating -when switched	- ON: NO ERRORS, NORMAL CONDITION				
off- the correct functioning of the drive electric control is blinking	- OFF: ERROR INSIDE THE REMOTE SWITCH	Replace it			
ciccure control is blinking	- 1 FLASHING: personalization out of spec.	Check it			
	- 2 FLASHINGS:				
	the micro of the seat are open	Sit down			
	Forward pedal pushed when inserting the key	Release the pedal and push it again			
	- 3 FLASHINGS: short circuit MOSFET	Replace it			
	- 4 FLASHINGS: remote control switches are faulty	Replace it			
	- 5 FLASHING: not used				
	- 6 FLASHINGS:				
	- white thread n°46 as of diagram n°L8125 interrupted	Connect it			
	or not properly inserted - the pedals are blocked, stiffen and do not come back	Connect/replace them			
	onto their original seat	connectreplace mem			
	- the potentiometer inside the control box does not	Check it			
	function correctly				
	- 7 FLASHINGS: low or high battery voltage	Recharge the battery			
	- 8 FLASHINGS overheating or temporary cutback,	Wait till it cools up.			
	when at 75°C the current starts to get off, at 90°C it	wate all it cools up.			
	stops				
By pressing the vacuum button, the	73. Flat battery	Recharge it			
squeegee does not lower	74. Reverse speed microswitch engaged	Put the forward speed microswitch			
	75. Faulty actuator	Replace it			
	76. Faulty card	Replace it			
	<ul><li>77. Faulty actuator on the electronic control card</li><li>78. Material underneath the squeegee prevents it from</li></ul>	Replace it			
	1/8. Material underneath the squeegee prevents it from lowering	Remove the material which got entangled in the			
	79. The recovery tank is full; the floating device gets	squeegee			
	inserted and the button led is on	Empty the tank			
	80. Faulty float device	Replace it			
The suction motor does not work	81. Flat batteries	Recharge them			
	82. 30A suction motor fuse worn out	Replace the fuse – Pos. 1 of the fuse holder			
	83. Vacuum motor disconnected	Check the motor wiring			
	84. Vacuum motor is faulty	Replace it			
	85. Vacuum motor carbons are worn out	Replace it			
	<ul><li>86. Control board is broken</li><li>87. Faulty remote switch</li></ul>	Replace it Replace it			
	or. Faulty remote switch	Replace it			

PROBLEM	CAUSE	SOLUTION		
Not enough suction on the squeegee	88. Recovery tank is full	Empty the tank		
	89. Lid on the exhaust pipe is open	Tight the lid		
	90. Vacuum pipe disconnected	Verify that it is mounted properly		
	91. Vacuum pipe is clogged	Clean the vacuum pipe		
	92. Faulty vacuum pipe	Replace the pipe		
	93. Dirty squeegee	Clean the squeegee		
	94. The squeegee is not adjusted properly	Adjust inclination and pressure		
	95. Material tangled with the squeegee blades	Clean the blades		
	96. Squeegee blades either broken or worn out	Reverse the blade or replace them		
	97. The tank is either open or not properly closed	Close or verify the lid		
	98. Damaged lid gasket	Replace the gasket		
	99. Faulty suction motor	Replace or check the motor		
	100. Flat batteries	Recharge them		
Front lights and side lights not working	101. Light faulty	Replace		
	102. Switch faulty	Have it replaced		
	103. Fuse carrier 10A fuse pos.8 faulty	Replace it		
	104. Transformer no. 2 faulty	Replace it		
	105. Service supply remote switch faulty	Have it replaced		
Stop lights not working	106. Light faulty	Replace		
	107. Micro switch on brake pedal faulty	Have it replaced		
	108. Fuse carrier 10A fuse pos.8 faulty	Replace it		
	109. Transformer no. 2 faulty	Replace it		
	110. Service supply remote switch faulty	Have it replaced		
Reverse lights not working	111. Light faulty	Replace		
	112. Reverse light relay faulty	Have it replaced		
	113. Fuse carrier 5A fuse pos.7 faulty	Replace it		
	114. Fuse carrier 10A fuse pos.6 faulty	Replace it		
	115. Transformer no. 1 faulty	Have it replaced		
	116. Service supply remote switch faulty	Have it replaced		
Reverse buzzer not working	117. Buzzer faulty	Have it replaced		
	118. Fuse carrier 10A fuse pos.6 faulty	Replace it		
	119. Transformer no 1 faulty	Have it replaced		
	120. Service supply remote switch faulty	Have it replaced		
Flashing lights not working	121. Lights faulty	Replace		
	122. Fuse carrier 3A fuse pos.5 faulty	Replace it		
	123. Fuse carrier 10A fuse pos.6 faulty	Replace it		
	124. Intermittence faulty	Have it replaced		
	125. Transformer no.1 faulty	Replace it		
	126. Service supply remote switch faulty	Have it replaced		
Tank inspection cover does not open	127. Suction unit on	Switch off suction unit		
	128. Toggle switch faulty	Replace switch		
	129. Toggle switch connector disconnected or badly	Check the connector connection		
	connected			
	130. Relay faulty	Have it replaced		
	131. Fuse carrier 3A fuse pos.10 burnt out	Replace it		
	132. Service supply remote switch faulty	Have it replaced		
	133. Fuse carrier 30A fuse pos.3 burnt out	Replace it		
	134. Actuator faulty	Have it replaced		

CHECKING THE ALARMS ON THE DISPLAY OF THE CONTROL BOARD					
ALARM	CAUSE SOLUTION				
	Amperometric protection for over-absorption of the brush motor. The led light of the brush bottom flashes for 1 minute and then the writing E1 appears, the brushes will stop lifting the plate.	Stop the machine and start it again. If the problem persists, check out the cause of over- absorption (threads or any other material which might get tangled with the brush; the brush is not suitable for the type of floor)If the alarm persists, check if there is any oxidation in the 100Ah fuse that can give a wrong reading. Check pag. 35 fuse pos. 24 Follow the instructions at pag. 36.			
E2	Alarm: the contact of both the brushes actuator limit switches is open.	Make sure no foreign bodies are preventing the correct movement of the brush plate. If the problem continues, contact your dealer or a technician.			
	Alarm: the contact of both the squeegee actuator limit switches is open.	Make sure that no foreign bodies are preventing the correct movement of the squeegee If the problem continues, contact your dealer or a technician.			
E4	Alarm: the final position of the brush plate actuator is not reached within the max. lapse of time (10secs)	Make sure that no foreign bodies are preventing the brush plate from functioning. If the problem continues, contact your dealer or a technician.			
Ē5	Alarm: the final position of the squeegee actuator is not reached within the max. lapse of time (10secs)	Make sure that no foreign bodies are preventing the brush plate from functioning. If the problem continues, contact your dealer or a technician.			
Ê6	Alarm: when starting up the machine, the brushes actuator does not reach the pos. 0 within the max. lapse of time (10 sec.)	Make sure that no foreign bodies are preventing the brush plate from functioning. If the problem continues, contact your dealer or a technician.			
E7	Alarm: when starting up the machine, the squeegee actuator does not reach the pos. 0 within the max. lapse of time (10 sec.)	Make sure that no foreign bodies are preventing the squeegee from functioning. If the problem continues, contact your dealer or a technician.			
₽ <u>c</u>	That is not an alarm but rather a warning signal indicating that the brush plate is not in raised position when starting up the machine The machine requires the brush plate to be lowered before being used for any other operation.	Wait for a few seconds till the brush plate has been raised completely.			
	1° The battery charge level it too much low. Upon reaching level 20 the number on the display shall start blinking and the brush function will be disabled, lifting the plate	Complete drying. Empty the recovery tank and recharge the batteries.			
	2° The battery charge level it too much low. Upon reaching level 10 the number on the display shall start blinking and the suction function will be disabled.	Lift the squeegee, empty the recovery tank and recharge the batteries			
	3° The battery charge level it too much low. When 4 blinking dashes appear on the display unit, it means that the minimum discharge threshold of the battery has reached its maximum level and if the battery is used any further it will cause irreparable damages. At this point, the forward drive will no longer operate.				

# PRODUCT WARRANTY

Eureka Srl warrants that its machine will be free from defects in material and workmanship for a period of 12 months from date of installation. Written notice of any claimed defect must be given to Eureka Srl or its Authorized Sales/Service Representative within the warranty period and within thirty (30) days after such defect is discovered. Liability under this warranty is limited to either replacing or repairing, at Eureka or its Authorized Sales/Service Representative Representative election, any part or parts deemed defective after examination.

This warranty does not extend to labour charges, handling charges or transport charges.

This warranty does not extend to the machine, or its parts, that have been subject to misuse, accident or improper handling, installation, maintenance or application, nor does it extend to the machine and/or parts which have been repaired or altered outside Eureka's plant or the facility of Eureka's Authorized Sales/Service Representative.

This warranty does not apply to routine wearable parts such as brushes, splashguards, flaps, filters, seals, plugs, hoses, fuses or similar items. Moreover, this warranty does not extend to the machine or any of its parts already repaired or replaced under this warranty.

Only replacement parts supplied by Eureka or Eureka's Authorized Sales/Service Representative are warranted for 30 days after installation.

The warranty for engines shall be limited to the warranty extended by the engine's manufacturer.

### **IMPORTANT!**

Warranty claims will be evaluated only if the Installation Form will be sent by fax or by mail, filled in all its parts, to <u>Eureka's headquarter</u> within thirty (30) days after the machine's installation.

EUREKA S.r.l.

Via dell'Industria 32 , CITTADELLA (PD) 35013 - ITALY Tel. ++39 - 049- 9481800 Fax. ++39 -049 - 9481899 INTERNET: www.eurekasweepers.com E-MAIL: info@eurekasweepers.com

## INSTALLATION FORM NECESSARY TO ACTIVATE WARRANTY

Warranty claims will be evaluated only if the following Installation Form will be sent by fax or by mail, filled in all its parts, to <u>Eureka's headquarter</u> within thirty (30) days after the machine's installation. PLEASE RETAIN THE ORIGINAL COPY WITHIN THE MANUAL.

COMP	ANY & NAME OF TI	1E SELL	ER	51	AMP & SIGN	ATURE OF TH	HE SEL	LER
USES' INFO	RMATION							
TYPE OF FLO	OR							
	REA ( m²)							
MACHINE IN	IFORMATION							
MODEL OF TI	HE MACHINE							
FRAME'S NU	MBER							
S/N					INSTALLATI	ON DATE:		
GENERAL IN	NFORMATION							
1) HAS THE L RESPECTED	LEAD TIME BEEN ?				'E YOU REAE Al Prior Ne?			
2) HAVE YOU USE THE MAG	J BEEN SHOWN H CHINE?	ом то		5) HAV PREVE	E YOU BEEN NTIVE "MAIN RACT" ?			
3) HAVE YOU FUNCTIONING PRIOR TO US		ACHINE		6) HAV	E YOU ACCE	PTED IT?		
USER'S INF	ORMATION							
	AME							
ADDRESS							N	°
CITY								
PROVINCE								
COUNTRY								
PHONE #					FAX #			
	DDRESS				ł			
E-MAIL								
BUSINESS AG	CTIVITY							
NAME OF THI RECEIVES TH	E PERSON WHO IE MACHINE:							
POSITION:								
DATE			SIGNATUR	E				

#### Eureka srl

Via dell'Industria 32, 35013 CITTADELLA (PD) ItalyTel ++39 - 049 - 9481800 Fax ++39 - 049 - 9481899 INTERNET: <u>www.eurekasweepers.com</u> E-MAIL: <u>info@eurekasweepers.com</u>

## DICHIARAZIONE DI CONFORMITA' 98/37/CEE, 72/23/CEE, 89/336/CEE 92/31/CEE, 93/67CEE, 93/68/CEE

#### Noi:**EUREKA S.r.l.** Via dell'Industria 32 35013 CITTADELLA (PD)

dichiariamo sotto la nostra esclusiva responsabilità che il prodotto

## LAVASCIUGA PAVIMENTI:

## **MODELLO: E110 – M110**

N°. TELAIO:

al quale questa dichiarazione si riferisce è conforme alle seguenti norme:

- Sicurezza del macchinario, Concetti fondamentali, principi generali di progettazione Specifiche e principi tecnici - UNI EN 12100-1, UNI EN 12100-2
- Sicurezza del macchinario. Distanze di sicurezza per impedire il raggiungimento di zone pericolose con gli arti superiori.UNI EN 294.
  - Sicurezza del macchinario. Spazi minimi per evitare lo schiacciamento di parti del corpo. UNI EN 349.
  - Sicurezza degli apparecchi elettrici d'uso domestico e similare. Parte generale EN 60335-1 (1994) + A11(1995) + A1(1996) + A2(2000) + A13(1998) + A14(1998) + A15(2000) + A16(2001)
  - Sicurezza degli apparecchi elettrici d'uso domestico e similare. Parte 2: Norma particolare per macchine automatiche per il trattamento dei pavimenti per uso industriale e collettivo EN 60335-2-72 (1998) + A1(2000)
  - Compatibilità elettromagnetica Parte 6.3 Norma generica di emissione per ambiente residenziale, commerciale ed industria leggera - EN 61000-6-3 (2001)
  - Compatibilità elettromagnetica Parte 6.1 Norma generica di immunità per ambiente residenziale, commerciale ed industria leggera - EN 61000-6-1 (2001)

in base a quanto previsto dalle Direttive: 98/37/CEE, 73/23/CEE, 89/336/CEE, 92/31/CEE, 93/67CEE, 93/68CEE

#### LEGALE RAPPRESENTANTE

**GIANFRANCO LAGO** 

fogo of from

CITTADELLA 10/02/12