





# *INSTRUCTION MANUAL*

*E65 TRAC M*

*E75/2 TRAC M*

*E83 TRAC M*



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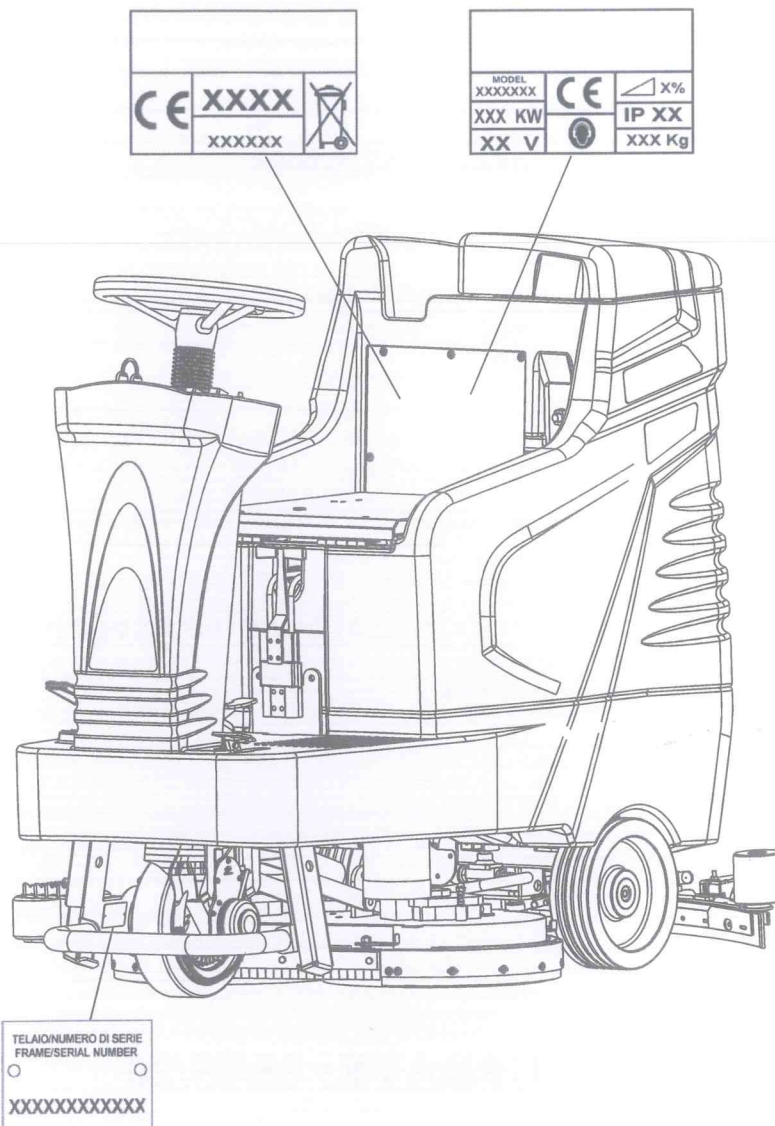
# INTRODUCTION

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 for 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 with the EEC directives and show the EC 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 EC DIRECTIVE 2006/42, 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 (THEY ARE USUALLY ELECTRICAL COMPONENTS)



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



## EMERGENCY SITUATIONS

ONLY EXTINGUISH FIRES WITH POWDER FIRE EXTINGUISHERS



## 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 inserted.
- 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.

### IMPORTANT COMMUNICATION

#### WARNING

DURING THE LAST FEW YEARS, A NEW AGGRESSIVE SOLVENT-BASED DETERGENT TYPE WAS MADE AND DISTRIBUTED IN THE MARKET. THIS DETERGENT IS CURRENTLY NAMED AS "DETER-SOLVENT".

EVEN IF THE SOLVENT CONTAINED IN THE DETERGENT IS OBTAINED FROM THE FRUITS, IT STILL HAS TO BE CONSIDERED AS "SOLVENT".

THE POLIETHYLENE MATERIAL USED IN THE SCRUBBER TANKS IS MIXED WITH A % OF RUBBER.

THE "DETER-SOLVENT" PRODUCT, IF LEFT IN THE SCRUBBER'S TANKS FOR A LONG PERIOD OF TIME COULD ATTACK THE RUBBER'S MOLECULAS, CAUSING THE TANK TO SWELL AND CRACK.

IF THE "DETER-SOLVENT" PRODUCT IS USED, IT'S MANDATORY TO RINSE THE TANKS PROPERLY WHEN THE MACHINE STOPS WORKING.



## 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 controls with cloths soaked in water or a detergent solution.

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

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

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

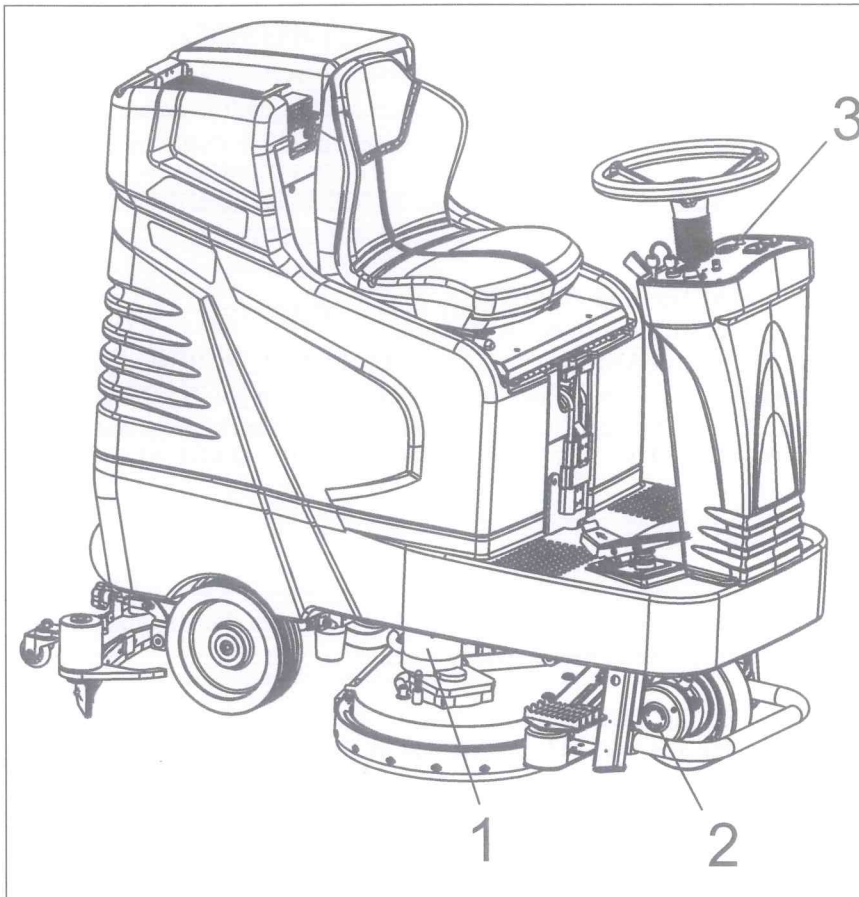
Any maintenance and cleaning operation must be carried out with the machine off, with all the mechanisms still, after the hot sections have cooled down and with the battery disconnected.

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;
- clean the clean water filter, empty the filter protection and drain the water completely from the system;
- clean the machine inside and outside. Avoid washing the machine using direct water jet, pressurized water, or corrosive substances;
- keep the brushes and the squeegee raised;
- remove the key;
- remove the battery lead connections;
- keep the machine in a protected place;
- keep the machine within a temperature range of 5°C / 40 °C;
- keep the machine within a humidity range of 30°C / 80 °C.



### WARNING

When cleaning the machine, avoid using direct water jet, pressurised water, or corrosive substances on the following parts of the machine:

- The brushes gear motors (pos. 1);
- The drive motor (pos. 2);
- The instrument panel (pos. 3).





## 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 bad weather conditions, whether in motion or still;
- Temperature of usage of the machine must be kept within + 5 °C / + 40 °C;
- Humidity should be kept within 30% / 80 %.



## RESIDUAL RISK

**Residual risk is considered as a potential danger, which is impossible to eliminate or partially eliminate, that can cause harm to the operator if they do not follow correct practices in the work place.**

Despite the safety devices provided by Eureka S.p.A, some residual risks, as described here below, remain:

- 1) Risk of electric motor heating, which can lead to burns if contact is prolonged  
WAIT FOR AN ELECTRIC MOTOR TO COOL BEFORE TOUCHING IT.
- 2) Risk of rolling  
SLOW DOWN WHEN WORKING ON AN INCLINE.
- 3) Risk of collision  
SLOW DOWN WHEN WORKING ON WET OR SLIPPERY SURFACES IN ORDER TO AVOID COLLISIONS WITH PEOPLE OR OBJECTS.
- 4) Risk of injury to people  
DO NOT STOP IN THE AREA WHERE A MACHINE IS WORKING
- 5) Risk of fire or explosion during battery charging, with risk of burns or death.  
NEVER APPROACH THE BATTERY CHARGING AREA WITH AN OPEN FLAME DURING CHARGING.  
BATTERY CHARGING MUST BE CARRIED OUT IN A VENTILATED AREA, WHICH IS PROTECTED FROM OPEN FLAMES OR EXTERNAL AGENTS THAT COULD CREATE DANGEROUS SITUATIONS.  
BEFORE CHARGING, CAREFULLY READ THE INSTRUCTIONS IN THE MANUAL AND THE BATTERY SPECIFICATIONS.

### 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 to update the manual with the documentation that the Manufacturer will send if modifications are made to the machine.

## DISPOSAL



### SPENT OILS

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

They must be given to authorised 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 authorised 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 authorisation (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 authorised 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 TANK SOLUTION

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

## TRANSPORT – HANDLING



### TRANSPORT

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, inform the forwarder.

**PAY 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.**



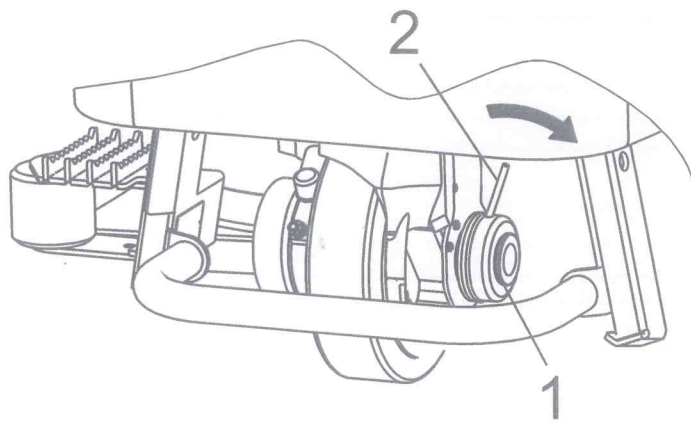
### TRANSPORT- HANDLING

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

- not to load it on the vehicle with a forklift truck in order not to damage it;
- to secure it to the vehicle using belts, ropes and chains.



## TRANSPORTING THE MACHINE BY MANUAL PUSHING



The machine is equipped with an electromagnetic brake (pos. 1) that keeps the machine braked when off or when the drive pedal is not pushed.

When moving the machine manually, the brake must be disengaged by pulling the lever (pos. 2) into the position indicated by the arrow and by keeping it in said position while moving the machine.

Move the machine at a walking pace, do not tow it with fork lifts.

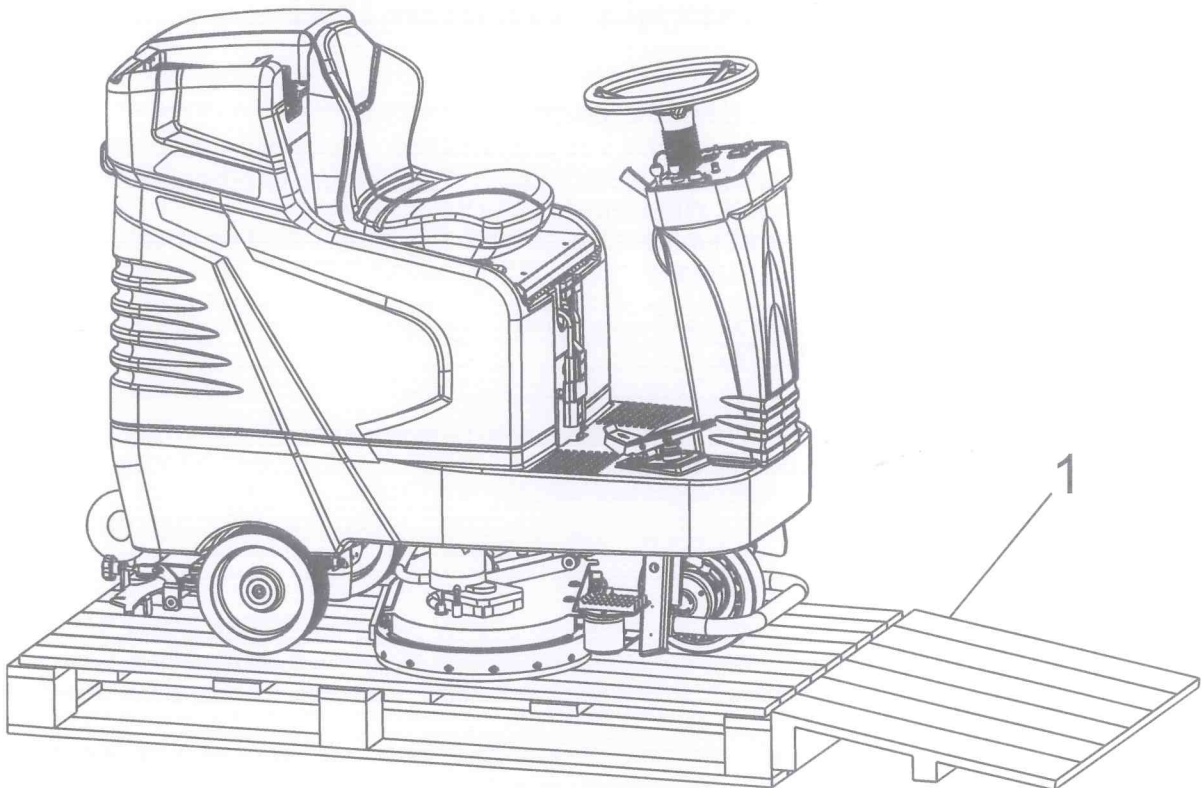


## UNPACKING

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

- squeegee;
- batteries, cables fitted with connectors, terminals and terminal covers;

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 any other devices;
- Disengage the electric brake on the front wheel as explained above;
- Make use of the inclined ramp.

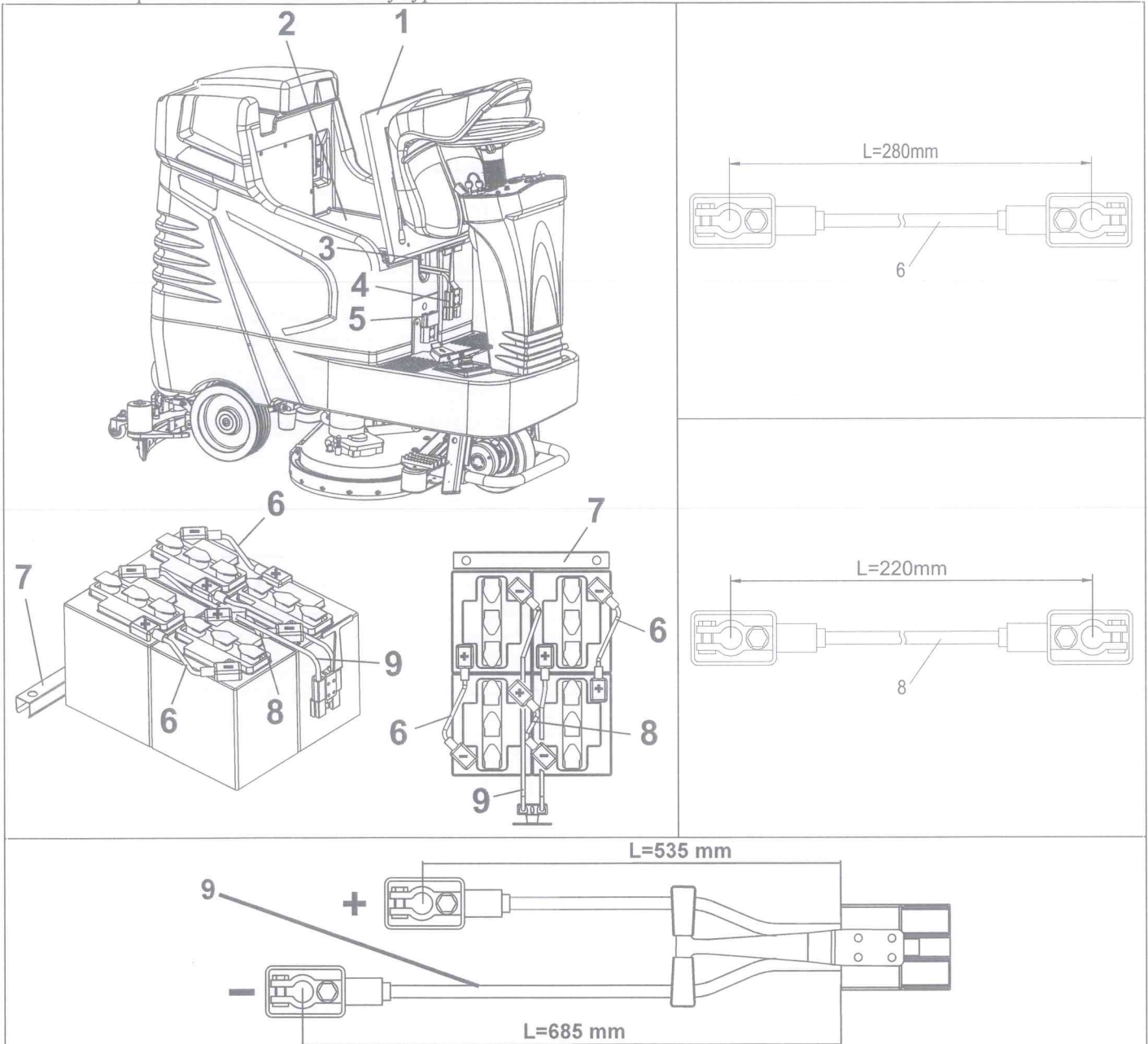
**CAUTION: DO NOT USE A FORKLIFT TO REMOVE THE MACHINE FROM THE PALLET AS IT MAY CAUSE DAMAGE TO THE MACHINE.**



## INSTALLING BATTERIES

**CAUTION: USE PROTECTIVE GLOVES AND GOGGLES WHEN HANDLING BATTERIES, AVOIDING ANY CONTACT WITH THE ACID INSIDE THE BATTERIES.**

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

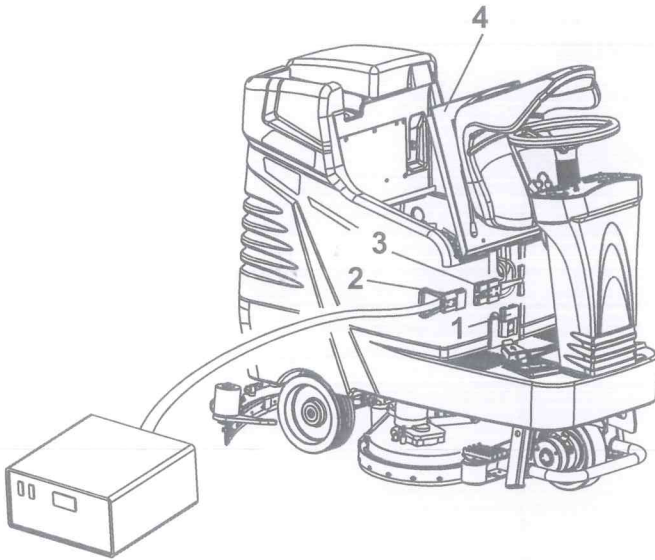


Follow the instructions below to mount the batteries to the machine:

- Park the machine on a levelled area, put on the brake and remove the key;
- Unplug the mobile connector (pos. 4) from the fixed connector (pos. 5);
- Open the hood of the seat (pos. 1);
- Position the four 6V batteries into the battery box inside the battery compartment (pos. 2), if necessary position the spacer (pos. 7) as shown in the figure;  
**BE VERY CAREFUL NOT TO TIP OVER THE BATTERIES AS ACID COULD SPILL AND DAMAGE THE MACHINE.**
- Ensure that the poles of the batteries are clean and apply a thin layer of Vaseline;
- Use the cables (pos. 6-8) provided with the machine and connect the batteries, as shown the in the figure;
- Insert the cables (pos. 9) through the provided opening on the tank (pos. 3) and connect them to the batteries as shown in the figure;
- Connect the mobile connector (pos. 4) to the fixed connector (pos. 5).



## RECHARGING BATTERIES USING AN EXTERNAL CHARGER



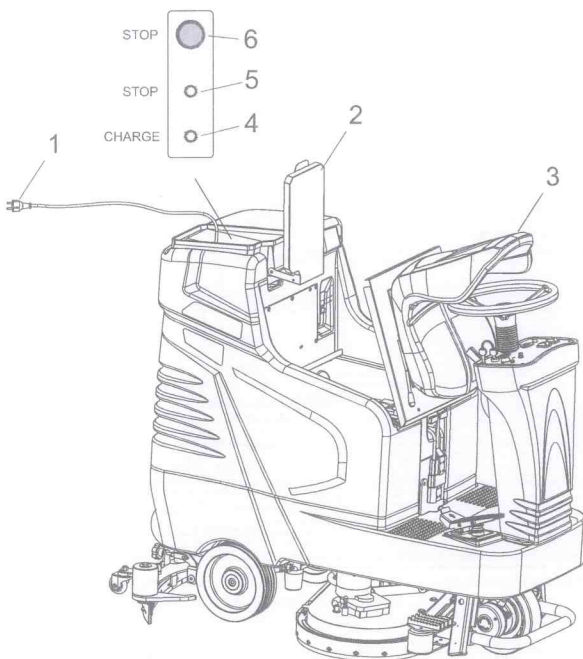
Follow the instructions below to charge the batteries:

- Stop the machine in a levelled area and turn it off;
- **Make sure to read the battery charger instruction manual before charging the batteries;**
- **When charging the battery always do so in a well-ventilated area;**
- Open the hood of the seat (pos. 4), unplug the mobile connector (pos. 3) and connect it to the battery charger connector (pos. 2);
- Charge the batteries at no more than one twentieth of their rated capacity;
- **Once the batteries are charged make sure to check the electrolyte level and if necessary fill it up only using distilled water;**
- Reconnect the mobile connector (pos. 3) to the fixed connector (pos. 1);
- It is recommended to read the battery user manual for further advice on charging the batteries;
- The gas released during the charging process can cause explosions if it meets 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;
- In case of contact wash thoroughly with water;
- Do not place metal objects on the battery;
- Do not fill the battery with sulphuric acid or other products.



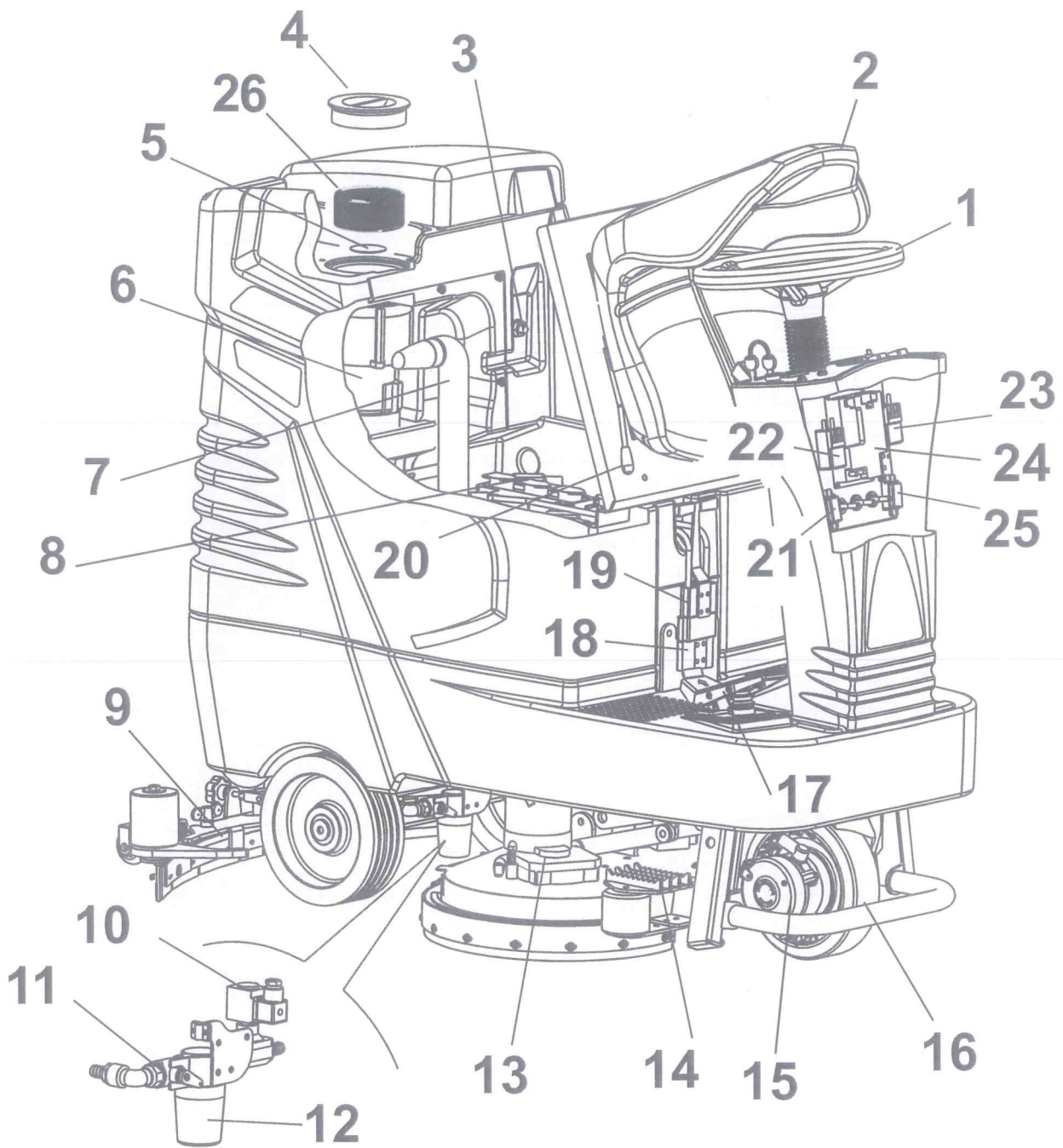
## RECHARGING BATTERIES USING THE CHARGER ONBOARD THE MACHINE (OPTIONAL)



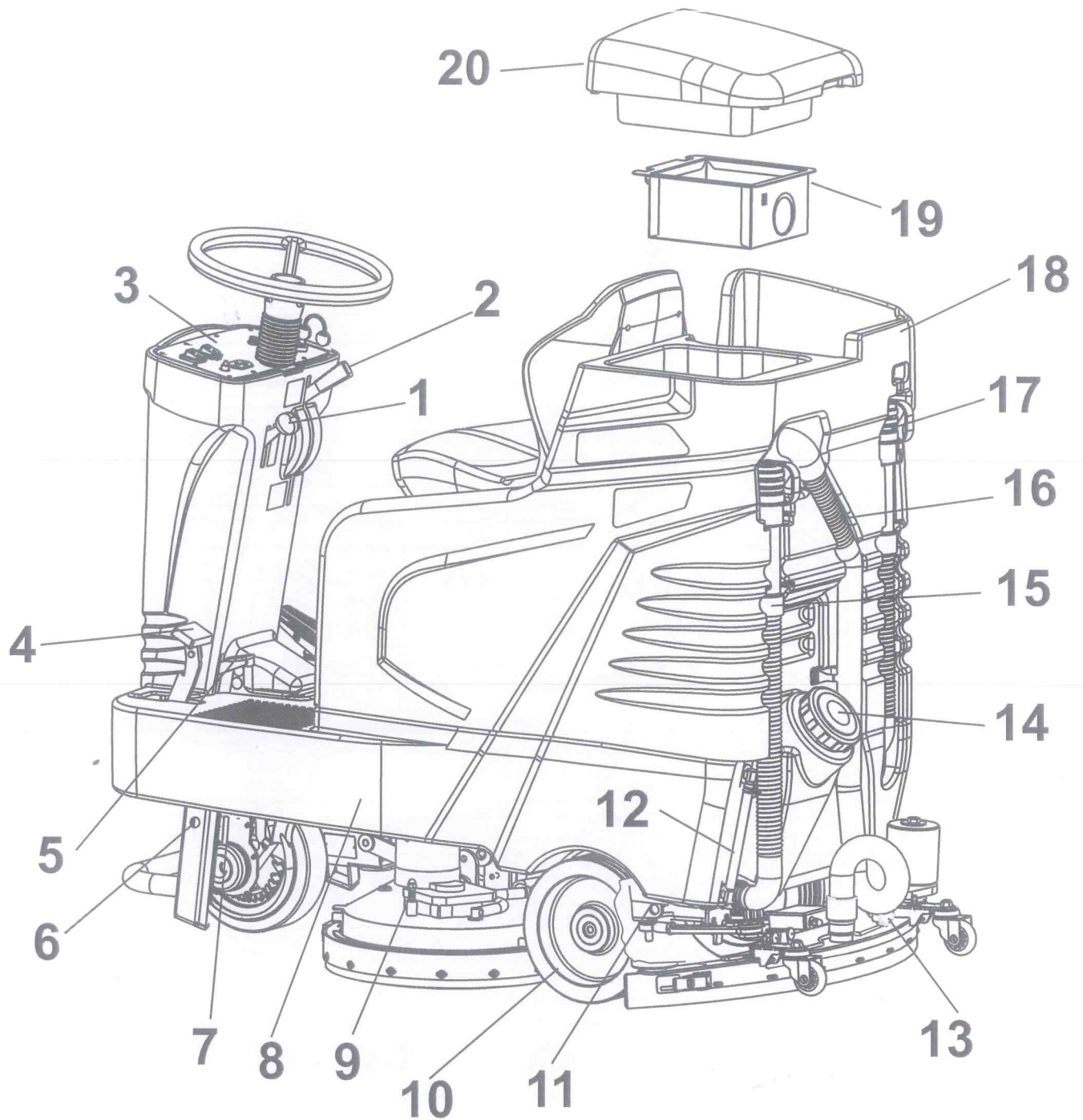
Follow the instructions below to charge the batteries:

- Stop the machine in a levelled area and turn it off;
- **Before charging the battery make sure to read the battery charger instruction manual supplied with the machine;**
- **When charging the battery always do so in a well-ventilated area;**
- Open the hood of the seat (pos. 3);
- Open the hood containing the charger pos.2. **CHARGER HOOD MUST REMAIN OPEN FOR THE DURATION OF CHARGE.**
- Uncoil the cable from the cable reel located on the battery charger and connect the plug (pos. 1) into a standard power socket; **WARNING: WHEN PLUGGING THE BATTERY CHARGER INTO THE ELECTRICAL SOCKET, THE MACHINE FUNCTIONS ARE AUTOMATICALLY DISABLED;**
- At the top of the charger are located two LEDs and a button. While charging the battery the red LED CHARGE (pos 4) turns on. Once the battery charging is completed the green LED STOP lights (Pos. 5). To stop charging press the red button STOP (pos. 6). Once the charging is stopped the green LED STOP (pos. 5) lights. To resume charging disconnect the mains plug and plug it again;

- **Once the batteries are 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 meets 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;
- In case of contact, wash thoroughly with water;
- Do not place metal objects on the battery;
- Do not fill the battery with sulphuric acid or other products.



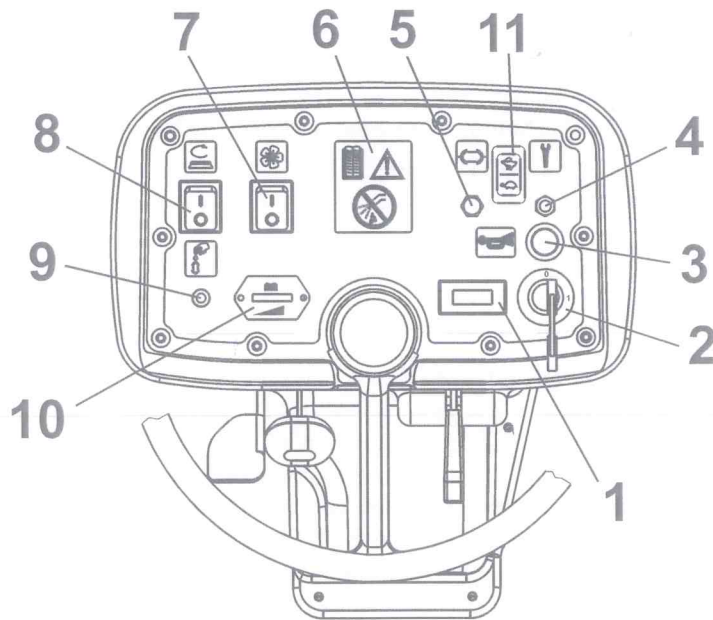
- |  |  |
|--|--|
| 1. Hand-wheel                                      | 14. Easy lift pedal                      |
| 2. Seat  | 15. Drive wheel                          |
| 3. Max. level floating device of the recovery tank | 16. Front wheel                          |
| 4. Vacuum motor filter inspection cap              | 17. Forward and reverse foot pedal       |
| 5. Vacuum motor filter                             | 18. Fixed connector                      |
| 6. Vacuum motor                                    | 19. Mobile connector                     |
| 7. Vacuum motor discharge pipe                     | 20. Seat adjusting lever                 |
| 8. Batteries                                       | 21. Fuse holder                          |
| 9. Squeegee  | 22. Remote-control switch                |
| 10. Solenoid valve                                 | 23. Remote-control switch                |
| 11. Solution faucet                                | 24. Drive control card                   |
| 12. Solution filter                                | 25. Fuse holder                          |
| 13. Brush motor                                    | 26. Removable filter of the vacuum motor |



1. Solution adjustment lever	11. Machine rear anchoring point
2. Squeegee lifting lever	12. Solution tank level
3. Control panel	13. Squeegee inclination adjustment knob
4. Brush plate lifting pedal	14. Solution tank filling cap
5. Brush plate pedal release lever	15. Solution tank discharge hose
6. Rear anchor point	16. Squeegee vacuum pipe
7. Electric brake manual release	17. Recovery tank drain pipe
8. Solution tank	18. Recovery tank
9. Brush release peg	19. Material collection box
10. Rear wheel	20. Recovery tank cover

# MAIN FUNCTIONS AND CONTROLS

## CONTROL PANEL

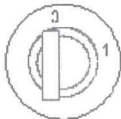


1



HOUR METRE (OPTIONAL)

2



KEY-OPERATED SWITCH

Turn it clockwise (position 1) to turn on the machine.

**WARNING: After turning off the machine by the key, wait until 3 -4 seconds before starting it again**

3



HORN SWITCH

Press this button to emit the sound.

4



RED LIGHT: DRIVE ALARM

Indicates any faults in the drive board of the drive motor.

The red indicator light is on during normal operation. The light will start flashing to indicate a fault in the drive system.

The number of flashes indicates the type of fault (consult the troubleshooting table).

5



CONTROL PANEL INSTRUMENT PROTECTION FUSE

5A glass fuse used to protect the instruments mounted on the control panel.

6



WARNING SYMBOLS

The symbol on the left always recommends using the instruction manual to find any information on the machine, whereas the symbol on the lower part of the machine warns the operator not to get the control panels wet as the electrical parts could get damaged.

7



VACUUM BUTTON

Push the switch to position 1 to turn on the vacuum.

Push the switch to position 0 to turn off the vacuum.

The vacuum function could deactivate automatically if the solution tank is too full. The machine is equipped with a float that turns off the vacuum when the tank reaches its maximum level.



### BRUSH DRIVE BUTTON

Push this switch to position 1 to activate the brush function.

The brushes will start spinning when the brush plate is lowered and once the forward and reverse gear pedal is pushed.

When the pedal is released the brushes will spin for another 2 seconds before stopping. The solenoid valve is connected to the brush function; it opens and closes the solution flow automatically.

Push this button to position 0 to stop the brushes and close the solenoid valve.

### BRUSH MOTOR PROTECTOR FUSE

When the brush motors exceed a power draw the fixed consumption, the fuse will engage and stop the motors.

Wait 1-2 minutes then press the fuse button and the brushes will resume operation. If it occurs repeatedly, check to see if there are any objects that prevent the brushes from spinning freely or if the type of brushes is suited for the type of floor.

### BATTERY CHARGING INDICATOR

The green LED light indicates that the battery is charged.

**When the red light comes on after about 20 seconds, the brush motors will stop running. Go to the charging zone and charge the battery.**

**Warning: The indicator is configured for acid-lead batteries.**

To avoid damaging the batteries, make sure to change the settings when installing other types of batteries (GEL, AGM, etc).

**In case different batteries are fitted (GEL, AGM, etc.) the setting must be changed to avoid damaging the batteries. (SEE PAGE 18)**

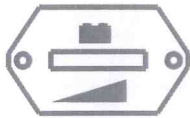
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9



10



11



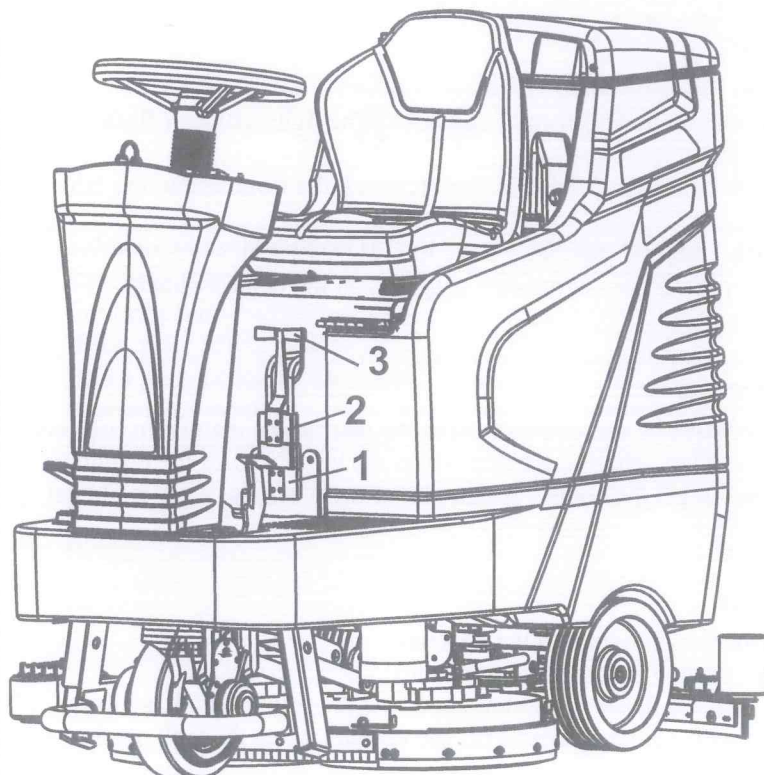
### HIGH/LOW SPEED BOTTON

Pushing the hare side, there is a normal speed

Pushing the turtle side, the forward and reverse speed is reduced of a 50%

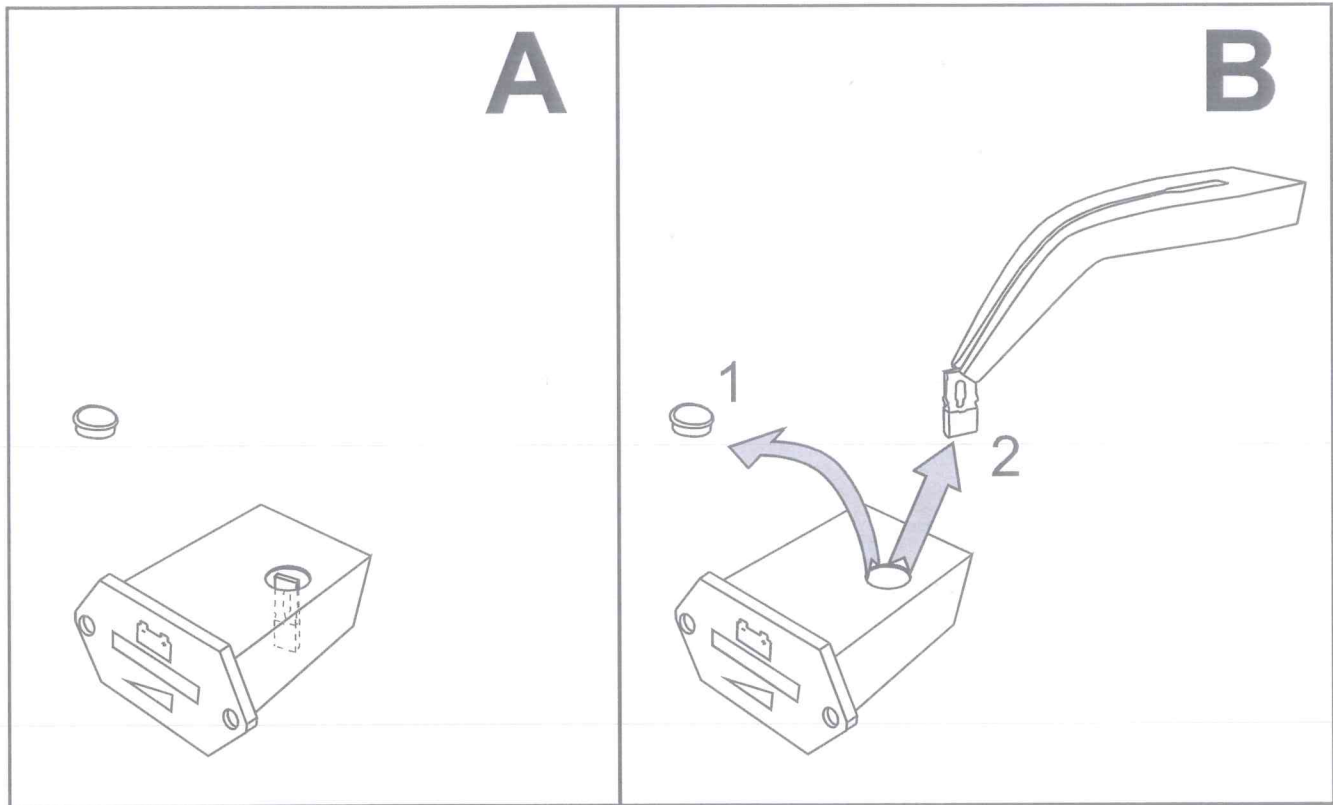


## EMERGENCY SITUATIONS



To stop the machine in case of an emergency and lock all functions, unplug the mobile connector (pos. 2) from the fixed connector (pos. 1) by pulling the handle upwards (pos. 3). To resume the machine's normal operation, plug the mobile connector (pos. 2) into the fixed connector (pos. 1) and push the handle (pos. 3) downwards until it is released.

## SETTING THE CHARGE INDICATOR ACCORDING TO THE BATTERY TYPE



With the jumper inserted, the charge indicator is set for lead acid batteries (FIG.A).

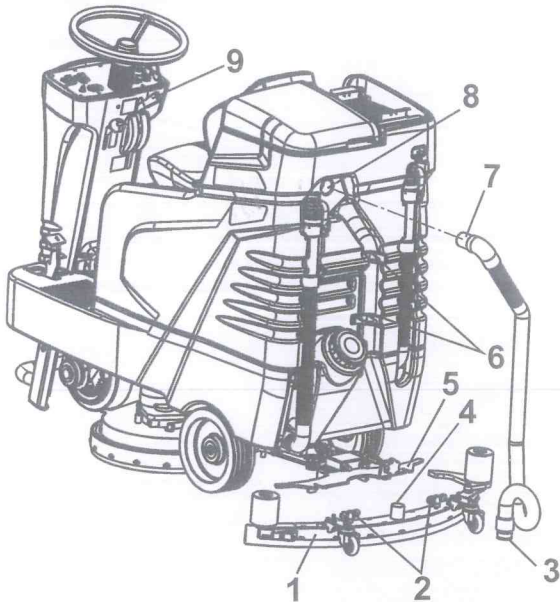
Without the jumper, the charge indicator is set for gel/agm batteries (FIG.B).

If the indicator is set for gel/agm batteries and you want to install lead acid batteries, please contact EUREKA for the jumper.



## INSTALLING THE SQUEEGEE

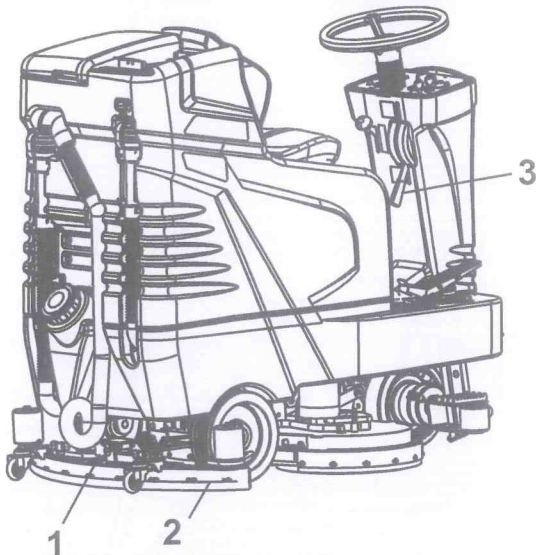
Follow the instructions below to assemble the squeegee:



- Park the machine in a levelled area, turn it off and remove the keys;
- Lift the squeegee support with the provided lever (pos. 9);
- Place the squeegee (pos. 1) in the support (pos. 5) and centre the knobs (pos. 2) into the slits of the support (pos. 5);
- Once it is placed correctly, fix the knobs (pos. 2);
- Place the squeegee pipe from the curved end (pos. 7) into the hole provided in the tank (pos. 8) and push it thoroughly until it fits into place;
- Mount the other end of the pipe, the rolled end (pos. 3), into the squeegee sleeve (pos. 4);
- Place the pipe into the provided locking springs (pos. 6).

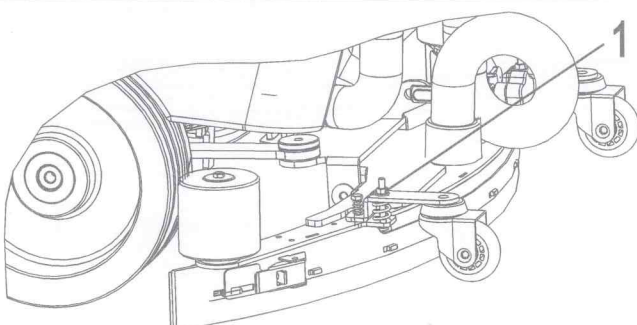


## ADJUSTING THE SQUEEGEE



- **Adjust the squeegee inclination** using the knob (pos. 1).  
The knob adjusts the squeegee so as to have a constant pressure throughout the entire length of the blade (pos. 2).  
If there is too much pressure on the external tips and little pressure on the central zone, turn the knob anti-clockwise.  
If there is less pressure on the tips and too much pressure on the central zone, turn the knob clockwise.  
To make the adjustments, lower the squeegee using the lever (pos. 3), turn on the vacuum and drive slowly. Monitor the distribution of the pressure on the blade and if necessary correct the inclination as described above.

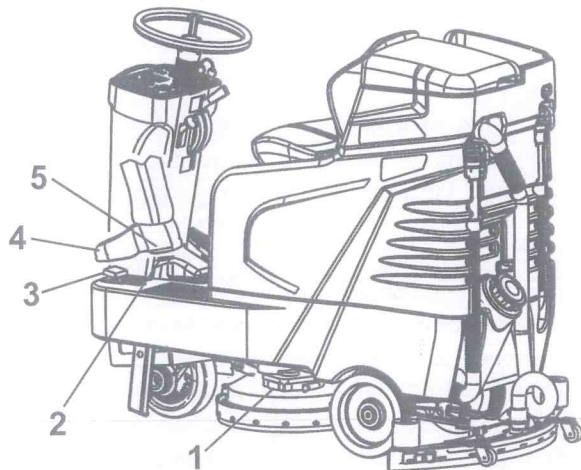
## ADJUSTING THE SQUEEGEE WHEELS



- **Pressure adjustment**, using the nut for the wheels' adjustment (pos.1)  
This allows for optimal pressure on the blade (position 2 previous picture) 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 1) counter-clockwise.  
For smooth floors, lower the pressure by turning the knob clockwise.

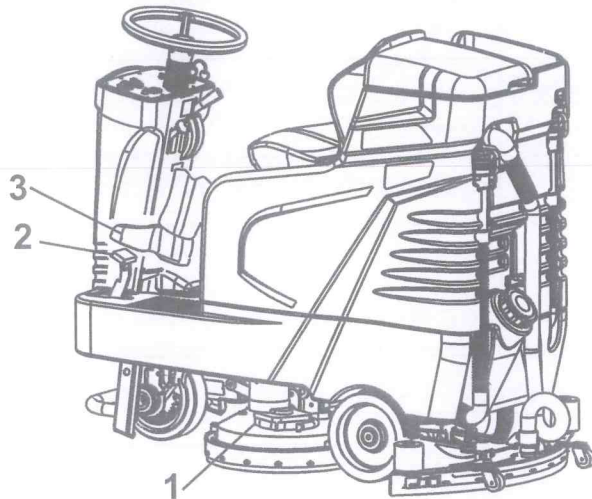


## MOVING THE BRUSH PLATE



Use the pedal (pos. 3) to move the brush plate (pos. 1).  
Follow the instructions below to lower the brush plate:

- Use the heel of the foot (pos. 5) to push the release lever (pos. 2). Use the toes of the foot (pos. 4) to follow the pedal (pos. 3) until the brush plate (pos. 1) leans against the floor.



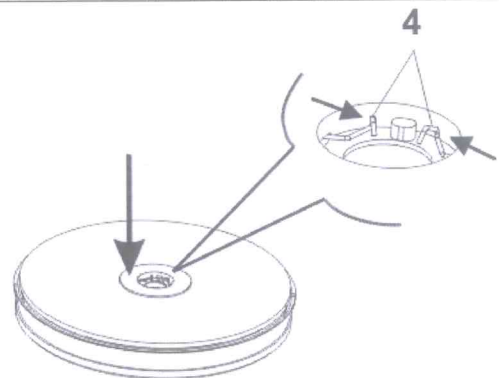
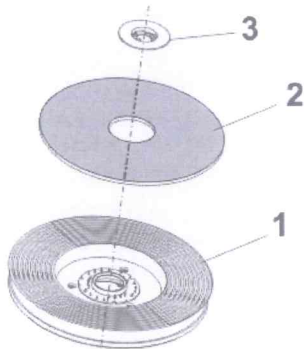
To raise the brush plate (pos. 1) use the foot (pos. 3) and push the pedal (pos. 2) until it is locked into place.



## INSTALLING THE ABRASIVE DISC INTO THE DISC PAD HOLDER

The machine can either work with brushes or with different types of abrasive discs mounted on the provided driving devices.

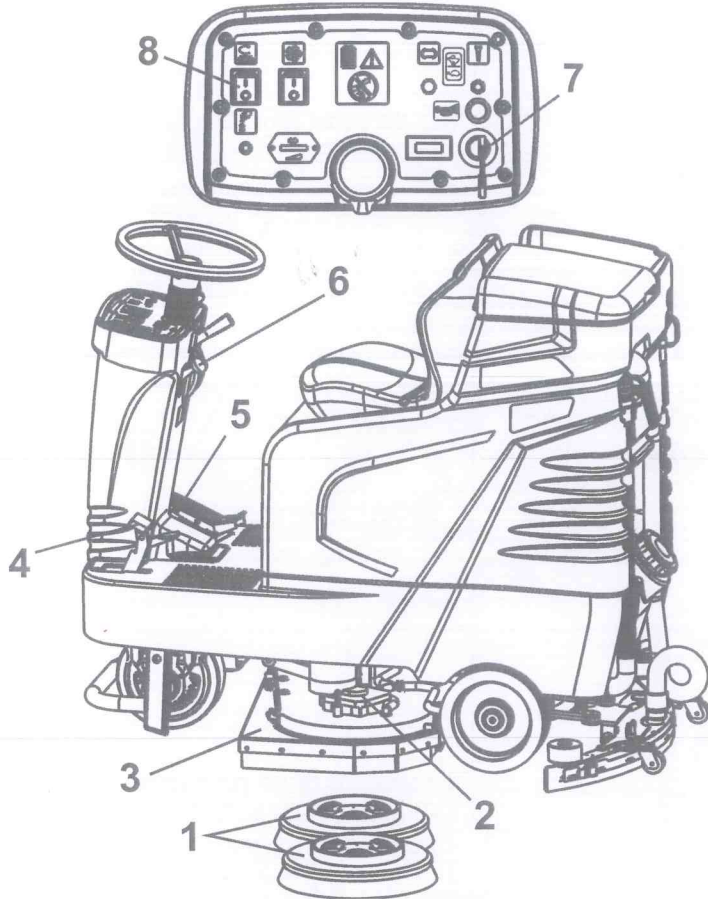
To mount the abrasive disc on the disc pad holder, follow the instructions below:



- Remove the disc lock (pos. 3) from the driving device (pos. 1) by pushing the 2 ends of the fixing spring (pos. 4) against each other;
- Position the abrasive disc (pos. 2) and centre it on the driving device (pos. 1);
- Place the disc lock (pos. 3) on the centre and apply force pushing it until the spring (pos. 4) locks into place. Use the palm of the hand to do so or a foot if the driving device is placed on the floor.



## INSTALLING BRUSHES AND ABRASIVE DISCS

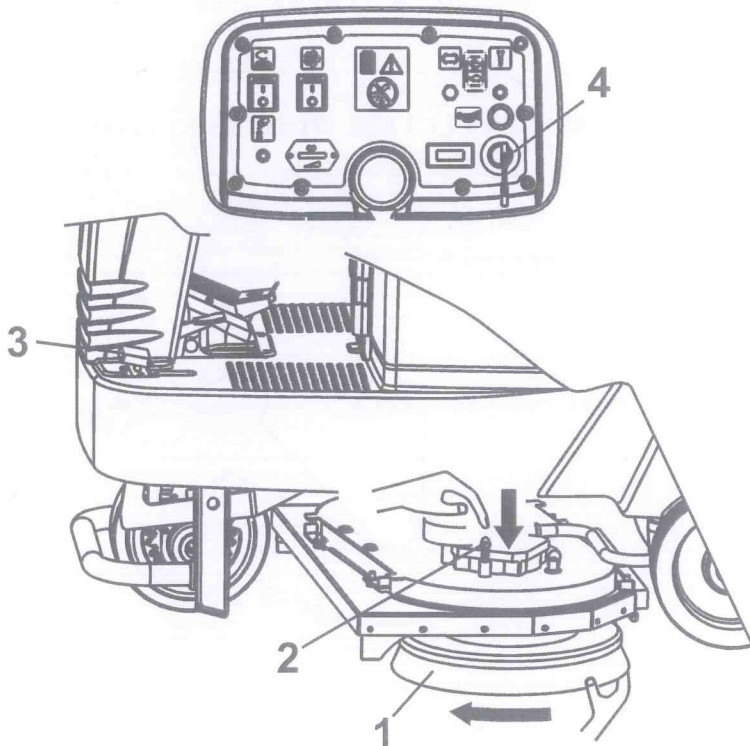


To **attach** the brushes or the driving devices with the abrasive discs, follow the instructions below:

- Turn the key (pos. 7) to position 0 to turn off the machine, making sure that the brush plate is raised;
- Position the brushes or disc pad holders (pos. 1) beneath the brush plate (pos. 2) using two hands to lift the splash guard (pos. 3);
- Lower the brush plate (pos. 2) using the pedal (pos. 4) following the instructions on how to move the brush plate;
- Turn the key (pos. 7) into position 1 and push the brush switch into position 8;
- Slightly push the drive pedal (pos. 5). The brush motors will start running and the machine will start to move slowly.  
Go back and forth using the forward and reverse gear until the brushes are locked into place;
- While performing this operation, it is recommended to close the water using the lever (pos. 6) to avoid spills.



## REMOVING BRUSHES AND ABRASIVE DISCS



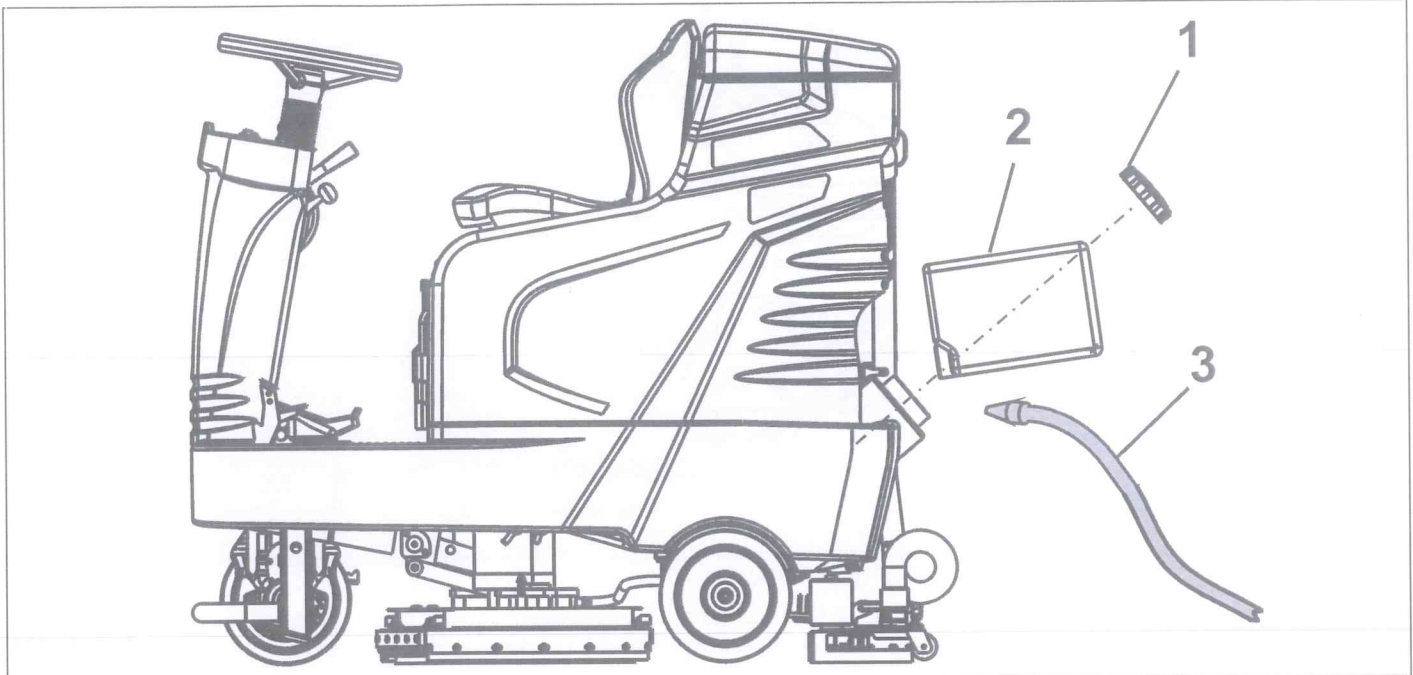
To remove the brushes or the driving devices with the abrasive discs, follow the instructions below:

- Turn the key (pos. 4) into position 0 to turn off the machine;
- Unplug the battery mobile connector from the fixed connector by pulling the handle upwards;
- Use the pedal (pos. 3) to raise the brush plate;
- Press the button (pos. 2) and use one hand to turn the brush (pos. 1) into the direction indicated by the arrow until the brush no longer spins freely.  
At this point, pull towards the direction indicated by the arrow using force until the brush is detached;
- Repeat the same operation on the other brush following the opposite direction.



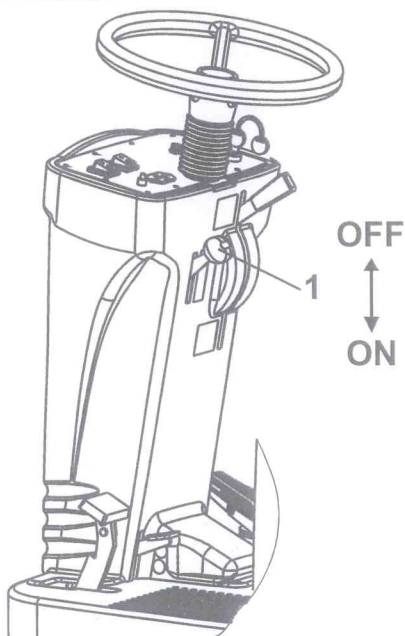
## FILLING THE DETERGENT SOLUTION TANK

The tank should be filled using clean water mixed with appropriate detergent solution suited for the type of floor and based on the condition of the floor. A product suitable for cutting down excess foam should also be used.



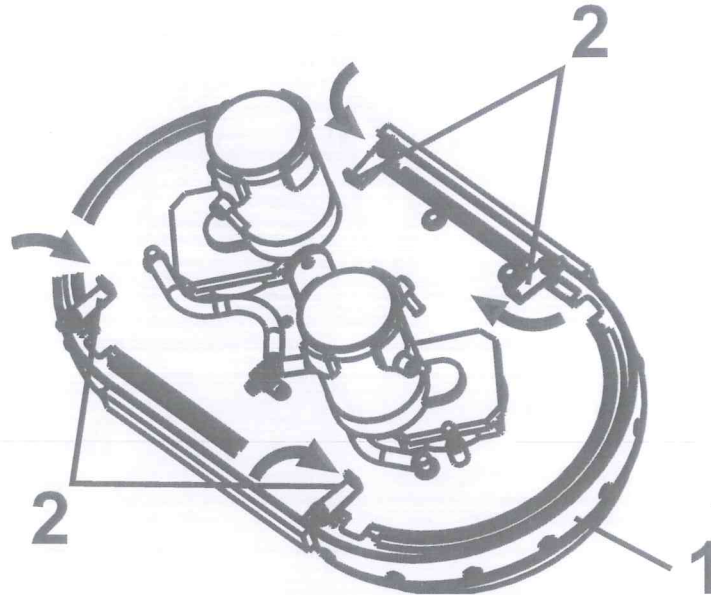
- Go to the rear part of the machine;
- Unscrew the cap (pos. 1);
- Pour the detergent directly from the canister (pos. 2) into the tank. Consult the package for information about the percentage of detergent to use, the mixing procedures and safety measures to keep in mind.  
**Use low-foaming liquid detergents or a suitable product to cut down foam.**
- After pouring the detergent solution, use a rubber hose (pos. 3) connected to the water supply system to fill the tank. The water used to fill the tank must not exceed 40°C.  
**WARNING: DO NOT POUR FLAMMABLE LIQUIDS INTO THE TANK.**
- Once the tank is full, screw the cap back on (pos. 1).

## ADJUSTING THE SOLUTION QUANTITY ON THE BRUSHES (WATER + DETERGENT)



The solution quantity on the brushes can be adjusted using the lever (pos. 1). While in up position, the lever will shut off the flow of the solution completely. Push down the lever gradually so that the valve can open and increase the flow of the solution progressively. Adjust the flow according to the operating speed and the dirt conditions of the floor. A solenoid valve keeps the solution from spilling out when the machine comes into a stop position.

## SPLASH GUARD LIFTING FOR PRE-WASHING



When using the machine to wash floors particularly filthy, it is recommended to pre-wash the floor, allowing the chemical product of the detergent solution to act more effectively to remove dirt.

Therefore, wash the floor without collecting the solution with the squeegee.

During this operation, it is recommended to lift the splash guard of the machine to allow an even distribution of the detergent product on the floor.

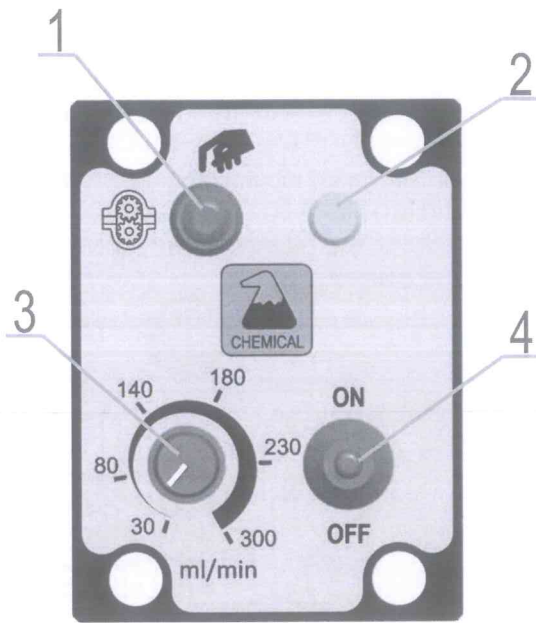
Go over the area again after several minutes in order to dry the floor, once the splash guard is lowered and the vacuum function is engaged.

Follow the instructions below to lift the splash guard:

- Stop the machine in a levelled area, turn off the machine and remove the keys;
- Lower the brush plate following the procedure described above;
- Use one hand to lift the splash guard (pos. 1) upwards;
- Rotate the 4 locking levers into the direction indicated by the arrows. In this manner, the splash guard will remain lifted from the floor.
- Once the pre-wash operation is completed, release the levers (pos. 2) and allow the splash guard to descend (pos. 1).



## DETERGENT DOSING SYSTEM (OPTIONAL)



Fix the tank containing the detergent by strap pos.6 and put in the tank tube POS. 7.

To operate the detergent dosing pump turn ON the toggle switch pos.4. When the pump is on the light Pos.2 comes on green.

**WARNING: THE PUMP DETERGENT DOSING PUMP WORKS ONLY WHEN THE BRUSHES ARE ACTIVE.**

The amount of detergent fed into the solution is adjusted by potentiometer pos.3(The amount of detergent varies from 30 to 300 ml / min depending on the position of the potentiometer as indicated on the dashboard).

To turn off the pump set the switch pos.4 to OFF.

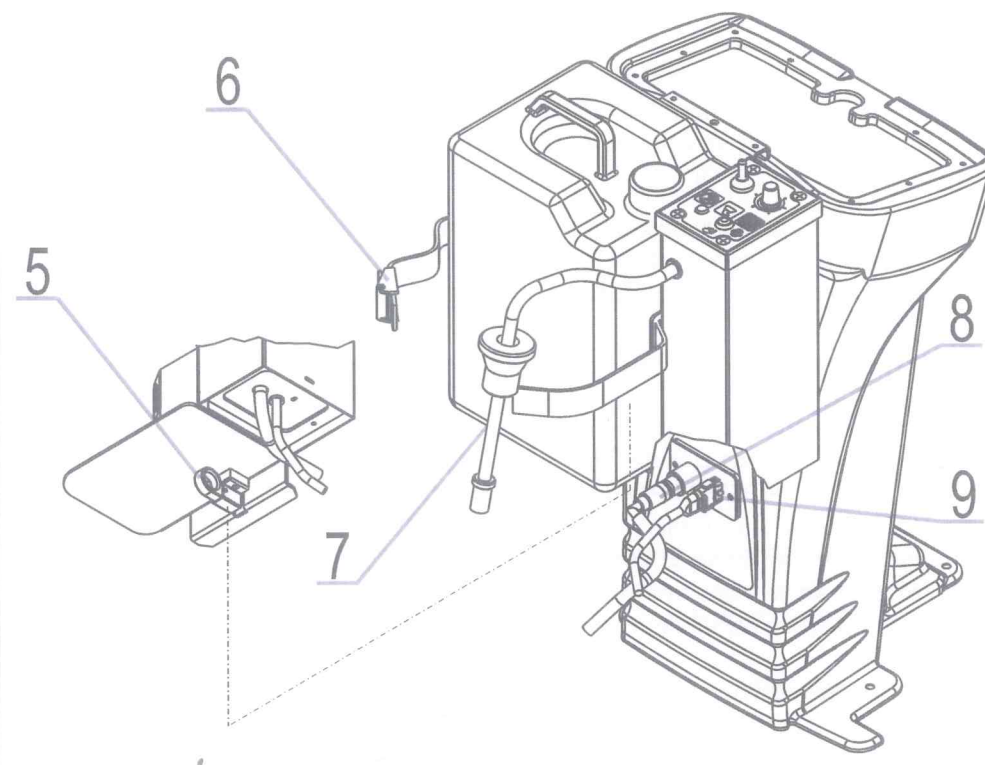
To bleed the circuit, turn the switch pos.4 ON, press the button Pos. 1 and use clean water.

To remove the complete system of detergent dosage off the machine:

- Push the quick release fitting pos.8 towards the machine and pull the tube to disengage;
- Disconnect the connector pos.9;
- Pull the hook positioned under the structure pos.5, lifting the group and remove it from the machine.

To reassemble the kit on the machine, align 3 pegs on the back of the group with the holes on the fixing plate, lower the group that will snap automatically to the machine.

Reconnect the hose and the electrical connector to the machine.





## USING THE MACHINE

Our scrubber-dryers must be operated by authorised staff who have been properly trained. Scrubber-dryers that do not operate properly must be taken out of service immediately.

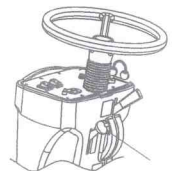
### CHECK BEFORE USE

Make sure to check the following before using the machine:

- Make sure the battery connector is plugged-in;
- Make sure the key is inserted correctly;
- Check the battery charge level.  
The charge indicator located in the instrument panel displays the charging level of the batteries. Make sure to charge the batteries when the battery charging level is low.
- Make sure the brushes or discs are in good condition and mounted correctly;
- Make sure the splash guard mounted on the brush plate is in good condition;
- Check the integrity of the rubbers of the squeegee and ensure they are set properly.

### OPERATION

- Turn the key to position 1;  
**WARNING: After turning off the machine by the key, wait until 3 -4 seconds before starting it again**
- Lower the brush plate and push the brush switch to position 1.  
The brushes will start spinning only when the machine starts moving forward;
- Lower the squeegee and push the vacuum switch to position 1.  
The vacuum will start immediately.  
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;
- Use the provided lever to set the desired solution quantity.  
Before starting the washing operation, check the quantity of solution present in the tank using the gauge located in the rear part of the machine.  
Fill the tank if the quantity is low;
- The working speed can be selected by pressing the slow / fast button: choosing the hare side, the machine works at normal speed; choosing the turtle side the forward and reverse speed is reduced of a 50%;
- **When starting the washing operation, make sure to lubricate the edge of the splash guard blades.**  
**As soon as the brush plate lowers with the detergent solution opened, slowly move the machine back and forth for 1 metre in order to get the splash guard rubber wet. This operation will protect the edge of the splash guard blades and increase their durability;**
- To avoid damaging the floor, be very careful not to stop the machine over the same area while the brushes continue to spin;
- When the operator stops the machine, the brushes will stop spinning automatically 2 seconds after the drive pedal is released. The flow of the solution will shut off when closing the solenoid valve. When resuming the drive operation, the brushes will restart spinning and the solution will restart to flow automatically;
- If the squeegee leaves wet streaks on the floor during the washing operation, it means that there are pieces trapped beneath the rear rubber of the squeegee. Lift the squeegee and remove the trapped pieces. Use a cloth to wipe off the rear rubber if the pieces cannot be removed. In any case, it is always advisable to sweep the floors before washing;
- Before washing floors particularly filthy it is advisable to pre-wash the floors according to the instructions provided above;
- At the end of each washing operation, lift the brush plate and the brushes will stop spinning, shutting off the solenoid valve automatically every time the brush plate is lifted. Disengage the function by pushing the brush button to position 0.  
After lifting the brush plate, proceed for several metres with the squeegee lowered to finish the drying operation. Lift the squeegee using the provided lever and wait for several seconds before turning off the vacuum using the switch, this will prevent water droplets from falling into the floor.



## MAINTENANCE

### INTRODUCTION

SERVICING YOUR SCRUBBER-DRYER REGULARLY AND PERIODICALLY WILL ENSURE BETTER PERFORMANCE AND MORE DURABILITY.

THE FOLLOWING PAGES CONTAIN INFORMATION THAT WILL HELP YOU PLAN THE MAINTENANCE AND CARE FOR THE MACHINE NEEDS.

### WARNING

DO NOT PERFORM ANY MAINTENANCE ON THE MACHINE OR ANY OF ITS COMPONENTS WITHOUT TURNING OFF THE MACHINE AND UNPLUGGING THE BATTERY CONNECTOR.

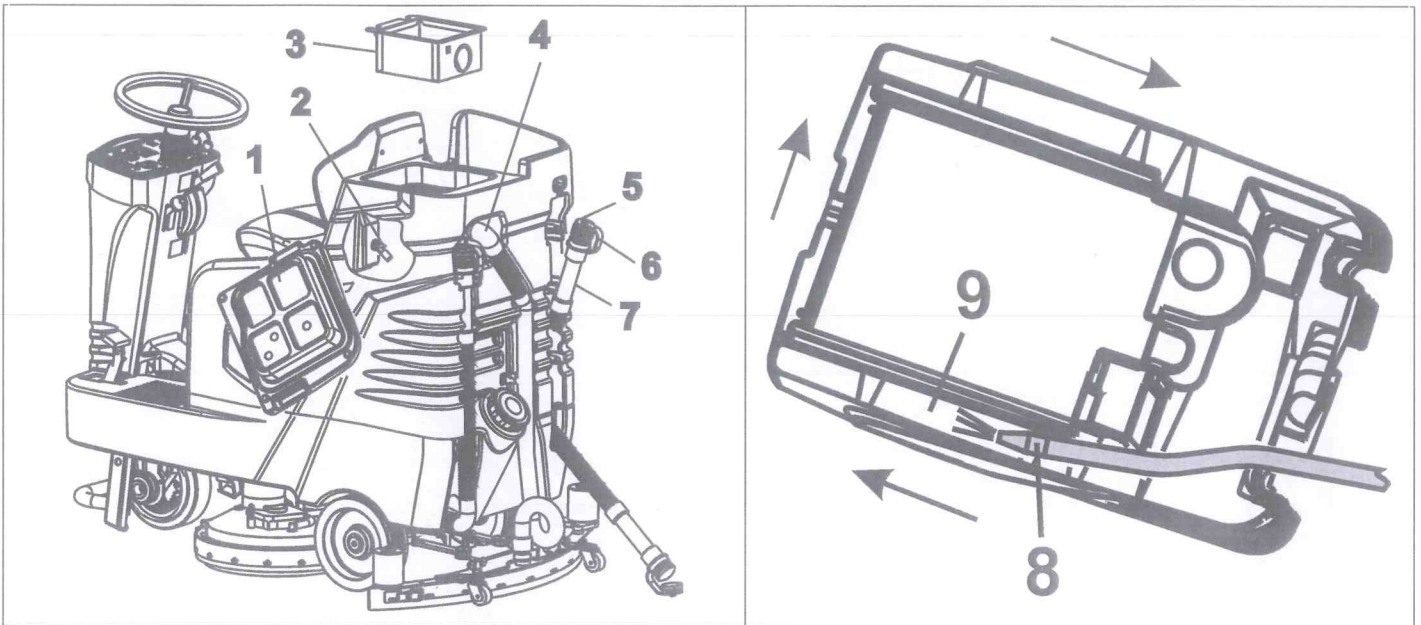
### WARNING

DO NOT TAMPER WITH ANY SAFETY DEVICE.

THESE DEVICES CAN ONLY BE REMOVED WHEN PERFORMING MAINTENANCE BY AN AUTHORISED ASSISTANCE CENTRE (AAC).



## DRAINING AND CLEANING THE RECOVERY TANK



The recovery tank must be drained and cleaned after each washing operation.

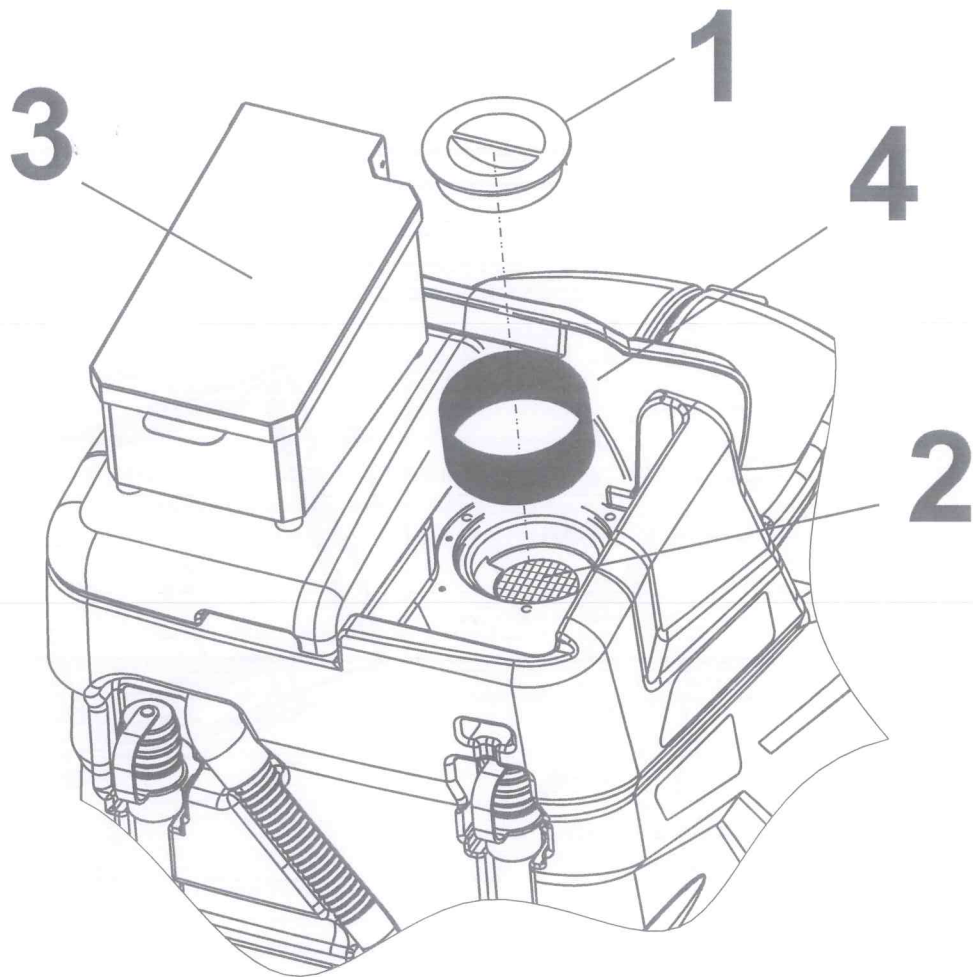
Follow the instructions below to wash and drain the tank:

- Lift the brush plate and turn off the switch on the control panel;
- Lift the squeegee and turn off the vacuum function after 10 seconds, using the switch on the control panel;
- Go to the provided area to drain the tank;
- Turn off the machine and remove the key;
- Remove the cover (pos. 1) and hang it next to the tank;
- Remove the dirt collection box (pos. 3) by lifting it first from the front part to remove it from the tank. Empty the box into the provided waste container.  
Wash the box with water and remove any pieces trapped in the mesh;
- Remove the drain pipe from the dirty water tank (pos. 6) and while keeping the pipe vertically (pos. 5) turn the cap counterclockwise to unscrew it. Part of the pipe is flexible (pos. 7), allowing it to be squeezed to limit the water flow. Once it is open, place the pipe on the ground;
- After draining the tank, make sure to wash the inside thoroughly using water. Fit the water pipe (pos. 8) into the left side of the tank (pos. 9) and run abundant water to wash the front part and right side;
- **Clean the level sensor (pos. 2) very carefully. Do not apply water jet directly onto the sensor as this could damage it. If necessary, clean it using a piece of cloth and remove any deposits (metal residue) that could prevent the float from closing correctly;**
- Wash the squeegee vacuum pipe regularly (pos. 4) to prevent encrustation inside the pipe.





## CLEANING THE VACUUM FILTER



**The machine is fitted with 2 stainless-steel mesh filters, a fix and a removable one, used to protect the vacuum motor. Weekly, or even daily for certain spaces, we suggest checking if filters are clean and if there is material that can block the aspiration**

Follow the instructions below to clean the filter:

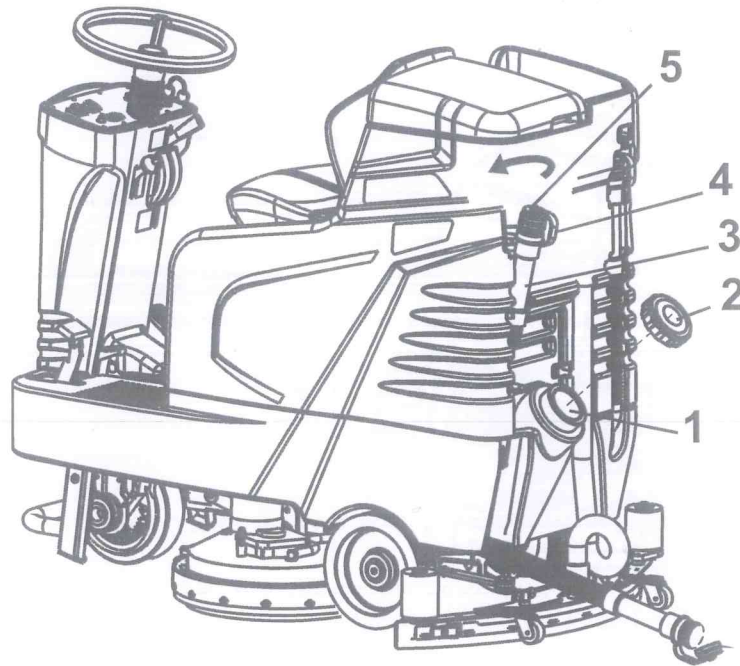
- Stop the machine in a flat area;



- Turn off all the functions and remove the key;
- Move the container of the battery charger pos. 3, if present, above the cover of the recovery tank;
- Unscrew and remove the cap (pos. 1);
- Remove and clean the removable filter (pos. 4);
- Clean the screen without removing it (pos. 2);
- Put the cap (pos. 1) back on and make sure to tighten it correctly.  
If the cap is not tightened properly, this may cause poor vacuum performance;
- Place again the container of the battery charger.



## DRAINING AND CLEANING THE SOLUTION TANK



After completing the washing operation, in order to drain any leftover water from the solution tank and clean the tank, proceed as follows:

- Lift the brush plate and turn off the switch on the control panel;
- Lift the squeegee and turn off the switch on the control panel after 10 seconds;
- Go to the provided area to drain the tank;
- Turn off the machine and remove the key;
- Remove the drain pipe (pos. 4) from the clean water tank and while keeping the pipe vertically, remove the cap (pos. 5) by turning it counter clockwise as indicated by the arrow. Part of the pipe is flexible (pos. 3), allowing it to be squeezed to limit the water flow. Once the pipe is open, place it on the ground slowly;
- Remove the filling cap (pos. 2) and wash the tank using a rubber hose. Try to direct the water flow towards the front part of the machine so as to clean it thoroughly;
- Once the washing operation is completed, close the cap (pos. 2) and put the drain pipe (pos. 4) back with the cap (pos. 5) screwed into place.



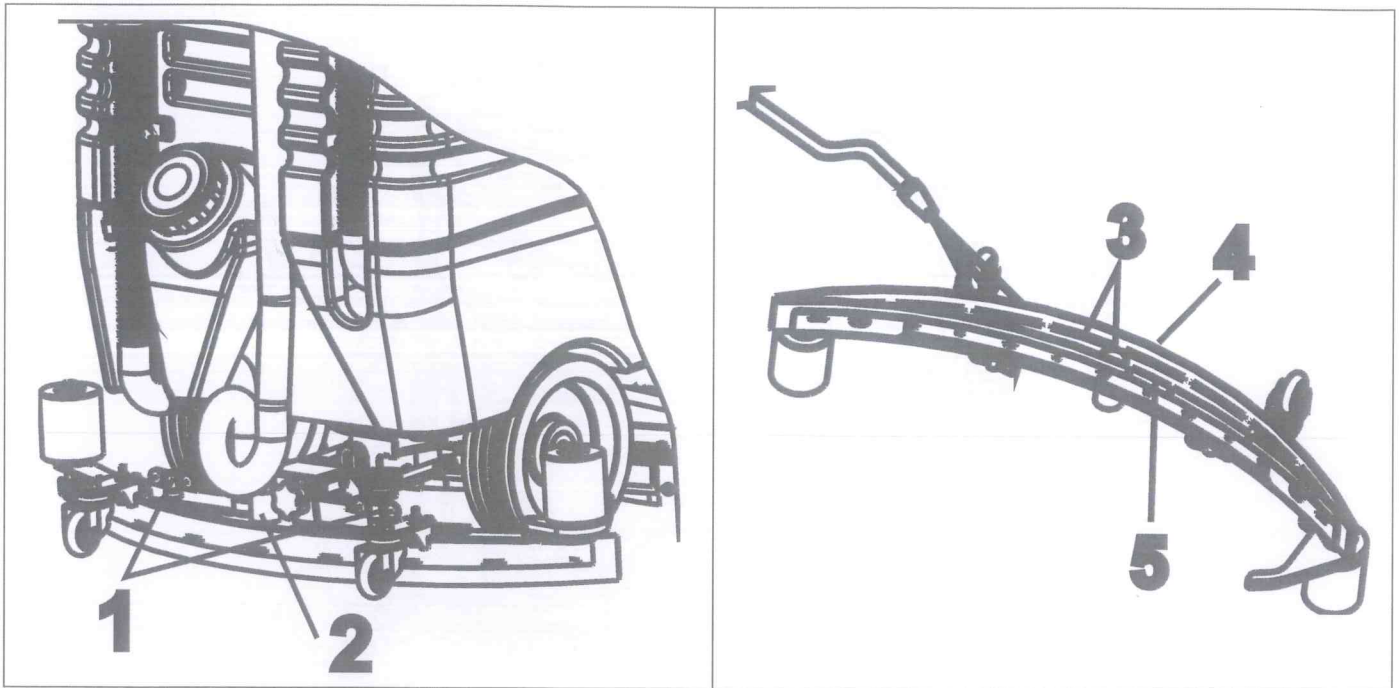
## CHECKING BRUSHES OR ABRASIVE DISCS

After using the machine, remove the brushes or discs following the instructions described above.

- Check the integrity of the brushes and replace them if worn (the length of the lower bristle should be 10 millimetres);
- Check the integrity of the abrasive discs and replace them if worn.



## CLEANING THE SQUEEGEE



Once the washing operation is completed, clean the squeegee and check the integrity of the blades. Proceed as follows:

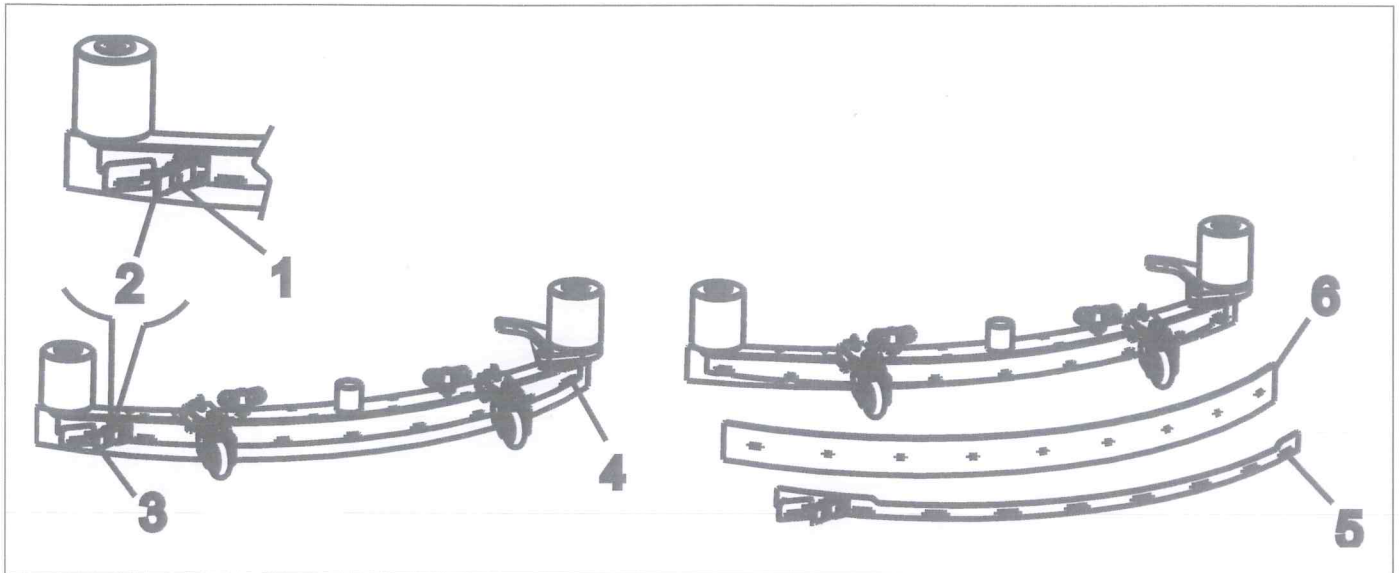
- Lift the brush plate and turn off the switch on the control panel;
- Lift the squeegee using the provided lever and turn off the switch on the control panel after 10 seconds;
- Stop the machine in a levelled area;
- Turn the key to position 0;
- Unscrew both fixing knobs (pos. 1) and remove the squeegee vacuum pipe (pos. 2);
- Remove the squeegee; lay it on the ground facing up (as shown in the figure). Use water to wash and clean the lower part and the mouth of the squeegee (pos. 3), removing any pieces or encrustations for better vacuum performance;
- Use a piece of cloth to wipe off the rear drying blade (pos. 4) and the front drying blade (pos. 5);
- Make sure the blades are in good condition and if necessary rotate them 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 in contact with the floor is not worn out. If the blade is worn out, rotate it or replace it.

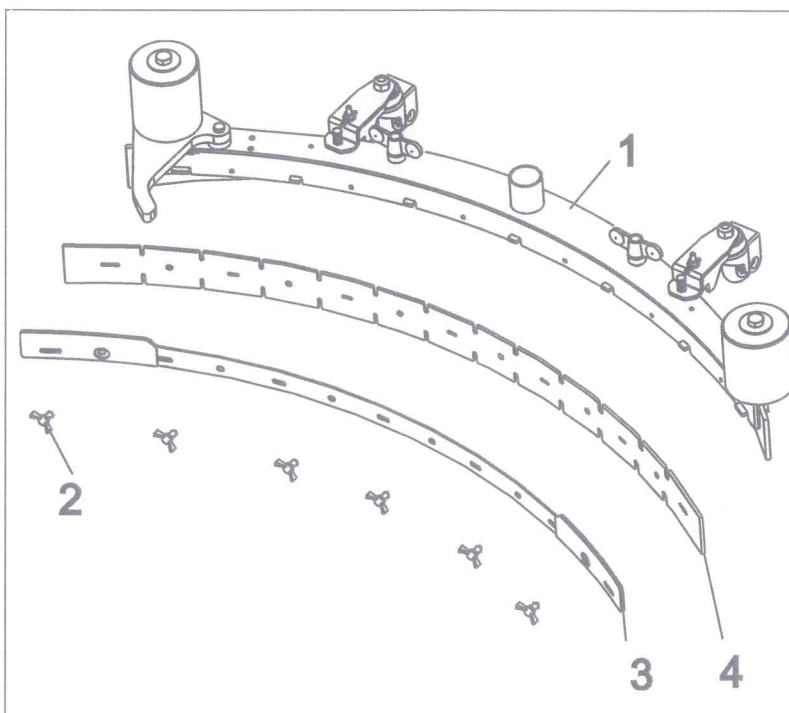
## REPLACING THE REAR BLADE



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

- Remove the squeegee from the machine;
- Remove the blade locking plate (pos. 5) by unlocking the retainer (pos. 3). This retainer is fitted with a safety device that keeps it from opening involuntarily. To release the retainer push the small lever (pos. 1) towards the outer part of the squeegee and pull the lever (pos. 2) towards the rear part of the squeegee.
- At this point, remove the blade locking plate (pos. 5) from the other end of the squeegee (pos. 4).
- Remove the blade (pos. 6).
- Rotate the blade and mount it back so that a new edge is on the drying side.
- Lock the locking plate (pos. 4).
- Hook the retainer (pos. 3) and lock it into place.
- By remounting the blade (6) please pay attention that the blade lays on the floor regularly and uniform in its entire length.

## REPLACING THE FRONT BLADE



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

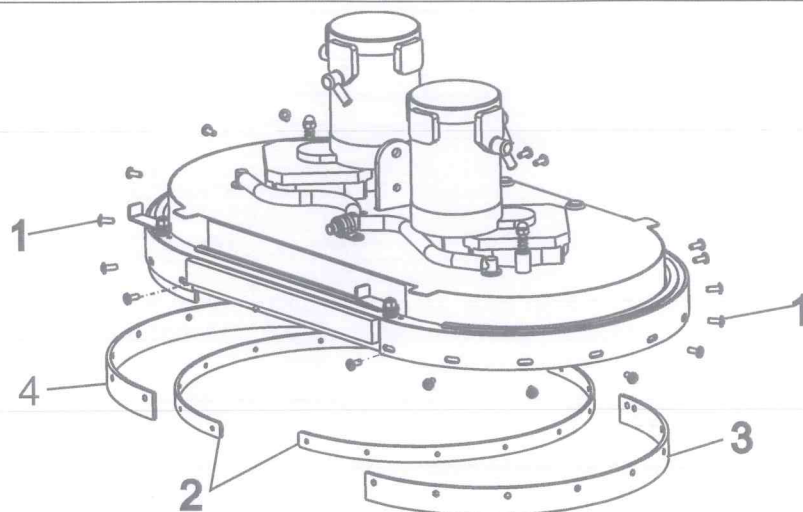
- Remove the squeegee (pos. 1) from the machine;
- Remove the wing screws (pos. 2);
- Remove the blade locking plate (pos. 3);
- Remove the blade (pos. 4);
- If the external edge is in good condition, rotate the blade and mount it back so that a new edge is on the drying side; otherwise replace it with a new one;
- Put the blade locking plate back into place (pos. 3);
- Put the wing screws (pos. 2) back into place and check that the blade (pos. 4) is regular and make sure not to tighten the screws excessively, causing the rubber blade to deform (swell).



## REPLACING THE SPLASH GUARD BLADES

Follow the instructions below to replace the side blades of the splash guard:

- Lift the brush plate and turn off the switch on the control panel;
- Turn off the machine and remove the key.

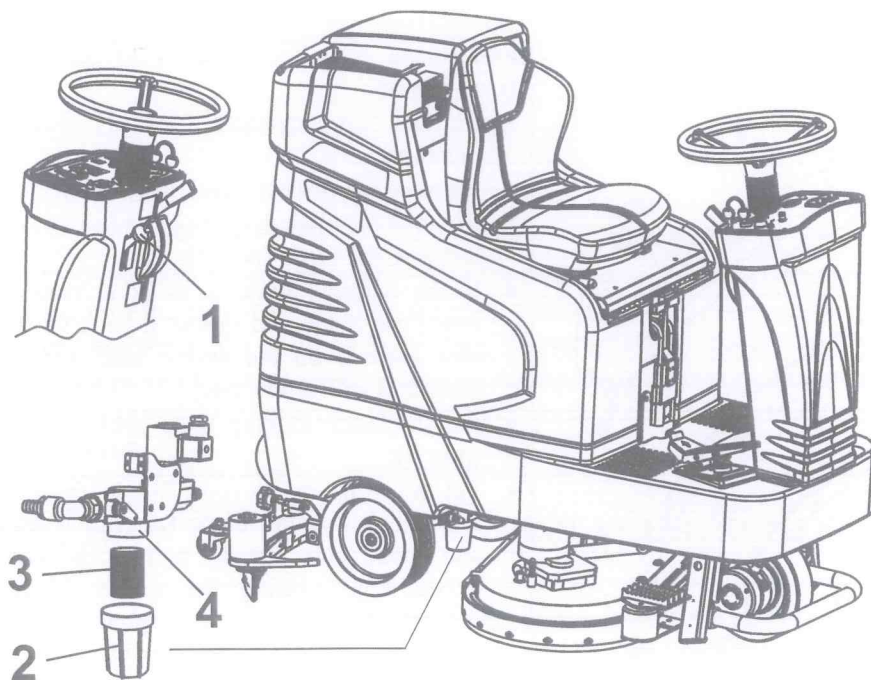


### REPLACING THE SIDE BLADES

- Use a 4mm hex wrench (pos. 1) to remove the screws;
- Remove the internal blade locking plate (pos. 2);
- Remove the blade pos. 3 or pos. 4 with a new one;
- Put the rubber and the internal plate back into place using the screws (pos. 1). Make sure that the rubber is equally distributed throughout its entire length.



## CLEANING THE DETERGENT SOLUTION FILTER



The machine is fitted with a filter on the duct coming from the detergent solution tank.

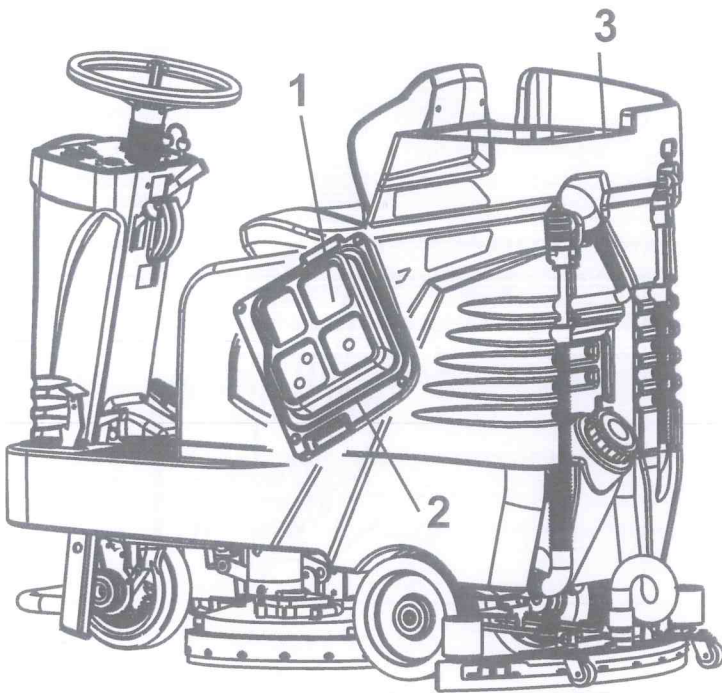
In theory, the solution in the tank should be free of impurities as the buckets or containers used to fill the solution must be clean. Follow the instructions below to clean the filter:

Stop the machine in a levelled area, turn off the machine and remove the key;

- Close the valve using the lever (pos. 1);
- Use two hands to remove the clear cup (pos. 2);
- Remove the protective screen (pos. 3) and wash the cup and the screen with water;
- Put the cup (pos. 2) and the protective screen (pos. 3) on the fixed part of the filter (pos. 4), making sure that the protective screen is fitted correctly into its housing on the cup and in the support;
- Open the valve using the lever (pos. 1).



## CHECKING THE GASKET ON THE COVER



The gasket on the cover of the recovery tank seals the tank properly, providing a better vacuum performance on the squeegee.

For this reason, it is very important to keep the gasket intact in order for the machine to work properly.

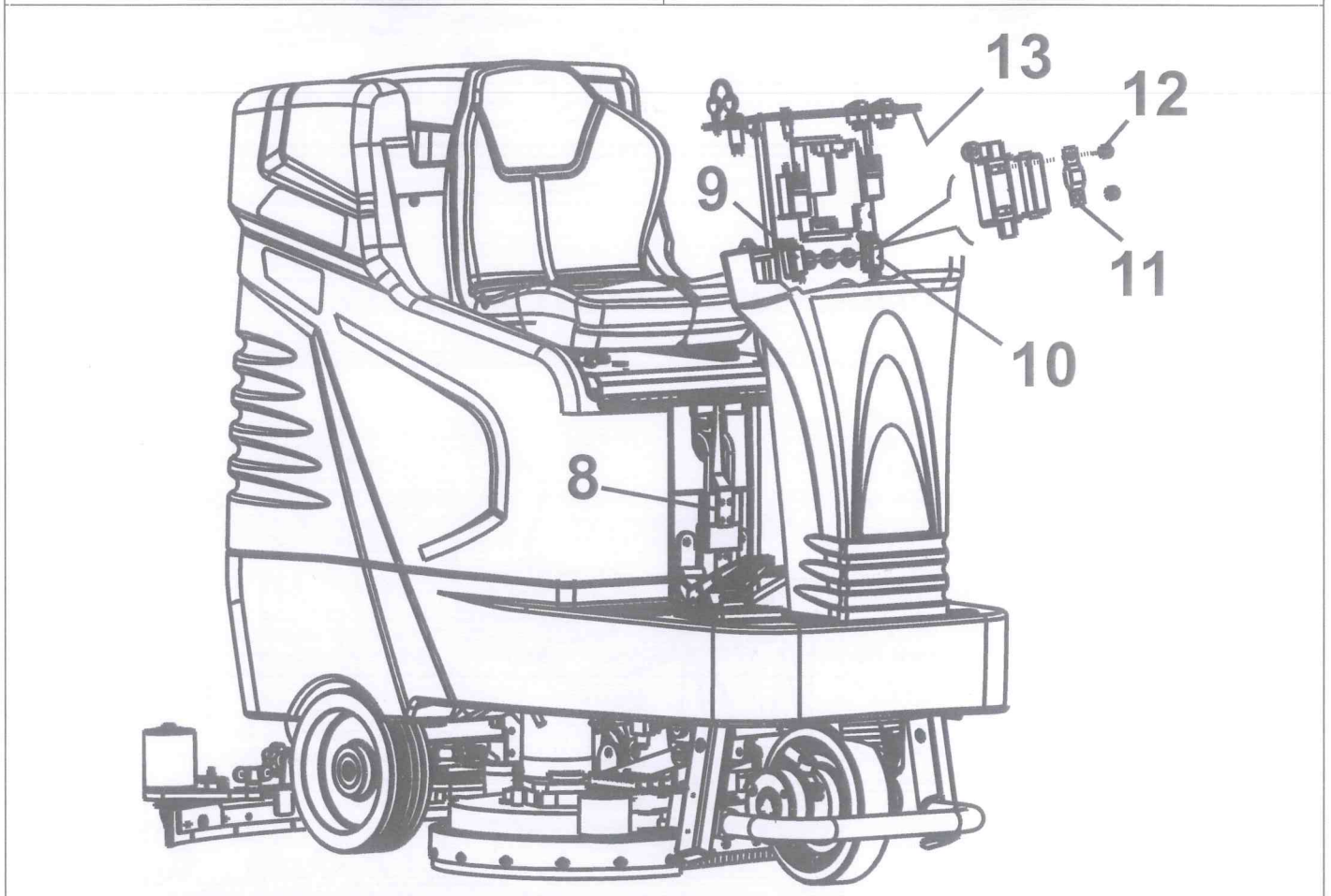
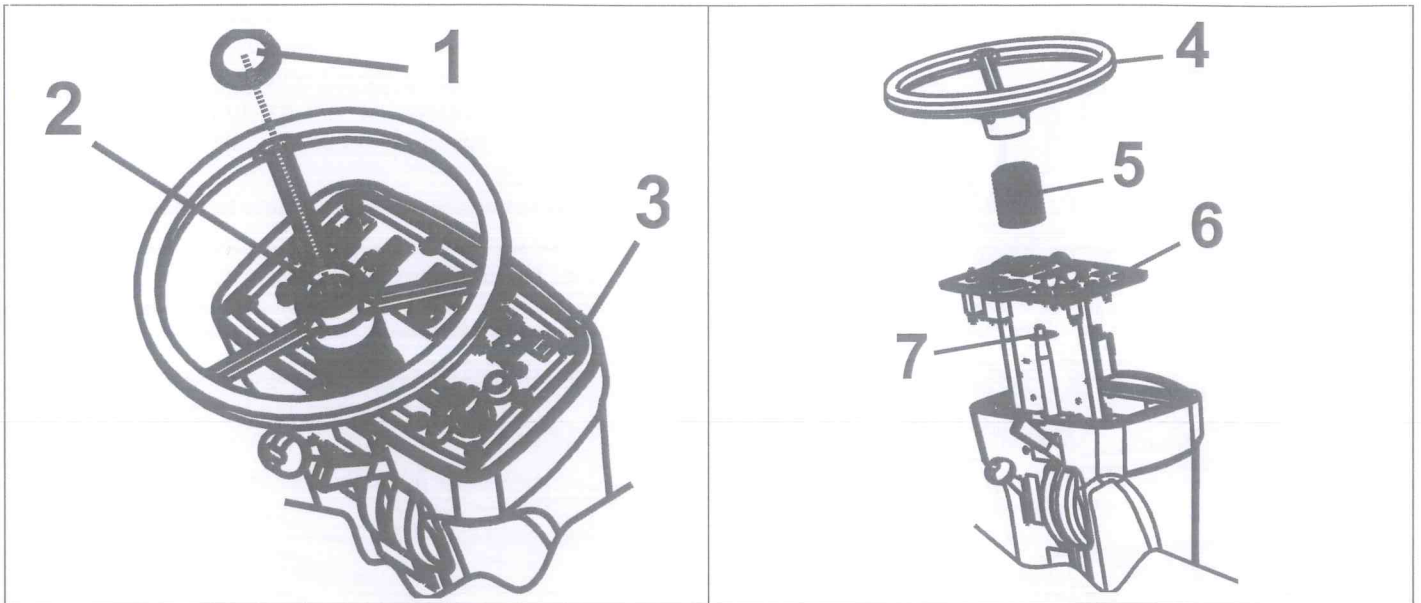
Follow the instructions below to clean and check the gasket:

- Open the cover (pos. 1);
- Use a piece of cloth to wipe off the gasket (pos. 2). Make sure it is not cut or damaged;
- If the gasket is damaged, remove it from its housing on the cover and mount a new gasket;
- Clean the area of the tank where the gasket rests (pos. 3) when the cover is closed.





## CHECKING OR REPLACING FUSES



To check and replace fuses proceed as follows:

- Stop the machine in a levelled area and turn the key to position 0;
- **Unplug the mobile connector (pos. 8);**
- Remove the cap from the hand-wheel (pos. 1);
- The hand-wheel (pos. 4) is fitted with a device designed for quick removal. Use a 27mm wrench to unscrew the nut (pos. 2) until the hand-wheel is removed from its housing on the shaft;
- Remove the bellows (pos. 5);



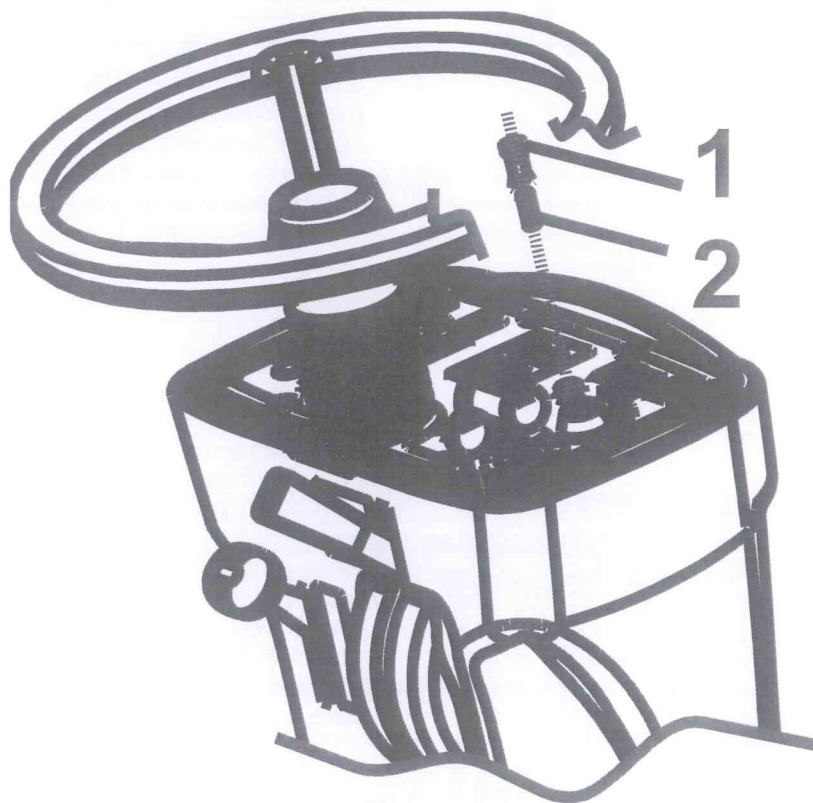
- Use a 3mm Allen key to remove the 10 fixing screws (pos. 3) of the control panel;
  - Remove the control panel (pos. 6), lift it and attach it to the shaft of the wheel using the provided bracket (pos. 7), ensuring not to jerk as this could damage the electrical system;
  - From this position, the operator has access to all the components of the electrical system (remote switches, drive control board, control panel components, fuses, etc.);
  - Fuse holder (pos. 10): 50A **DRIVE SYSTEM PROTECTION** fuse;
- TO REPLACE IT PROCEED AS FOLLOWS:
- Open the fuse holder cover (pos. 10);
  - Unscrew the 2 nuts (pos. 12) that hold the fuse;
  - Replace the **50A fuse** (pos. 11) with a fuse of equal amperage and with the same characteristics;
  - Put the nuts back into place and close the cover of the fuse holder.
- Fuse holder (pos. 9): 30A **VACUUM MOTOR PROTECTION** fuse;
- To replace to carbon brushes, follow the instructions above;
- Put the control panel back inside the plastic end piece, ensuring not to jerk it as this could damage the electrical system;
  - Put the screws (pos. 3) back into place and tighten them using the provided key so as to give good pressure on the gasket located beneath the panel.

After checking or replacing the fuses, put everything back into place and resume the operation.

To mount the hand-wheel, align the key on the shaft with the housing located on the hand-wheel and screw the nut (pos. 2).



## CHECKING OR REPLACING FUSES IN THE INSTRUMENT PANEL



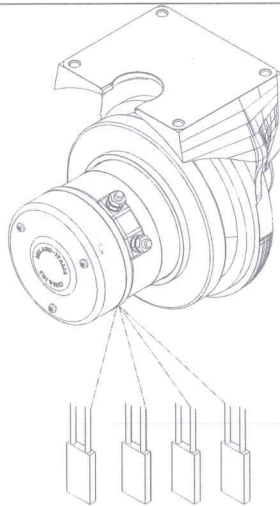
One 5A glass fuse used to protect the control panel instruments is mounted in the control panel.

Follow the instructions below to check or replace the fuses:

- Unplug the battery connector;
- Do a ¼ turn left on the cover of the fuse holder (pos. 1) and remove it;
- The 5A glass fuse will also come out along with the cover;
- Check the fuse and if necessary replace it with one of equal amperage and with the same characteristics;
- Put the fuse and the cover in the fixed part of the fuse holder on the control panel, push and screw;
- Plug the battery connector back on.



## CHECKING TO BE MADE EVERY 400 HOURS ON THE DRIVE WHEEL

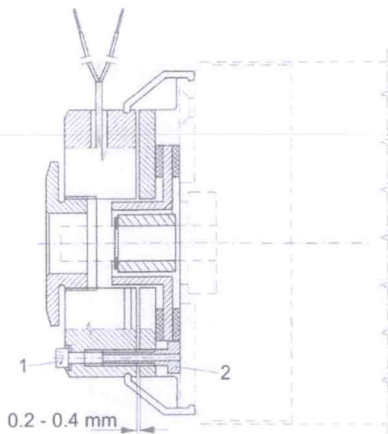


### DRIVE WHEEL

Check the motor carbon brushes and if necessary replace them when their length reaches 7 mm.

Length of new motor brush: 20 mm.

Motor brush code: 640291. 4 X MOTOR.



E65 TRAC M up to frame number 650001790218  
E75 TRAC M up to frame number 750028050318  
E83 TRAC M up to frame number 830004350318

### TELECO ELECTROBRAKE

- Check the correct functioning and that the following values are correct
  - Absorption 0.9 – 1.1 A
  - Ohmic resistance 22 – 25  $\Omega$
- Check the play of the brake disc to be within: 0.2 - 0.4 mm; in case, adjust it  
For the adjustment of the play:
  - Loosen the screws pos. 1
  - Adjust the bushings (by screwing / unscrewing them) pos. 2 so as to get the play indicated.
  - Lock the screws pos. 1.

Traction motor consumption: (with tyre lifted from the floor): 13-14 A

Traction motor consumption: (running on the floor) 25-29 A. This value has been obtained with two 0.6mm ppl brushes and machine running at the maximum speed, full tank (87 l). Flat and smooth floor (no slopes), men on board and 4 x 6V 180Ah C5 batteries.

### IP65 PREC. ELECTROBRAKE (EUREKA CODE 490843)

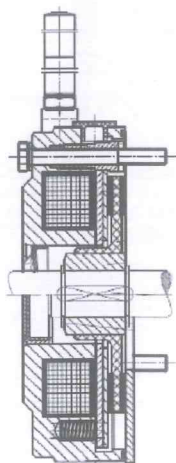
Check the correct functioning and that the following values are correct:

- Absorption  $\approx$  1.17 A;
- Ohmic resistance 20 – 22  $\Omega$ ;
- Brake lining minimum size 4.5 mm (brand new one measures 5 mm);

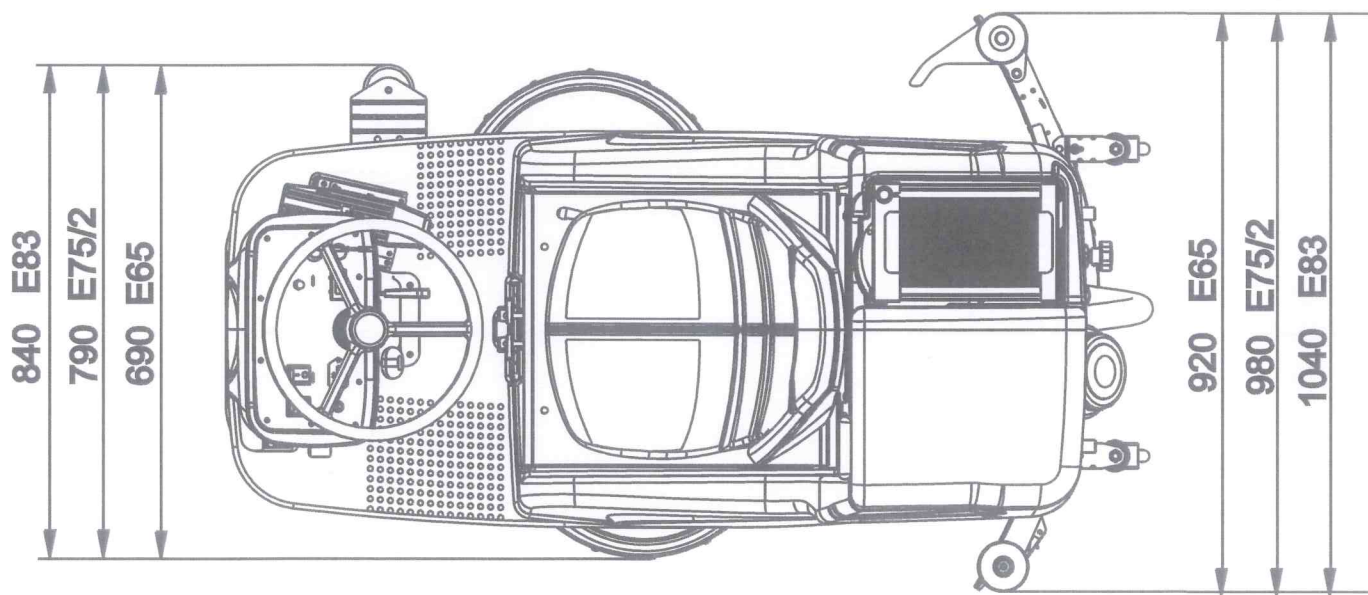
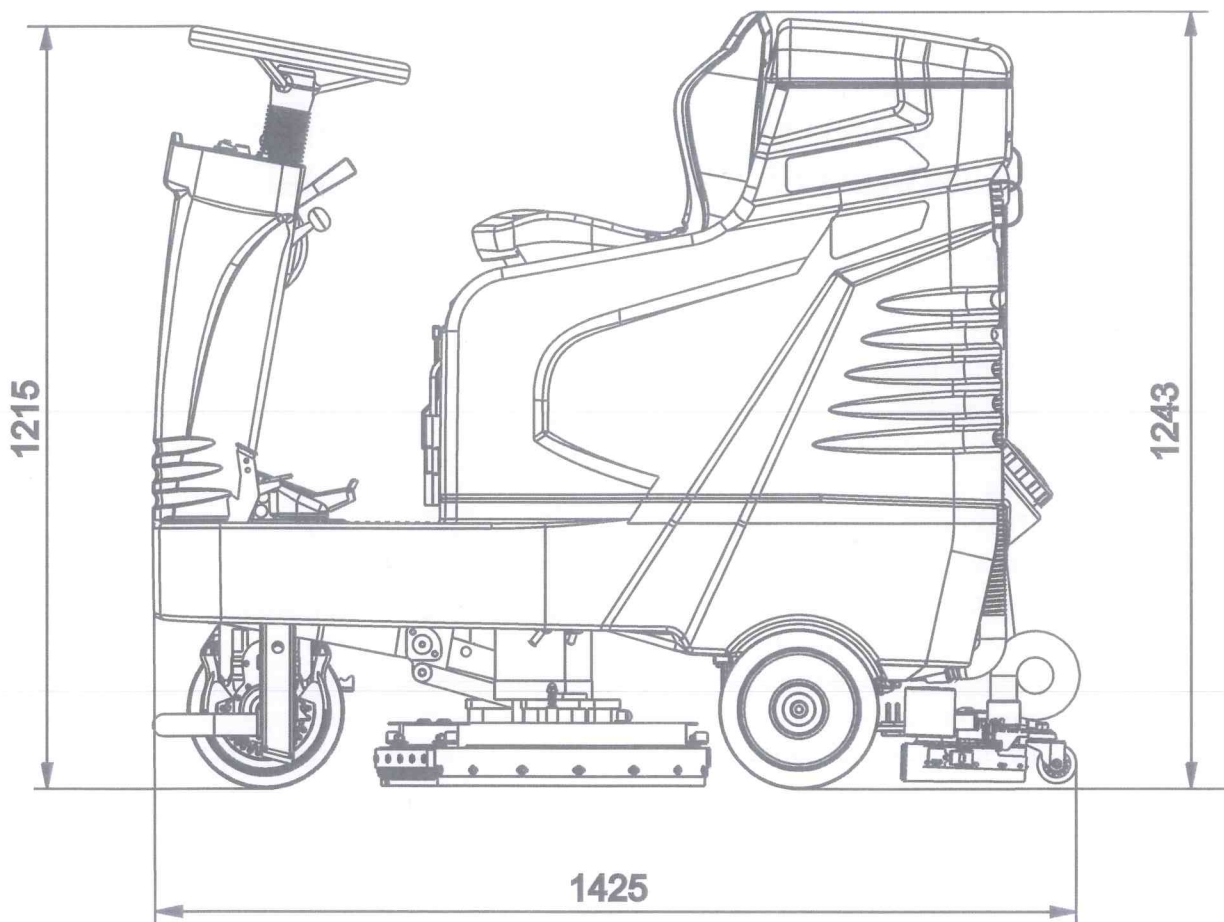
Tightening torque of the 3 screws = 3 Nm

Traction motor consumption: (with tyre lifted from the floor): 13-14 A

Traction motor consumption: (running on the floor) 25-29 A. This value has been obtained with two 0.6mm ppl brushes and machine running at the maximum speed, full tank (87 l). Flat and smooth floor (no slopes), men on board and 4 x 6V 180Ah C5 batteries.



DIMENSIONAL TECHNICAL DRAWINGS



# SERVICING

For further informations regarding the servicing, consult the pages of the manual related to maintenance

**1°**

## SERVICING AND MAINTENANCE FOR SCHEDULED SERVICING OF E65 TRAC M - E75/2 TRAC M- E83 TRAC M

AFTER 100 HOURS

DATE

DAY

MONTH

YEAR

WORKING HOURS

- Check that the battery clamps are not loosen or oxidized
- Check the batteries fluid level
- Check the cover gasket
- Check the vacuum motor filter
- Check the brake
- Check, and if necessary replace, the fuses
- Check the brushes and the components of the brush plate
- Check, and if necessary rotate or replace, the squeegee blades
- Check the adjusting/closing detergent solution tap
- Check the detergent solution filter (located just before the pump)
- Check the pump, the solenoid valve and the fitting outgoing from the pump
- Check that the vacuum pipe on the squeegee and the drainpipes of the solution and recovery tanks are not broken or clogged
- Check the actuators of the squeegee and the brush plate (anyway if actuators have problems, they will be detected by the control board)
- Lubricate the squeegee pivot pin
- Test the machine in all its operating functions

THE SCHEDULED SERVICING WAS CARRIED OUT BY:

NAME: \_\_\_\_\_

SURNAME: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

DISTRIBUTOR'S STAMP

NOTE:

**2<sup>o</sup>**

**SERVICING AND MAINTENANCE FOR SCHEDULED  
SERVICING OF E65 TRAC M - E75/2 TRAC M- E83 TRAC M**

**AFTER 200 HOURS**

<b>DATE</b>	DAY	MONTH	YEAR	WORKING HOURS
-------------	-----	-------	------	---------------

- Check that the batteries clamps are not loosen or oxidized
- Check the batteries fluid level
- Check the cover gasket
- Check the vacuum motor filter
- Check the brake
- Check, and if necessary replace, the fuses
- Check the brushes and the components of the brush plate
- Check, and if necessary rotate or replace, the squeegee blades
- Check the adjusting/closing detergent solution tap
- Check the detergent solution filter (located just before the pump)
- Check the pump, the solenoid valve and the fitting outgoing from the pump
- Check that the vacuum pipe on the squeegee and the drainpipes of the solution ad recovery tanks are not broken or clogged
- Check the actuators of the squeegee and the brush plate (anyway if actuators have problems, they will be detected by the control board)
- Lubricate the squeegee pivot pin
- Test the machine in all its operating functions

**THE SCHEDULED SERVICING WAS CARRIED OUT BY:**

**DISTRIBUTOR'S STAMP**

NAME: \_\_\_\_\_

SURNAME: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

**NOTE:**

3<sup>o</sup>

SERVICING AND MAINTENANCE FOR SCHEDULED  
SERVICING OF E65 TRAC M - E75/2 TRAC M- E83 TRAC M

AFTER 300 HOURS

<b>DATE</b>	DAY	MONTH	YEAR	WORKING HOURS
-------------	-----	-------	------	---------------

- Check that the battery clamps are not loosen or oxidized
- Check the batteries fluid liquid
- Check the cover gasket
- Check the vacuum motor filter
- Check the brake
- Check, and if necessary replace, the fuses
- Check the brushes and the components of the brush plate
- Check, and if necessary rotate and replace, the squeegee blades
- Check the adjusting/closing detergent solution tap
- Check the detergent solution filter (located just before the pump)
- Check the pump, the solenoid valve and the fitting outgoing from the pump
- Check that the vacuum pipe on the squeegee and the drainpipes of the solution and recovery tanks are not broken or clogged
- Check the actuators of the squeegee and the brush plate (anyway if actuators have problems, they will be detected by the control board)
- Lubricate the squeegee pivot pin
- Test the machine in all its operating functions

THE SCHEDULED SERVICING WAS CARRIED OUT BY:

NAME: \_\_\_\_\_

SURNAME: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

DISTRIBUTOR'S STAMP

NOTE:

Empty box for notes.

**4°**

# SERVICING AND MAINTENANCE FOR SCHEDULED MAINTENANCE OF E65 TRAC M - E75/2 TRAC M- E83 TRAC M

AFTER 400 HOURS

<b>DATE</b>	DAY	MONTH	YEAR	WORKING HOURS
-------------	-----	-------	------	---------------

- Check that the batteries clamps are not loosen or oxidized
- Check the batteries fluid level
- Check the cover gasket
- Check the vacuum motor filter
- Check the brake
- Check, and if necessary replace, the fuses
- Check the brushes and the components of the brush plate
- Check, and if necessary rotate or replace, the squeegee blades
- Check the adjusting/closing detergent solution tap
- Check the detergent solution filter (located just before the pump)
- Check the pump, the solenoid valve and the fitting outgoing from the pump
- Check that the vacuum pipe on the squeegee and the drainpipes of the solution and detergent tanks are not broken or clogged
- Check the actuators of the squeegee and the brush plate (anyway if actuators have problems, they will be detected by the control board)
- Lubricate the squeegee pivot pin
- Test the machine in all its operating functions

**THE SCHEDULED SERVICING WAS CARRIED OUT BY:**

NAME: \_\_\_\_\_

SURNAME: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

**DISTRIBUTOR'S STAMP**

**NOTE:**



**5°****SERVICING AND MAINTENANCE FOR SCHEDULED  
SERVICING OF E65 TRAC M - E75/2 TRAC M- E83 TRAC M**

AFTER 500 HOURS

DATE

DAY

MONTH

YEAR

WORKING HOURS

**MOTOR CARBON BRUSHES CHECK**

**CHECK AND REMOVE THE MOTOR CARBON BRUSHES ONE AT A TIME SO AS NOT TO INVERT THEM. THE MOTOR CARBON BRUSHES SETTLE AND WEAR DIFFERENTLY THE ONE FROM THE OTHER, CONSEQUENTLY IF THESE ARE INSPECTED AND PUT BACK ON AGAIN BECAUSE THEY ARE NOT FULLY WORN, THEY MUST BE REFITTED IN THE SAME POSITION.**

 **VACUUM MOTOR**

Check the carbon brushes and replace them if they are shorter than 10 mm.

Length of new motor carbon brush: 26.8 mm.

Motor carbon brush code 640337. N° 2 EACH MOTOR

 **E65 TRAC M – E75 TRAC M BRUSHES MOTOR**

Check the carbon brushes and replace them if they are shorter than 12 mm.

Length of new motor carbon brush: 24 mm.

Motor carbon brush code 640258. N° 2 EACH MOTOR

640259. N° 2 EACH MOTOR

 **E83 TRAC M BRUSHES MOTOR**

Check the carbon brushes and replace them if they are shorter than 11.5 mm.

Length of new motor carbon brush: 19 mm.

Motor carbon brush code 640281. N° 4 EACH MOTOR (1 KIT)

 **MOTORWHEEL**

Check the carbon brushes and replace them if they are shorter than 7 mm.

Length of new motor carbon brush: 20 mm.

Motor carbon brush code 640291. N° 4 EACH MOTOR

Check also the motor oil level in the motorwheel.

**MACHINE**

- Check that the battery clamps are not loosen or oxidized
- Check the batteries fluid level
- Check the cover gasket
- Check the vacuum motor filter
- Check the brake
- Check, and if necessary replace, the fuses
- Check the brushes and the components of the brush plate
- Check, and if necessary rotate or replace, the squeegee blades
- Check the adjusting/closing detergent solution tap
- Check the detergent solution filter (located just before the pump)
- Check the pump, the solenoid valve and the fitting outgoing from the pump
- Check that the vacuum pipe on the squeegee and the drainpipes of the solution and recovery tanks are not broken or clogged
- Proceed with the cleaning of the ECO system device and its components
- Check the bearings of the wheels
- Check the actuators of the squeegee and the brush plate (anyway if actuators have problems, they will be detected by the control board)
- Lubricate the squeegee pivot pin
- Test the machine in all its operating functions

**THE SCHEDULED SERVICING WAS CARRIED OUT BY:**

**DISTRIBUTOR'S STAMP**

**NAME:** \_\_\_\_\_

**SURNAME:** \_\_\_\_\_

**SIGNATURE:** \_\_\_\_\_

**NOTE:**

**SERVICING AND MAINTENANCE FOR SCHEDULED SERVICING OF  
E65 TRAC M - E75/2 TRAC M- E83 TRAC M**

AFTER 600 HOURS AS 100 HOURS	<b>DATE</b>	DAY	MONTH	YEAR	WORKING HOURS
<b>THE SCHEDULED SERVICING WAS CARRIED OUT BY:</b> NAME: _____ SURNAME: _____ SIGNATURE: _____			<b>DISTRIBUTOR'S STAMP</b>		

AFTER 700 HOURS AS 200 HOURS	<b>DATE</b>	DAY	MONTH	YEAR	WORKING HOURS
<b>THE SCHEDULED SERVICING WAS CARRIED OUT BY:</b> NAME: _____ SURNAME: _____ SIGNATURE: _____			<b>DISTRIBUTOR'S STAMP</b>		

AFTER 800 HOURS AS 300 HOURS	<b>DATE</b>	DAY	MONTH	YEAR	WORKING HOURS
<b>THE SCHEDULED SERVICING WAS CARRIED OUT BY:</b> NAME: _____ SURNAME: _____ SIGNATURE: _____			<b>DISTRIBUTOR'S STAMP</b>		

AFTER 900 HOURS AS 400 HOURS	<b>DATE</b>	DAY	MONTH	YEAR	WORKING HOURS
<b>THE SCHEDULE SERVICING WAS CARRIED OUT BY:</b> NAME: _____ SURNAME: _____ SIGNATURE: _____			<b>DISTRIBUTOR'S STAMP</b>		

AFTER 100 HOURS AS 500 HOURS	<b>DATE</b>	DAY	MONTH	YEAR	WORKING HOURS
<b>THE SCHEDULE WAS CARRIED OUT BY:</b> NAME: _____ SURNAME: _____ SIGNATURE: _____			<b>DISTRIBUTOR'S STAMP</b>		

<b>NOTE</b>					

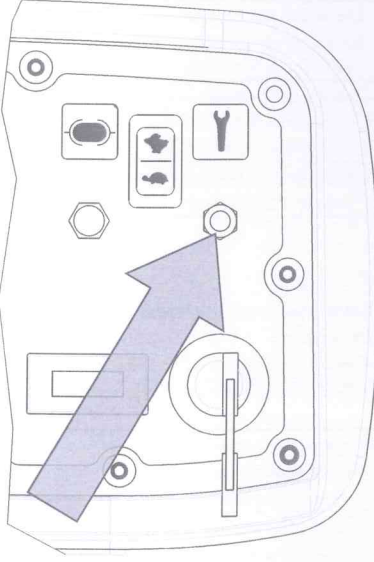
## TROUBLESHOOTING TABLE

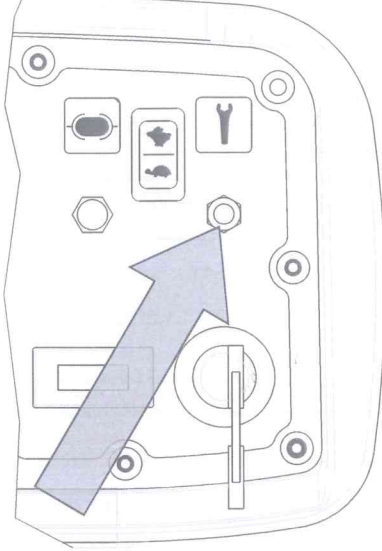
**WARNING! ANY MAINTENANCE SERVICE OR TEST, EXCEPT FOR THOSE DESCRIBED IN THE MANUAL, MUST BE PERFORMED EXCLUSIVELY BY AN AUTHORISED ASSISTANCE CENTRE (AAC)**

### BEFORE ANY INTERVENTIONS CHECK THE CORRECT VOLTAGE OF THE BATTERY: 24V

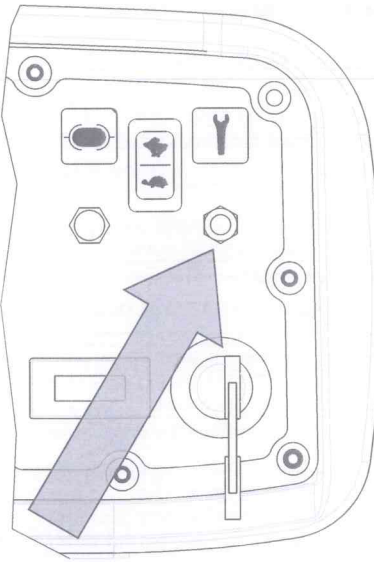
PROBLEM	CAUSE	SOLUTION
The battery does not charge	1. Faulty or worn elements	Replace the battery
The instruments on the panel do not work when placing the key	2. Low Battery 3. Burnt fuse 4. Battery connector unplugged 5. Faulty ignition key 6. For machines with on-board battery charger: Faulty internal remote switch 7. For machines with on-board battery charger: Machine charging	Recharge the battery Replace the fuse Plug the battery connector Replace the key Replace the battery charger Unplug the battery charger from the mains
The brush motor is not spinning	8. Low Battery 9. Faulty electric motor remote switch 10. Faulty brush switch 11. Carbon contacts worn out 12. 30A magnetothermic circuit breaker engaged 13. Faulty motor 14. Brush plate lifted 15. Faulty micro-switch on the brush plate 16. Locked or damaged electrobrake 17. Faulty traction board	Recharge the battery Replace the electric motor remote switch Replace the brush switch Replace the contacts Reset the magnetothermic circuit breaker Replace the motor Lower the brush plate Replace the micro-switch Check the correct functioning and the absorptions (refer to page 35) Replace the traction board
The drive will not work	18. Low Battery 19. Seat safety engaged 20. Key not inserted 21. Faulty 50A drive system protection fuse 22. Faulty drive wheel 23. Locked or damaged electrobrake 24. Drive wheel carbon contacts worn out 25. Fault electronic control 26. Fault pedal control	Recharge the battery Sit down Insert the key Replace the fuse Replace or repair the drive wheel Check the correct functioning and the absorptions (refer to page 35) Replace the contacts Replace the electronic control Replace or repair the pedal control

### TRACTION BOARD: FLASHING TROUBLESHOOTING: UP TO FRAME : 65000237 – 75003151 - 83000720

	- OFF NO ERROR, NORMAL CONDITION	
	- 1 FLASH: forward gear microswitch engaged upon ignition	Bring the drive control to zero position and make sure that it resumes operation.
	- 2 FLASHES: reverse gear microswitch engaged upon ignition	Check the microswitch on the drive control
	- 3 FLASHES: interruption of potentiometer signal	Check the potentiometer cables
	- 4 FLASHES: potentiometer not idle upon ignition	- Bring the drive control to zero position. - Make sure that the control returns to zero correctly. - Check the potentiometer on the drive control.
	- 5 FLASHES: - Thermal protection - Locked or damaged electrobrake	Stop the machine, wait for several minutes, start the machine, and check the power draw of the motor. - Check the correct functioning and the absorptions (refer to page 35)
	- 6 FLASHES: - Faulty power fuse - Power stage damaged	- Make sure that the 50A fuse from the + battery works CORRECTLY upon ignition and that the battery cables and motor cables are connected correctly. - Replace the traction board
	- Locked or damaged electrobrake	- Check the correct functioning and the absorptions (refer to page 35)
	- 7 FLASHES: overcurrent	Cables from the battery to the traction board or from the traction board to the motor are loose, oxidised or plugged incorrectly. Check the cables
	- 8 FLASHES: - fuse or internal relay damaged - Locked or damaged electrobrake	Make sure that the 50A fuse from the + battery works CORRECTLY upon ignition and that the battery cables and motor cables are connected correctly. If the problem persists, replace the traction board. - Check the correct functioning and the absorptions (refer to page 35)
- 9 FLASHES: under voltage (< 19 V)	Check and charge the batteries	

	- 10 FLASHES: overvoltage	Battery voltage exceeds 45V.
	- 11 FLASHES: - amperometric protection of the traction motor: the motor has worked for more than 10 seconds above the maximum nominal current value (15 A) - Locked or damaged electrobrake	- Verify that the motorwheel spins freely. Check with an amp meter the motor consumption. For the correct consumption values refer to the technical chart. - Check the correct functioning and the absorptions (refer to page 35)
	- 13 FLASHES: temporary power supply interruption	<b>Attention! If 13 flashes appear, the operator should first ensure that at least 3-4 seconds have passed between turning off the machine (key in position 0) and turning on the machine (key in position 1). This is the time required for the traction electronic card to activate. Otherwise 13 flashes are generated.</b> If the problem persists, it could be a bad electrical contact issue: check that in the ignition switch, fuses and the 16 poles connector of the chopper there isn't any intermittent contact. If the problem persists again replace the chopper
	The traction board power supply could drop down below 19V, with batteries almost discharged, when the brushes get activated for example.	Charge the batteries and repeat the test with machine running and brushes activated.
- 14 FLASHES: data reading failed	Remove the key and put the service switch in O position. If necessary, replace the traction board	

**TRACTION BOARD FORWARD MOVEMENT: INDICATOR LIGHT FLASHING DIAGNOSTICS  
FROM FRAME : 65000238 – 75003152 - 83000721**

	<i>Example of count flashes:</i> ●●_●●_      ●●_●●●_      ●●_●●●_etc. = 2+3 flashes	
	<b>- ALWAYS ON: NO ERROR, NORMAL CONDITION</b>	
	- 1+2 FLASHES: overcurrent	- The cables from the battery to the traction board or from the traction board to the motor are loose, oxidized or not correctly connected. - Check the cables - Cycle the keyswitch.
	- 1+3 FLASHES: Current Sensor. The controller's current sensors have invalid offset readings.	- Cycle the keyswitch. - Replace the traction board
	- 1+5 FLASHES: Controller Severe Undertemperature. The heatsink temperature is below -40°C.	- Raise the heatsink temperature to above -40°C, then cycle the keyswitch.
	- 1+6 FLASHES: Controller Severe Overtemperature. The heatsink temperature is above 85°C.	- Decrease the heatsink temperature to below 85°C, then cycle the keyswitch..
	- 1+7 FLASHES: B+ Undervoltage -Battery voltage below 19 V	- Charge the battery - Check battery terminal - Cycle the keyswitch.
	- 1+9 FLASHES: B+ Overvoltage -Battery voltage above 28.8V.	- Check that the battery installed is 24V - Cycle the keyswitch.
	- 2+3 FLASHES: Speed reduction due to controller temperature too high. Heatsink temperature exceeds 75 ° C. - The controller is operating in an extremely hot environment. -There is excessive load on the vehicle. -The controller is incorrectly mounted and is preventing the controller from cooling.	-Return the machine in the field of acceptable temperature. - Check absorption of the drive wheel - Check the mounting of the controller
	- 2+4 FLASHES: Speed reduction due to too low battery voltage.	- Charge the battery - Check battery terminal - Cycle the keyswitch.
	- 3+1 FLASHES: electrobrake stop	- Check the wiring and the terminals - Switch the machine off and on again
	- 3+7 FLASHES: The motor phase is open	- Check the crimps and wiring M1-M2 - Check the wheel drive wiring - Cycle the keyswitch.
	- 3+9 FLASHES: Blown B+ fuse	- Replace the fuse - Check the wiring and the B + fuse
- 4+4 FLASHES: Sequence error at power up. Forward / reverse microswitch inserted or potentiometer not idle at switch-on	- Move the pedal to zero position. - Make sure the pedal returns precisely to zero. - Check the microswitch on the pedal. - Cycle the keyswitch.	

	- 5+8 FLASHES: The motor has stalled.	- Identify the possible causes of the stall - Cycle the keyswitch.
	- 8+8 FLASHES: An internal controller fault occurred	- Cycle the keyswitch. - If it persists, replace the controller
	- 11+8 FLASHES: The controller did not power up correctly.	- Check connections - Cycle the keyswitch. - If it persists, replace the controller
	- 11+11 FLASHES: Motor Short	- Check the crimps and wiring M1-M2 - Check the wheel drive wiring - Cycle the keyswitch.
Little or no detergent solution flow on the brush	27. Closed valve 28. Faulty detergent solution solenoid valve 29. Detergent solution filter clogged 30. The solution duct going from the tank to the brush is clogged.	Open the valve Replace the solenoid valve Clean the filter Make sure that there is no encrustation
The vacuum motor does not work	31. Faulty vacuum motor switch 32. Recovery tank full, floater engaged 33. Faulty floater 34. Low Battery 35. Faulty 30A vacuum motor fuse 36. Unplugged vacuum motor 37. Faulty vacuum motor 38. Vacuum motor carbon contacts worn out 39. Faulty remote switch	Replace the switch Empty the tank Replace the floater Recharge the battery Replace the fuse Check the motor wiring Replace the vacuum motor Replace the contacts Replace the remote switch
When you start the vacuum motor, it works for 6/7 seconds, then it stops	40. Faulty floater 41. Dirty or blocked floater 42. Recovery tank full, floater engaged	Clean the floater Replace the floater Empty the tank
Poor suction on the squeegee	43. The recovery tank is full 44. Cap on the drain pipe of the tank is open 45. The vacuum pipe is not connected properly 46. Suction duct clogged 47. Damaged suction pipe 48. Dirty squeegee 49. Incorrect squeegee adjustment 50. Matter trapped on the squeegee's blades 51. Worn or broken squeegee blades 52. Tank cover open or closed incorrectly 53. Damaged cover gasket 54. Damaged or faulty vacuum motor 55. Low Battery 56. Filter inspection cap not present or tightened incorrectly 57. Damaged gasket on the vacuum filter inspection cap 58. Vacuum filter clogged	Empty the tank Tighten the cap correctly Make sure it is mounted correctly Clean the suction pipe Replace the pipe Clean the squeegee Adjust the inclination and the pressure Clean the blades Rotate the squeegee blades or replace them Close or check the cover Replace the gasket Replace or check the motor Recharge the battery Position and tighten the cap correctly  Check the gasket and replace it if necessary  Clean the filter
Battery charger flashing troubleshooting	59. Flashing troubleshooting: - STOP AND CHARGE LED FLASHING: Overheating  ----- Battery defective or wrong voltage  - STOP AND CHARGE LEDS TURNED ON FIXED: Charger failure	- Make sure that the hood is open during charging and that the vents are not obstructed  ----- - Check voltage and battery status  Replace charger

## TECHNICAL CHART

	<b>E65 TRAC M</b>	<b>E 75/2 TRAC M</b>	<b>E 83 TRAC M</b>
SCRUBBING WIDTH WITH BRUSH	mm 650	mm 760	mm 810
BRUSH PRESSURE	Kg 52	Kg 52	Kg 52
SOLUTION / RECOVERY TANK CAPACITY	Lt 110 - Lt 125	Lt 110 - Lt 125	Lt 110 - Lt 125
PRODUCTIVITY	m <sup>2</sup> /h 3900	m <sup>2</sup> /h 4560	m <sup>2</sup> /h 4860
MACHINE WEIGHT (WITH ON-BOARD CHARGER/ WITHOUT BATTERIES)	Kg 221	Kg 228	Kg 235
MACHINE SIZE (WITHOUT SQUEEGEE)	mm 1425X690 H=1243	mm 1425X790 H=1243	mm 1425X840 H=1243
SQUEEGEE WIDTH	mm 920	mm 980	mm 1040
BRUSH AND DISC PAD HOLDER DIAMETER, RPM	mm 305/330 rpm 190	mm 355/380 rpm 190	mm 380/415 rpm 200
DIFFERENTIAL MOTOR FOR BRUSHES	V/Watt 24/400	V/Watt 24/400	V/Watt 24/500
VACUUM MOTOR	V/Watt 24/550	V/Watt 24/550	V/Watt 24/550
WATER LIFT	mm / H <sub>2</sub> O 1250	mm / H <sub>2</sub> O 1250	mm / H <sub>2</sub> O 1250
TRACTION	ELECTRONIC	ELECTRONIC	ELECTRONIC
DRIVE BY MEANS OF DIFFERENTIAL MOTOR	V/Watt 24/900	V/Watt 24/900	V/Watt 24/900
FRONT WHEEL WITH NYLON CORE, FULL RUBBER TYPE, OIL-PROOF	Ø250 X 76	Ø250 X 76	Ø250 X 76
REAR WHEELS WITH NYLON CORE, FULL RUBBER TYPE, OIL-PROOF	Ø250 X 80	Ø250 X 80	Ø250 X 80
MAX FORWARD AND REVERSE SPEED	Km/h 6 – Km/h 3	Km/h 6 – Km/h 3	Km/h 6 – Km/h 3
MAX GRADIENTS (WITH EMPTY TANK)	20 %	20 %	20 %
RECOMMENDED 4X6V 180 Ah (IN C5) LEAD ACID, HEAVY DUTY BATTERIES	mm244X190X275h Kg 31 cad.	mm244X190X275h Kg 31 cad.	mm244X190X275h Kg 31 cad.
NOISE EMISSION ACCORDING TO UNI EN ISO 11200 AND UNI EN ISO 11201 DETERMINATION OF EMISSION SOUND PRESSURE LEVELS AT (TEST CARRIED OUT WITH ALL MACHINE FUNCTIONS ACTIVE AND A COMPLETELY FULL TANK)	72,0 dB(A)	72,0 dB(A)	72,0 dB(A)
UNCERTAINTY VALUE CALCULATED ACCORDING TO EN 60335-2-72 ED UNI ISO 11201.	2.4 Db(A)	2.4 Db(A)	2.4 Db(A)

**VIBRATIONS:** *The vibrations the operator is subject to are below the max. level allowed by the EC DIRECTIVE for industrial machinery.*

**CONFORMITY DECLARATION**

**EUREKA S.P.A. UNIPERSONALE  
VIALE DELL'ARTIGIANATO 30/32  
35013 CITTADELLA (PD)**

**DECLARES UNDER ITS LIABILITY THAT THE FOLLOWING PRODUCT**

**SCRUBBER DRYER:  
MODEL:**

**E65 TRAC M  
E75/2 TRAC M  
E83 TRAC M**

**TO WHICH THIS DECLARATION REFERS, COMPLIES WITH THE FOLLOWING LAWS AND RULES:**

- SAFETY OF MACHINERY, BASIC NOTIONS, GENERAL PLANNING AND TECHNICAL RULES UNI EN ISO 12100-1, UNI EN ISO 12100-2
- SAFETY OF MACHINERY. SAFETY DISTANCES TO PREVENT DANGER ZONES BEING REACHED BY THE UPPER LIMBS. UNI EN ISO 13857.
- SAFETY OF MACHINERY. MINIMUM GAPS TO AVOID CRUSHING OF PARTS OF THE BODY. EN 349 (1993) + A1 (2008).
- SAFETY OF HOUSEHOLD ELECTRIC APPLIANCES AND SIMILAR PRODUCTS. GENERAL PART. EN 60335-1 (2012) + A11 (2014) + A13 (2017)
- SAFETY OF HOUSEHOLD ELECTRIC APPLIANCES AND SIMILAR PRODUCTS. PART 2: SPECIAL RULES FOR AUTOMATIC MACHINES USED FOR INDUSTRIAL AND COMMUNITY FLOORS TREATMENT - UNI EN 60335-2-72 (2016)
- ELECTROMAGNETIC CONSISTENCY - PART 6.3 - GENERAL RULE OF ISSUE FOR RESIDENTIAL, COMMERCIAL AND LIGHT INDUSTRIAL ENVIRONMENTS - EN 61000-6-3 (2007) + A1 (2011)
- ELECTROMAGNETIC CONSISTENCY - PART 6.1 - GENERAL RULE OF ISSUE FOR RESIDENTIAL, COMMERCIAL AND LIGHT INDUSTRIAL ENVIRONMENTS - EN 61000-6-1 (2016)
- ELECTROMAGNETIC COMPATIBILITY - REQUIREMENTS FOR HOUSEHOLD APPLIANCES, ELECTRIC TOOLS AND SIMILAR APPARATUS - PART 1 - EMISSION - 55014-1 (2017)
- ELECTROMAGNETIC COMPATIBILITY - REQUIREMENTS FOR HOUSEHOLD APPLIANCES, ELECTRIC TOOLS AND SIMILAR APPARATUS - PART 2 - IMMUNITY - 55014-2 (2015)

**AS PER LAWS:**

**2006/42/CEE, 2014/35/UE, 2014/30/UE, 92/31/CEE, 1907/2006 CE, 93/68CEE**

**CITTADELLA 28/02/2018**

**LEGAL RAPPRESENTATIVE AND  
PERSON IN CHARGE OF THE  
TECHNICAL REPORT  
GIANFRANCO LAGO**

