adiatek®
Design and innovation

TOPAZ 90

08 2026

EN

Use and maintenance



Warning! Please read the instructions before use.

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EN

INTRODUCTORY COMMENT

Thank you for having chosen our machine. This floor cleaning machine is intended for **commercial use** and it is used for the industrial and civil cleaning and is able to clean any type of floor. During its advance movement, the combined action of the brushes and the detergent solution removes the dirt which is aspirated through the rear suction assembly, giving a perfectly dry surface.
The machine must be used only for such purpose. It gives the best performance if it is used correctly and maintained in perfect efficiency. We therefore ask you to read this instruction booklet carefully whenever difficulties arise in the course of the machine's use. In case of need, we ask you to contact our service department for all advice and servicing as may prove necessary.

GENERAL RULES OF SAFETY

The rules below have to be followed carefully in order to avoid injury to the operator and damage to the machine.
- Read the labels carefully on the machine. Do not cover them for any reason and replace them immediately if damaged.
- **ATTENTION:** The machine must be used exclusively by authorized staff that have been instructed on its correct and proper use.
- **ATTENTION:** Do not use the machine on areas having a higher gradient than the one stated on the number plate.
- **ATTENTION:** The machine is not to be used by persons, children included, with reduced physical, sensorial or mental capabilities, or with lack of experience or knowledge, unless they could benefit, through the intermediation of a responsible person for their safety, by a supervision or instructions concerning to its use.
- During the operation of the machine, pay attention to other people and especially to the children.
- Children shall not play with the machine.
- Children cannot carry out cleaning and maintenance of the machine.
- This floor cleaning machine is intended for commercial use, for example in hotels, schools, hospitals, factories, shops, offices and rental businesses.
- To prevent unauthorized use of the machine, switch off the power supply at the end of use and prevent accidental start-up by unauthorized personnel. For models equipped with a key, remove the key from the control panel.
- CAUTION This machine shall be stored indoors only.

TRANSFER

- **WARNING:** Do not use the machine in areas where it is likely that the operator is hit by falling objects since the appliance is not provided with a falling object protective structure (FOPS).
- Do not strike shelvings or scaffoldings where there is danger of falling objects.
- Leaving the machine in parking position, take off the key.
- Do not use the machine as a means of transport.
- Adapt the working speed to the adhesion conditions: particularly, slow down before narrow curves have to be faced.
- When leaving the machine unattended, stop it on level surfaces, switch off the power supply and ensure that it is protected against unintended movements.

STORAGE AND DISPOSAL

- Storage temperature: between 0°C and +55°C (32°F and 131°F).
- Perfect operating temperature: between 0°C and +40°C (32°F and 104°F).
- The humidity should not exceed 95%.
- Provide for the scrapping of the material of normal wear following strictly the respective rules.
- The batteries need to be removed from the machine before its scrapping.
- Ensure the disposal of special waste by strictly complying with rules of the law in force.
- When your machine has to stop activity, provide with the appropriate waste disposal according to the law.

CORRECT USE

- This machine is for indoor use only.
- Do not use the machine on surfaces covered with inflammable liquids or dusts (for example hydrocarbons, ashes or soot).
- In case of fire, use a powder-based fire-extinguisher. Do not use water.
- Do not use the machine in explosive atmosphere.
- The machine has to carry out simultaneously the operations of washing and drying. Different operations must be carried out in restricted areas prohibited to non-authorized personnel and the operator has to wear suitable shoes.
- Signal the areas of moist floors with suitable signs.
- Do not mix different detergents, avoiding harmful odours.
- Use only detergents or other liquids suitable for the intended use of the machine, with a pH between 4 and 10. When using detergents, wear appropriate personal protective equipment, as indicated in the safety data sheet of the products used.



- Avoid brushes operation when the machine is standing still in order to prevent floor damages.
- Before lifting the recovery tank, make sure it is empty.

MAINTENANCE

- If the machine does not work properly, check by conducting simple maintenance procedures. Otherwise, as for technical advice from an authorized assistance centre.
- For any cleaning and/or maintenance operation take off the battery connection.
- Where parts are required, ask for ORIGINAL spare parts from the distributor and/or from an authorized dealer.
- Use only ORIGINAL brushes.
- Do not take off the protections which require the use of tools for their removal.
- Do not wash the machine with direct water jets or with high water pressure nor with corrosive material.
- Every 200 working hours have a machine check by an authorized service department.
- Before using the machine, check that all panels and coverings are in their position as indicated in this use and maintenance catalogue.
- Restore all electrical connections after any maintenance operation.

TRANSPORTING THE MACHINE

WARNING: Before transporting the machine on an open truck or trailer, make sure that:
- All tanks are empty.
- Recovery tank cover is latched securely.
- The machine is tied down securely.
- The machine's electromagnetic brake is engaged (not manually overridden).

GENERAL RULES OF THE BATTERIES



- At any intervention on the batteries, use suitable acid-proof gloves and glasses.
- Do not smoke near the batteries and do not approach them with free flames.
- Check that a fire-extinguisher is available on site.
- Be very careful in case of leakages or liquid outlets because corrosive.
- Do not place any metallic tools onto the batteries. Risk of short circuit!
- It is compulsory to hand over exhaust batteries, classified as dangerous waste, to an authorized institution according to the current laws.

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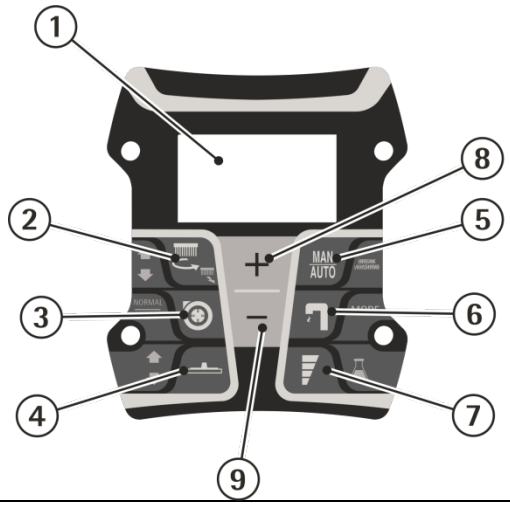
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TECHNICAL DESCRIPTION	U/M	
Cleaning width	mm	900
Squeegee width	mm	1100
Working capacity, up to	m^2/h	6750
Brushes diameter	mm	2 x 460
Brushes rpm	rpm	190
Pressure on the brushes	kg	140
Brushes motor	W	2 x 700
Traction motor	W	1200
Suction motor	W	2 x 570
Suction vacuum	mbar	190
Type of drive		automatic
Movement speed (max)	km/h	7,5
Maximum gradient	%	10
Solution tank	l	180
Reserve solution tank	l	20
Recovery tank	l	190
Machine length	mm	1962
Machine height with roll-bar (without roll-bar)	mm	1865 (1613)
Machine width (without squeegee)	mm	985
Weight of the machine (empty and without batteries)	kg	453
Gross weight of the machine (in conformity with EN 60335-2-72 art. 5.z102) Lpa	kg	1083
Battery voltage	V	36
Capacity of the batteries	Ah_5	320
Weight of the batteries	kg	380
Battery van (LxPxH)	mm	540 x 620 x 460
Acoustic pressure level (In conformity to ISO 11201 and CEI EN 60335-2-72) Lpa	dB (A)	<70
Class		III
Protection level	IP	23
Packed machine weight	kg	533
Package dimensions (LxDxH)	cm	213x181x115

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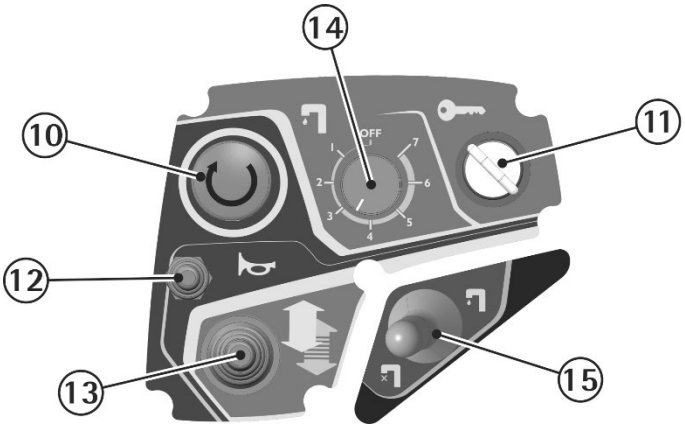
STEERING WHEEL PANEL

1. DISPLAY
2. UP/DOWN BRUSHES BUTTON
3. ON/OFF SUCTION MOTOR BUTTON
4. UP/DOWN SQUEEGEE BUTTON
5. MODE SELECTOR BUTTON
   - AUTOMATIC
   - MANUAL
   - BREAK WASHING
6. MODE BUTTON (WATERWORKS SELECTION)
7. DETERGENT SOLUTION LEVEL BUTTON
8. MAXIMUM SPEED INCREASE BUTTON
9. MAXIMUM SPEED DECREASE BUTTON



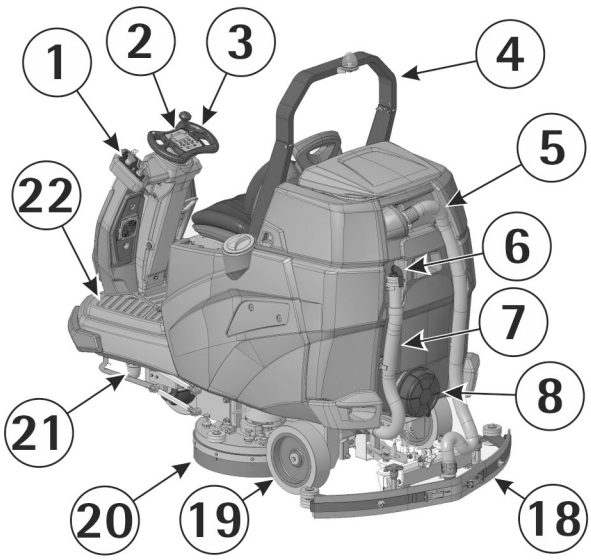
CONTROLS BOARD LEGEND

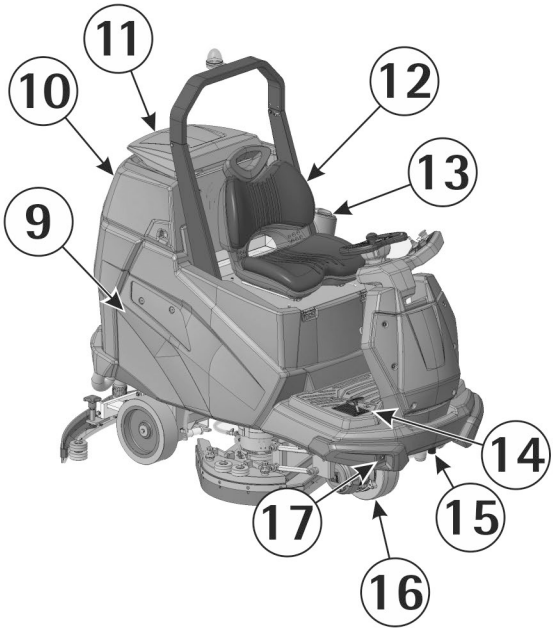
10. SAFETY BUTTON
11. KEY SWITCH
12. HORN
13. DIRECTION LEVER (FORWARD/BACKWARD)
14. FLOW RATE SELECTOR
15. SOLENOID VALVE ON/OFF SWITCH



MACHINE LEGEND

1. CONTROLS BOARD
2. STEERING WHEEL PANEL
3. STEERING WHEEL
4. ROLLBAR
5. SQUEEGEE HOSE
6. DRAIN HOSE CAP
7. DRAIN HOSE
8. RECOVERY TANK DRAIN HOSE CAP
9. SOLUTION TANK
10. RECOVERY TANK
11. RECOVERY TANK COVER
12. SEAT
13. SOLUTION TANK CAP
14. DRIVE PEDAL
15. SOLUTION TANK DRAIN CAP
16. TRACTION WHEEL
17. FRONT LIGHT
18. SQUEEGEE ASSEMBLY
19. REAR WHEELS
20. BRUSHES BASE ASSEMBLY
21. DETERGENT SOLUTION FILTER
22. FOOTBOARD





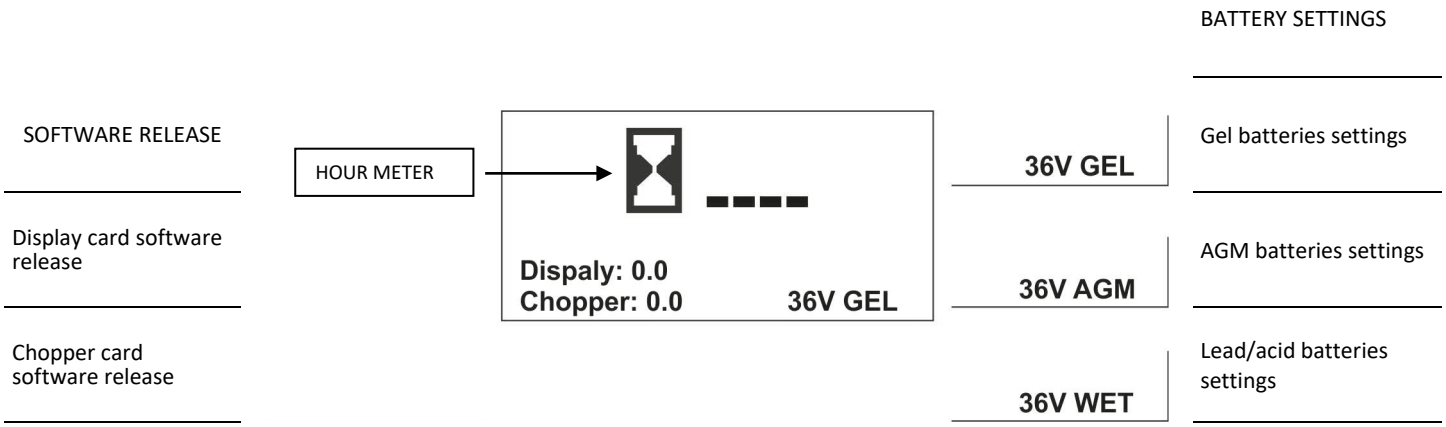
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DISPLAY READING

DISPLAY WHILE SWITCHING ON
When the machine is switched on, the display shows the following screen.



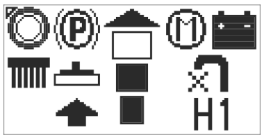
Next screen will be displayed as follows:



This screen can be displayed any time by pressing simultaneously the ▲▼ buttons

CONTROLS DISPLAY

Standard Mode



Suction motor off		Parking brake on		Maximum speed level set		Battery charge level		Standard mode selection	
Suction motor on		Automatic mode						Solenoid valve on	
Suction motor quiet mode		Manual mode						Solenoid valve off	
								3S mode selection	3S
								3SD solenoid valve active	3SD
								3SD solenoid valve active	
Brush base up								3SD solenoid valve inactive	
Brush base down		Squeegee up						Ozone mode selection	O_3
Brushes on		Squeegee down						Ozone mode selection + 3S	$O_3$3S

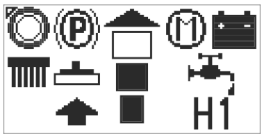
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Brush base pressure level	P1

Water flow level	H1
Detergent solution % used	0,3%

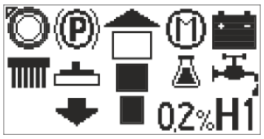
After selecting the 3S or the 3SD mode (see the 3S/3SD mode paragraph), the display will show the following controls:

3S mode



Solenoid valve on	
Solenoid valve off	
Water flow level	H1

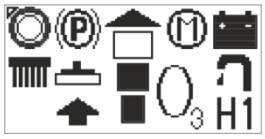
3SD mode



Solenoid valve on		Detergent percentage	0,2%
Solenoid valve off			
Water flow level	H1		

After selecting the Ozone mode (see Ozone mode selection chapter), the display will show the following inputs:

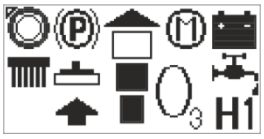
Ozone mode



Solenoid valve open	
Solenoid valve closed	

If the machine is equipped with the Ozone system and an optional hydraulic circuit (3S or 3SD) and is chosen to combine the Ozone with one of these two systems, the display will show the following inputs:

Ozone mode + 3S or 3SD



Solenoid valve open	
Solenoid valve closed	
Water flow level	H1

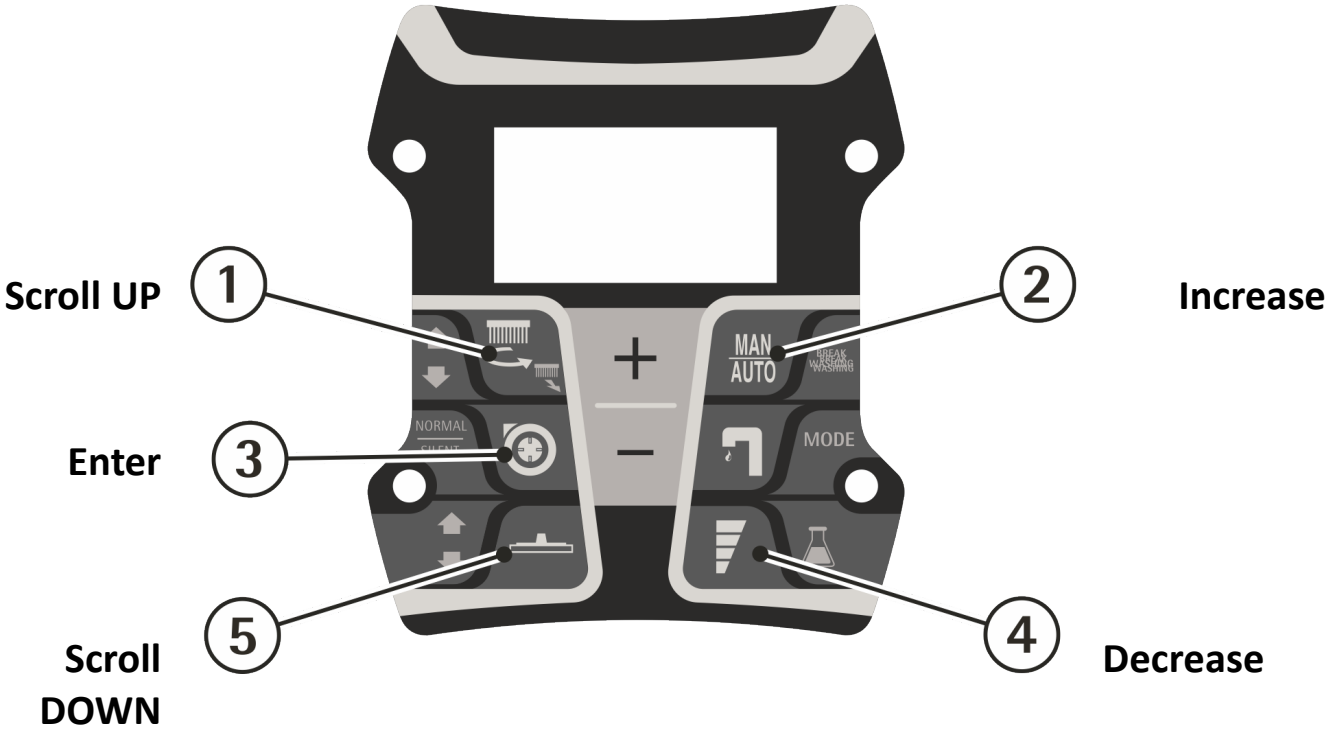
After selecting the break washing mode (see Break Washing mode selection chapter), the display will show the following input:

Mode break washing



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NAVIGATION CONTROLS



GENERAL SETTINGS
To enter the general settings menu, use the controls panel as follows:

1. Keep the buttons (1) and (4) pressed simultaneously.
2. Turn the key on.
3. When "INSERT PASSWORD:0" is displayed, press the ENTER button (3).

Once entered the GENERAL SETTINGS it will be possible to change the following settings by simply scrolling the controls menu using buttons (1) and (5).

DISPLAY LANGUAGE SELECTION
English is the default language that can be switched to Italian.
To select the language first display “Language", then select it using buttons (2) and (4).
Use button (3) to confirm.

CHANGING THE BATTERY SETTING
Once entered the general setting it is possible to set the machine depending on the batteries installed (AGM / GEL / LEAD-ACID).
To select the proper setting first display "BATTERY", then select it scrolling with buttons (2) and (4).
Use button (3) to confirm.



A wrong setting may result in an irreversible damage of the battery.
ALWAYS check to have set the proper parameter.
You can the battery setting when the machine is switched on (see "BATTERY SETTINGS or DISPLAY READING").

DISPLAY TUNE (DISPLAY CONTRAST)
Once entered the general setting it is possible to improve the display contrast using button (2) to increase it and button (4) to decrease it.
Use button (3) to confirm.

DISPLAY BRIGHTNESS
Once entered the general setting it is possible to increase or decrease the display brightness using button (2) to increase it and button (4) to decrease it.
Use button (3) to confirm

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MANUAL SYMBOLOGY



Icon denoting the open book.
Indicates that the operator has to read the manual before the use of the machine.



Warning Icon.
Read carefully the sections marked with this symbol, for the security of both the operator and the machine.



Symbol indicating operations to be carried out only by qualified personnel.



Icon indicating the part of the manual related to machine use.



Simbolo del libro aperto.
Per il buon funzionamento del caricabatterie, fare riferimento al manuale d'uso del costruttore.



Symbol preceding an information about the correct use of the machine.



Icon indicating the part of the manual related to the unboxing, preparation and start of the machine.



Icon indication the part of the manual related to the maintenance of the machine.

REMAINING RISKS AND INDIVIDUAL PROTECTION DEVICES

For all maintenances it is needed to be provided with the following **individual protection devices.**
For all assemblance of devices external to the machine (for example batteries), **strictly follow the manual provided by the producer.**



Warning Icon.
Risk of acid leakage from the batteries.



Obligation symbol requiring the wear of protection glasses for all those maintenances which lead to getting in touch with cleaning products.



This icon points that it is imperative to disconnect the wiring from the batteries acting upon the connector before any operation on the machine.

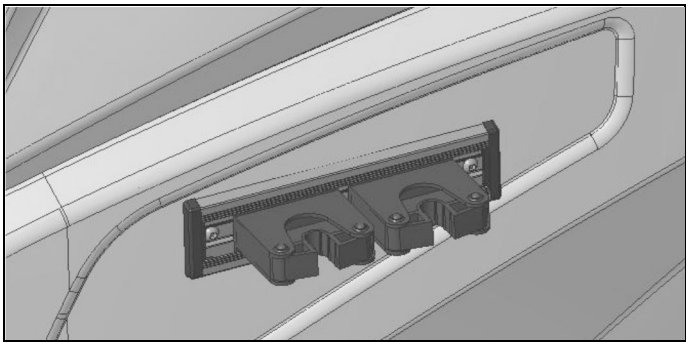


Obligation symbol requiring the wear of protection gloves for all those maintenances which lead to getting in touch with cleaning products.

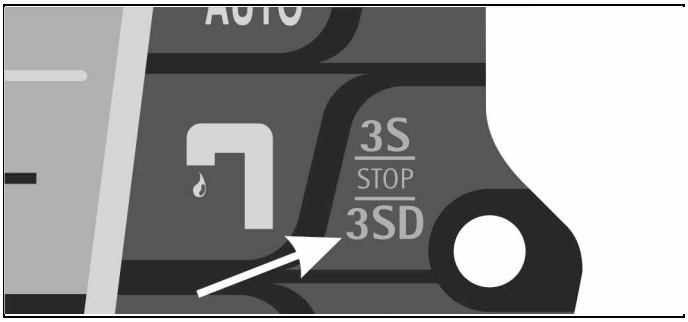
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OPTIONALS

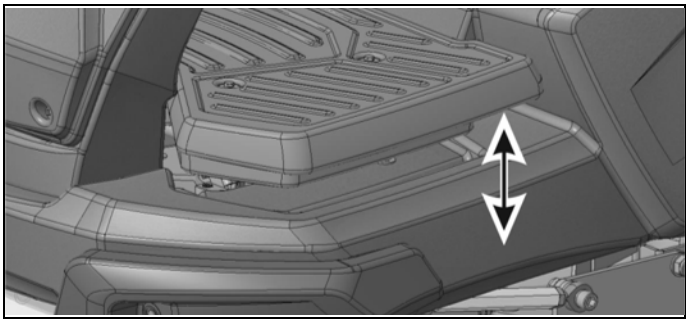
Optionals support



3SD System (Solution Saving System Dispenser)



Operator platform adjustment



Ozone system



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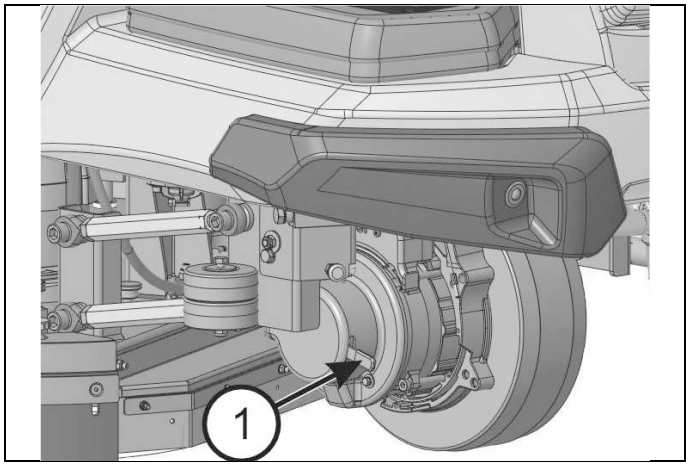
BEFORE USE

HANDLING OF THE PACKED MACHINE
The machine is supplied with suitable packing foreseen for fork lift truck handling.
For the package dimensions please look at the “TECHNICAL DESCRIPTION” table.

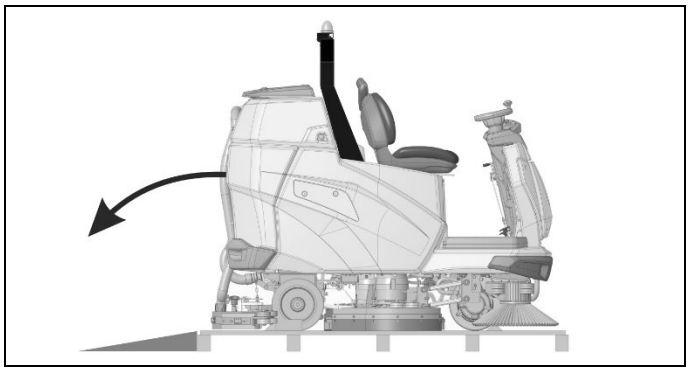
Do not place more than 2 packagins on top of each other.

UNPACKING THE MACHINE
1. Remove the external packing.
2. Before moving the machine from the pallet, it is necessary to unblock the parking brake that blocks the traction motor wheel. To do this, keep the lever (1) lifted. With the delivery of the machine we also supply a cord that permits the lever operation (1). After having moved the machine, take off the cord and keep it for eventual re-use.

When the parking brake is released manually, for example when the machine has to be moved without batteries, avoid covering slopes and do not park on them either.



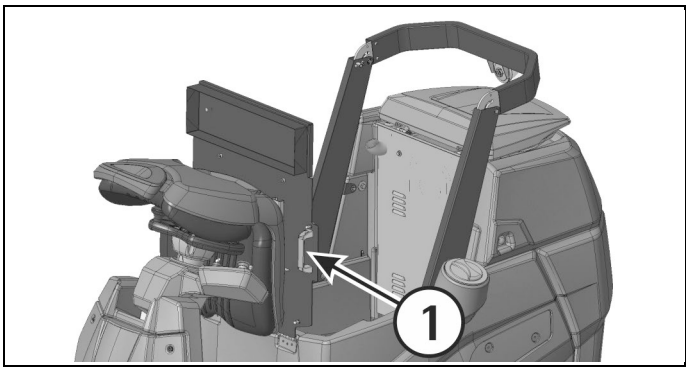
3. Release the machine from the wooden brackets by moving it backwards, as indicated in the figure, avoiding heavy contacts to mechanical parts.



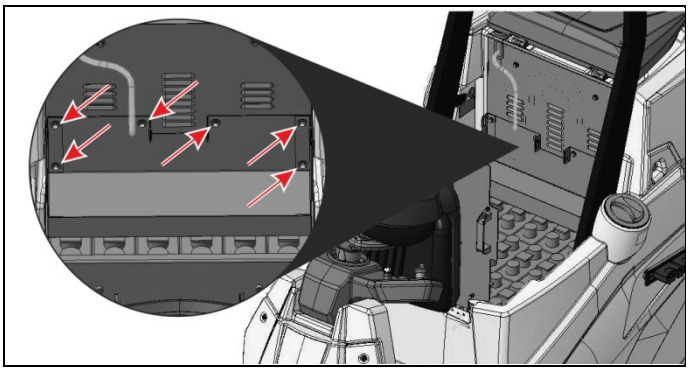
Keep the pallet and the wooden brackets for an eventual transport.
The portable slope is not included in the packaging.

INSTALLATION OF FIXED ROLL BAR
For packaging purposes, the roll bar crossbar is supplied disassembled.
Proceed as follows:
1. Connect the connectors (1) to power the warning light.
2. Position the roll bar crossbar in the designated mounting points on the uprights (2).
3. Secure the roll bar using the appropriate screw.

ACCESS TO THE BATTERY COMPARTMENT
Open the rollbar.
To reach the battery compartment lift the seat base by grabbing the handle (1).



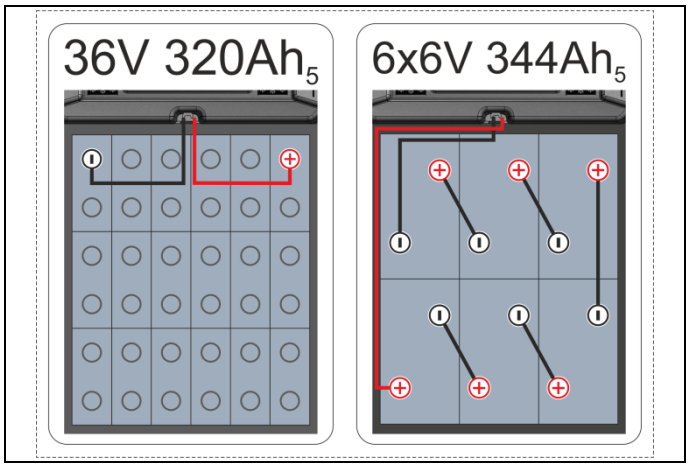
If the machine is equipped with the optional 3SD water system, it is necessary to take off the support of the detergent tanks after lifting the seat base.
To remove the support, unscrew the 6 fixing screws.



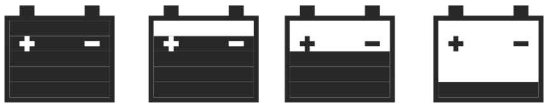
INSTALLING THE BATTERIES
The standard machine is provided with the batteries set on lead/acid.
For different settings see chapter “BATTERY SETTINGS”.
Batteries must be handled using suitable lifting equipment (due to weight, considering the type of batteries chosen, and coupling system).
The batteries must be in accordance with CEI EN 60254-1 Norms.

Strictly follow manufacturer/distributor indications for the maintenance and recharge of the batteries. All installation and maintenance operations must be executed by specialized staff, using suitable protection accessories.

For batteries installation it is necessary to reach the battery compartment as indicated under paragraph “ACCESS TO THE BATTERY COMPARTMENT”.
1. Place the batteries in its compartment.
2. Connect the terminals, respecting the polarities, avoiding contact with other parts that could create short circuit.



BATTERIES CHARGE LEVEL INDICATOR
The battery charge level is visualized on the display with its respective symbol (see "CONTROLS DISPLAY").





When the last segment of charge starts blinking, the battery is almost low and the suction and brushes functions are disabled.



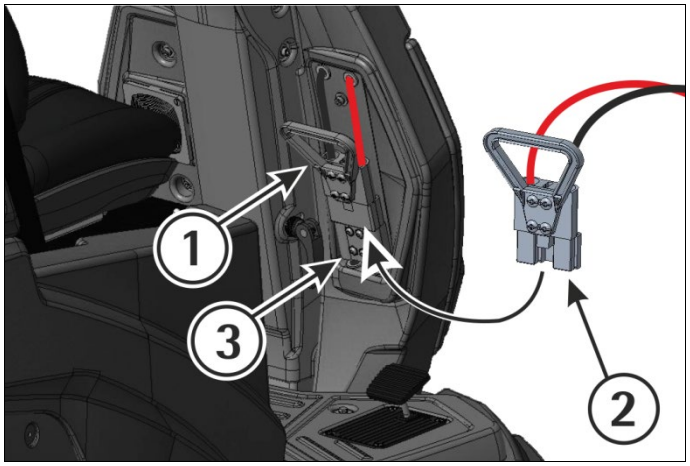
When even the last segment of charge turns off, the battery is completely low and the machine stops.

CHARGING THE BATTERIES

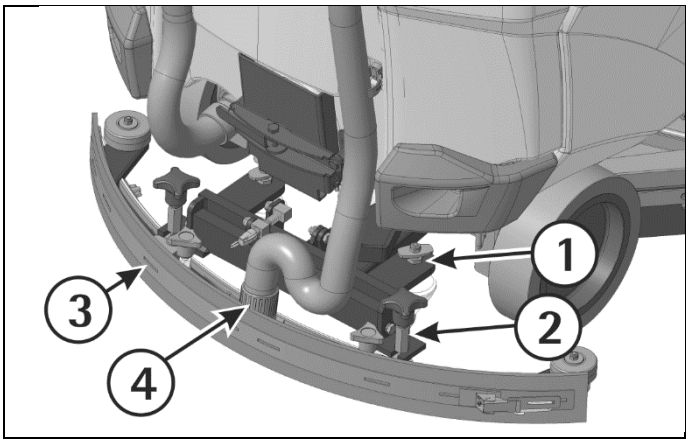


1. Plug the connector (2) of the battery recharger into the battery connector (1).
2. Proceed for the recharging.

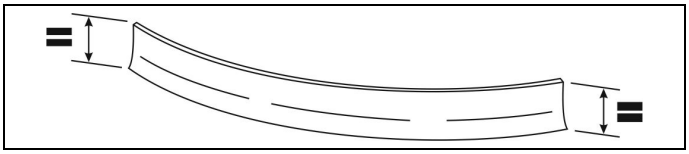
Once that the battery recharging is completed:
3. Disconnect the connector of the battery recharger from the battery connector (1).
4. Connect instead the machine connector (3).



SQUEEGEE ASSEMBLY
1. Insert the two stud bolts (2) situated on the upper part of the squeegee (3) inside the slots present on the support (1).
2. To block the squeegee, tighten the stud bolts (2).
3. Insert the squeegee hose (4) into its coupling, respecting its position as indicated in the figure.



ADJUSTING THE SQUEEGEE
In order to have a perfect drying result through the squeegee, the rear rubber must have the lower bending uniformly adjusted in all its length. For the adjustment, it is necessary to put oneself in working condition and therefore the suction motor has to be switched on and the brushes have to function together with the detergent solution.

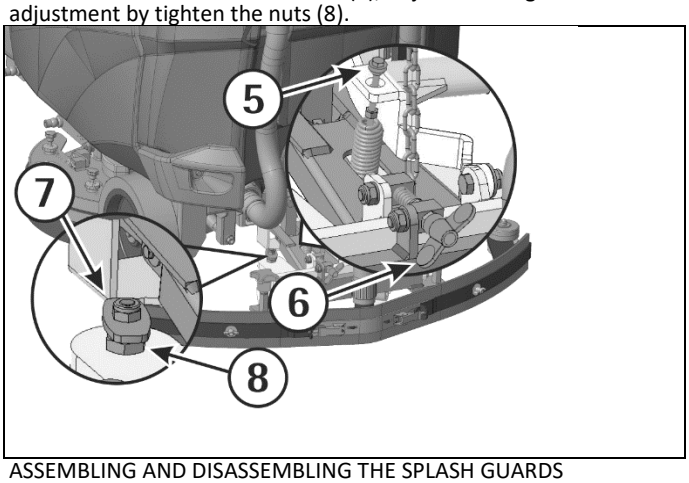


<u>The lower part of the rubber is too much bent</u>
Take off the pressure rotating the wing nut (5) counterclockwise.

<u>The lower part of the rubber is not much bent</u>
Increase the pressure rotating the wing nut (5) clockwise. Check that the wheels which adjust the height do not rest on the floor, in this case adjust them as indicated in paragraph "Height adjustment".

<u>The bending is not uniform</u>
Adjust the squeegee inclination rotating counterclockwise the wing nut (6) to increase the bending in the central part, or clockwise to increase the bending on the extremities.

<u>Height adjustment</u>
Once that the pressure and inclination of the squeegee have been adjusted, it is necessary to fix this optimum condition making touch slightly the wheels onto the floor. Rotate clockwise the registers (7) to lower the wheels or counterclockwise to raise them. Both wheels must be adjusted in the same measure. To act upon the register (7) loosen at the same time the nuts (8), adjust the height then fix the adjustment by tighten the nuts (8).



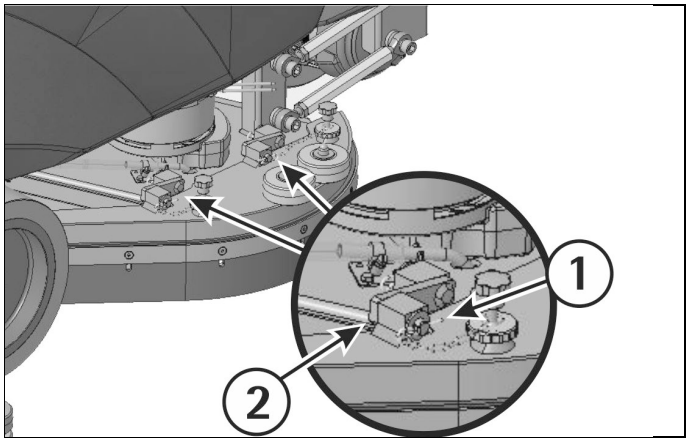
ASSEMBLING AND DISASSEMBLING THE SPLASH GUARDS



For the splash guards cleaning, it is necessary to take off the two metal covers.
To assemble the covers, it is necessary to proceed as follows:

1. Take off the clips (1) present on the pins (2) fixed to the brushes base.
2. Take off the cover from the brushes base.

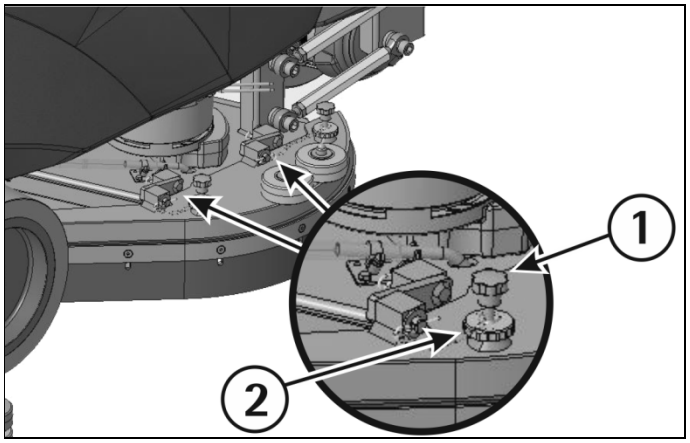
For the assembly it is necessary to proceed inversely with above-mentioned operation.



ADJUSTING THE SPLASH GUARDS

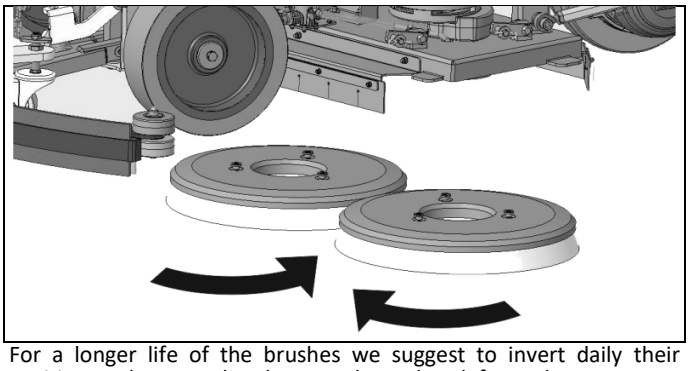
When the brushes base is lowered on the floor the splash guards have to slightly touch the floor. To adjust them proceed as follows:

1. Loosen the rings (2).
2. Turn the knob (1) clockwise to raise the splash guards or counterclockwise to lower them.
3. Fasten the ring (2).

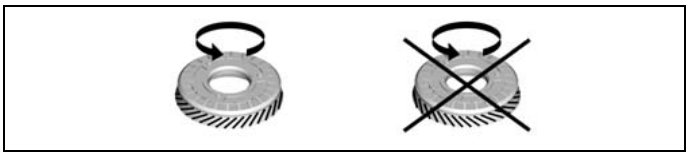


ASSEMBLING THE BRUSHES

To assemble the brushes, it is necessary that the brushes base is in the lifted position. If it is not lifted, proceed as follows:
Without the operator seated, turning the key switch clockwise, the display comes on and after 3 seconds all working groups come off automatically and are lifted from the floor.
Switch off the machine turning the key counterclockwise.
With the brushes base group in lifted position lock the brushes rotating them as in the picture below.

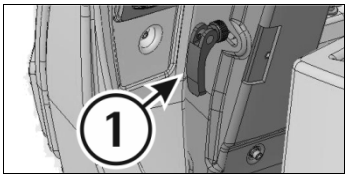


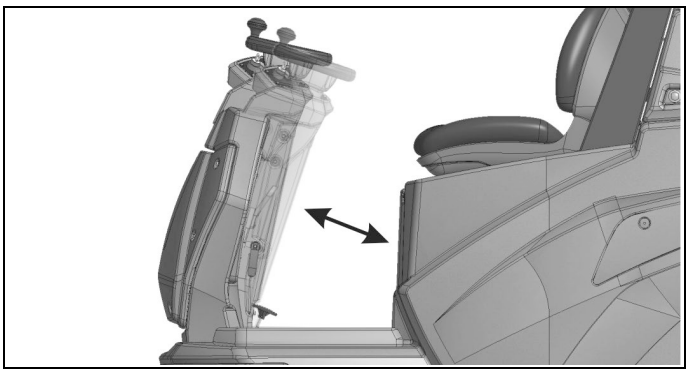
For a longer life of the brushes we suggest to invert daily their position. Whenever brushes result to be deformed we suggest reassembling them in the same position, in order to avoid that the different inclination of the bristles causes excessive motor overload or troublesome vibrations.



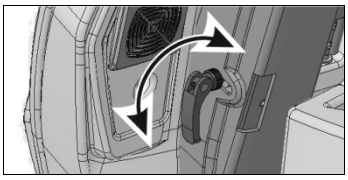
ADJUSTING THE STEERING WHEEL

Using lever (1) it is possible to unlock the steering wheel to adjust the distance from the operator.



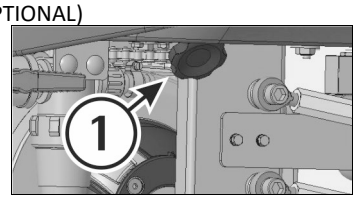


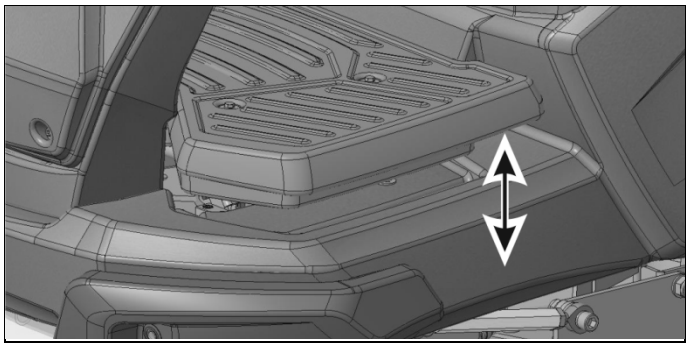
To increase or decrease the lever locking strength, turn the ferrule.



ADJUSTING THE FOOTBOARD (OPTIONAL)

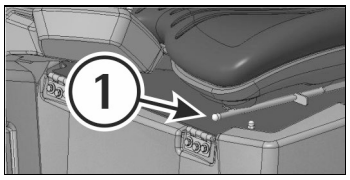
Using the knob (1) it is possible to adjust the height of the footboard.

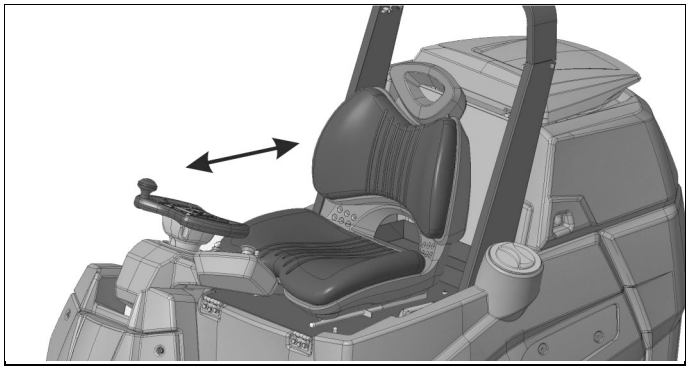




ADJUSTING THE SEAT

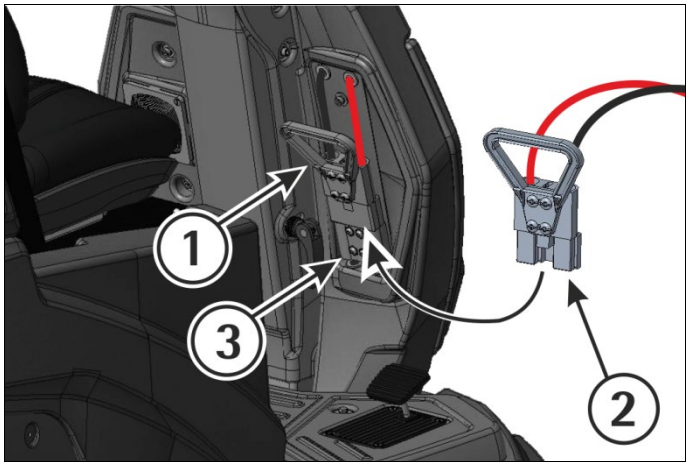
Using the lever (1) it is possible to adjust the seat position.





FLOOR CLEANING

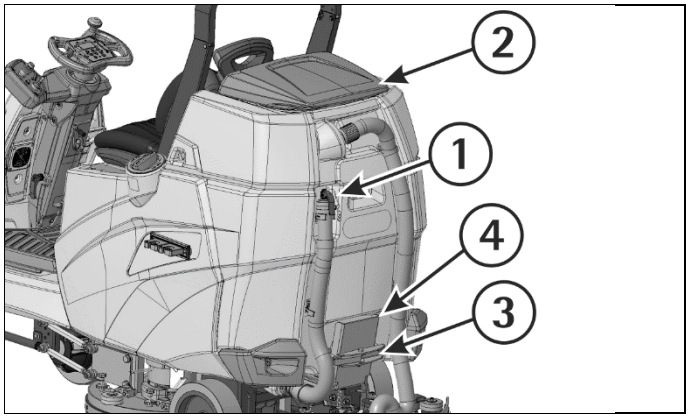
CONNECTING THE BATTERY CONNECTOR AND SWITCHING ON THE MACHINE
Once that the battery recharging has been completed:
1. Disconnect the connector (2) of the battery recharger from the battery connector (1).
2. Connect then the battery connector (1) to the machine connector (3).



RECOVERY TANK



Verify that the exhaust pipe cap (1) is well tightened and placed properly in its position.
The recovery tank is provided with a cover (2) that blocks itself thanks to the vacuum created by the suction motor during the use.
Finally verify that the closure lever (4) of the service door, situated at the lower part of the tank, is properly tightened.



SOLUTION TANK
The capacity of the detergent solution tank is indicated in the technical data.
Unscrew the cap placed on the left part of the machine and fill the detergent solution tank with clean water at a maximum temperature of 50°C. Add the liquid detergent in the percentage and conditions foreseen by the manufacturer. To avoid excessive foam presence, which could cause problems to the suction motor, use the minimum percentage of detergent.

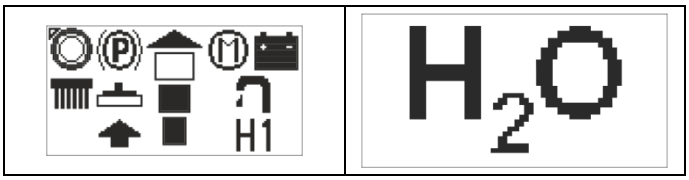


Screw the solution tank cap.

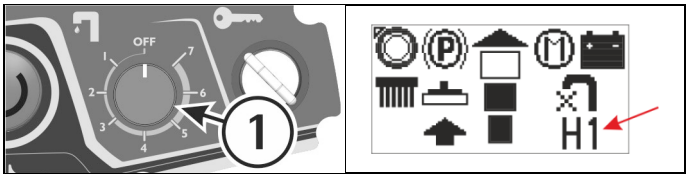


Use always low foam detergent.
Protect yourself from accidental contact or splashes with the protection devices provided by the detergent manufacturer.
To avoid foam presence, before starting working operation, introduce into the recovery tank a minimum quantity of anti-foam product.
Never use pure acid.

DETERGENT SOLUTION RESERVE SIGNAL
When H_2O appears on the display it means that the machine is running out of detergent solution, so there are about 20 liters left.
This signal is both on full display and in small display.



FLOW RATE SELECTION
Using the selector (1) the solenoid valve can be activated or turned off.
The level changes the value of H from H1 to H7 and on the display the flow rate will be immediately displayed.

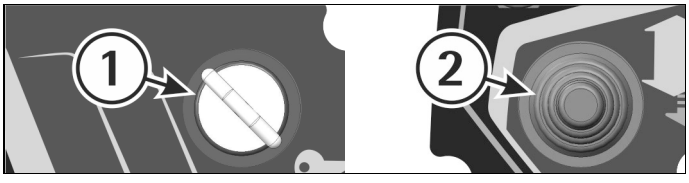


When in standard mode the detergent solution flow stays the one that has been set.
In 3S mode the detergent solution flow changes depending on the speed of the machine.

WORK

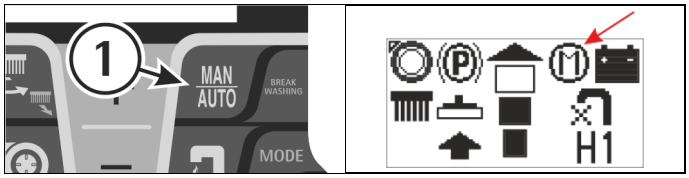
A safety device avoids the machine's movement if the operator is not properly placed on the seat.

To turn on the machine:
1. Step on the footboard.
2. Turn the key (1) clockwise to turn on the machine.
3. Check the battery level on the display.
   The machine will go automatically in manual mode (MAN).
4. Select the driving direction using the lever (2).

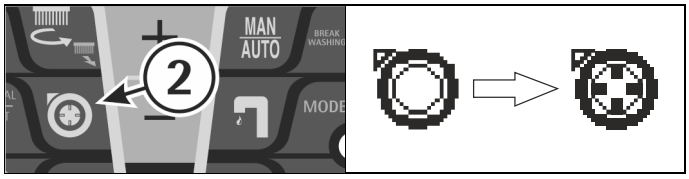


MANUAL MODE WORK

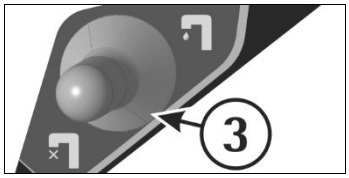
1. Check that the machine is set in manual mode, if not press button (1) and the display will show the corresponding symbol.



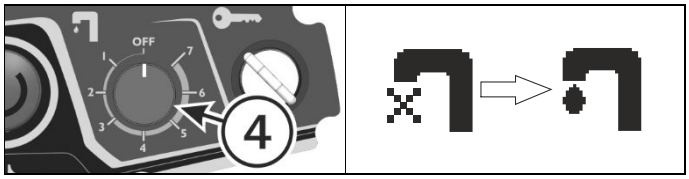
2. Press the suction motor button (2); the suction motor symbol changes depending if the motor is turned on or off, the motor will then start to work.



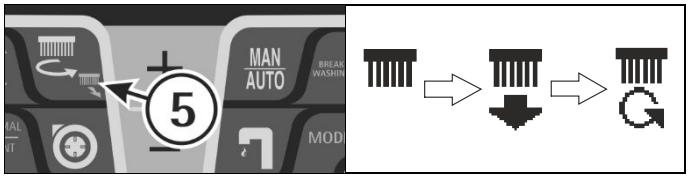
3. Operate the solenoid valve switch (3) to enable the release of the detergent solution.



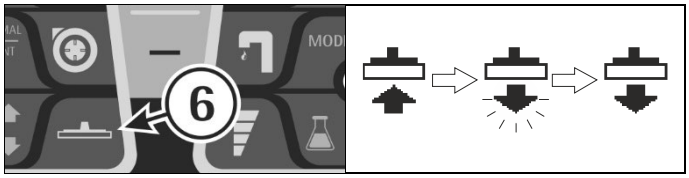
4. Adjust the detergent solution flow rate by using the selector (4).



5. Lower the brushes base on the floor pressing button (5); the display will show first the lifting down symbol and then the brushes on symbol.



6. Lower the squeegee pressing the button (6).



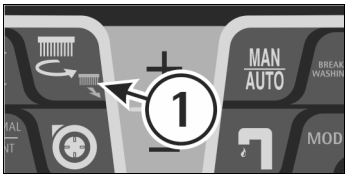
7. While running the first meters, check that the squeegee adjustment guarantees a perfect drying action and that the detergent solution flow is appropriate. It has to be sufficient to wet the floor uniformly avoiding the leakage of detergent from the splash guards. Always consider that the correct quantity of solution detergent depends on the type of floor, dirtiness and machine speed.

Manual mode:

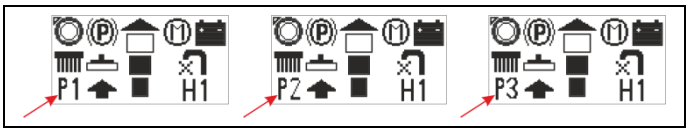
– Lowering the squeegee with the suction motor off will automatically turn on the suction motor;
– Turning off the suction motor with the squeegee lowered down will automatically lift up the squeegee and turn off the suction motor.
– If it is necessary to stop the flow of the detergent solution during operation, operate the solenoid valve switch (3).

BRUSHES PRESSURE ADJUSTMENT

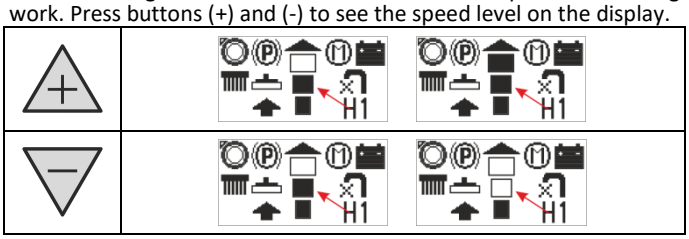
To adjust the pressure press button (1) twice.



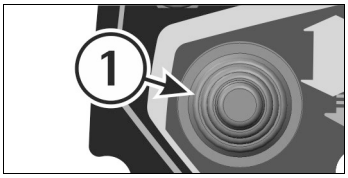
On the display value P1, P2 or P3 will blink.
Press the buttons (+) and (-) to select the pressure, the value will set once it will stop blinking on the display.



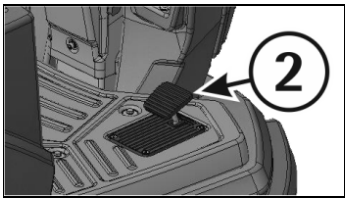
SPEED ADJUSTMENT, FORWARD AND BACKWARD
Before running the machine select the maximum speed level during work. Press buttons (+) and (-) to see the speed level on the display.



To move the machine, select the direction using the lever (1) placed on the dashboard.



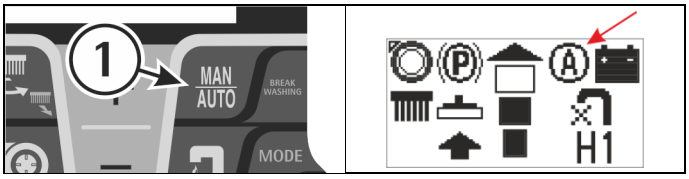
Press the pedal (2) placed on the footboard to enable the speed.
Use the pedal (2) to adjust the speed during work. The speed will change from the minimum to the maximum previously set and visible on the display.



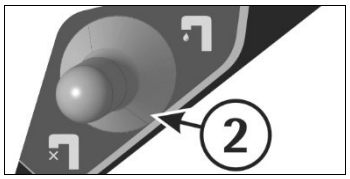
If backward movement is selected the brush base will stay down, the squeegee will lift up.
When the forward movement will be selected again the squeegee will go down.

AUTOMATIC MODE WORK
Automatic mode is helpful to simplify the operator work.

1. Check that the machine is set in automatic mode, if not press button (1) and the display will show the corresponding symbol.



2. Operate the solenoid valve switch (2) to enable the release of the detergent solution.



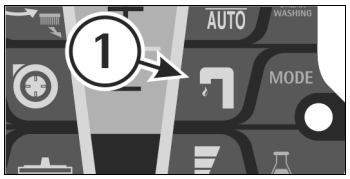
3. Press the pedal placed on the footboard.
Once the pedal is pressed the machine runs forward, the brush base goes down and simultaneously the squeegee goes down, then the solenoid valve opens itself and brushes and suction motor start working.
Before running the machine, it is possible to set the brushes pressure and the detergent solution level.
The values set will show immediately on the display.
To adjust the detergent flow, see under “FLOW RATE SELECTION”.
After releasing the pedal: the brush base goes up, the brushes motors stop, the solenoid valve closes itself and the suction motor shuts off.

If during working in automatic mode the brush base or squeegee button is pressed, the machine switches to manual mode.

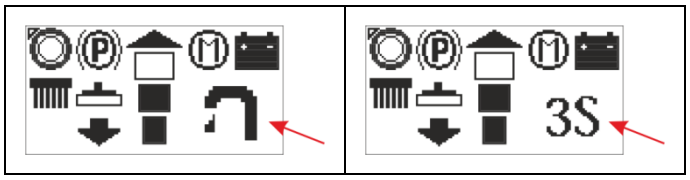
STANDARD MODE - 3S
The detergent solution flow rate is always adjusted using an 8 way manipulator (see chapter “FLOW RATE SELECTION”).
When in standard mode the detergent solution flow is constant, related to the number selected with the manipulator.
In 3S mode the flow rate selected with the manipulator changes depending on the speed of the machine in order to have a constant amount of water for each square meter.
If the machine is not moving the speed is 0 then no water comes out.

SELECTION MODE STANDARD - 3S

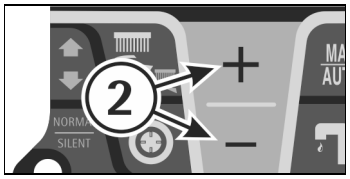
To switch from a mode to another press the button (1) once.



On the display the related circuit symbol starts blinking (see chapter “FLOW RATE SELECTION”).



Press the buttons (2) to select the desired mode.



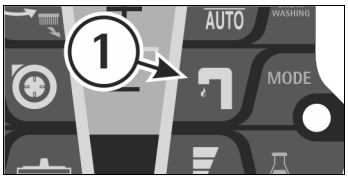
After a couple of seconds the symbol will stop blinking and the mode will be selected.

OPTIONAL MODE – 3SD (SOLUTION SAVING SYSTEM DISPENSER)
It is a system that allows the predefined dosage of the percentage amount of detergent that will be mixed with the water coming from the solution tank.
The detergent solution flow rate is always adjusted using an 8-way manipulator (see chapter “FLOW RATE SELECTION”).

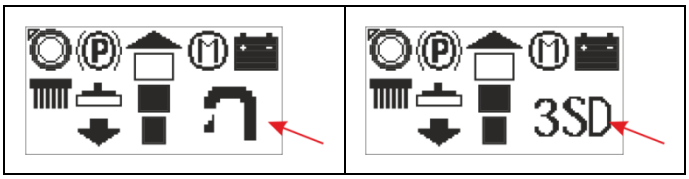
If the automatic dosing system is not used for long periods, it is advisable to wash the hoses with water only by running the pump for a few minutes. To do this, use a tank filled with water only.

SELECTION MODE STANDARD – 3SD

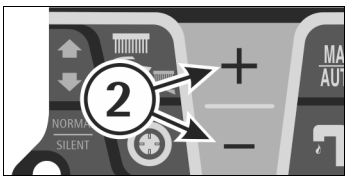
To switch from a mode to another press the button (1) once.



On the display the related circuit symbol starts blinking (see chapter “FLOW RATE SELECTION”).



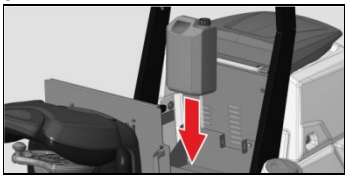
Press the buttons (2) to select the desired mode.



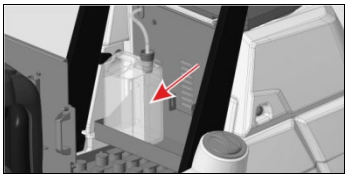
After a couple of seconds, the symbol will stop blinking and the mode will be selected.

INSTALLATION DETERGENT TANK (MODE 3SD)
To use the machine in 3SD mode it is necessary to install the tank containing the detergent as follows:

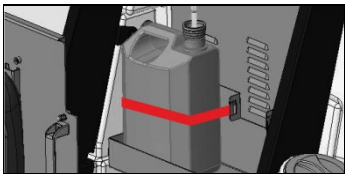
Insert the tank into the appropriate housing.



Remove the cap of the tank and replace it with the adapter.
The hose has to touch the tank bottom.



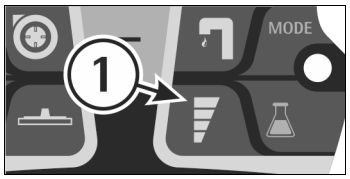
Stop the tank with the belt.



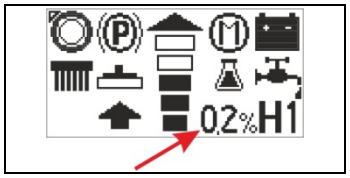
Always choose the detergent according to the dirt to be washed and follow strictly the instructions of the manufacturer.
Do not mix detergents of different types.

SELECTION DETERGENT LEVEL (MODE 3SD)
When using the machine in 3SD mode it is necessary to set the quantity of detergent to be used.

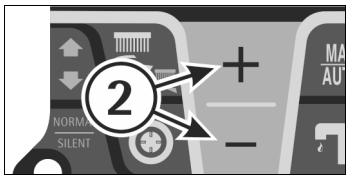
Press the button (1) to select the detergent level.



The percentage value will start blinking on the display.



Press the navigation buttons (2) to select the desired amount of detergent.

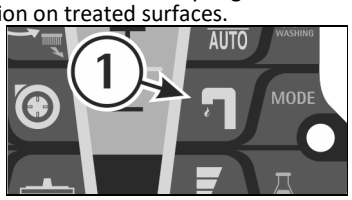


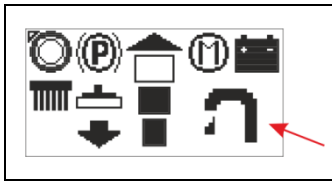
After a few seconds the value stops blinking and the detergent percentage is selected.
With the value 0% only water is used for washing.

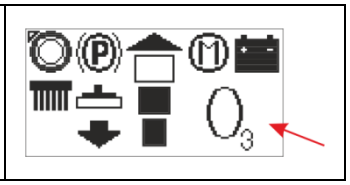
OZONE SELECTION (OPTIONAL)

The machine can produce water with a sufficiently high level of ozone to create a disinfectant action on treated surfaces.

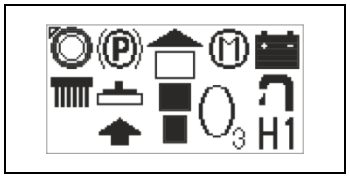
To activate it, press button (1) twice: the water symbol will flash on the display.
Select the Ozone system using the "+" and "-" navigation buttons.







When "O3" stops flashing, the system is selected.



SELECTING THE OZONE FUNCTION WITH THE 3S SYSTEM (OPTIONAL)
The machine, if equipped with these optional systems, can combine cleaning with ozone production and 3S.
Work in ozone mode can be selected in the same way as standard cleaning with ozone – see "OZONE SELECTION" chapter.

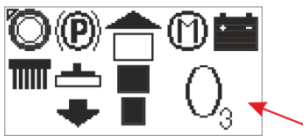
To treat the floor with ozone and use the 3S mode, scroll the menu until the cleaning icon combined with O3 3S appears.

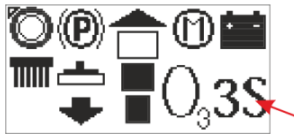


If the machine is equipped with the optional 3SD system, in the list of modes it is possible to select the "O3 + 3S" mode only.

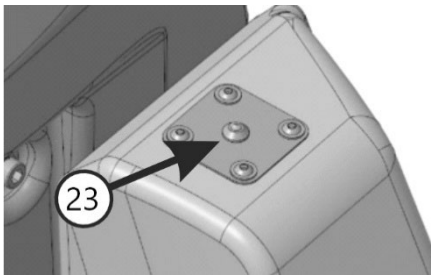
WORK MODE WITH OZONE (OPTIONAL)
To optimally use the ozone system, proceed as follows

1. Make sure that the inside of the solution tank is clean and, if necessary, fill it at least twice and then rinse it out.
2. Fill the solution tank with tap water (do not add any detergent)
3. To select the Ozone or Ozone + 3S system (see the chapters "Ozone Selection" and "Ozone Selection with 3S Mode (Optional)"). When the system is switched on, the green LED on the machine control panel remains off (14).





4. Set the desired water flow rate (see the section "Water/Ozone Mixture Flow Rate Adjustment – Ozone and Ozone + 3S Modes")
5. Enable the brush control (see "Work section").
6. Press the drive pedal to enable movement. When the solenoid valve is activated, the water pump starts and ensures the desired flow within the system.
7. The system carries out a polarity reversal period of 30 seconds at each start-up and every 2 cumulative hours of operation. This phase allows the self-cleaning of the generator in order to ensure its correct operation over time. The polarity reversal time is taken into account only when there is water flow within the system.
8. Once the polarity inversion has occurred, the green LED (23) lights up, indicating that the system is generating ozone. The system allows continuous operation for two hours. At the end of the two-hour period, the system performs self-cleaning again fully automatically.

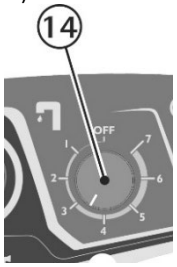


ADJUSTMENT OF THE WATER/OZONE MIXTURE FLOW RATE (O3 MODE)

When the machine is set to O3 mode, the mechanical water flow control valve is bypassed, and the water/ozone mixture is supplied by the water pump.

The water/ozone mixture flow rate is adjusted using the Water Level Selector (1), which has 8 positions:

- OFF: water/ozone mixture delivery disabled.
- H1 ÷ H7: seven flow rate levels, from minimum (H1) to maximum (H7).



In O3 mode, the water/ozone mixture flow rate remains constant and does not vary according to the machine's travel speed.

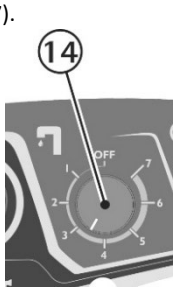
When the function is enabled:
the solenoid valve and water pump are automatically activated when the brush motors are started;
the drop symbol remains illuminated while the function is enabled;
during water/ozone mixture delivery, the drop symbol flashes.



ADJUSTMENT OF THE WATER/OZONE MIXTURE FLOW RATE (O3 + 3S MODE)
When the machine is set to O3 + 3S mode, the mechanical water flow control valve is bypassed, and the water/ozone mixture is supplied by the water pump.

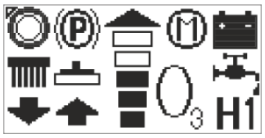
The water/ozone mixture flow rate is adjusted using the Water Level Selector (1), which has 8 positions:

- OFF: water/ozone mixture delivery disabled.
- H1 ÷ H7: seven flow rate levels, from minimum (H1) to maximum (H7).



In O3+3S mode, the water/ozone mixture flow rate automatically varies according to the machine's travel speed, up to the maximum value corresponding to the set level.

When the function is enabled:
the solenoid valve and water pump are automatically activated when the brush motors are started;
the drop symbol remains illuminated while the function is enabled;
during water/ozone mixture delivery, the drop symbol flashes.



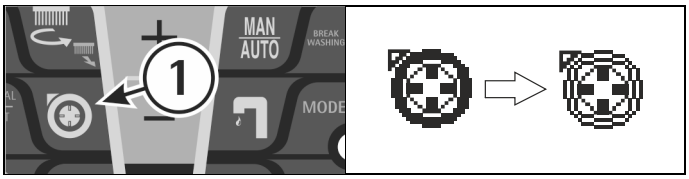


Ozone is a gas with a very pungent odour that can be an irritant.

Ozone-enriched water is highly oxidising; therefore, in order to protect the machine's metal parts against oxidation (rust), the entire lower part of the machine should be rinsed with water at least once a week.

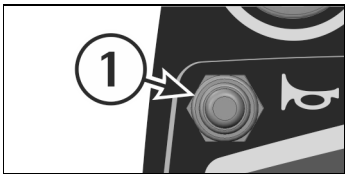
The solution tank does not need to be emptied at the end of the job.

SUCTION MOTOR SILENT MODE
It is possible to start the silent mode of the suction motor by pressing for a few seconds the switch-on button (1) of the suction motor.
When the silent mode is on the symbol on the display changes.

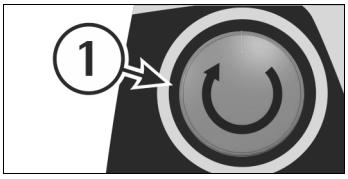


STANDBY MODE
After 10 minutes of inactivity, if the machine is on, it goes in stand-by mode and the display turns off. To start again press any button on the instrument board or press the drive pedal, the display will then turn on again and after a few seconds the machine returns operative.

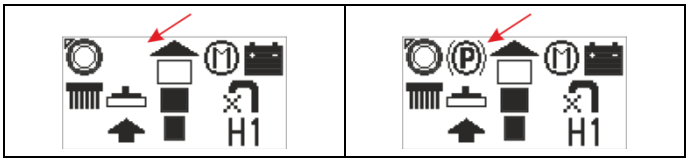
HORN
The machine is provided with a horn that can be activated pressing button (1).



EMERGENCY BUTTON
In case of emergency press button (1) placed on the dashboard. All the functions and the movement will be immediately disabled.
To reactivate them turn the button clockwise.



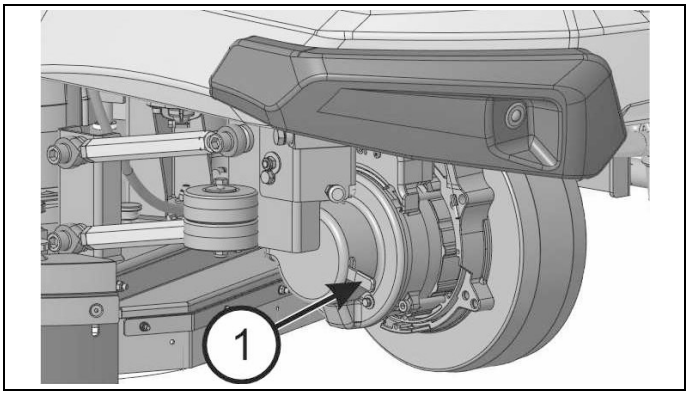
PARKING BRAKE
The machine is equipped with a parking brake on the traction motor wheel that operates at the complete release of the pedal or when the machine is without batteries. In case of an emergency or simply to stop the machine, it is sufficient to release the pedal. The brake remains inserted up to when the pedal is pressed again. When the batteries are connected and when the key switch is positioned on 1, on the display the brake signal comes on.



MANUAL MOVEMENT OF THE MACHINE
To move the machine manually, it is necessary to unblock the parking brake that blocks the traction motor wheel. To do this, keep the lever (3) lifted. With the delivery of the machine we also supply a cord that allows the lever operation (3).
After having moved the machine, take off the cord and keep it for eventual re-use.



When the parking brake is released manually, for example when the machine has to be moved without batteries, avoid covering slopes and do not park on them either.



EN

OVERFLOW SYSTEM



In order to avoid major damages to the suction motors the machine is equipped with a floater that works when the recovery tank is full. The symbol is shown on the display.



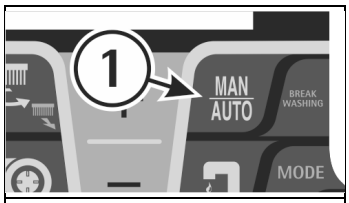
When this happens, it is necessary to drain the recovery tank (see chapter “DRAINING AND CLEANING THE RECOVERY TANK”).

STOP OF THE MACHINE AFTER CLEANING OPERATION

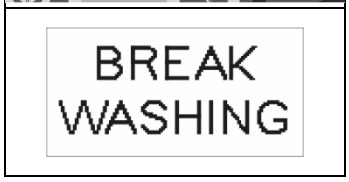
BREAK WASHING MODE

IN AUTOMATIC OR MANUAL WORKING MODE:

1. At the end of the washing cycle, keeping the button (1) pressed, the functioning of BREAK WASHING is chosen. When the signal lamp (2) is on, then the machine is in BREAK WASHING mode.



2. When the mode is on, the display will show BREAK WASHING.



In this way automatically the brushes lift, the solenoid valve shuts down and it is possible to finish the drying operation for a total time of about 15 seconds, afterwards also the squeegee is lifted and the suction stops.

NOTE: all these phases are carried out with the machine operating, so that the squeegee can dry the interested cleaning area from the "drying phase of the brushes" and furthermore can dry the suction hose of its dirty water. At any time it is possible to interrupt the procedure BREAK WASHING by stopping the drive.

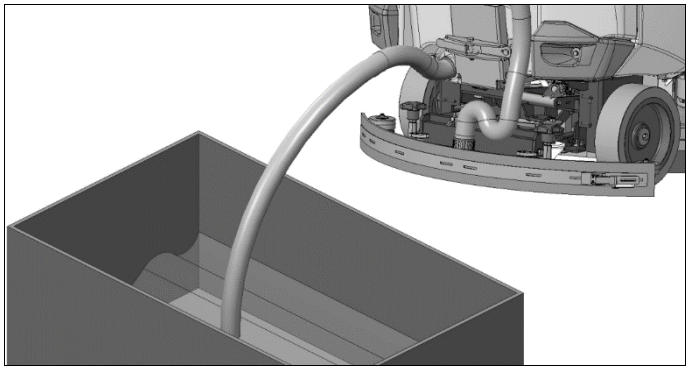
During the BREAK WASHING, if the drive pedal is released for more than 3 seconds the machine will automatically switch to manual mode (MAN).

The mode (BREAK WASHING) is specific for the transfer at the end of the cleaning operation.

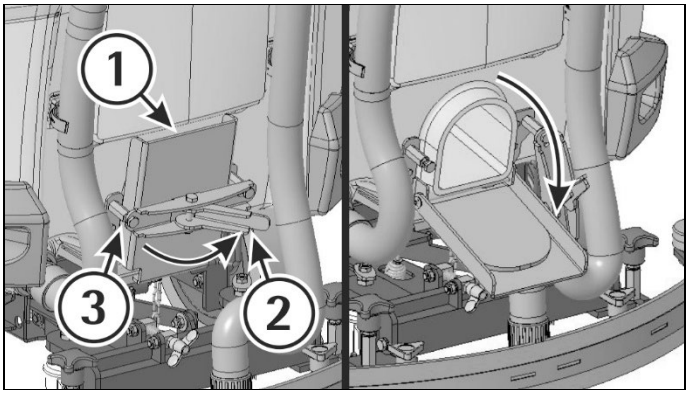
DAILY MAINTENANCE

DRAINING AND CLEANING THE RECOVERY TANK

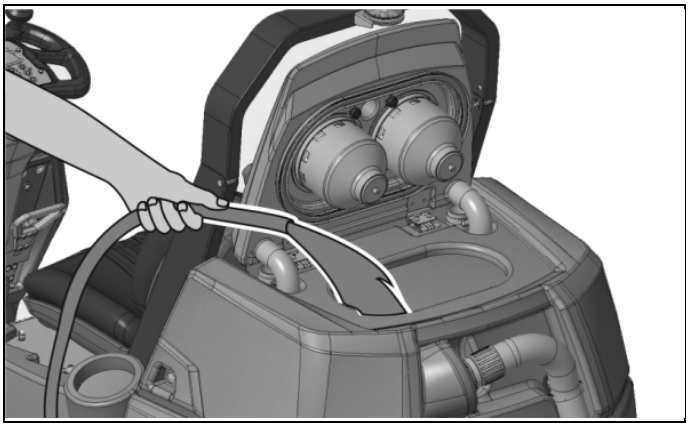
1. Hold the exhaust hose placed on the rear part of the machine after having taken it off from its fixing support.
2. Take off the plug from the exhaust hose acting upon its lever and empty the recovery tank into appropriate containers, in compliance with the respective rules what the liquid disposal concerns.



3. After fully emptying the tank, open the lower service door (1). In order to do it, move the lever (2) til to free the closure support (3).

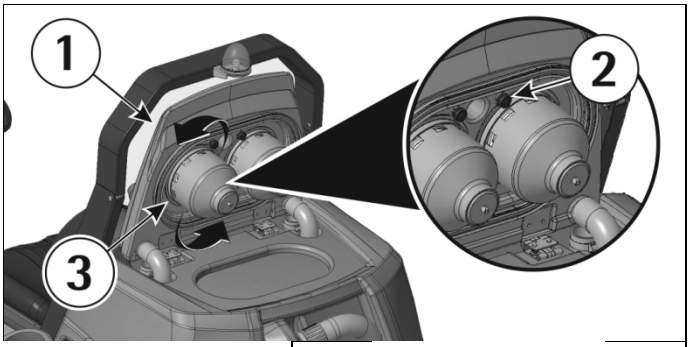


4. Clean the inside of the tank using a water jet.



CLEANING THE SUCTION FILTER

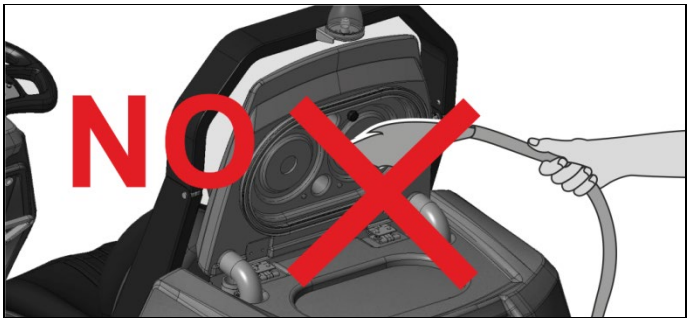
1. Open the cover (1) and unscrew the knob (2) to release the filter protection (3).
2. Rotate the filter protection clockwise to release it.



3. Take off the filter and its protection.
4. Clean with a water jet especially the bottom part and the sides of the filter.
5. Do the cleaning procedure precisely.
6. Reassemble the filter.

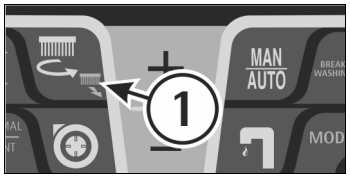


Absolutely do not clean the inside of the recovery tank cover otherwise the suction motor will be damaged irreversibly.



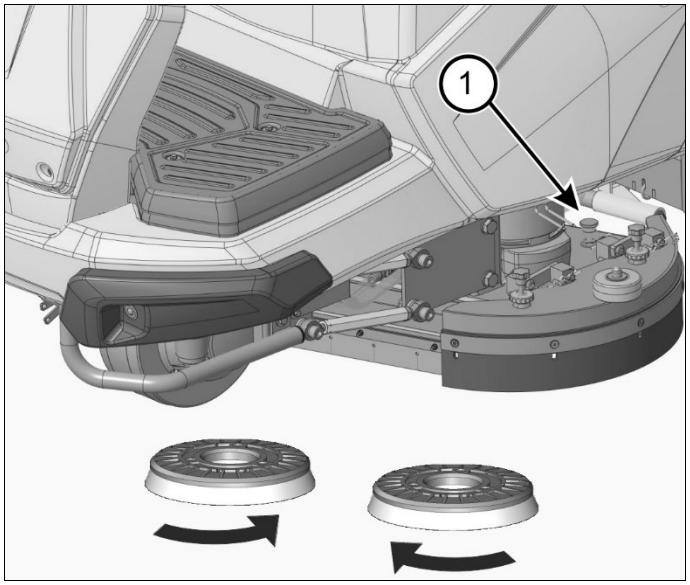
AUTOMATIC DISASSEMBLY OF THE BRUSHES

With the brushes base lifted from the floor and the manipulator of the direction in central position press the brushes base button (1) for a few seconds.



DISASSEMBLING THE BRUSHES

With the brush base lifted up (see chapter “ASSEMBLING THE BRUSHES”) rotate energically the brushes while holding down the brush lock button in order to unlock the spring button to take them off and clean them with a water jet. In the picture it shows how to unlock the brushes.

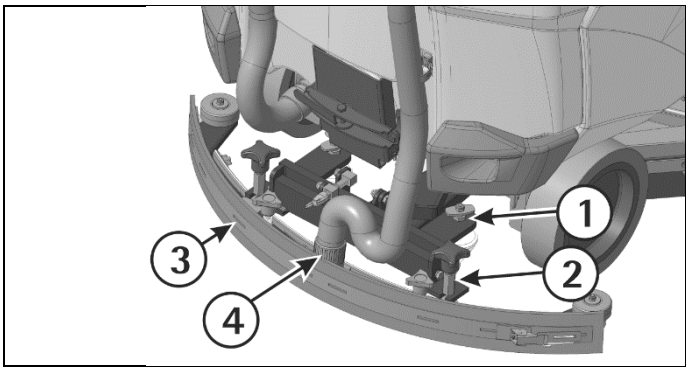


CLEANING THE BRUSHES

Take off the brushes to clean them with a water jet (to read how to do it see chapter “AUTOMATIC DISASSEMBLY OF THE BRUSHES”).

CLEANING THE SQUEEGEE

Keeping the squeegee clean guarantees always the best drying result. For its cleaning it is necessary to:
1. Take off the squeegee hose (4) from the coupling.
2. Disassemble the squeegee (3) from its support (1) loosening the stud bolts (2) and making them slide inside the slots up to release them.
3. Clean with care the internal part of the squeegee inlet eliminating eventual dirt residuals.
4. Clean with care the squeegee rubbers.
5. Reassemble all parts.

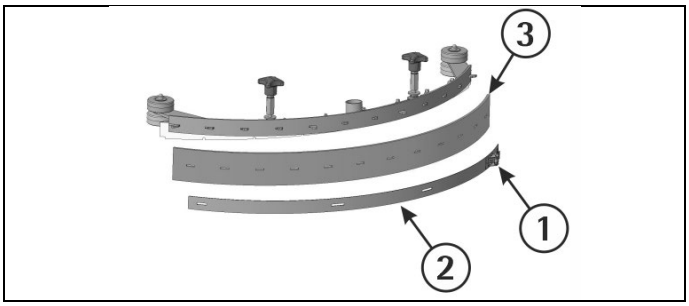


WEEKLY MAINTENANCE

REAR SQUEEGEE RUBBER CHECK

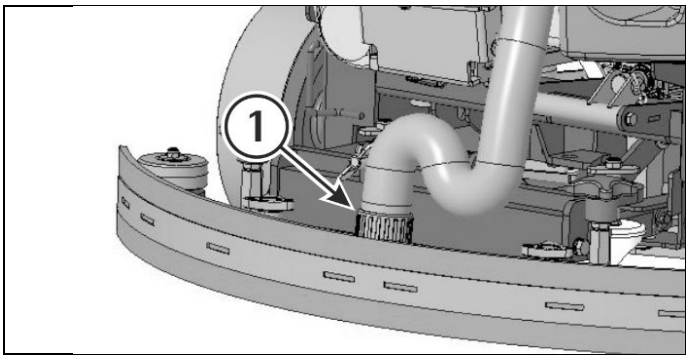
Check the squeegee rubber wearing and eventually turn it or replace it.
To replace the rubber, it is necessary to:
1. Lift up the squeegee (see under “STOP OF THE MACHINE AFTER CLEANING OPERATION”).
2. Unlock the hooks (1).
3. Unscrew the wing nuts (2) to take off the outer rubber blades (3) and then the central one (4).
4. Take off the rubber (5) to turn it or replace it.

To reassemble the squeegee, do these operations backwards.



CLEANING THE SQUEEGEE HOSE

Weekly or in case of insufficient suction, it is necessary to check that the squeegee hose is not obstructed. Eventually, to clean it, proceed as follows:
1. Take off the hose (1) from the squeegee coupling.



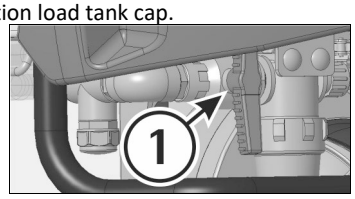
2. Wash the inside of the hose with a water jet.
3. To reassemble the hose repeat inversely the above-mentioned operations.

Do not clean the hose that goes from the suction motor to the recovery tank.

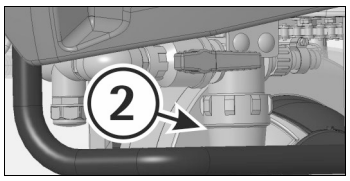
CLEANING THE SOLUTION TANK AND THE FILTER

Take the machine to the place assigned for the detergent solution draining.

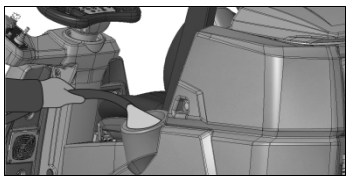
1. Unscrew the detergent solution load tank cap.
2. Close the detergent solution flow valve (1)



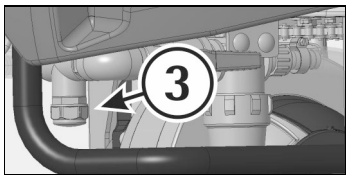
3. Unscrew the filter (2) cap.
4. Open the detergent solution flow valve (1).



5. Clean the solution tank with a water jet.



6. Clean the filter components with a water jet
7. Once the parts are cleaned close the filter and the solution tank cap
8. Keep the valve open.
9. It is possible to drain the solution tank also by unscrewing the cap (3).



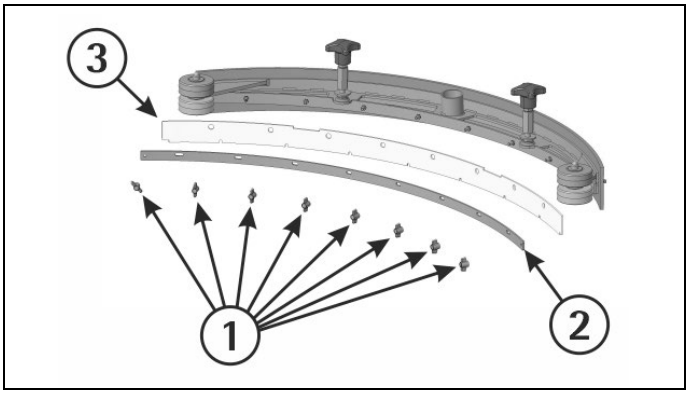
TWO-MONTHLY MAINTENANCE

FRONT SQUEEGEE RUBBER CHECK

Check the wear of the squeegee rubber and eventually replace it.
For the replacement it is necessary to:

1. Take off the squeegee (see under paragraph “SQUEEGEE CLEANING”).
2. Unscrew the wing nuts (1) and take off the front rubber holder blade (2).
3. Replace the front rubber (3).

To reassemble the squeegee repeat reverse the operations above mentioned.



SIX-MONTHLY MAINTENANCE

SPLASH GUARD RUBBER CHECK

With the brushes assembled, the splash guards must slightly touch the floor. If they are worn, they have to be replaced. Just release the lever coupler placed in the rear part of the brushes base group from the ring placed at the free extremity of the metal strip to take off the rubbers and to reinsert the new ones (see under paragraph “SPLASH GUARD ASSEMBLY”). This operation has to be carried out for both splash guards”).

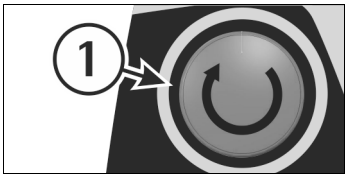
TROUBLESHOOTING GUIDE

The checking of all the other foreseen machine operations is left to the authorized technical assistance.
Never leave the batteries completely discharged for a long time.
In case of alarm visualizations contact the technical assistance.

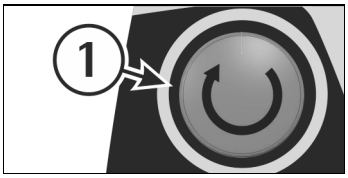
If with the key switch positioned clockwise to switch on the machine the display and other functions are not activated, it is necessary to check the batteries' connection to the machine (see under paragraph “CONNECTION BATTERIES' CONNECTION AND SWITCHING ON OF THE MACHINE”). If the problem persists, please contact the authorized technical assistance.

THE SUCTION MOTOR DOES NOT WORK

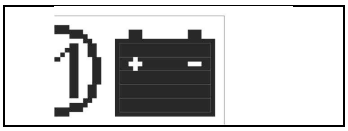
1. Check that the emergency system (1) is not activated.



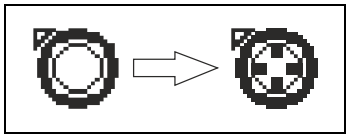
2. Use the key switch to turn off and then on the machine (2).



3. Check the battery charge on the display.

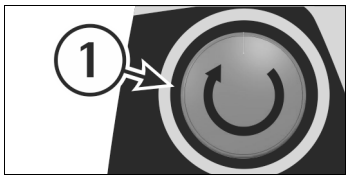


4. Check on the display that the starting signal of the suction motor is on.

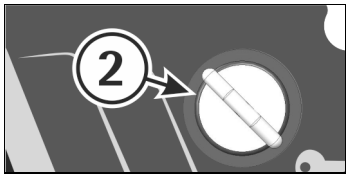


THE BRUSHES MOTOR DOES NOT WORK

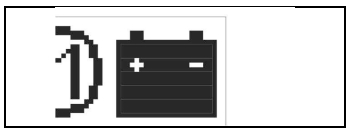
1. Check that the emergency system (1) is not activated.



2. Use the key switch to turn off and then on the machine (2).



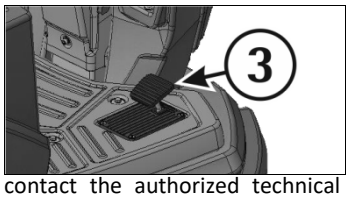
3. Check the battery charge on the display.



4. Check on the display that the starting signal of the brushes motor is on.



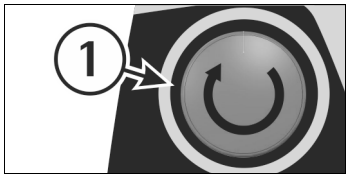
5. Press the pedal on the footboard (3) to start the machine.



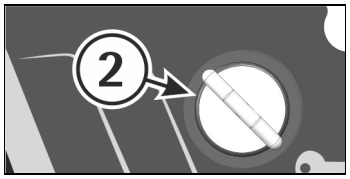
If the problem persists, please contact the authorized technical assistance.

THE TRACTION MOTOR DOES NOT WORK

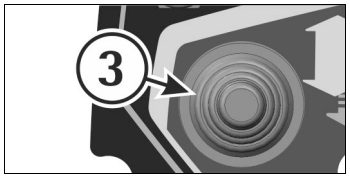
1. Step on the footboard.
2. Check that the emergency system (1) is not activated.



3. Use the key switch to turn off and then on the machine (2).

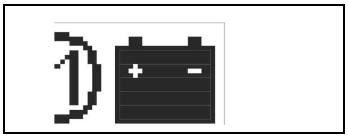


4. Check the lever position (3).

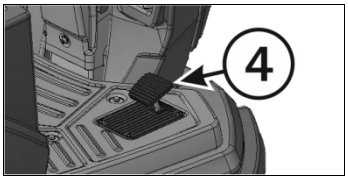


If alarms are showed on the display it is necessary to turn off and the on the machine to restore its functions.

5. Check the battery charge on the display.



6. Press the pedal on the footboard (4) to start the machine.

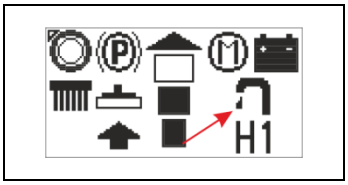


If the problem persists, please contact the authorized technical assistance.

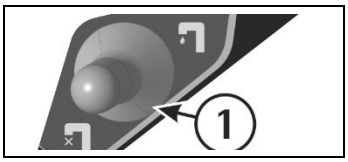
WATER DOES NOT COME DOWN ONTO THE BRUSHES

The machine is equipped with a solenoid valve so to let the solution go down onto the brushes it is necessary to make the brushes turn.

1. Check on the display that the solenoid valve is activated.



2. Check that the solenoid valve switch (1) is set to the detergent solution enable position.



3. Check that the solution filter is clean (see under paragraph “CLEANING THE OUTER SOLUTION FILTER”).

If the problem persists, please contact the authorized technical assistance.

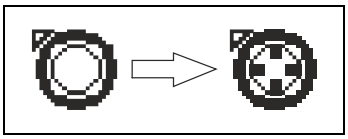
THE MACHINE DOES NOT CLEAN PROPERLY

1. The brushes do not have the suitable bristle dimension: contact the authorized technical assistance.
2. The brushes have got worn bristles. Check the brushes wear condition and eventually replace them (the brushes have to be replaced when the bristles have reached a height of about 15mm).
3. To replace the brushes, see instructions under paragraph “AUTOMATIC BRUSHES DISASSEMBLY” and “BRUSHES ASSEMBLY”.
4. The detergent solution is insufficient: open more the solution valve (see under paragraph “FLOW RATE SELECTION”).
5. Check that the liquid detergent is in the recommended percentage.
6. Increase the brushes base pressure (see under paragraph "ADJUSTMENT OF THE BRUSHES PRESSURE").

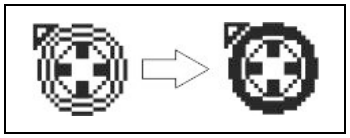
Contact the authorized technical assistance for advice.

THE SQUEEGEE DOES NOT DRY PERFECTLY

1. Check that the squeegee rubbers are clean.
2. Check the adjustment of the height and the inclination of the squeegee (see section “ADJUSTMENT OF THE SQUEEGEE” in “BEFORE USE”).
3. Check that the suction hose is correctly inserted in the proper seat on the recovery tank or that it is not obstructed.
4. Clean the suction filter.
5. Replace the rubbers if worn out.
6. Check on the display that the starting signal of the suction motor is on.



7. Put the motor in standard mode if silenced.



8. Check that the suction motor cap is closed properly.

If the problem persists, please contact the authorized technical assistance.

EXCESSIVE FOAM PRODUCTION
Check that low foam detergent has been used. Eventually add small quantities of anti foam liquid into the recovery tank.
Please be aware that a bigger quantity of foam is produced when the floor is not very dirty. In this case please dilute detergent solution.

PROGRAMMED MAINTENANCE

PERIODIC CHECK OF THE SECURITY SYSTEM
It is necessary to check monthly that all security systems of the machine work properly.



Should a security device could not work, call immediately an authorized service centre.

PRESENCE OPERATOR SENSOR
Inside the seat of the machine, it is inserted a sensor which detects the presence of the operator.
In order to check its correct functioning:
1. Take the machine in a space free from people and obstructions,
2. Place oneself on to the driving position without sitting,
3. Switch the machine on,
4. Adjust speed to its minimal,
5. Make sure that the manipulator is on forward position,
6. Push the pedal forward,

In case of correct functioning, the machine will not move forward.
On the contrary, please contact the service centre immediately.

WARNING MACHINE DETECTOR AT WORK MOVING FORWARD
The machine has been provided with 2 front blue leds and a blinking placed on the rollbar. In order to check its correct functioning, switch the machine on. In case of correct functioning, the devices will turn on together with the machine.
On the contrary, **please contact the service centre immediately.**

AUDIBLE WARNING DEVICE DURING BACKWARD MOVING

The machine has been provided with an audible warning device which starts when moving backwards.
In order to check its correct functioning:
1. Take the machine in a space free from people and obstructions
2. Place oneself on to the driving position without sitting
3. Switch the machine on
4. Adjust speed to its minimal
5. Make sure that the manipulator is on backward position
6. Push the pedal forward

In case of correct functioning, the audible device will start ringing while the machine proceeds backwards.
On the contrary, please contact the service centre immediately.

EMERGENCY STOP BUTTON
The machine has been provided with an emergency button which stops the machine completely in all its functions.
In order to check its correct functioning:
1. Take the machine in a space free from people and obstructions
2. Seat on the driving position,
3. Switch the machine on,
4. Adjust speed to its minimal,
5. Make sure that the manipulator is on forward position,
6. Push the pedal forward
7. Push the emergency button (see chapter “EMERGENCY BUTTON”).

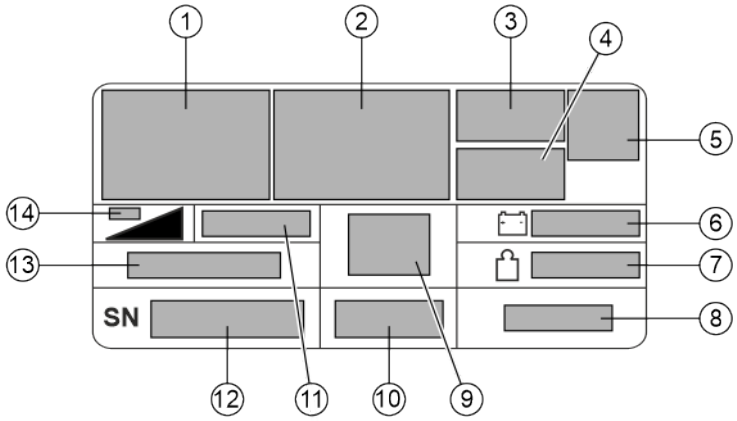
In case of correct functioning, the machine will stop immediately.
On the contrary, **please contact the service centre immediately.**
At the end of the test, restore the emergency button.

PERIODIC ORDINARY MAINTENANCE CHART

INTERVENTION	DAILY	**PERIODIC**
RECOVERY TANK CLEANING	•	
SUCTION FILTER CLEANING	•	
SOLUTION TANK FILTER CLEANING		•
BRUSHES CLEANING	•	
BRUSHES DISASSEMBLY AND CLEANING	•	
SQUEEGEE CLEANING	•	
FRONT SQUEEGEE RUBBER CHECK		•
REAR SQUEEGEE RUBBER CHECK		•
SPLASH GUARD RUBBER CHECK		•
CHECK SQUEEGEE ADJUSTMENT		•
SQUEEGEE HOSE CLEANING		•
SOLUTION TANK CLEANING		•
CHECK BATTERIES ELECTROLYTE		•

EN

LEGEND SERIAL NUMBER PLATE



1	Name of the producer
2	Manufacturer's registered office
3	Country of production
4	CE labelling
5	Waste disposal regulations
6	Maximum weight for suitable batteries
7	Gross weight of the machine (IEC/EN 60335-2-72 clause 3.114)
8	Power in force
9	Electrical safety class of the machine
10	Safety degree of the machine against water and dust
11	Battery voltage and circuit type
12	Serial number of the machine
13	Model of the machine
14	Maximum gradient allowed

How to read the Serial Number (Pos. 12)

SN	2	0	x	x	z	z	z	z

20xx = they mark the year of manufacture of the machine (inserted in to the Serial Number as per regulation CEI EN 60335-2-72).
zzzz = they mark the progressive number of that machine produced in its year of construction.

How to read the model of the machine (Pos. 13)

xxxx	zz

xxxx = name of the machine range
zz = number identifying the model

POSITION OF THE SERIAL NUMBER PLATE ON THE MACHINE

