MAXIMA 2017 BASE BT



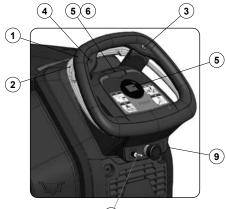
PROFESSIONAL SCRUBBING MACHINES

USE AND MAINTENANCE MANUAL





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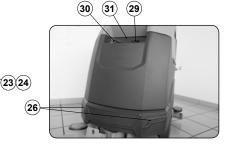


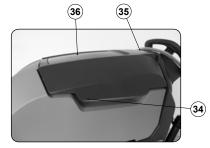






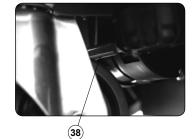












MAIN MACHINE COMPONENTS

The main machine components are the following:

- Control handlebars. Dead man's lever.
- Reverse control button.

- 1. 2. 3. 4. 5. 6. 7. 8. Reverse control button. ECO-MODE button. Control display. Cover for FFM "FIMAP FLEET MANAGEMENT" SOS button (Optional). FFM "FIMAP FLEET MANAGEMENT" SOS button (Optional). Main key switch.

- 9. 10. 11. 12. 13. 14. 15. 16. 17. 18.
- Barling Rey Switch. Brush uncoupling switch (50 BT version). Squeegee body control lever. Brush head control pedal. Support hook for recovery tank drainage tube.
- Recovery tank drainage tube. Support hook for spray gun. Solution tank level indicator.
- On-board battery charger (optional). Solution tank drainage cap.

- 19. 20. 21. 22. 23. 24. 25. 26. 27. 28.
- Squeegee body. Squeegee body support. Vacuum tube. Water flow adjustment tap.
- Vacuum accessory support (optional).
- Vacuum accessory support (optional Brush support. Squeegee body support (optional). Headlights (optional). Brush head body. Solution tank.

- 29. 30. 31. 32. 33.
- Solution tank filler cap/measuring inlet. Solution tank filler tube cap. Cover cap for FFF "FIMAP FAST FILL" quick coupling kit (optional).
- Recovery tank. Recovery tank lifting handle.
- 34. 35. 36. 37. 38.
- Recovery tank initiang nanole. Recovery tank cover lifting handle. Control handle for accessory compartment door. Accessory compartment door. Detergent solution filter. Electric brake control lever.



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GENERAL SAFETY REGULATIONS

The following symbols are used to indicate any potentially hazardous situations. Always read this information carefully and take the necessary precautions to protect any people and/or objects that may be present.

Operator cooperation is paramount for accident prevention. No accident prevention programme can be effective without the full cooperation of the person directly responsible for operating the machine. The majority of occupational accidents that happen either in the workplace or whilst moving are caused by failure to respect the most basic safety rules. An attentive, careful operator is most effective guarantee against accidents and is fundamental in order to implement any prevention programme.

DANGER: Indicates an imminent danger that Δ could cause serious injury or death.

WARNING: Indicates a probable dangerous situation that could cause serious injury or death.



CAUTION: Indicates a probable dangerous situation that could cause minor injuries.



ATTENTION: Indicates a probable dangerous situation that could damage objects.

RECHARGING THE BATTERIES

DANGER:

- If the battery charger power cable is damaged or broken, it should be replaced by the manufacturer or authorised service personnel, or another qualified person, in order to protect against hazards.
- The socket for the battery charger cable must have a prescribed earth connection.
- Keep sparks, flames, and incandescent materials at a safe distance from the batteries. Explosive gases are emitted during normal use.
- Highly explosive hydrogen gas is generated while charging the batteries. Keep the recovery tank unit in the maintenance position during the entire battery recharging cycle, and only perform the procedure in well-ventilated areas at a safe distance from any open flames.
- Before charging, make sure the electric cable that connects the battery charger to the batteries is not damaged. If it is, don't use it; contact technical assistance.
- Before starting to charge the batteries, check there is no stagnant water or humidity in the on-board battery charger socket.
- Before charging, make sure the electric cable that connects the battery charger to the mains is not damaged. If it is, don't use it; contact technical assistance.
- Do not disconnect the DC cable of the battery charger from the machine socket while the battery charger is operating. This is necessary in order to avoid electric arcs forming. To disconnect the battery charger when it is charging, first disconnect the AC power cable.

WARNING:

- Do not use an incompatible battery charger as it could damage the batteries and potentially cause a fire.
- The batteries emit hydrogen gas. This gas can cause explosions or fires. Keep a safe distance from flames or sparks. Keep the covers open when charging the batteries.
- Before using the battery charger, make sure the frequency and voltage values indicated on the machine data plate coincide with the network values.
- Keep the battery charger cable at a safe distance from any hot surfaces.
- Never smoke in the vicinity of the machine while the batteries are charging.
- Before starting the charging operation, carefully read the user manual of the battery charger that you want to use.

/ľ

- In the event of danger, take prompt action by pressing the emergency button on the back of the machine (near the control handlebars).
- Never collect gases, explosive/inflammable liquids or powders, nor acids and solvents! These include gasoline, paint thinners and fuel oil (which, when mixed with the vacuum air, can form explosive vapours or mixtures), and also non-diluted acids and solvents, acetones, aluminium and magnesium powders. These substances may also corrode the materials used to construct the machine.
- If the machine is used in dangerous areas (e.g. petrol stations), the relative safety standards must be observed. It is forbidden to use the machine in environments with a potentially explosive atmosphere.

WARNING:

- Always use the machine in compliance with its intended use, taking into consideration local conditions and looking out for the presence of others when working, especially children.
- The machine should only be used by people trained in its use and who have shown that they know how to use the machine and have been expressly authorised to do so.
- This machine should not be used by persons (including children) with physical, sensorial or mental impairments and by persons with little experience and/or little knowledge of the machine itself.
- The machine must only be used by authorised, trained personnel.
- Do not use the machine on surfaces with a slope greater than the one indicated on the serial number plate.
- The machine is not suitable for cleaning rough or uneven floors. Do not use the machine on slopes.
- In the event of a fire, use a powder extinguisher. Do not use water.
- Adapt the speed to the adhesion conditions.
- Do not use the machine if you do not have the requisite knowledge or authorisation.
- Do not use the machine if you have not read and understood the following user manual.
- Do not use the machine under the influence of alcohol or drugs.
- Do not use the machine while using a mobile phone or other electronic devices.
- Do not use the machine if it is not working correctly.
- Do not use the machine in areas where there are inflammable vapours or liquids or combustible powders.
- Do not use the machine in areas where it is too dark to see the controls or operate the machine safely, unless the work lights or the front headlights are on.
- To prevent the unauthorised use of the machine, the power supply must be disconnected: switch the machine off using the main switch (by removing the key from the block) and disconnect the battery connector from the electrical system connector.



CAUTION:

- Children must be supervised to ensure they do not play with the machine.
- During machine operation, pay attention to other people and especially to children.
- The machine must only be powered with a voltage equal to that shown on the serial number plate.
- Read the labels on the machine carefully. Do not cover them for any reason, and replace them immediately if they become damaged.
- The machine must only be used and stored in an enclosed or covered environment.
- The machine must not be used or stored outdoors in damp conditions or directly exposed to rain.
- The machine does not cause harmful vibrations.
- Use the machine only in the way described in this manual.
- Do not pick up anything that is burning or smouldering, like cigarettes, matches or glowing embers.
- Reduce speed on slopes and dangerous corners.
- Reduce speed before making a turn.
- Always follow the instructions for mixing, use and disposal on the containers of the chemical substances.

ATTENTION:

- Always take appropriate measures to protect any individuals and/or objects that may be present while using this machine.
- Be careful to avoid collisions with shelving or scaffolding, above all if there is a risk of objects falling from heights.
- Do not place any liquid containers on the machine.
- The machine must only be used under temperature conditions ranging from 0 °C to +40 °C.
- When using detergents to clean the flooring, always follow the instructions and respect the warnings indicated on the container labels.
- Always use appropriate gloves and protective equipment when handling the detergents used to clean the floor.
- Avoid working with the brushes when the machine is standing still, so as not to damage the floor.
- In the event of a fire, use a powder fire extinguisher if possible, and avoid the use of water.
- Do not allow any objects to penetrate into the machine openings. Do not use the machine if the openings are obstructed.
- Keep the machine openings free of dust, lint, hairs, or any other foreign materials that could reduce the airflow.
- Do not remove or alter any labels fixed to the machine.
- Only use the brushes and pad holders that have been supplied with the machine, or those specified in the Use and Maintenance Manual. The use of other brushes or felt pads may compromise the machine safety conditions.
- Before starting to work, check there are no leaks.
- Before starting to work, check that all the safety devices have been installed and are working correctly.

DEACTIVATION OF THE MACHINE

WARNING:

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- Always protect the machine against sunlight, rain, and other atmospheric agents, both while it is stationary and while it is functioning. Store the machine in a dry, sheltered place: this machine is only designed for use under dry conditions, and must not be used or stored outdoors in humid conditions.
- Do not park the machine near combustible materials, powders, gases or liquids. ٠
- Stop the machine on a flat surface. •
- Make sure the electric brake is engaged, then switch off the machine via the main switch • (removing the key from the block) and disconnect the battery connector from the electrical system connector.
- If the machine is left unattended, it must be protected from any accidental movements



ATTENTION:

The machine must only be stored under temperature conditions ranging from 0 °C to +40 °C. The humidity level must be between 30% and 95%.

MAINTENANCE

DANGER:

- To avoid short-circuits when working in the vicinity of electrical components: avoid the use of non-insulated tools; do not place or allow metallic objects to fall upon the electrically powered components; remove rings, watches and/or clothing with metallic parts that might come into contact with the electrically powered components.
- Do not work underneath the raised machine without adequate fixed safety supports.

WARNING:

- Read all the relevant instructions carefully before performing any maintenance/repair operations.
- If the machine does not work properly, check this is not caused by failure to carry out routine maintenance. Otherwise, ask for the intervention of the authorised technical assistance centre.
- Restore all electrical connections after any maintenance interventions.

CAUTION:

- When doing maintenance work, switch off the machine using the main switch. Remove the key from the block and disconnect the battery connector from the electrical system connector.
- Avoid contact with moving parts. Do not wear loose clothing or jewellery, and tie long hair • back.
- Block the wheels before lifting the machine. ٠
- Lift the machine with equipment that can sustain the weight to be lifted. ٠



ATTENTION:

Never tamper with the machine protection devices for any reason. Always follow the supplied routine maintenance instructions scrupulously.



- If the machine needs to be pushed for maintenance purposes (batteries absent; discharged batteries; etc.), never exceed 4 km/h.
- If there are any machine operation anomalies, check they are not due to a lack of proper maintenance. Otherwise, request the intervention of authorised personnel or an authorised service centre.
- If any parts need to be replaced, always request ORIGINAL spare parts from an authorised dealer or retailer.
- To ensure machine safety and its proper functioning, always have the scheduled maintenance interventions (specified in the appropriate section of this manual) performed by authorised personnel or by an authorised service centre.
- Do not clean the machine with direct or pressurised jets of water, or with corrosive substances.
- If lead batteries (WET) have been installed on the machine, avoid tilting it beyond 30° in relation to the horizontal plane, as this could cause the highly corrosive liquid to leak out of the batteries.
- Avoid contact with the battery acid.
- Keep all metal objects away from the batteries.
- Use a non-conductive device to remove the battery.
- Use a hoist and suitable equipment when lifting the batteries.
- The battery must be installed by qualified personnel.
- Always observe the safety measures of the site regarding battery removal.
- If the machine needs to be tilted for maintenance procedures, remove the batteries.
- Have the machine checked by an authorised technical assistance centre every year.
- When disposing of consumable materials, observe the laws and regulations in force. Once the machine has reached the end of its service life, the materials contained within it must be disposed of in an appropriate manner, keeping in mind that the machine itself has been built using fully recyclable materials.
- Only push or tow the machine when the seat is occupied by an operator able to control the machine.
- Do not wash the machine with pressurised water, or wet it in the vicinity of electrical components.
- All repairs must be carried out by qualified personnel.
- Do not physically change the design characteristics of the machine.
- Use spare parts provided by authorised service centres.
- Wear personal protective equipment as required and as suggested in the manual.

TRANSPORT

WARNING:

- Drain both tanks before transport.
- Bring both the squeegee and the brushes to a working position before securing the machine to the transport vehicle.
- Use a ramp, truck or trailer that can support the weight of the machine and the operator.
- The ramp gradient must not be such as to cause damage to the machine as it moves up onto the vehicle.
- Make sure the electric brake is correctly engaged after loading the machine onto the transport vehicle.

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SYMBOLS USED IN THE MANUAL



Symbol of the open book with i: Indicates the need to consult the instruction manual.



Symbol of the open book:

Tells the operator to read the user manual before using the device.



Covered place symbol: The operations preceded by this symbol must always be carried out in a dry, covered area.

Information symbol: Indicates additional information for the operator, to improve the use of the device.



Warning symbol:

Carefully read the sections preceded by this symbol meticulously following the instructions indicated for the safety of the operator and the device.



Danger symbol (corrosive substances):

The operator should always wear protective gloves to avoid the risk of serious injury to the hands caused by corrosive substances.



Danger symbol (battery acid leakage):

Indicates the danger of leaking acid or acid fumes from the batteries while they are being recharged.



Danger symbol (moving carriages): Indicates that the packed product should be handled with suitable carriages that conform to legal requirements.



Mandatory room ventilation symbol:

Informs the operator that the room must be ventilated while the batteries are being recharged.



Symbol indicating the compulsory use of protective gloves:

Indicates that the operator should always wear protective gloves, to avoid the risk of serious injury to his hands from sharp objects.



Symbol indicating a treading ban: Informs the operator that it is forbidden to tread on machine components, as this could lead to serious injury.



Recycling symbol:

Tells the operator to carry out the operations in compliance with environmental regulations in force in the place where the appliance is being used.



Disposal symbol:

Carefully read the sections marked with this symbol for disposing of the appliance.



Symbol of the squeegee body vacuum tube position: Used to indicate the correct position of the squeegee body vacuum tube. The tube must be positioned behind the squeegee body lifting chain.

PURPOSE AND CONTENT OF THE MANUAL

The aim of this manual is to provide customers with all the information needed to use the machine in the safest, most appropriate and most autonomous way. This includes information concerning technical aspects, safety, operation, downtime, maintenance, spare parts and scrapping. The operators and qualified technicians must carefully read the instructions in this manual before carrying out any operations on the machine. If in doubt about the correct interpretation of instructions, contact your nearest Customer Service Centre to obtain the necessary clarifications.

TARGET GROUP

This manual is written both for operators and for qualified machine maintenance technicians. Operators must not perform operations that should be carried out by gualified technicians. The manufacturer is not liable for damages resulting from failure to comply with this veto.

STORING THE USE AND MAINTENANCE MANUAL

The Use and Maintenance Manual must be stored in its special pouch close to the machine, protected from liquids and anything else that could compromise its legibility.

ON CONSIGNMENT OF THE MACHINE

When the machine is consigned to the customer, an immediate check must be performed to ensure all the material mentioned in the shipping documents has been received, and also to check the machine has not suffered damage during transportation. If this is the case, the carrier must ascertain the extent of the damage at once, informing our customer service office. It is only by prompt action of this type that the missing material can be obtained, and compensation for damage successfully claimed.

INTRODUCTORY COMMENT

Any floor scrubbing machine can only work properly and effectively if used correctly and kept in full working order by performing the maintenance operations described in the attached documentation. We therefore suggest you read this instruction booklet carefully and read it again whenever difficulties arise while using the machine. If necessary, remember that our assistance service (organised in collaboration with our dealers) is always available for advice or direct intervention.

IDENTIFICATION DATA

For technical assistance or to request replacement parts, always give the model, the version and the serial number (written on the relevant plate)

TECHNICAL DESCRIPTION

The MAXIMA2017 is a floor scrubbing machine that can work on various types of floor and dirt thanks to the mechanical action of a brush and the chemical action of a water-detergent solution. As it advances, it collects the dirt removed, along with the detergent solution not absorbed by the flooring itself. The machine must only be used for this purpose.

INTENDED USE

This scrubbing machine was designed and built for the cleaning (scrubbing and drying) of smooth, compact flooring in the commercial, residential and industrial sectors by a qualified operator in proven safety conditions. The scrubbing machine is not suitable for cleaning rugs or carpet floors. It is only suitable for use in closed (or at least covered) places.



ATTENTION: the machine is not suitable for use in the rain, or under water jets.

IT IS FORBIDDEN to use the machine for picking up dangerous dusts or inflammable liquids in places with an explosive atmosphere. In addition, it is not suitable as a means of transport for A people or objects.

SAFETY

Operator cooperation is paramount for accident prevention. No accident prevention programme can be effective without the full cooperation of the person directly responsible for machine operation. The majority of occupational accidents that happen either in the workplace or whist moving are caused by failure to respect the most basic safety rules. An attentive, careful operator is most effective guarantee against accidents and is fundamental in order to implement any prevention programme.

CONVENTIONS

All references to forwards and backwards, front and rear, right and left indicated in this manual should be understood as referring to the operator in the driving position, with his/her hands on the control handlebars.

SERIAL NUMBER PLATE

The serial number plate is located above the electric system panel, inside the machine. It shows the general machine characteristics, in particular the serial number. The serial number is a very important piece of information and should always be provided together with any request for assistance or to purchase spare parts.

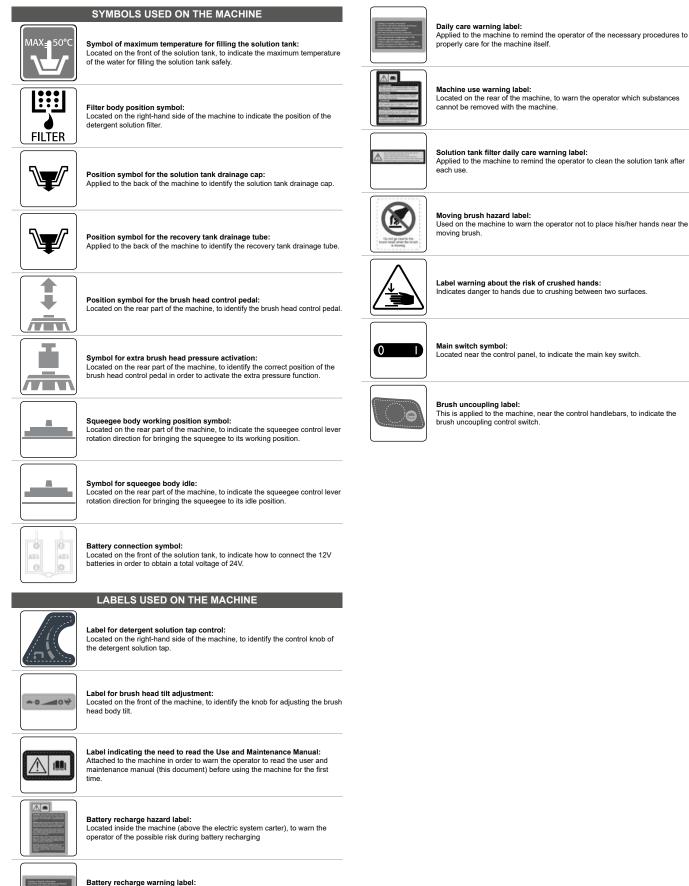


| TECHNICAL DATA | | | | | | |
|--|-------------------------------|---------------------------|---------------------------|----------------------------|----------------------------|--|
| TECHNICAL DATA | Unit of measurement symbol | MAXIMA 2017 BASE 50 BT | MAXIMA 2017 BASE 60 BT | MAXIMA 2017 BASE 50 BTO | MAXIMA 2017 BASE 50 BTS | |
| Rated machine power | W | 1075 1575 | | 1255 | 1275 | |
| Working capacity up to | sq.m. | 1785 | 2118 | 1778 | 1771 | |
| Working width | mm | 510 | 605 | 508 | 506 | |
| Squeegee width | mm | 712 | 782 | 712 | 782 | |
| Brush head brush diameter (number - diameter) | mm | 1 - 510 | 2 - 300 | - | - | |
| Dimensions of abrasive pad (width x depth) | mm | - | - | 508 x 355 | - | |
| Dimensions of cylindrical brush (diameter - length) | mm | - | - | - | 150 - 506 | |
| Number of brush head brush rotations | rpm | 1. | 40 | - | 600 | |
| Number of pad oscillations | rpm | - | - | 2400 | - | |
| Brush head motor (voltage / nominal power) | V / W | 24 - 500 | 24 - 500 | 24 - 680 | 24-350 | |
| Maximum weight exerted on the brush head | kg | - | - | - | - | |
| Maximum possible gradient for uphill and downhill movement (weight^{(2)}) | % | | 1 | 0 | | |
| Maximum slope during ascent and descent with the transport program (weight $\ensuremath{^{(2)}}\xspace)$ | % | 10 | | | | |
| Maximum ambient temperature for machine operation | °C | +40 | | | | |
| Minimum ambient temperature for using the machine's scrubbing functions | °C | 0 | | | | |
| Traction motor (voltage / rated power) | V / W | 24 - 150 | | | | |
| Maximum forward speed in transport mode | Km/h | | 3 | .5 | | |
| Vacuum motor (voltage - nominal power rating) | V / W | | 24 - | 422 | | |
| Vacuum on vacuum head | mbar | | 120 | 0,62 | | |
| Maximum solution tank capacity | I | | 5 | 3 | | |
| Maximum recovery tank capacity | I | 57 | | 7 | | |
| Machine dimensions (length - width - height) | mm | 1295 - 712 - 1095 | 1270 - 640 - 1095 | 1220 - 712 - 1095 | 1265 - 785 - 1095 | |
| Battery compartment dimensions (width - useful height - length) | mm | | 485 - 2 | 53 - 351 | | |
| Recommended battery | V / AhC ₅ | | 12 - | 112 | | |
| Maximum individual battery weight (recommended) | kg | 39 | | | | |
| Machine weight ⁽¹⁾ | kg | 112 | | | | |
| Machine weight during transport ⁽²⁾ | kg | 190 | | | | |
| Machine weight during work operations ⁽³⁾ | kg | 245 | | | | |
| Sound pressure level (ISO 11201) - L _{pA} | dB (A) | <70 | <70 | <70 | <70 | |
| Uncertainty K _{pA} | dB (A) | 1,5 | 1,5 | 1,5 | 1,5 | |
| Hand vibration level (ISO 5349) | m/s ² | <2,5 | <2,5 | <2,5 | <2,5 | |
| Vibration measurement uncertainty | | - | - | - | - | |

Remarks:

(1) Machine weight: refers to the overall machine weight without the batteries, and with both tanks empty.
(2) Machine weight during transport: refers to the overall machine weight with the batteries, but with both tanks empty.
(3) Machine weight during work operations: refers to the overall machine weight with the batteries, with the solution tank full and the detergent canister full (valid for FSS versions), but with the recovery tank empty.







MACHINE PREPARATION

HANDLING THE PACKAGED MACHINE

The machine is contained in specific packaging, and since the packaging elements (plastic bags, staples, etc.) are a potential source of danger, they should not be left within the reach of children, disabled persons, etc. The machine's overall weight including packaging is 000 Kg.

The overall dimensions of the package are: A=765 mm B=1460 mm C=1270 mm.

- (i) ATTENTION: it is recommended that all the packaging components be kept for any future machine transportation.
- ATTENTION: move the packaged product with handling equipment that complies with legal requirements regarding size and mass of the packaging.

HOW TO UNPACK THE MACHINE

The machine is shipped in specific packaging. To remove it, proceed as follows:

1. Place the lower part of the outer packaging in contact with the floor.

(i) NOTE: use the pictograms printed on the box as a reference.

2. Remove the outer package

- CAUTION: these operations must be carried out using protective gloves to avoid any possible contact with the edges or tips of metal objects.
- Make sure the machine is switched off. If it isn't, turn the main switch (1) to "0" by rotating the key a quarter turn in the direction shown by the arrow (Fig.1). Remove the key from the instrument panel.
- Grip the handle (2) on the right-hand side of the recovery tank (Fig.2) and turn the tank as far as it will go, until it reaches the maintenance position.
- 5. Connect the pad battery connector (3) to the main system connector (4) (Fig.3)
- CAUTION: this process must be carried out by qualified personnel.



- 6. Grip the handle (2) on the right-hand side of the recovery tank and turn the tank until it reaches the work position.
- The machine is fixed to the pallet by means of wedges (5) that block the wheels and brush head (Fig.4). Remove the wedges.
- Insert the ignition key and switch on the machine. Turn the main switch (1) to "I" by rotating the key a quarter turn in the direction of the arrow (Fig.5).
 Raise the brush head body and fully depress the "BRUSH HEAD CONTROL" pedal (6) at the
- Raise the brush head body and fully depress the "BRUSH HEAD CONTROL" pedal (6) at the rear of the machine (Fig.6).
- (i) NB: to lock the brush head in the raised position, depress the pedal (6) fully and then move it towards the right-hand side of the machine (Fig.6).







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- Raise the squeegee body and turn the squeegee control lever (7) in the direction of the arrow (Fig.7). The lever is located on the back of the machine.
 Press the "REVERSE ACTIVATION DEACTIVATION" button (8) on the control handlebars (Fig.8).
- (i) NB: as soon as the button (8) on the control panel is pressed, the green LED ("REVERSE ACTIVE") will switch off (Fig.8).
- Activate the dead man's lever (9) underneath the control handlebars (Fig.9) to start moving the machine in reverse.
- 13. Use a ramp to bring the machine down from the pallet.



- **CAUTION**: do not fit the brush and the rear squeegee body before unloading the machine, and avoid any violent jolts to the brush head and squeegee support.
- NB: the ramp gradient must not be such as to cause damage to the machine as it comes down.
- 14. Switch off the machine by turning the main switch (1) to "0", making a quarter turn of the key in the direction of the arrow (Fig.1). Remove the key from the instrument panel.
- Grip the handle (2) on the right-hand side of the recovery tank (Fig.2) and turn the tank as far as it will go, until it reaches the maintenance position.
- 16. Disconnect the pad battery connector (3) from the main system connector (4) (Fig.3).

ATTENTION: this process must be carried out by qualified personnel.

17. Grip the handle (2) on the right-hand side of the recovery tank and turn the tank until it reaches the work position.

HOW TO MOVE THE MACHINE

To transport the machine safely, proceed as follows:

- DANGER: before starting any task, make sure the current regulations concerning the safe transport of dangerous substances are scrupulously observed.
- 1. Check the solution tank and recovery tank are empty. If they aren't, empty them (see
- "EMPTYING THE SOLUTION TANK" and "EMPTYING THE RECOVERY TANK").
 2. Insert the key (1) in the main switch on the control panel. Set the main switch to "I" by turning the key (1) to the right (Fig.1).
- Raise the brush head body and fully depress the "BRUSH HEAD CONTROL" pedal (2) at the rear of the machine (Fig.2).
- (i) **NB**: to lock the brush head in the raised position, depress the pedal (2) fully and then move it towards the right-hand side of the machine (Fig.2).
- 4. Raise the squeegee body and turn the squeegee control lever (3) in the direction of the arrow (Fig.3). The lever is located on the back of the machine.



- When you push the dead man's lever (4) (Fig.4), the machine will begin to move.
 Use a ramp to move the machine up onto the transport vehicle.
- **CAUTION**: during this operation, check there are no people or objects near the machine.
- (i) NB: the ramp gradient must not be such as to cause damage to the machine as it goes up.
- Once the machine is on the means of transport, set the main switch to "0" by turning the key (1) to the left (Fig. 5). Remove the key from the main switch.
- 8. Grip the handle (5) and raise the recovery tank to its maintenance position (Fig.6).







- Disconnect the battery connector (6) from the main system connector (7) of the machine (Fig.7).
 Grip the handle (5) and lower the recovery tank to its working position.
- MARNING: secure the device according to the directives in force in the country of use, so that it cannot slide or tip over.



MACHINE SAFETY MEASURES

To ensure that work is carried out in the best safety conditions, proceed as follows:

- Make sure the electric brake is engaged, then rotate the lever (1) in the direction of the arrow. The lever is located on the rear right-hand side of the machine (Fig.1).
- Make sure the recovery tank is empty. If it isn't, empty it using the tube (2) on the rear left-hand side of the machine (Fig.2) (see "EMPTYING THE RECOVERY TANK").

ATTENTION: the tanks should be emptied in the place used for draining dirty water.

ATTENTION: the place designated for this operation must comply with current environmental protection regulations.

 Switch off the machine by turning the main switch (3) to "0", making a quarter turn of the key in the direction of the arrow (Fig.3).







(6)

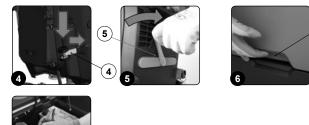
 Raise the brush head body and fully depress the "BRUSH HEAD CONTROL" pedal (4) at the rear of the machine (Fig.4).

(i) NB: to lock the brush head in the raised position, depress the pedal (4) fully and then move it towards the right-hand side of the machine (Fig.4).

- Raise the squeegee body and turn the squeegee control lever (5) in the direction of the arrow (Fig.5). The lever is located on the back of the machine.
- Grip the handle (6) on the right-hand side of the recovery tank (Fig.6) and turn the tank as far as it will go, until it reaches the maintenance position.
 Disconnect the electrical system connector (7) from the battery connector (8) (Fig.7).

ATTENTION: this process must be carried out by qualified personnel.

- Grip the handle (6) on the right-hand side of the recovery tank and turn the tank until it reaches the work position.
- ATTENTION: make sure the battery charger supply cable is disconnected from the mains socket.



7

TYPE OF BATTERY TO BE USED

Power to the machine must be supplied by two sealed traction batteries with gas recombination or gel technology. The batteries must meet the requirements laid out in the norms: CEI EN 60254-1:2005-12 (CEI 21-5) + CEI EN 60254-2:2008-06 (CEI 21-7). For the best work results, we suggest the use of two 12V MFP 112 Ah/C, batteries.

BATTERY MAINTENANCE AND DISPOSAL

For battery maintenance and recharging, respect the instructions provided by the battery manufacturer. When the batteries reach the end of their service life, they must be disconnected by specialised and properly trained personnel, and must be subsequently removed from the battery compartment using suitable lifting devices.

NB: dead batteries are classified as dangerous waste and as such must be delivered to an authorised body for disposal.

INSERTING THE BATTERIES IN THE MACHINE

The batteries must be housed in the relative compartment beneath the recovery tank. They should be handled using lifting equipment that is suitable in terms of both the weight and the coupling system.

- ADANGER: make sure you comply with the accident prevention regulations in force in the country where you work or with DIN EN 50272-3 and DIN EN 50110-1, before any handling of the batteries.
- CAUTION: to prevent an accidental short circuit use insulated tools to connect the batteries, and do not place or drop metal objects on the battery. Remove rings, watches and any clothing with metal parts that may come into contact with the battery terminals.

The various phases for inserting the batteries in the battery compartment are as follows.

- Make sure the machine is in a safe condition (see "<u>MACHINE SAFETY MEASURES</u>").
 Grip the handle (1) on the right-hand side of the recovery tank (Fig.1) and turn the tank as far as
- it will go, until it reaches the maintenance position.
 House the batteries in the compartment, positioning the poles "+" and "-" opposite each other (Fig.2).
- **I NB**: for battery maintenance and daily recharging, you must fully respect the indications provided by the manufacturer or retailer.
- WARNING: all installation and maintenance operations must be carried out by specialised personnel.
- (i) NB: before installing the battery, clean the battery compartment. Check that the connectors on the cables supplied are functioning correctly.
- WARNING: check that the characteristics of the battery that you are looking to use are appropriate for the type of work to be performed. Check the battery charge and the condition of the contacts on the battery.
- (i) NB: you are advised to only lift and move the batteries with lifting and transportation means suitable for the specific weight and size
- WARNING: the lifting hooks must not damage the blocks, connectors or cables.
- WARNING: before inserting the batteries, remember to cover the terminals with a little grease to protect them against external corrosion.



CONNECTING THE BATTERIES TO THE MACHINE SYSTEM The batteries should be connected so as to obtain a

total voltage of 24V.

- ATTENTION: it is recommended that all installation and maintenance operations be carried out by expert personnel, trained at the specialised assistance centre.
- CAUTION: to prevent an accidental short circuit use insulated tools to connect the batteries, and do not place or drop metal objects on the battery. Remove rings, watches and any clothing with metal parts that may come into contact with the battery terminals.

The various phases for inserting the batteries in the battery compartment are as follows

- 1. Using the supplied jumper cable (1), connect the batteries to the "+" and "-" poles in sequence
- Connect the battery connector cable (2) to the "+" and "-" poles to obtain a voltage of 24V at the terminals

(2

1

(3)

3. Connect the electric system connector (3) to the battery connector (2).

RECHARGING THE BATTERIES

The batteries must be charged prior to first use, and whenever they no longer provide sufficient power.

- ATTENTION: to avoid any permanent damage to the batteries, it is essential to avoid their complete discharge; begin recharging them within a few minutes of noting the "discharged batteries" signal.
- ATTENTION: never leave the batteries completely discharged, even if the device is not being used.
- . Bring the appliance to the area where the batteries are charged.
- 2. Make sure the machine is in a safe condition (see "<u>MACHINE SAFETY MEASURES</u>").
- ATTENTION: park the machine in an enclosed place, on a flat and level surface; near the machine there must be no objects that could either damage it, or be damaged through contact with it.
- ATTENTION: the room used to recharge the batteries must be adequately ventilated to prevent the accumulation of gases that leak from batteries.
- Grip the handle (1) on the right-hand side of the recovery tank (Fig.1) and turn the tank as far as it will go, until it reaches the maintenance position.
- ATTENTION: the following operations must be carried out by qualified personnel. An incorrect connection of the connector may cause a malfunction of the device.

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- NB: carefully read the use and maintenance instructions of the battery charger used. **[**]
- 4. Go to the back of the machine and remove the cap (2) from the battery charger socket (Fig.2) 5. Connect the battery charger power cable connector (3) to the battery charger socket (4) (Fig.3).
- CAUTION: before connecting the batteries to the battery charger, make sure it is suitable for the batteries used.



- WARNING: before inserting the connector (3) in the socket (4), make sure there is no ⚠ condensation or any other type of liquid.
- NB: the battery charger power cable is delivered inside the bag containing this instruction (i) booklet
- 6 Plug the battery charger cable into the mains socket.
- CAUTION: keep the recovery tank open for the duration of the battery recharging cycle, to allow gas fumes to escape.
- NB: before connecting the battery charger to the mains socket, make sure the characteristics | |i| of the mains supply correspond to those required by the battery charger. Read the battery charger use and maintenance manual (included in the bag that contains this instruction hooklet)
- When the recharge cycle is complete, disconnect the battery charger cable from the mains. 7
- Disconnect the battery charger power cable from the socket on the battery charger itself.
- 9
- Replace the cap (2) on the battery charger plug. Grip the handle (1) on the right-hand side of the recovery tank and turn the tank as far as it will 10. go, until it reaches the maintenance position.

ASSEMBLING THE BRUSH (50BT VERSIONS)

For packaging reasons, the brush is supplied disassembled from the machine. To assemble it on the brush head body, proceed as follows:

1. Make sure the machine is in a safe condition (see "MACHINE SAFETY MEASURES").

- CAUTION: users are advised to always wear protective gloves, to avoid the risk of serious C) injury to hands.
- Raise the brush head body and fully depress the "BRUSH HEAD CONTROL" pedal (1) at the 2. rear of the machine (Fig.1).
- NB: to lock the brush head in the raised position, depress the pedal (1) fully and then move it (\mathbf{i}) towards the right-hand side of the machine (Fig.6).
- With the brush head up, insert the brush in the plate housing underneath the brush head, turning 3. it until the three buttons engage with the notches on the plate itself (Fig.2).
- 4 Turn until the pin is pushed towards the coupling spring and is locked into place

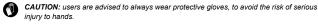


ASSEMBLING THE BRUSH (60BT VERSIONS)

1

For packaging reasons, the brushes are supplied disassembled from the machine. To assemble them on the brush head body, proceed as follows

Make sure the machine is in a safe condition (see "MACHINE SAFETY MEASURES").



- 2. Raise the brush head body and fully depress the "BRUSH HEAD CONTROL" pedal (1) at the rear of the machine (Fig.1).
- NB: to lock the brush head in the raised position, depress the pedal (1) fully and then move it (i) towards the right-hand side of the machine (Fig.6).
- 3. With the brush head in the raised position, press the brush-holder plate retainer (2) and simultaneously rotate the brush in the direction shown in the image (Fig.2)

ATTENTION: Fig.2 shows the rotation direction of the left-hand brush, rotate in the opposite ⚠ direction for the right-hand brush.

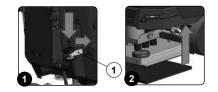
- When brush rotation is prevented, turn until the button on the brush is engaged in the coupling spring on the brush-holder plate
- 5. Repeat the operations completed for the right-hand front brush as well.



ASSEMBLING THE ABRASIVE PAD (50BTO VERSIONS)

For packaging reasons, the abrasive pad comes disassembled from the machine. To assemble it on the brush head body, proceed as follows:

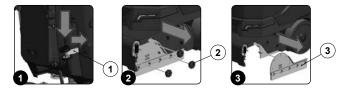
- Make sure the machine is in a safe condition (see "MACHINE SAFETY MEASURES"). 1
- CAUTION: users are advised to always wear protective gloves, to avoid the risk of serious Ø injury to hands
- Raise the brush head body and fully depress the "BRUSH HEAD CONTROL" pedal (1) at the 2. rear of the machine (Fig.16).
- NB: to lock the brush head in the raised position, depress the pedal (6) fully and then move it towards the right-hand side of the machine (Fig.1). (i)
- With the brush head in the raised position, slide the abrasive pad into the housing under the brush head, pressing it until it is firmly attached to it (Fig.2).



ASSEMBLING THE CYLINDRICAL BRUSHES (50BTS VERSIONS)

For packaging reasons, the brushes are supplied disassembled from the machine. To assemble them on the brush head body, proceed as follows

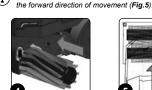
- 1. Make sure the machine is in a safe condition (see "MACHINE SAFETY MEASURES").
- CAUTION: users are advised to always wear protective gloves, to avoid the risk of serious (7) injury to hands.
- Raise the brush head body and detach the "BRUSH HEAD CONTROL" pedal (1) at the rear of the machine from the plate retainer (**Fig.1**). With the brush head raised from the floor, turn the knobs (2) that hold the left lateral carter (3) in
- 3. place anti-clockwise (Fig.2).
- Remove the left lateral carter (3) (Fig.3).



5. Insert the brush into the tunnel (Fig.4), taking care to make sure that the gearmotor's drive shaft enters the slit in the brush itself

N.B.: In order to be installed correctly, the brushes must form an X when viewed from above in

6 Repeat the previously described operations for the right-hand side as well



(i)



ASSEMBLING THE SQUEEGEE BODY

For packaging reasons, the squeegee body comes disassembled from the machine. To assemble it on the squeegee support, proceed as follows

- Make sure the machine is in a safe condition (see "MACHINE SAFETY MEASURES"). 2 Raise the squeegee body and turn the squeegee control lever (1) in the direction of the arrow (Fig.1). The lever is located on the back of the machine.
 - CAUTION: these operations must be carried out using protective gloves to avoid any possible contact with the edges or tips of metal objects.
- Unscrew the knobs (2) in the squeegee body pre-assembly (Fig.2)
- First of all, insert the left-hand pin (3) on the squeegee body in the left slit (4) in the squeegee support (**Fig.3**), so that the bushing (5) adheres to the walls of the slit. 4
- 5. Repeat the same operation for the right pin.

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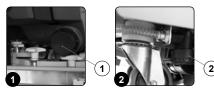
- Insert the vacuum tube (6) in the sleeve (7) in the squeegee body (Fig.4).
- NB: the tube must be positioned behind the squeegee lifting chain (i)
- NB: the squeegee has already been adjusted, but refer to "ADJUSTING THE SQUEEGEE (\mathbf{i}) BODY RUBBER BLADES" if you need any information.



FILLING THE SOLUTION TANK WITH WATER

Before filling the solution tank, carry out the following steps

- Take the machine to the usual place for filling the solution tank
- 2. 3.
- Make sure the machine is in a safe condition (see "<u>MACHINE SAFETY MEASURES</u>"). Check the solution tank drainage cap (1) (on the rear right-hand side of the machine) is tight. If it isn't, turn it clockwise (Fig.1).
- Check the water filter cap (2) (on the rear right-hand side of the machine) is tight. If it isn't, turn it 4 clockwise (Fig.2).



The solution tank can be filled with water in three different ways

- Removing the cap/measuring device (3) (Fig.3) and filling the solution tank by means of a rubber
- tube or a bucket (Fig.4). Using the filler tube (4) (Fig.5), which supports the water tube on its own. In this case, remember
- to remove the cap/measuring device (3) to ensure the air is properly vented. Using the optional system for automatic clean water top-up. This system has a float for avoiding any overflow



Fill with clean water, at a temperature not higher than 50°C and not lower than 10°C. The amount inside the tank can be seen by means of the level tube (5) (Fig.6) on the rear left-hand side of the machine



DETERGENT SOLUTION

After filling the solution tank with clean water add the liquid detergent to the tank in the concentration and manner indicated on the detergent manufacturer's label. To prevent the formation of an excessive amount of foam that could damage the vacuum motor, use the minimum percentage of detergent reauired.

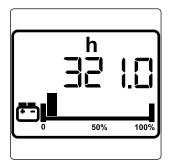
- CAUTION: protective gloves should always be worn before handling detergents or acidic or alkaline solutions, to avoid serious injury to the hands.
- CAUTION: always use detergents whose manufacturer's label indicates their suitability for ∕!∖ scrubbing machines. Do not use acid or alkaline products or solvents without this indication.
- ATTENTION: acid or alkaline maintenance detergents can be used, as long as they have pH ⚠ values between 4 and 10, and do not contain: oxidising agents, chlorine or bromine, formaldehyde, mineral solvents. The detergents used must be suitable for use with scrubbing machines
- CAUTION: always use low-foam detergent. To avoid the production of foam, put a minimum ∕!∖ quantity of anti foam liquid in the recovery tank before starting to clean. Do not use pure acids.
- NB: to make it easier to measure the detergent on the cap/measuring device, there are notches (i) indicating the detergent percentage quantities that can be used. The notches range from a minimum of 0.1% to a maximum of 0.5%

HOUR METER

The machine control panel contains the control display, which shows the total usage time. The numbers before the letter "h" identify the hours, while the numbers before the letter "m" identify the tenths of an hour (a tenth of an hour corresponds to six minutes). The flashing "." symbol indicates that the hour meter is counting the machine functioning time.

BATTERY CHARGE LEVEL INDICATOR

On the lower part of the display, you can see the battery charge level. When the batteries fitted in the machine are fully charged, the line at the bottom consists of nine illuminated indicator bars. As the batteries gradually run down, the indicator bars are no longer illuminated. When the battery "critical charge" threshold is reached, the last indicator bar flashes for about 20 seconds, after which the "battery" symbol begins to flash.



PREPARING TO WORK

In the case of a machine without FSS, before beginning to work it is necessary to:

- 1. Make sure the recovery tank is empty. If it isn't, empty it (see "EMPTYING THE RECOVERY TANK").
- 2. For versions without FSS, make sure the amount of detergent solution in the solution tank is suitable for the type of work to be carried out. If it isn't, fill the solution tank (see "FILLING THE SOLUTION TANK WITH WATER" and "DETERGENT SOLUTION"). Check the level tube (1) in the rear left-hand part of the machine (Fig.1).
- Check the rubber squeegee blades are in good working condition. If they aren't, replace them 3. (see "REPLACING THE SQUEEGEE BODY RUBBER BLADES").
- Check the brush is in good working condition. If it isn't, replace it (see "REPLACING THE BRUSH 4. HEAD BRUSH")
- Check the machine is switched off. If it isn't, turn the main switch (2) to "0" by rotating the key a 5. quarter turn in the direction of the arrow (Fig.2). Remove the key from the instrument panel
- 6. Grip the handle (3) on the right-hand side of the recovery tank (Fig.3) and turn the tank as far as it will go, until it reaches the maintenance position



Connect the main system connector (4) to the battery connector (5) (Fig.4) 7

ATTENTION: this process must be carried out by qualified personnel. Æ

- 8. Grip the handle (3) on the right-hand side of the recovery tank and turn the tank until it reaches the work position
- 9. Make sure the electronic brake is engaged. If it isn't, turn the lever (6) in the direction of the arrow. The traction gearmotor is located on the rear right-hand side of the machine (Fig.5). 10. Check the water tap is fully open - the water adjustment knob (7) must be turned fully in the
- direction shown by the arrow (Fig.6)







(3)

- 11. Make sure the solution tank drainage cap (8) is closed. If it isn't, close it (Fig.7)
- 12. Make sure the water filter cap (9) is closed. If it isn't, close it (Fig.8).
- Make sure the cap of the recovery tank drainage tube (10) is closed. If it isn't, close it (Fig.9). 13.



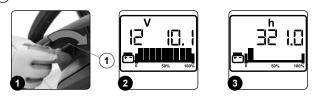


- 14. Make sure the vacuum tube (11) is correctly connected to the sleeve in the squeegee body. If it isn't, connect it (Fig.10).
- 15. Make sure the vacuum motor filter (12) is correctly connected and is clean (Fig.11). If it isn't, clean it (see "CLEANING THE RECOVERY TANK")
- Make sure the filter basin (13) is correctly connected and is clean (Fig.12). If it isn't, clean it 16. (see "CLEANING THE RECOVERY TANK "). 17. Make sure the recovery tank cover is properly closed. If it isn't, close it



STARTING WORK

- To start working, proceed as follows
- ake all the checks listed in "PREPARING TO WORK"
- 2
- Go to the driving position, behind the machine. Turn the main switch (1) to "I", making a quarter turn of the key in the direction of the arrow 3. (Fig.1).
- 4. When the display comes on, the screens appear in sequence.
- N.B.: In the first screen the nominal battery voltage programmed into the control board is (\mathbf{i}) displayed on the left of the screen, and on the right, the minimum inhibit temperature appears (Fig.2)
- NB: The second screen displays the hours of work completed by the machine (Fig.3). (\mathbf{i})



- NB: the steps for a complete scrubbing and drying cycle are explained below. (\mathbf{i})
- Lower the brush head body and detach the "BRUSH HEAD CONTROL" pedal (2) at the rear of 5. the machine from the plate retainer (Fig.4).
- (Fig.5). The lever is located on the back of the machine. 6.
- 7. When the dead man's lever (4) is pressed, the machine will begin to move. The lever is located underneath the control handlebars (Fig.6)
- NB: the gearmotor will only begin functioning, and the solenoid valve will only begin dispensing (i) detergent solution, when the brush head body is in its working position



8. During the first few metres, check that the detergent solution coming out is suitable for the task in hand. If it isn't, adjust it after reading the section "REGULATING THE DETERGENT SOLUTION"

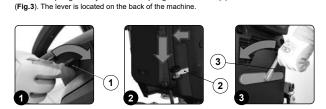
The appliance will now begin to work with full efficiency until the battery is flat or until the detergent solution has finished

During the first few metres, check that there is sufficient solution and that the squeegee is drving correctly.

- NB: If the dead man's lever is released during the scrubbing with drying operation, the brush (i) motor and the solenoid valve will be deactivated. The vacuum motor will continue working until the squeegee control lever is rotated to bring it back to its idle position.
- NB: if the squeegee body is raised during the scrubbing and drying operation, the vacuum (i) motor will continue working at maximum speed for a certain period of time, and then switch off This ensures that all the liquid in the vacuum tube is eliminated.
- NB: when filling the solution tank, it is good practice to empty the recovery tank using the (i) special drainage tube.

SCRUBBING WITH DRYING

- To perform a scrubbing and drying program, proceed as follows
- Make all the checks listed in "PREPARING TO WORK"
- 2. Go to the driving position, behind the machine. 3.
- Turn the main switch (1) to "I", making a quarter turn of the key in the direction of the arrow (Fig.1). 4. Lower the brush head body and detach the "BRUSH HEAD CONTROL" pedal (2) at the rear of
- the machine from the plate retainer (Fig.2). 5 Lower the squeegee body and turn the squeegee control lever (3) in the direction of the arrow



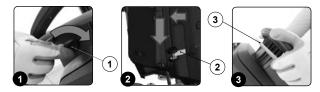
- When the dead man's lever (4) is pressed, the machine will begin to move. The lever is located 6. underneath the control handlebars (Fig.4)
- NB: the brush head body will only begin to descend to its working position when the dead (i)man's lever has been pressed.
- NB: the gearmotor will only begin functioning, and the solenoid valve will only begin dispensing (i) detergent solution, when the brush head body is in its working position.



SCRUBBING WITHOUT DRYING

To perform a scrubbing only program, proceed as follows

- Make all the checks listed in "PREPARING TO WORK"
- 2.
- Go to the driving position, behind the machine. Turn the main switch (1) to "I", making a quarter turn of the key in the direction of the arrow 3. (Fig.1). 4 Lower the brush head body and detach the "BRUSH HEAD CONTROL" pedal (2) at the rear of
- When the dead man's lever (3) is pressed, the machine will begin to move. The lever is located 5 underneath the control handlebars (Fig.3).
- NB: the brush head body will only begin to descend to its working position when the dead (\mathbf{i}) man's lever has been pressed.
- NB: the gearmotor will only begin functioning, and the solenoid valve will only begin dispensing (\mathbf{i}) detergent solution, when the brush head body is in its working position.



DRYING

To perform a drying program, proceed as follows

- Make all the checks listed in "PREPARING TO WORK".
- Go to the driving position, behind the machine. Turn the main switch (1) to "I", making a quarter turn of the key in the direction of the arrow 2. 3.
- (Fig.1). Lower the squeegee body and turn the squeegee control lever (2) in the direction of the arrow 4.
- (Fig.2). The lever is located on the back of the machine. When the dead man's lever (3) is pressed, the machine will begin to move. The lever is located underneath the control handlebars (Fig.3). 5.
- NB: the vacuum motor will only begin to work when the squeegee body is in contact with the (i) floor





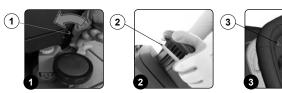
The drying without scrubbing operation should only be carried out if the machine was previously used to carry out a scrubbing without drying operation.



ADJUSTMENT OF THE DETERGENT SOLUTION FLOW

To adjust the flow of detergent solution during work, proceed as follows

- Make sure the detergent solution tap is fully open, rotating the knob (1) in the direction of 1. the arrow (Fig.1). As the knob is rotated, the flow of detergent in the machine water circuit is increased.
- By pushing the dead man's lever (2) the brush motor will start operating and the solenoid valve 2 will distribute detergent solution to the brush (Fig.2). During the first few meters check that the amount of solution is sufficient to wet the floor, but not 3.
- excessive to exit the splash guard. If the amount of chemical that comes out is not suitable, it can be controlled via the knob (1) on
- the rear left-hand side of the machine (Fig.1).
- NB: If you wish to stop the delivery of detergent solution completely when working, press the (i)button (3) on the control handlebars (Fig.3).
- NB: When the button (3) on the control display is pressed, the word "H2O STOP" will appear (i) intermittently(Fig.4).
- NB: To reactivate the delivery of the detergent solution, press the button (3) again (Fig.3). (i)

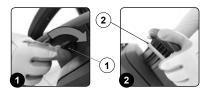




REGULATING THE FORWARD SPEED

This machine is equipped with electronic traction control. To adjust the forward speed during work proceed as follows

- Turn the main switch (1) to "I", making a guarter turn of the key in the direction of the arrow 1. (Fig.1)
- 2. Press the dead man's levers (2) underneath the control handlebars (Fig.2).
- NB: The forward speed of the machine can be adjusted by varying the pressure on the dead (\mathbf{i}) man's lever (2). The more it is pressed, the more the forward sp





This machine is equipped with electronic traction control. To reverse, proceed as follows

- Raise the brush head body and fully depress the "BRUSH HEAD CONTROL" pedal (1) at the rear of the machine (Fig.1).
- NB: to lock the brush head in the raised position, depress the pedal (1) fully and then move it (\mathbf{i}) towards the right-hand side of the machine (Fig.1).
- NB: if the brush head body is left in contact with the floor, the gearmotor will continue (i)functioning but the solenoid valve will stop dispensing detergent solution on the brush.
- 2. Raise the squeegee body and turn the squeegee control lever (2) in the direction of the arrow
- (Fig.2). The lever is located on the back of the machine. Press the "REVERSE ACTIVATION DEACTIVATION" button (3) on the control handlebars 3. (Fig.3).



- NB: As soon as the button (3) is pressed, the word "BACK" will appear on the control display (i) (Fig.4)
- 4. Activate the dead man's levers (5) on the handlebars (Fig.4) to start moving the machine in
- WARNING: the reverse speed is lower than the forward speed to comply with current health ∕!∖ and safety standards. If the potentiometer is adjusted while reversing, the adjustment of the forward speed will be automatically changed.
- WARNING: it is impossible to reverse if the squeegee body touches the floor. In order to ∕!∖ reverse, lift the squeegee body from the floor using the relevant lever on the back of the machine
- (i) NB: to disable reverse movement, press the button (4) on the control handlebars again.



EMERGENCY BUTTON

This machine is equipped with an emergency switch. To activate it, just press the button (1) on the back of the control handlebars (Fig.1).

- WARNING: this control interrupts the electrical circuit between the batteries and the machine ⚠ system
- NB: after stopping and resolving the problem, turn the key to "0", set the button (1) to the (i) ndard position and turn the key to "I" to resume the work.



ECO MODE

This machine has an Eco-Mode function for reducing the noise generated by the vacuum motor, and for reducing the energy used by the machine

To activate or deactivate this function, just press the button (1) on the instrument panel for at least three seconds (Fig.1).

(i) N.B.: When the Eco-Mode function is active, the word "ECO" will flash on the control display (Fig.2)

Just press the button (1) on the control panel to deactivate the "Eco-Mode" function (Fig.1). If the dead man's lever (2) is released when performing a scrubbing with drying operation in Eco-Mode (Fig.3), both the traction motor and the brush motor, along with the solenoid valve, will stop working, while the vacuum motor will continue to function until it is raised off the floor.

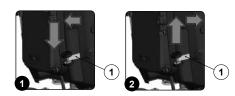
NB: To recommence work, simply press the dead man's lever (2) and the traction motor will (\mathbf{i}) start immediately; the brush motor; the solenoid valve



EXTRA BRUSH HEAD PRESSURE

This machine can increase the pressure exerted on the brush during the work cycle. To do this:

- Check that the brush head body is in contact with the ground; if not, detach the "BRUSH HEAD CONTROL" pedal (2) at the rear of the machine from the plate retainer (Fig.1). 1 2.
- Raise the brush head pedal and engage it in the "EXTRA PRESSURE" position (Fig.2).



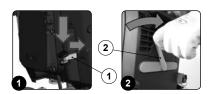
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RECOVERY TANK OVERFLOW

The machine is equipped with a mechanical device (float) under the recovery tank lid that, when the recovery tank is full, shuts off the air to the vacuum motor intake to protect it; the sound of the vacuum motor will then be deeper.

If this is the case, proceed as follows:

- Raise the brush head body and fully depress the "BRUSH HEAD CONTROL" pedal (1) at the 1. rear of the machine (Fig.1)
- NB: to lock the brush head in the raised position, depress the pedal (1) fully and then move it (i) towards the right-hand side of the machine (Fig.1)
- Raise the squeegee body off the floor by means of the lever (2) on the back of the machine (Fig.2). Bring the machine to the designated place for draining off the dirty water, and empty the recovery 2 3. tank (see "EMPTYING THE RECOVERY TANK").



AT THE END OF THE WORK

At the end of the work, and before carrying out any type of maintenance, perform the following operations

- 1. Raise the brush head body and detach the "BRUSH HEAD CONTROL" pedal (1) at the rear of the machine from the plate retainer (Fig.1).
- 2 Raise the squeegee body off the floor by means of the lever (2) on the back of the machine (Fig.2)
- 3
- Take the appliance to the dedicated dirty water drainage area. Switch off the machine by turning the main switch (3) to "0", making a quarter turn of the key in 4 the direction of the arrow (Fig.3). Remove the key from the instrument panel







(3)

- 5. Carry out all the procedures listed in the paragraph "RECOMMENDED PERIODIC MAINTENANCE" (in the column "AT THE END OF THE WORK").
- Take the appliance to the designated machine storage place. 6
- ATTENTION: park the machine in an enclosed place, on a flat surface, and at a safe distance ⚠ from any objects that could either damage it or be damaged due to contact with the machine itself
- 7. Make sure the machine is in a safe condition (see "MACHINE SAFETY MEASURES").

ATTENTION: if the machine is left unused for more than one whole day, remove the brush ⚠ from the brush head body, and the squeegee body from the squeegee support.

- Grip the handle (4) on the right-hand side of the recovery tank (Fig.4) and turn the tank as far as it will go, until it reaches the maintenance position. 8
- 9 Grip the prop (5) and turn it as far as it will go (Fig.5), until it reaches the work position. Block the rotation of the prop (5) by pushing it towards the inside of the cover (Fig.6). 10



11. Grip the handle (4) on the right-hand side of the recovery tank and turn the tank as far as it will go. until it reaches the work position (Fig.7).



RECOMMENDED MAINTENANCE OPERATIONS

| TYPE OF MAINTENANCE | AT THE END OF THE WORK | DAILY | WEEKLY | BEFORE A LONG PERIOD OF NON-USE | TRANSPORT | |
|--|---------------------------|-------|--------|------------------------------------|-----------|--|
| EMPTYING THE RECOVERY TANK | х | | | х | х | |
| CLEANING THE DEBRIS HOPPER (50BTS VERSION) | х | | | х | x | |
| CLEANING THE SQUEEGEE BODY | х | х | | х | | |
| CLEANING THE BRUSH HEAD BRUSH (50BT VERSION) | | х | | х | | |
| CLEANING THE BRUSH HEAD BRUSHES (60BT VERSION) | | х | | х | | |
| CLEANING THE BRUSH HEAD BRUSHES (50BT VERSION) | | х | | х | | |
| CLEANING THE RECOVERY TANK | х | | х | х | | |
| EMPTYING THE SOLUTION TANK | х | | х | х | х | |
| CLEANING THE WATER SYSTEM FILTER | | х | | х | | |
| CLEANING THE VACUUM TUBE | | х | | х | | |
| CLEANING THE SOLUTION TANK | | | х | х | | |
| CLEANING THE VACUUM WAND KIT | Х | | х | х | | |

DRAINING THE RECOVERY TANK

Proceed as follows to empty the recovery tanks

- Take the machine to the maintenance area
- 2 Make sure the machine has been secured (see the section titled "SECURING THE MACHINE").
- CAUTION: users are advised to always wear protective gloves, to avoid the risk of serious injury \triangle to hands.
- 3. Release the recovery tank drainage tube (on the back of the machine) from the retainers (Fig.1). 4 Bend the end of the drainage tube in order to create a choke and prevent the content from coming out (Fig.2), then position the tube on the discharge surface, unscrew the cap, and gradually release the tube

NB: the place designated for this operation must comply with current environmental protection 3 . regulations

Repeat the operations in reverse order to reassemble all the parts 5.

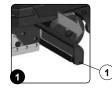




CLEANING THE DEBRIS HOPPER (50BTS VERSION)

To clean the debris hopper, proceed as follows

- Take the machine to the maintenance area 1. Make sure the machine has been secured (see the section titled "SECURING THE MACHINE"). 2.
- CAUTION: users are advised to always wear protective gloves, to avoid the risk of serious injury to hands.
- 3. Use the moulded handle (1) to extract the debris hopper (Fig.1) and empty it.
- NOTE: the place designated for this operation must comply with current environmental ē3 protection regulations
- Clean the inside with a jet of water, and use a brush to remove any residual impurities if necessary. 5. Proceed in the opposite order to reassemble all the parts.





CLEANING THE SQUEEGEE BODY

The careful cleaning of the whole vacuum unit ensures better drying and cleaning of the floor as well as a longer vacuum motor life. To clean the squeegee body, proceed as follows:

Take the machine to the maintenance area. 1. 2 Make sure the machine has been secured (see the section titled "SECURING THE MACHINE").

CAUTION: these operations must be carried out using protective gloves to avoid any possible 0 contact with the edges or tips of metal objects

- Remove the vacuum tube (1) from the vacuum nozzle on the squeegee body (Fig.1). 3.
- 4 Completely unscrew the knobs (2) in the squeegee body pre-assembly (Fig.2). Remove the squeegee body from the slits in the squeegee connector (Fig.3).
- 5.
- 6 Thoroughly clean the vacuum chamber of the squeegee body, first with a jet of water and then with a damp cloth.







NB: the place designated for this operation must comply with current environmental protection ē3 regulations

- 7. Thoroughly clean the rear rubber blade of the squeegee body, first with a jet of water and then with a damp cloth
- Thoroughly clean the front rubber blade of the squeegee body, first with a jet of water and then 8 with a damp cloth.
- Thoroughly clean the vacuum nozzle with a jet of water, and then with a damp cloth.
- 10. Repeat the operations in reverse order to reassemble all the parts

CLEANING THE BRUSH HEAD BRUSH (50BT VERSION)

Careful cleaning of the brush guarantees better cleaning of the floor, as well as a longer brush head gearmotor lifespan. To clean the brush, proceed as follows:

1. Take the machine to the maintenance area

CAUTION: these operations must be carried out using protective gloves to avoid any possible 73 contact with the edges or tips of metal objects

- 2. Insert the ignition key and switch on the machine. Turn the main switch (1) to "I" by rotating the key a quarter turn in the direction shown by the arrow (Fig.1).
- Raise the brush head body and fully depress the "BRUSH HEAD CONTROL" pedal (2) at the 3. rear of the machine (Fig.2).
- NB: to lock the brush head in the raised position, depress the pedal (2) fully and then move it (\mathbf{i}) towards the right-hand side of the machine (Fig.2).
- Press the "BRUSH UNCOUPLING" button (3) on the control panel for more than 3 seconds (Fig.3).
- ⚠ CAUTION: do not stand near the brush head body while the brush is being uncoupled.
- Clean the brush under a stream of running water to remove any impurities from its bristles. Check 5. the wear status of the bristles and replace the brushes if they are excessively consumed (the bristle protrusion must not be less than 10mm; this distance is indicated on the brush by the yellow band). When replacing the brush, read "REPLACING THE BRUSH HEAD BRUSH".



CLEANING THE BRUSH HEAD BRUSHES (60BT VERSIONS)

Careful cleaning of the brush guarantees better cleaning of the floor, as well as a longer brush head gearmotor lifespan. To clean the brush, proceed as follows:

- Take the machine to the maintenance area
- e sure the machine has been secured (see the section titled "SECURING THE MACHINE"). 2.
- CAUTION: users are advised to always wear protective gloves, to avoid the risk of serious iniurv to hands

NB: the place designated for this operation must comply with current environmental protection 23 . regulations

Go to the front of the machine. Press the brush-holder plate retainer (1) and simultaneously rotate the brush in the direction shown in the image (Fig.1).

ATTENTION: Fig.1 shows the rotation direction of the left-hand brush. A

5. When brush rotation is prevented, turn until the button on the brush is disengaged from the coupling spring on the brush-holder plate.

Repeat the same operation for the right-hand brush

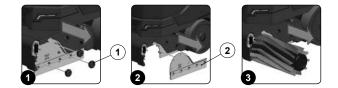
Clean the brush under running water to remove any impurities from its bristles. Check the bristles are not worn; in the event of excessive wear, replace the brush (the bristles should be at least 10mm long). When replacing the brush, read "<u>REPLACING THE BRUSH HEAD BRUSH</u>".



CLEANING THE CYLINDRICAL BRUSHES (50BTS VERSIONS)

Careful cleaning of the brush guarantees better cleaning of the floor, as well as a longer brush head gearmotor lifespan. To clean the brush, proceed as follows:

- Take the machine to the maintenance area 2 Make sure the machine has been secured (see the section titled "SECURING THE MACHINE").
- CAUTION: users are advised to always wear protective gloves, to avoid the risk of serious injury to hands
- NB: the place designated for this operation must comply with current environmental protection 3 regulations
- 3 Go to the front left-hand side of the machine.
- With the brush head raised from the floor, turn the knobs (1) that hold the left lateral carter (2) in 4. place anti-clockwise (Fig.1).
- Remove the left lateral carter (2) (Fig.2). 5.
- 6. 7.
- Extract the brush from the tunnel (Fig.3). Repeat the previously described operations for the right-hand side as well 8
- Clean the brush under running water to remove any impurities from its bristles. Check the bristles are not worn; in the event of excessive wear, replace the brush (the bristles should be at least 10mm long). Read the paragraph "REPLACING THE CYLINDRICAL BRUSHES" for info on how to replace the brush.
- \triangle ATTENTION: Every time it is remove, swap the front brush with the rear brush, and vice versa.



CLEANING THE RECOVERY TANK

To clean the recovery tank (without the optional tank cleaning kit), proceed as follows:

- 1. Take the machine to the maintenance area
- 2. Make sure the machine has been secured (see the section titled "SECURING THE MACHINE").

CAUTION: users are advised to always wear protective gloves, to avoid the risk of serious A injury to hands

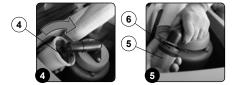
NB: the place designated for this operation must comply with current environmental protection **E**3regulations

- Grip the handle (1) on the left-hand side of the recovery tank (Fig.1) and turn the tank cover as 3. far as it will go, until it reaches the maintenance position.
- Remove the dirty water basket/filter (2) from the support (Fig.2). 5. Remove the basket cover (3) from the basket/filter (2) (Fig.3)



- 6. Clean the basket/filter (2) and the basket cover (3) under a jet of water
- (i) NB: use a spatula or brush to eliminate any dirt that is particularly difficult to remove.
- 7. Use a dry cloth to dry the basket/filter (2) and the basket cover (3) and place them back inside
- the recovery tank Remove the filter protection cup (4), turning it in the direction of the arrow (Fig.4). 8.
- Remove the vacuum motor filter (5), taking care not to lose the support tie (6) inside the recovery tank (Fig.5)
- 10. Rinse the cup (4) and filter (5) thoroughly under running water
- (i) NB: use a spatula to eliminate any dirt that is particularly difficult to remove
- 11. Repeat the operations in reverse order to reassemble all the parts.





DRAINING THE SOLUTION TANK

Proceed as follows to empty the solution tank

- Take the machine to the maintenance area 1. 2. Make sure the machine has been secured (see the section titled "SECURING THE MACHINE").
- CAUTION: users are advised to always wear protective gloves, to avoid the risk of serious injury
- CAUTION to hands.
- Fully open the tap outflow, rotating the knob (1) in the direction of the arrow (Fig.1). 2. Unscrew the cap (2) of the solution tank drainage system (Fig.2); the cap is located at the rear of the machine.
- Remove the cap/measuring device (3) (Fig.3), located on the left-hand side of the machine. 3.
- 4 With the solution tank empty, rinse the inside of the solution tank with a jet of running water.

NB: the place designated for this operation must comply with current environmental protection 0 regulations.







CLEANING THE WATER SYSTEM FILTER

To clean the water system filter, proceed as follows

- Take the machine to the maintenance area
- 2. Make sure the machine has been secured (see the section titled "SECURING THE MACHINE").

CAUTION: users are advised to always wear protective gloves, to avoid the risk of serious A injury to hands.

- 3.
- Block the tap outflow, rotating the knob (1) in the direction of the arrow (Fig.1). Go to the right-hand side of the machine and loosen the detergent solution filter cap (2) (Fig.2). 5 Rinse the filter cartridge under a jet of water, and use a brush to eliminate any impurities, it necessary.

NB: the place designated for this operation must comply with current environmental protection O regulations.

6. Once the filter cartridge is clean, repeat the operations in the reverse order to reassemble all the parts.





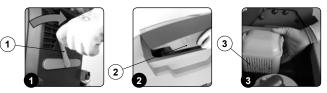
CLEANING THE VACUUM TUBE

Careful cleaning of the vacuum tube guarantees better cleaning of the floor as well as a longer vacuum motor life. Proceed as follows to clean the vacuum tube:

- Take the machine to the maintenance area. 1 2.
 - Make sure the machine is in a safe condition (see "MACHINE SAFETY MEASURES").

ATTENTION: users are advised to always wear protective gloves, to avoid the risk of serious injury to hands.

- 3. Raise the squeegee body and turn the squeegee control lever (1) in the direction of the arrow
- (Fig.1). The lever is located on the back of the machine. Grip the handle (2) on the left-hand side of the recovery tank (Fig.2) and turn the tank cover as 4 far as it will go, until it reaches the maintenance position
- Remove the dirty water basket/filter (3) from the support (Fig.3). 5.
- 6 Rinse the inside of the vacuum tube with a jet of running water (Fig.4)
- Repeat the operations in reverse order to reassemble all the parts 7.





EXTRAORDINARY MAINTENANCE WORK

REPLACING THE BRUSH HEAD BRUSH (50BT VERSIONS)

The good condition of the brush guarantees better cleaning of the floor, as well as a longer brush head gearmotor lifespan. To replace the brush, proceed as follows:

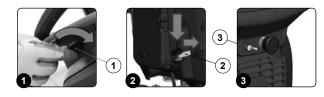
1. Take the machine to the maintenance area



- CAUTION: these operations must be carried out using protective gloves to avoid any possible contact with the edges or tips of metal objects.
- 2. Insert the ignition key and switch on the machine. Turn the main switch (1) to "I" by rotating the key a quarter turn in the direction shown by the arrow (Fig.1).
- 3. Raise the brush head body and fully depress the "BRUSH HEAD CONTROL" pedal (2) at the rear of the machine (Fig.2).
- NB: to lock the brush head in the raised position, depress the pedal (2) fully and then move it (i) towards the right-hand side of the machine (Fig.2).
- 4. Press the "BRUSH UNCOUPLING" button (3) on the control panel for more than 3 seconds (Fig.3).

CAUTION: do not stand near the brush head body while the brush is being uncoupled.

- 5. Replace the worn brush with a new one. With the brush head UP, insert the brush in the plate housing underneath the brush head, turning it until the three buttons engage with the notches on the plate itself.
- 6 Turn until the pin is pushed towards the coupling spring and is locked into place.





REPLACING THE BRUSH HEAD BRUSH (60BT VERSIONS)

The good condition of the brush guarantees better cleaning of the floor, as well as a longer brush head gearmotor lifespan. To replace the brush, proceed as follows:

- Take the machine to the maintenance area 2.
 - Make sure the machine has been secured (see the section titled "SECURING THE MACHINE").

CAUTION: users are advised to always wear protective gloves, to avoid the risk of serious A injury to hands.

NB: the place designated for this operation must comply with current environmental protection **2**3 regulations

- Go to the front of the machine. 3
- Replace the worn brush with a new one
- Press the brush-holder plate retainer (1) and simultaneously rotate the brush in the direction 5 shown in the image (Fig.1).
- Æ ATTENTION: Fig.1 shows the rotation direction of the left-hand brush.
- When brush rotation is prevented, turn until the button on the brush is disengaged from the 6. coupling spring on the brush-holder plate.
- 7. Repeat the same operation for the right-hand brush



REPLACING THE ABRASIVE PAD (50BTO VERSIONS)

Ensuring the good condition of the abrasive pad will guarantee better floor cleaning results, and will extend the service life of the brush head motor. To replace the abrasive pad, proceed as follows:

- Take the machine to the maintenance area Make sure the machine has been secured (see the section titled "SECURING THE MACHINE"). 2.
- CAUTION: users are advised to always wear protective gloves, to avoid the risk of serious injury to hands.

NB: the place designated for this operation must comply with current environmental protection Ø regulations

- Go to the front of the machine.
- Replace the worn pad with the new one. With the brush head in the raised position, slide the Λ abrasive pad into the housing under the brush head, pressing it until it is firmly attached to it (Fig.1).



REPLACING THE CYLINDRICAL BRUSHES (50BTS VERSIONS)

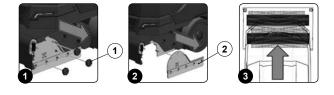
The good condition of the brush guarantees better cleaning of the floor, as well as a longer brush head gearmotor lifespan. To replace the brush, proceed as follows:

- Take the machine to the maintenance area
- 2. Make sure the machine has been secured (see the section titled "SECURING THE MACHINE").
- CAUTION: users are advised to always wear protective gloves, to avoid the risk of serious <u>a</u> injury to hands.

NB: the place designated for this operation must comply with current environmental protection 3 regulations

- 3 Go to the front of the machine
- 4. With the brush head raised from the floor, turn the knobs (1) that hold the left lateral carter (2) in place anti-clockwise (Fig.1).
- 5 Remove the left lateral carter (2) (Fig.2).
- Replace the worn brush with a new one. Insert the brush into the tunnel, taking care to make 6. sure that the gearmotor's drive shaft enters the slit in the brush itself.
- Repeat the previously described operations for the right-hand side as well 7

NB: In order to be installed correctly, the brushes must form an X when viewed from above in (\mathbf{i}) the forward direction of movement (Fig.3).



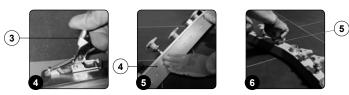
REPLACING THE SQUEEGEE BODY RUBBER BLADES

Ensuring the good condition of the squeegee body rubber blades guarantees better floor cleaning and drying results, as well as a longer service life for the vacuum motor. To replace the squeegee body rubber blades, proceed as follows:

- 1. Take the machine to the maintenance area
- 2. Make sure the machine has been secured (see the section titled "SECURING THE MACHINE").



- CAUTION: these operations must be carried out using protective gloves to avoid any possible contact with the edges or tips of metal objects.
- 3. Remove the vacuum tube (1) from the vacuum nozzle on the squeegee body (Fig.1).
- 4. Completely unscrew the knobs (2) in the squeegee body pre-assembly (Fig.2). 5. Remove the squeegee body from the slits in the squeegee connector (Fig.3)
- (2) $(\mathbf{1})$
- 6. Remove the rear rubber-pressing blade by releasing the retainer (3) on the back of the squeegee (Fig.4)
- Remove the rear rubber blade (4) from the squeegee body (Fig.5).
- 8. Completely unscrew the knobs (5) in the squeegee body pre-assembly (Fig.6).



Remove the front rubber blade (7) from the inside of the sq (Fig.7) 10. Repeat the operations in reverse order to reassemble all the parts

- NB: before using the machine, remember to adjust the squeegee body (see "ADJUSTING THE (i) <u>SQUEEGEE BODY RUBBER BLADES").</u>
- NB: you are advised to replace both squeegee body blades in order to ensure good results when (\mathbf{i}) drying the floor.



ADJUSTMENT INTERVENTIONS

ADJUSTING THE SQUEEGEE BODY RUBBER BLADES

Careful adjustment of the squeegee body rubber blades guarantees better cleaning of the floor. To adjust the squeegee body blades, proceed as follows:

- Make sure the machine is in a safe condition (see "MACHINE SAFETY MEASURES") 1
- ATTENTION: these operations must be carried out using protective gloves to avoid any possible contact with the edges or tips of metal objects.
- Stand at the back of the machine.

Adjusting the height of the squeegee body:

- Adjust the height of the rubber blade in relation to the floor by loosening or tightening the knobs 3. (1) (Fig.1).
- NB: Figure 1 indicates the rotation direction for decreasing the distance between the squeegee (i) support and the floor. This distance can be increased by turning it in the opposite direction
- NB: by decreasing the distance between the squeegee support and the floor, the rubber blades (i) present in the squeegee body move closer to the floor.
- NB: the right-hand and left-hand knobs must be rotated the same number of times, so that the (i) squeegee is parallel to the floor when it is working.
- NB: make sure the adjustment is correct by looking at the instrument (2) on the squeegee body (i) (Fig.2)

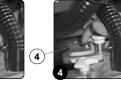


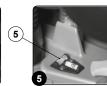
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Adjusting the tilt of the squeegee body:

- Loosen the retainer knob (3) of the squeegee tilt adjustment knob (4) (Fig.3).
- To adjust the tilt of the squeegee body rubber blades in relation to the floor, tighten or loosen the knob (5) (Fig.4) until the blades are bent outwards by about 30° in relation to the floor, in an even 5. manner along their entire length.
- NB: make sure the adjustment is correct by looking at the instrument (6) on the squeegee body (\mathbf{i}) (Fig.5).
- Once the adjustment has been completed, tighten the retainer knob (3). 6.







DISPOSAL

To dispose of the machine, take it to a demolition centre or an authorised collection centre. Before scrapping the machine, it is necessary to remove and separate out the following materials, then send them to the appropriate collection centres in accordance with the environmental hygiene regulations currently in force:

Brushes

- . Felt
- Electric and electronic parts*
- . Batteries
- Plastic parts (tanks and handlebars)
- Metal parts (levers and frame)

(*) In particular, contact your distributor when scrapping electric and electronic parts.

CHOOSING AND USING THE BRUSHES POLYPROPYLENE BRUSH (PPL)

Used on all types of floors. Good resistance to wear and tear, and hot water (no greater than 50°C.). The polypropylene is non-hygroscopic and therefore retains its characteristics even when working in wet conditions.

ABRASIVE BRUSH

The bristles of this type of brush are charged with highly aggressive abrasives. It is used to clean very dirty floors. To avoid floor damage, work only with the pressure strictly necessary.

BRISTLE THICKNESS

Thicker bristles are more rigid and are therefore used on smooth floors or floors with small joints. On uneven floors or those with deep joints, it is advisable to use softer bristles which can enter the

gaps more easily. Remember that when the bristles are worn and therefore too short, they will become rigid and are no longer able to penetrate and clean deep down. In this case, like with over-large bristles, the brush tends to jump.

PAD HOLDER

The pad holder is recommended for cleaning shiny surfaces.

There are two types of pad holder:

- 1. The traditional pad holder is fitted with a series of anchor points that allow the abrasive floor pad to be held and dragged while working. The CENTRE LOCK type pad holder not only has anchor points, but also a snap-type central
- 2. locking system in plastic that allows the abrasive floor pad to be perfectly centred and held without any risk of it becoming detached. This type of pad holder is recommended above all for machines with more than one brush, where the centring of the abrasive discs is difficult.

| MACHINE | CODE | QTY | BRISTLE | NOTES |
|---------------------------|--------|-----|----------|---|
| | 404654 | 1 | PPL 0.3 | BLUE BRUSH |
| | 405631 | 1 | PPL 0.6 | WHITE BRUSH |
| MAXIMA 2017 BASE 50BT | 404653 | 1 | PPL 0.9 | BLACK BRUSH |
| DAGE SUDT | 405632 | 1 | ABRASIVE | BRUSH |
| | 405527 | 1 | | PAD HOLDER WITH CENTRE LOCK |
| | 442823 | 2 | PPL 0.3 | BLUE BRUSH |
| | 442824 | 2 | PPL 0.6 | WHITE BRUSH |
| MAXIMA 2017 BASE 60BT | 442825 | 2 | PPL 0.9 | BLACK BRUSH |
| DAGE 00D1 | 442826 | 2 | ABRASIVE | BRUSH |
| | 442828 | 2 | | PAD HOLDER WITH CENTRE LOCK |
| | 442005 | 1 | | ABRASIVE PAD 508X355 (COLOUR: RED) |
| | 442661 | 1 | | ABRASIVE PAD 508X355 (COLOUR: GREEN) |
| MAXIMA 2017 BASE 50BTO | 442662 | 1 | | ABRASIVE PAD 508X355 (COLOUR: BLACK) |
| | 443711 | 1 | | ABRASIVE PAD 508X355 (COLOUR: WHITE) |
| | 443712 | 1 | | ABRASIVE PAD 508X355 (COLOUR: BROWN) |

| MACHINE | CODE | QTY | BRISTLE | NOTES |
|-------------|--------|-----|----------|--------------|
| | 445594 | 2 | PPL 0.3 | BLUE BRUSH |
| MAXIMA 2017 | 445595 | 2 | PPL 0.6 | WHITE BRUSH |
| BASE 50BTS | 445596 | 2 | PPL 0.9 | YELLOW BRUSH |
| | 445597 | 2 | ABRASIVE | BRUSH |

EC DECLARATION OF CONFORMITY

The undersigned manufacturer FIMAP spa Via Invalidi del Lavoro, 1 37059 Santa Maria di Zevio (VR) declares under its sole responsibility that the products

FLOOR SCRUBBING MACHINES mod. Maxima 2017 BASE 50BT CB - Maxima 2017 BASE 60BT CB Maxima 2017 BASE 50BTO CB - Maxima 2017 BASE 50BTS CB

comply with the provisions of Directives

- 2006/42/EC: Machinery Directive

2014/35/EC: Low Voltage Directive. 2014/30/EC: Electromagnetic compatibility directive.

The person authorized to compile the technical file:

Mr. Giancarlo Ruffo Via Invalidi del Lavoro, 1 37059 Santa Maria di Zevio (VR) - ITALY

Santa Maria di Zevio (VR), 01/01/2018

Fimap S.p.A Legal representative Giancarlo Ruffo

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FLOOR SCRUBBING MACHINES mod. Maxima 2017 BASE 50BT - Maxima 2017 BASE 50BTO Maxima 2017 BASE 50BTS

comply with the provisions of Directives

- 2006/42/EC: Machinery Directive. 2014/30/EC: Electromagnetic compatibility directive.
- The person authorized to compile the technical file:

Mr. Giancarlo Ruffo Via Invalidi del Lavoro, 1 37059 Santa Maria di Zevio (VR) - ITALY

Santa Maria di Zevio (VR), 01/01/2018

Fimap S.p.A Legal representative Giancarlo Ruffo

TROUBLESHOOTING

This chapter lists the most common problems linked with the use of the machine. If you are unable to resolve the problems with the information given here, please contact your nearest assistance centre.

| PROBLEM | POSSIBLE CAUSE | SOLUTION |
|--|---|---|
| | The main switch is set to "0". | Make sure the main switch is on "I". If it isn't, turn the key clockwise. |
| THE MACHINE DOES NOT START | Check that, when switched on, there are no alarm messages on the control display. | Stop the machine immediately and contact the technician of the specialised service centre, or press the SOS button if the HFM kit is installed. |
| | Make sure the batteries are correctly connected to each other and that the battery connector is connected to the electrical system connector. | Connect the batteries correctly inside the machine (see "INSERTING THE BATTERIES IN THE MACHINE"). |
| | Check the charge level of the batteries. | If the battery charge level is critical, perform a complete recharge cycle (see paragraph " <u>CHARGING THE</u> BATTERIES"). |
| | The plug on the battery charger cable is not correctly inserted in the socket on the battery charger itself. | Reconnect the battery charger power cable. |
| THE BATTERIES ARE NOT CHARGED CORRECTLY | The plug on the battery charger power cable is not correctly inserted in the electrical outlet. | Check that the battery charger power supply cable plug is connected to the mains socket. |
| (VERSIONS WITH BUILT-IN BATTERY CHARGER) | The characteristics of the mains power supply do not correspond to those required by the battery charger. | Check that the characteristics in the battery charger plate are the same as those of the mains supply. |
| | The LEDs of the battery charger blink repeatedly. | Referring to the battery charger use and maintenance manual, check the meaning of the flashing signals that the battery charger emits dung the battery recharge stage. |
| THE MACHINE HAS A VERY LOW WORKING AUTONOMY | Check the battery charge level (check the symbol on the control display). | If the battery charge level is critical, perform a complete recharge cycle (see " <u>RECHARGING THE BATTERIES</u> "). |
| THE MACHINE DOES | The machine does not start. | Read the section "THE MACHINE DOES NOT START". |
| NOT MOVE | There is a drive pedal fault. | Contact your nearest service centre. |
| NOT ENOUGH DETERGENT | The quantity of detergent solution in the water system is not sufficient for the work to be carried out. | Check that the amount of detergent solution present in the machine water system is sufficient for the work to be carried out. |
| SOLUTION ON THE BRUSH | Detergent solution filter obstructed. | Check the detergent solution filter isn't obstructed. If it is, clean it (see " <u>CLEANING THE WATER SYSTEM</u> FILTER"). |
| | The machine does not start. | Read the section "THE MACHINE DOES NOT START". |
| | Not enough detergent solution comes out. | Read the section "NOT ENOUGH DETERGENT SOLUTION ON THE BRUSH". |
| THE MACHINE DOES NOT CLEAN CORRECTLY | The brushes have not been inserted correctly in the machine. | Check that the disc brushes have been correctly inserted in the machine (see "ASSEMBLING THE BRUSH"). |
| | The type of brush used is not suitable for the dirt to be removed. | Make sure the brushes fitted on the machine are suitable for the work to be carried out (see " <u>CHOOSING AND</u> <u>USING THE BRUSHES</u> ". |
| | The brush bristles are excessively worn. | Check the condition of the brush, and replace it if necessary (see "REPLACING THE BRUSH HEAD BRUSH"). |
| | | Make sure the squeegee is free of obstructions (see " <u>CLEANING THE SQUEEGEE BODY</u> "). |
| | | Make sure the vacuum tube is free of obstructions (see "CLEANING THE VACUUM TUBE"). |
| | The vacuum unit is obstructed. | Make sure the vacuum cap filter is free of obstructions (see "CLEANING THE RECOVERY TANK"). |
| THE SQUEEGEE DOES NOT DRY PERFECTLY | | Make sure the vacuum motor filter is free of obstructions (see "CLEANING THE RECOVERY TANK"). |
| | The cap on the recovery tank drainage tube is not properly positioned. | Check that the cap on the recovery tank drainage tube is positioned properly. |
| | The recovery tank lid is not positioned correctly. | Check that the recovery tank lid is properly positioned on the machine. |
| EXCESSIVE FOAM PRODUCTION | The detergent being used is not suitable. | Check that a low foam detergent has been used. If necessary, add a small quantity of anti foam liquid to the recovery tank. |
| TRODUCTION | The floor is not very dirty. | Dilute the detergent more. |
| THE MACHINE DOES NOT | The recovery tank is full. | Empty the recovery tank (see "EMPTYING THE RECOVERY TANK"). |
| VACUUM CORRECTLY | The vacuum device is obstructed | Read the section "THE SQUEEGEE DOES NOT DRY PERFECTLY". |



| NOTE |
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NOTE



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