

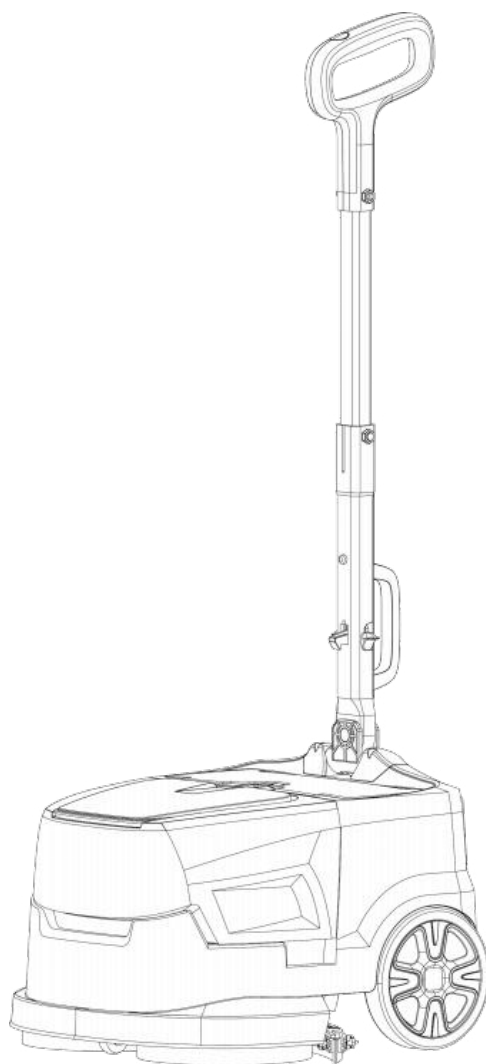
DAPPER

User Manual

Floor Scrubber

Dapper Commercial Auto Scrubber

Model: DP-WPFS1204



For any service-related issues, please contact us:

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Safety

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 at risk.

Operator cooperation is essential for accident prevention. No accident prevention program can be effective without the full cooperation of the person directly responsible for operating the machine.

Most workplace accidents, whether during work activities or while in transit, are caused by a failure to adhere to the most basic safety regulations.

An attentive and careful operator is the most effective safeguard against accidents and is fundamental to the successful implementation of any prevention program.

WARNING

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

Caution!

Indicates a probable dangerous situation that could cause minor injuries.

Recharging the Batteries

DANGER:

If the battery charger power cable is damaged or broken, it must be replaced by the manufacturer, an authorized service technician, or a qualified professional to prevent hazards.

Keep sparks, flames, and incandescent materials at a safe distance from the batteries.

Before charging, inspect the electric cable connecting the battery charger to the batteries. Do not use the charger if the cable is damaged—contact technical support immediately.

Inspect the electrical socket that connects the battery charger to the main power source. If the socket is damaged, do not use it, and contact an authorized technician to avoid hazardous situations.

Do not disconnect the battery charger cable from the machine's socket while charging. To stop charging, disconnect the power cable from the wall outlet first.

WARNING

- Use only compatible battery chargers designed for this device. Using incompatible chargers may damage the batteries or cause a fire.
- Always use the detachable power pack provided with this machine to charge the battery.
- Keep the battery charger cable away from hot surfaces.
- Read the user manual for the battery charger before use.
- Never disconnect the charger from the outlet with wet hands.

Using the Machine

DANGER:

- In an emergency, immediately press the main power switch and remove the battery from the machine's compartment.
- Do not collect or vacuum flammable liquids, gases, powders, acids, or solvents. This includes gasoline, paint thinners, fuel oil, or other combustible materials that may create explosive vapors.
- Avoid using the machine in environments with potentially explosive atmospheres (e.g., gas stations).
- Always follow safety standards for such areas.

WARNING

Only trained and authorized personnel should operate this machine.

Do not use the machine on slopes steeper than those specified on the serial number plate.

This machine is not suitable for cleaning rough or uneven floors. Avoid using it on slopes.

In case of a fire, use a dry powder fire extinguisher. Do not use water.

Adjust the machine's speed based on surface conditions to ensure safety.

To prevent unauthorized use, turn off the main switch and remove the battery from the compartment when not in use.

Do not operate the machine without proper training or authorization.

Do not operate the machine if you have not read and understood the user manual.

Avoid using the machine under the influence of alcohol, drugs, or medication.

Do not use the machine while operating a mobile phone or other electronic devices.

Do not operate the machine if it is malfunctioning.

Avoid using the machine in areas with flammable vapors, liquids, or combustible powders.

Do not use the machine in poorly lit areas unless the work lights or front headlights are activated.

Caution!

This machine must not be used by individuals (including children) with reduced physical, sensory, or mental capabilities, or by those without prior experience or knowledge of its operation unless they are properly instructed and supervised by a responsible adult.

Children must be supervised to ensure they do not play with the machine.

While operating the machine, pay attention to others, especially children.

Only use the machine with the voltage specified on the serial number plate.

Read all labels on the machine carefully. Do not cover or remove them. Replace any damaged or missing labels immediately.

Operating and Storage Instructions:

Only use and store the machine in an enclosed or covered area.

Do not use or store the machine outdoors in damp conditions or areas exposed to rain.

This machine does not produce harmful vibrations.

Operate the machine only as described in the manual.

Do not pick up anything that is burning or smoldering, such as cigarettes, matches, or glowing embers.

Always follow the instructions for mixing, using, and disposing of chemical substances as indicated on their containers.

ATTENTION:

Take appropriate safety measures to protect individuals and objects while using this machine.

Avoid collisions with shelving or scaffolding, especially in areas where objects could fall from heights.

Do not place liquid containers on the machine.

Use the machine only in environments with temperatures between 32°F (0°C) and 104°F (40°C).

When using detergents to clean floors, follow the instructions and warnings on the detergent labels.

Always wear appropriate gloves and protective equipment when handling cleaning agents.

Avoid operating the brushes while the machine is stationary to prevent floor damage.

Do not allow objects to penetrate the machine's openings or operate the machine if its openings are blocked.

Keep the machine's openings free from dust, lint, hair, or any foreign materials that could obstruct airflow.

Do not remove or modify any labels attached to the machine.

Use only the brushes supplied with the machine or those specified in the manual. Using unauthorized brushes may compromise safety and operation.

Before starting, check for leaks and ensure all safety devices are properly installed and functioning.

Take precautions to ensure hair, jewelry, or loose clothing does not get caught in the machine's moving parts.

Only operate the machine in well-lit areas.

Deactivation of the Machine

WARNING

- Do not transport or park the machine in its rest position when the solution tank and recovery tank are full.
- Protect the machine from sunlight, rain, and other atmospheric conditions when stationary or in use. Store it in a dry, sheltered area. This machine is designed for dry use only and must not be stored or used outdoors in humid conditions.
- Do not park the machine near combustible materials, powders, gases, or liquids.
- Always place the machine on a flat surface.

- Turn off the machine and remove the battery from the battery compartment.
- If the machine is left unattended, ensure it is protected from accidental movement.

Caution!

To prevent unauthorized use, interrupt the power supply by turning off the main switch and removing the battery from the compartment.

ATTENTION:

Store the machine only in environments with temperatures ranging from 32°F to 104°F (0°C to 40°C). The humidity level must remain between 30% and 85%.

Maintenance

DANGER:

To avoid short circuits when working near electrical components:

Avoid using non-insulated tools.

Do not place or allow metallic objects to fall on electrically powered components.

Remove rings, watches, or clothing with metallic parts that might come into contact with electrical components.

WARNING

Read all relevant instructions carefully before performing any maintenance or repair tasks.

If the machine does not function properly, ensure the issue is not due to failure to perform routine maintenance. If necessary, contact authorized technical assistance.

Restore all electrical connections after completing maintenance work.

Caution!

Always turn off the machine using the main switch and remove the battery before performing maintenance.

Avoid contact with moving parts. Do not wear loose clothing, jewelry, or long hair during maintenance tasks.

ATTENTION:

Do not tamper with the machine's safety devices under any circumstances. Always follow maintenance instructions precisely.

If issues arise while using the machine, confirm they are not caused by a lack of proper maintenance. Seek assistance from authorized personnel or service centers.

Use only original spare parts or components from authorized dealers to ensure the machine operates safely and effectively.

When the machine reaches the end of its service life, dispose of all materials responsibly and in accordance with local regulations.

Inspect and maintain the machine yearly with assistance from authorized technical service.

Replace worn parts with new components as needed to ensure reliability and safety.

Transport

WARNING

Drain both tanks completely before transport.

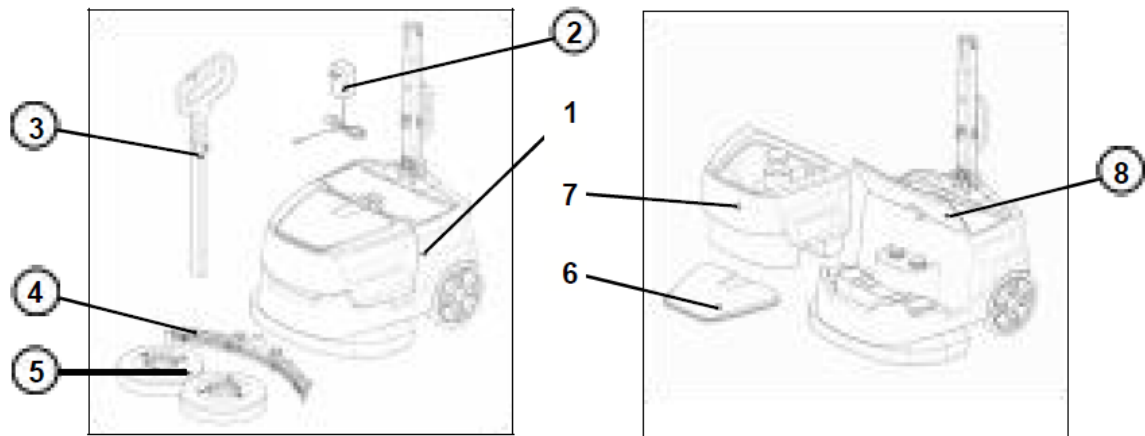
Move the squeegee to its rest position.
Remove the battery from the battery compartment.

Disposal

ATTENTION:

Do not abandon the machine at the end of its working life. It contains toxic or harmful substances that are subject to regulations for proper disposal. Ensure it is disposed of at designated specialized centers.

Parts list



POS.	CODE	QTY	DESCRIPTION
1	440974	1	MACHINE BASE
2	441033	1	BATTERY CHARGER
3	439888	1	CONTROL HANDLEBAR
4	224800	1	SQUEEGEE RUBBER KIT
5	224615	2	BRUSH
6	441023	1	RECOVERY FILLING CAP
7	227332	1	RECOVERY TANK
8	224619	1	SOLUTION FILLING CAP

TECHNICAL DATA	Unit	
Total power	W	1500
Working width, up	in	39.4
Working capacity, to	ft ² /h	23680.6
Central brush number (diameter x length)	No./in	1 (15.7 x 9.8)
Brush motor (rated)	W	720
Suction motor (rated)	W	480
Maximum gradient	%	10
Solution tank capacity	gal	2.6
Recovery tank capacity	gal	2.6
Machine body height	in	11.4
Machine body length	in	30.7
Overall dimensions of the machine (L x H x W)	in	42.5 x 39.4 x 11.4
Rated battery voltage	V/Ah	25.6 / 8000
Battery weight	lb	22
Machine weight when empty (machine + brush + squeegee)	lb	22
Machine weight in transport (machine + battery + brush + squeegee)	lb	83.6
Machine weight ready to use (machine + battery + 2.6 gal detergent solution)	lb	88.2
Sound pressure level [ISO 11201] - L _{pa}	dB(A)	<70
Uncertainty K	dB(A)	1.5
Hand-arm vibration level [ISO 5349]	m/s ²	<2.5
Vibration measurement uncertainty	%	4%

Assembly

How to Unpack the Machine

The procedure for unpacking the machine is as follows:

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

CAUTION: Use the pictograms printed on the box as a guide.

Open the outer box.

Remove the accessories from the box and carefully lay them on the ground.

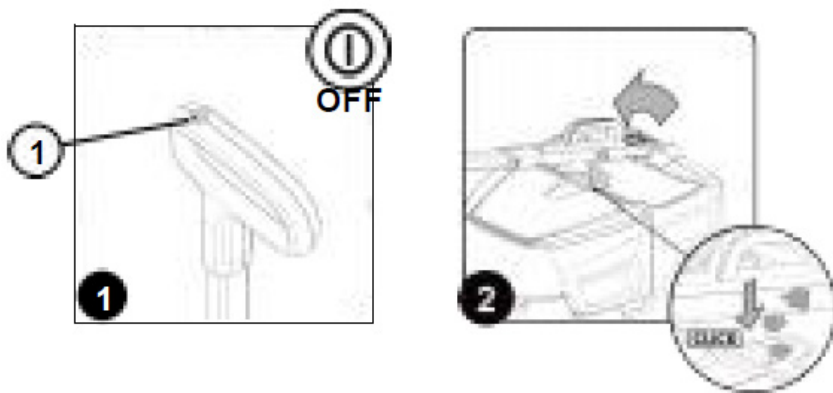
Take the machine out of the box.

ATTENTION: Keep all packaging components for future transportation of the machine.

CAUTION: Wear protective gloves during this process to avoid contact with sharp edges or metal parts.

How to Move the Machine

The procedure for the safe transportation of the machine is as follows:



Turn off the machine by pressing the main switch (1) (refer to Fig. 1).

Ensure the recovery tank is completely empty.

Ensure the solution tank is completely empty.

Lock the handlebar in the horizontal position:

Rest your foot on the body of the machine to prevent tilting.

Push the handle away from you until it locks into the horizontal position (refer to Fig. 2).

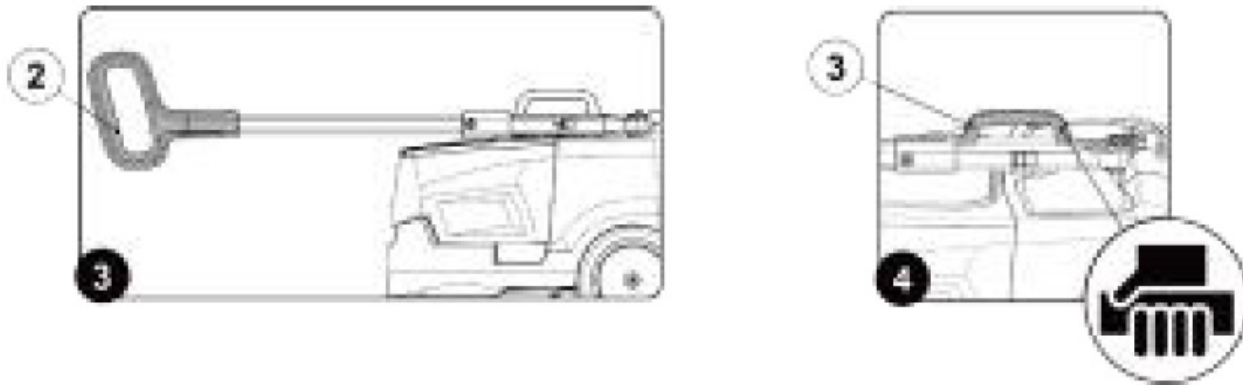
CAUTION: Do not place your foot on the main switch during this process.

Rotate the stop lever of the handlebar (2) in the direction of the arrow (refer to Fig. 3).

To lift the machine off the floor, use the rear handle (2) (refer to Fig. 4).

CAUTION: When transporting the machine on a vehicle, secure it firmly in compliance with safety reg-

ulations to prevent sliding or tipping over.



Recharging the Battery

The battery must be fully charged before its first use and whenever it does not provide sufficient power for tasks. Follow these steps to recharge the battery:

Preparation:

Take the machine to a designated, well-ventilated area for charging.

WARNING: Ensure the area is suitably ventilated.

Turn Off the Machine:

If the machine is running, turn it off by pressing the main switch (1) (refer to Fig. 1).
Lock the handlebar in the vertical position.

CAUTION: Do not rest your foot on the machine during this process.

Connect the Power Plug:

Plug the power cord (2) into the mains supply (refer to Fig. 2).

CAUTION: Ensure that the power outlet's specifications match those of the battery charger.

Battery Charger Placement:

Place the charger in a covered area.

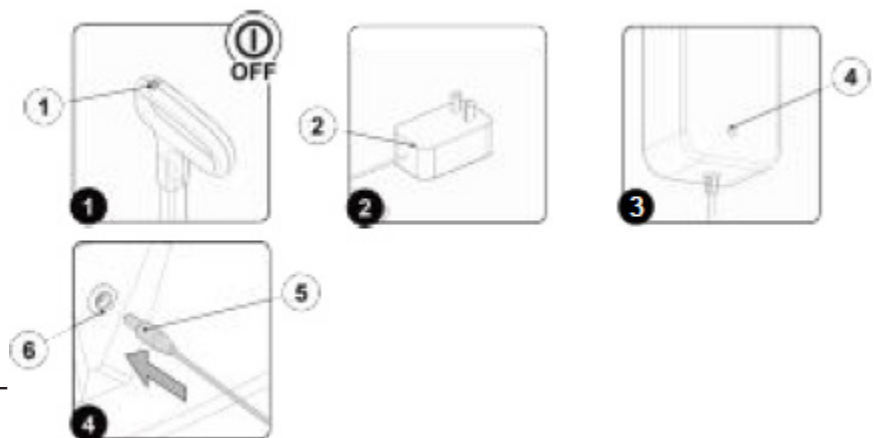
WARNING: Verify that the green LED (4) on the charger lights up when the charger base circuit is enabled (refer to Fig. 3). This indicates proper power connection.

Insert the Charger Plug:

Insert the charger plug (5) into the socket (6) on the battery (refer to Fig. 4).

CAUTION: Ensure the charging compartment is dry (no dust, condensation, or liquid).

CAUTION: Confirm that the red LED (4) lights up, indicating that the battery is charging.



Charging Cycle:

Perform a full charging cycle.

ATTENTION: The red LED (4) will remain lit until the battery is fully charged. When charging is complete, the red LED will turn off, and the green LED will turn on.

ATTENTION: It is safe to leave the charger and battery connected to the power outlet. The red LED will light up again if the charger reconnects to top up the battery.

ATTENTION: The red charge status LED (4) does not indicate the battery's charge level.

ATTENTION: The battery may become warm during charging. This is normal and does not indicate any issues with the battery.

ATTENTION: If the battery used in this machine is over-charged, this may cause a risk of fire, explosion or chemical burns.

7. Once the charging cycle is completed, remove the plug (2) on the battery charger from the mains socket.

ATTENTION: To prevent damaging to the mains socket, disconnect the plug from the mains socket by directly pulling the plug and not the power cable.

8. Take the power cable plug (5) out of the socket (6) on the battery.

PREPARATION OF MACHINE

1. Take the package to the dedicated maintenance area.
2. Remove the machine and all the accessories from the box.
3. Connect the connector (2) between the connecting rod (1) (Fig.1).
4. Fix the handlebar to the joint using the screw and nut (3), making sure the hole on the handlebar coincides with the hole on the joint (Fig.2).

N.B.: the screwdriver is not supplied.

5. Block the handlebar in the horizontal position. Rest your foot on the body of the machine to prevent it from lifting, then push the handle away from you until it snaps into the horizontal position (Fig.3).

CAUTION: do not rest your foot on the main switch.

Operation

PREPARING TO WORK

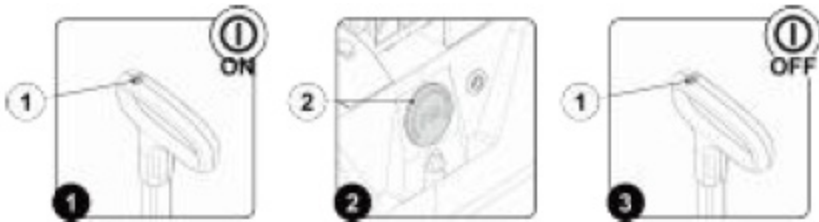
Before beginning work, it is necessary to:

N.B.: before the first work cycle, fully recharge the battery (read RECHARGING THE BATTERY).

1. Make sure the machine, make sure it is in a good, safe working condition. If everything is not in order, the machine must not be used.
2. Rotate the handlebar so it is vertical.

⚠ Caution!

During this operation, do not rest your foot on the machine.



3. Start the machine using the main switch (1) (Fig.1).

N.B.: If the LED of the main switch (2) (Fig.2) is lit up, this means there is electrical continuity.

4. Check the battery charge level. There are four LEDs (2) on the battery to show the charge status (Fig.2). If all the LEDs are on, the battery is fully charged; if they are all blinking, the condition of the battery is low (Fig.2).
5. Lower the machine using the main switch (1) (Fig.3).
6. Check the condition of the squeegee rubbers to see if you want to carry out, if so carry out, if it isn't, perform the necessary maintenance (read MAINTENANCE).
7. Make sure the condition of the brush is suitable for the work you want to carry out. If it isn't, perform the necessary maintenance (read MAINTENANCE).

⚠ Caution!

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



8. Remove the detergent solution filling cap (3) on the solution tank (Fig.4).

9. Add water and an appropriate amount of low-foam detergent and do not exceed the water level line (Fig.5).

10. Fill with clean water, at a temperature no higher than 50°C and no lower than 10°C.

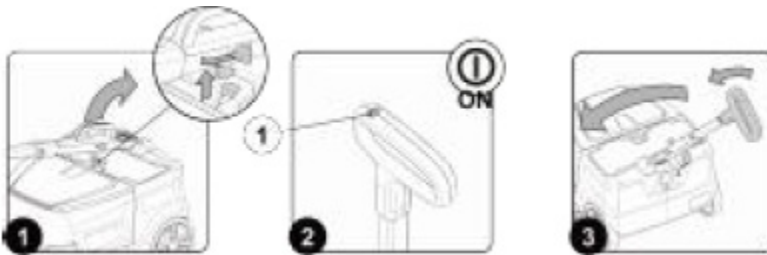
N.B.: The formation of excess foam could damage the vacuum motor, so use only the minimum amount of detergent that is necessary.

N.B.: 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. Acid or alkaline maintenance detergents can be used, as long as they have pH values close to neutral and do not contain oxidizing agents, chlorine or bromine, formaldehyde, mineral solvents.

WORK

Before beginning to work, it is necessary to:

1. Carry out the operations described in the "PREPARING TO WORK" chapter.
2. Release the handlebar from its vertical position and rotate it towards you (Fig.1).



⚠ Caution!

During this operation, do not rest your foot on the machine.

3. Adjust the control handlebar.
4. Start the machine using the main switch (2) (Fig.2).

N.B.: If the LED of the main switch (2) is lit up, this means there is electrical continuity.

N.B.: As soon as the machine starts, the LEDs will light up and both the brush motor and the suction motor will start working.

5. The machine will now begin to work with full efficiency until the battery runs down or until the detergent solution has finished.

N.B.: The joint on the body of the machine provides greater maneuverability. To make a left turn, rotate the handle to the left (Fig.3), rotate it to the right when you want to turn right.

N.B.: If you need to back while you are working, just rotate the machine by 180° by turning the control handle.

N.B.: If the machine needs to be cleaned during use, the brush motor and the electrical pump will stop working. After a few seconds, the suction motor will switch off automatically as well. Both the LED of the main switch and that of the electrical pump control switch will remain ON.

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. Switch off the machine using the main switch (1) (Fig.1).
2. Rotate the handlebar so it is vertical.



⚠ Caution!

During this operation, do not rest your foot on the machine.

3. Take the appliance to the dedicated dirty water drainage area.

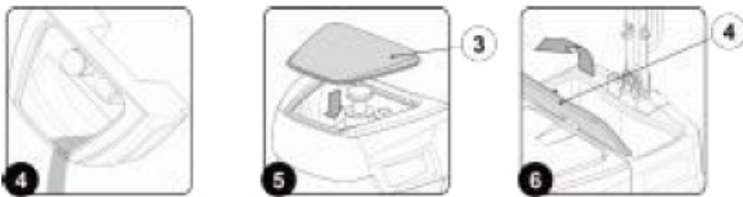
ATTENTION: The place designated for this operation must comply with current environmental protection regulations.

⚠ Caution!

These operations must be carried out using protective gloves to avoid any possible contact with the edges or tips of metal objects.

4. Remove the recovery tank (2) from the machine (Fig.2).
5. Open the lid (3) on the recovery tank (Fig.3).

ATTENTION: protective gloves should always be worn before handling detergents or acidic or alkaline solutions, to avoid serious injury to the hands.



6. Empty the tank (Fig.4).
7. Cover the lid (3) on the recovery tank (Fig.5).
8. Lift the lid of solution tank (4) (Fig.6).
9. Empty the tank (Fig.7).



10. Rinse the inside of the tank with a jet of water.
11. Cover the lid of the solution tank (4) (Fig.8).
12. Block the handlebar in the horizontal position (Fig.9).

⚠ Caution!

During this operation, do not rest your foot on the machine.



13. Take the machine to the designated machine storage place.
14. Position the machine with its rear part in contact with the floor (Fig.11).

⚠ WARNING

Park the machine in an enclosed place, on a flat surface; near the machine there must be no objects that could either damage it, or be damaged through contact with it.

Maintenance

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



1. Switch off the machine using the main switch (1) (Fig.1).

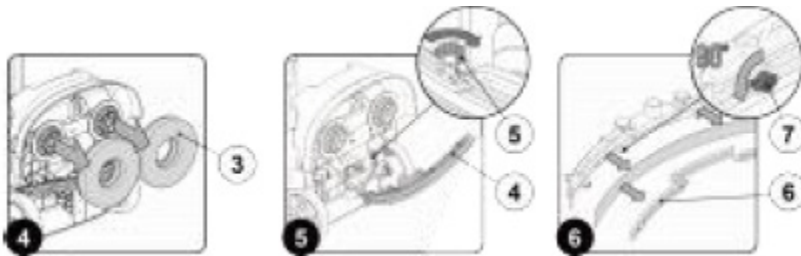
⚠ Caution!

During this operation, do not rest your foot on the machine.

2. Take the machine to the designated maintenance area.

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

3. Remove the recovery tank (2) (Fig.2) and press the arrow (Fig.3) to lift the machine.



4. Remove the brush (3) from the machine (Fig.4).

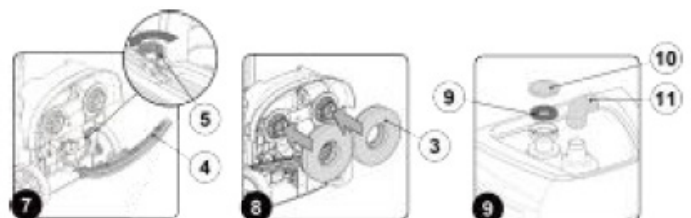
⚠ Caution!

During this operation, keep control handlebar still, in order to prevent the machine from moving accidentally.

5. Clean the brush housing (Fig.5).

6. Unscrew the wing screw (5) and remove the squeegee rubber kit (4) (Fig.5).

7. Rotate the rubber fixing screw (7) 90 degrees to remove the rubber clamp (6) (Fig.6).



8. After cleaning or replacing the rubber, install the machine as it is and tighten the fixing screw (Fig.7).

9. Reinstall the brush (3) into the machine (Fig.8).

CAUTION: protective gloves should always be worn before handling detergents or acidic or alkaline solutions, to avoid serious injury to the hands.

10. Remove the guide elbow (11) and the upper cover of the filter (10) in the recovery tank, and clean the filter cotton (Fig.9).



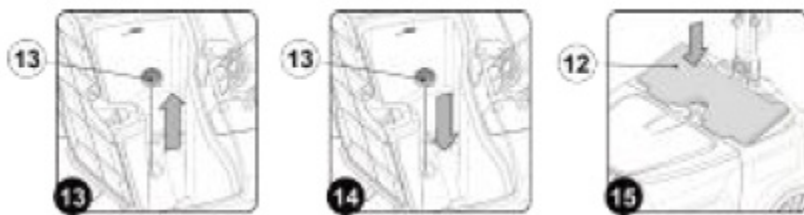
11. Rinse the inside of the tank with a jet of water (Fig.10).

12. Remove the recovery tank and cover the recovery tank cover as it is (Fig.11).

13. Remove the lid (12) from the solution tank (Fig.12).

14. Rinse the inside of the tank with a jet of water (Fig.13).

15. Replace the lid of the solution tank (13) (Fig.13).



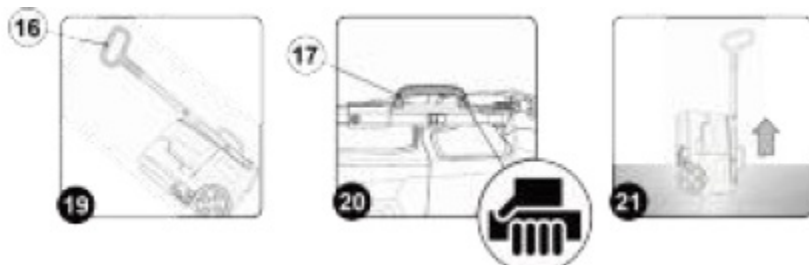
16. After cleaning the water filter (13), reinstall the solution tank (Fig.14).

17. Cover the solution tank cover (12) (Fig.15).



18. Check the air inlet (14) of the machine fan for debris (Fig.16).

19. Water pipe flushing machine suction mouth (15) (Fig.16).



20. Reset the recovery tank (2) on the base of the machine (Fig.17).
21. Rotate the handlebar in the horizontal position (Fig.18).
22. Put the handle (16) to drag the machine (Fig.19).

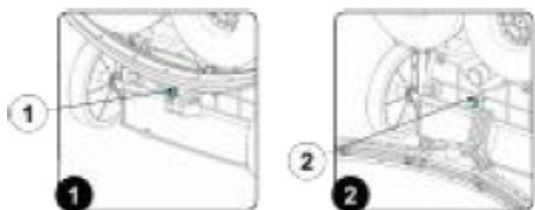
CAUTION: During this operation, do not rest your foot on the machine.

23. Take the machine to the designated machine storage location (Fig.21).

WARNING: Park the machine in an enclosed place, on a flat surface; near the machine there must be no objects that could either damage it, or be damaged through contact with it.

SQUEEGEE RUBBER KIT ADJUSTMENT

1. If the rubber skin is too close to the ground, you need to raise your head. First loosen the locking nut (1), then raise the limit nut (2), and finally tighten the locking nut (1).



2. Conversely, if the rubber is not fit enough, then loosen the locking nut (1) first, then lower the limit nut (2), and finally tighten the locking nut (1).

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 authorized service centre.

PROBLEM	POSSIBLE CAUSE	SOLUTION
THE MACHINE DOES NOT START	The main switch is OFF.	Press the main switch.
	Check that the battery is correctly inserted in the machine.	Insert the battery correctly in the machine.
	Check the battery charge level, view the LED on the rear of the machine.	If the battery charge level is critical, perform a complete recharge cycle.
THE BATTERY HAS NOT BEEN CHARGED CORRECTLY	The power supply cable plug is not correctly inserted in the battery charger base socket.	Check that the plug on the battery charger power cable is connected to the socket on the battery charger base.
	The power supply cable plug is not correctly inserted in the mains socket.	Check that the battery charger power supply cable plug is connected to the mains socket.
	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 LED on the battery charger base flashes repeatedly.	Referring to the battery charger use and maintenance manual, check the meaning of the flashing signals that the battery charger emits during the battery recharge stage.

THE MACHINE HAS A VERY LOW WORK AUTONOMY	Check the battery level and check that the voltage on the power display is not less than 23V.	If the battery charge level is critical, perform a complete recharge cycle.
NOT ENOUGH DETERGENT SOLUTION ON THE BRUSH	The quantity of detergent solution in the water system is not sufficient for the work to be carried out.	Fill the solution tank with detergent.
	Detergent solution filter obstructed.	Remove the obstructions from the detergent solution filter (read "MAINTENANCE").
THE MACHINE DOES NOT CLEAN CORRECTLY	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 brush is not correctly inserted in the machine.	Insert the brush correctly in the machine.
	The brush bristles are subject to excessive wear	Check the condition of the brush, and replace it if necessary (read "MAINTENANCE").
THE SQUEEGEE DOES NOT DRY PERFECTLY	The vacuum device is obstructed	Remove the obstructions from the squeegee body (read "MAINTENANCE").
		Remove the obstructions from the vacuum duct (read "MAINTENANCE").
		Remove the obstructions from the recovery tank cover (read "MAINTENANCE").
EXCESSIVE FOAM PRODUCTION	The detergent being used is not suitable.	Check that a low foam detergent has been used.
	The floor is not very dirty.	Dilute even more the detergent inside the solution tank.
THE DEVICE DOES NOT VACUUM CORRECTLY	The recovery tank is full	Empty the recovery tank (read the chapter "AT THE END OF THE WORK").
	The vacuum device is obstructed	Read the section "THE SQUEEGEE DOES NOT DRY PERFECTLY".

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