

MANUAL USE AND MAINTENANCE
MANUEL EMPLOI ET ENTRETIEN
MANUAL USO Y MANTENIMIENTO

SPARE PARTS CATALOGUE
CATALOGUE DE PIECES DETACHEES
CATALOGO PIEZAS DE REPUESTO



GENIE *APS B*

ED. 09-2007

EN
FR
ES

Doc. 10009400



The contained descriptions in the present publication are not binding. The company therefore reserves itself the right to bring in whatever moment possible organs changes, details or supplies of accessories, that it holds convenient for an improvement, or for any demand of constructive or commercial character.

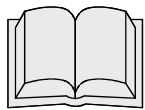
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The company reserves itself the right to bring changes of technical character and/or of endowment. The images are meant of pure reference and not binding in terms of design and endowment.

Symbols used in the manual



Symbol of the book open with letter i
It points out that this document is a manual of instructions.



Symbol of the open book
It points out to the operator to read the manual of use before using the machine.



Symbol of warning
Read attentively the sections preceded by this symbol for the safety of the operator and the machine



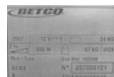
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Receiving the machine

Immediately check, when receiving the machine, that all the materials indicated on delivery documents have been received and also that the machine has not been damaged in transit. If it has been damaged, this damage must be immediately reported to the shipper and also to our customer's service department. Only acting promptly in this manner will make it possible to receive missing material and to be compensated for damage.

Identification plate



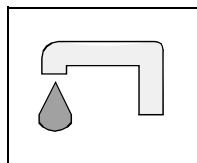
Foreword

This is a floor scrubbing machine that is able to clean any type of floor by using the mechanical action of the rotating brush and the chemical action of the water-detergent solution. As it moves forward it also gathers up the dirt removed and the detergent solution that has not been absorbed by the floor. **The machine must only be used for this function.** Even the best machines will only operate efficiently and work with profit if they are used properly and kept in perfect operating order. Read this instruction booklet carefully and consult it every time problems arise with machine operation. Remember that, if necessary, our service organization, in collaboration with our dealers, is always available for helpful hints or direct intervention.

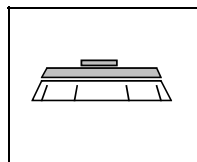


TECHNICAL DESCRIPTION	UM	GENIE APS B
Rated power	W	500
Working width	mm	350
Rear squeegee width	mm	440
Work capacity	m ² /h	1050
Water consumption	g/m ²	-
Brushes (diameter or length)	Ø mm	350
Brush revolutions	RPM	140
Pressure on the brushes	Kg	20
Brush motor	V / W	12 / 250
Drive type		semi-aut.
Maximum slope		2%
Suction motor	V / W	12 / 250
Suction unit vacuum	mbar	-
Solution tank PE	l	10
Recovery tank PE	l	10
Weight of complete machine (included batteries)	Kg	67
Battery	V / Ah	12 / 65
Battery charger	V/A	12/6
Battery compartment dimensions (Length/Height/Depth)	mm / mm / mm	277 / 224 / 172
Machine encumbrance (Length/Height/Depth)	mm / mm / mm	682 / 1018 / 440
Length of folded machine (without recovery tank)	mm	795
Height of folded machine (without recovery tank)	mm	440
Sound pressure level (in compliance with IEC 704/1)	dB (A)	69,28
Vibration level	m/s ²	1,79

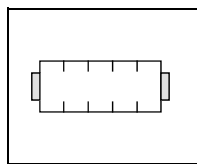
SYMBOLS USED ON THE MACHINE



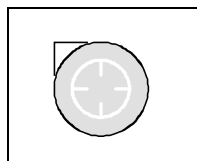
Cock symbol
Used to indicate the solenoid valve switch



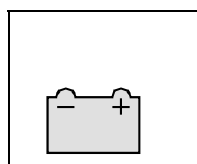
Brush symbol
Used to indicate the brush motor switch



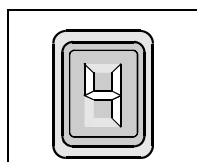
Brush symbol (SWEEPING VERSION)
Used to indicate the brush motor switch



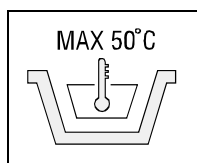
Suction motor symbol
Used to indicate the suction motor switch



Battery symbol



Battery charge gauge



Maximum detergent solution temperature gauge
Located near the solution tank refill spout

GENERAL SAFETY REGULATIONS

Follow these regulations carefully to avoid harm to the operator and damage to the machine.

- ☐ Read the labels on the machine with attention. Never cover them for any reason and always immediately replace them if they are damaged.
- ☐ The machine must be used exclusively by authorized and trained personnel.
- ☐ When operating the machine be careful of other persons and of children in particular.
- ☐ The machine is not suitable for cleaning carpets.
- ☐ The power cable outlet must be provided with a proper ground.
- ☐ Avoid damaging the power cable or the battery charger by crushing, bending or stressing it.
- ☐ Whenever the power cable of the battery charger is damaged, immediately apply to **BETCO** service center.
- ☐ Never mix different types of detergents: this could generate noxious gases.
- ☐ Not use containers of liquid on the machine.
- ☐ Machine storage temperature must be between -25°C and $+55^{\circ}\text{C}$, never store to the outside under humidity conditions.
- ☐ Operating conditions: room temperature between 0°C and 40°C with relative humidity between 30 and 95%.
- ☐ Never use the machine in an explosive environment.
- ☐ Never use the machine to transport goods.
- ☐ Never use acid solutions which could damage the machine.
- ☐ Avoid running the brushes with the machine stopped: this could damage the floor.
- ☐ Never suck flammable liquids.
- ☐ Never use the appliance to gather dangerous powders.
- ☐ Use a powder fire extinguisher in case of fire. Do not use water.
- ☐ Do not hit against shelving or scaffolding when there is a danger of falling objects.
- ☐ Do not use the appliance on surfaces with a slope higher than the one indicated on the name-plate.
- ☐ The machine must perform washing and drying operations simultaneously. Any other operations must be done in zones where the presence of unauthorized persons is prohibited. Signal wet floors with suitable signs.
- ☐ Whenever the machine has operating troubles make sure that these are not due to insufficient ordinary. If this is not the case then enquire with your **BETCO** service center.
- ☐ When replacing parts ask for ORIGINAL spare parts from your Authorized **BETCO** Dealer and/or Retailer.
- ☐ Always switch off the machine and disconnect the battery connector whenever maintenance is performed.
- ☐ Never remove guards that require tools for removal.
- ☐ Never wash the machine with direct or pressurized jets of water or with corrosive substances.
- ☐ Have your **BETCO** service center check the machine every year.
- ☐ Avoid clogging the solution tank filter: do not fill with detergent solution a long time before starting to use the machine.
- ☐ Before using the machine make sure that all doors and covers are positioned as shown in this operating and maintenance manual.
- ☐ Dispose of consumables in accordance with existing laws and codes.
- ☐ When, after years of precious work, your **BETCO** machine is ready to be retired its entire component materials must be properly disposed of: they contain oils and electronic components. Remember that the machine itself was built using totally recyclable materials.
- ☐ Use only brushes furnished with the machine or those specified in the user's manual (page 19). Use other brushes can compromise the safety.
- ☐ When removing the battery, the machine must be disconnected from the power mains.
- ☐ Before recycle the machine, remove the battery.
- ☐ The battery and the battery charger must be eliminated in accordance with existing laws and codes.
- ☐ The machine is not intended for use by children and persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- ☐ Children should be supervised to ensure that they do not play with the appliance.

PREPARING THE MACHINE

1. HANDLING THE PACKAGED MACHINE

The machine is contained in specific packing.

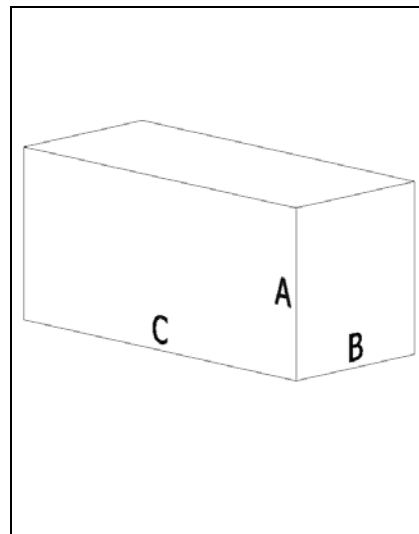
Each pallet contains four machines placed on two levels.

More than two packings cannot be stacked.

Total weight is 70 kg.

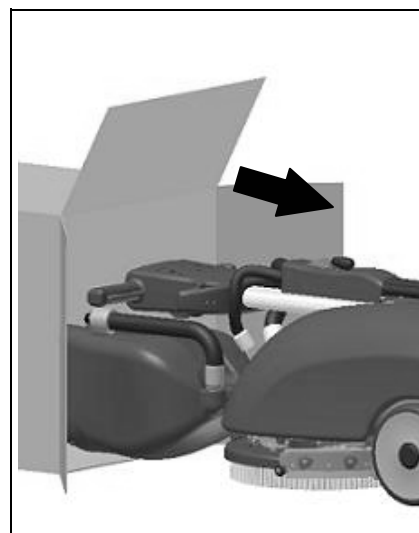
Overall dimensions are:

- A :** 500mm
- B :** 500mm
- C :** 1150mm



2. HOW TO UNPACK THE MACHINE

1. Open the packing on the side indicated
2. Remove the machine from the packing
3. Pull out the recovery tank



3. BATTERY INSTALLATION/CONNECTION

The machine is supplied with battery charger and sealed gel batteries. In case of using different batteries from those supplied with the machine, use only batteries 12V AGM or Gel and proceed as follows:

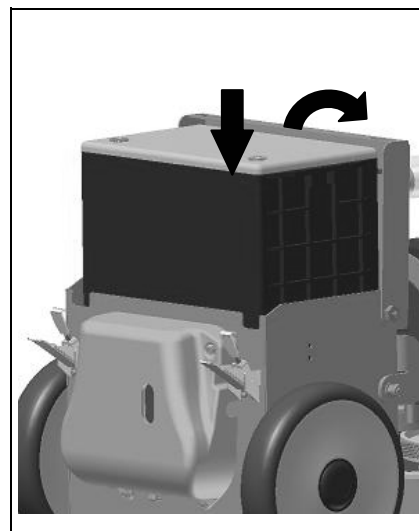
The batteries must be housed in the battery compartment located under the solution tank.

To install the batteries you must:

1. Remove the solution tank
2. Open the two rear hinges that close the battery compartment
3. Rotate the handlebar by lifting the handlebar control lever (see: "FASTENING THE HANDLEBAR")
4. Place the battery in the compartment
5. Connect the cables



ATTENTION: We recommend using exclusively sealed batteries to avoid acid spillage.



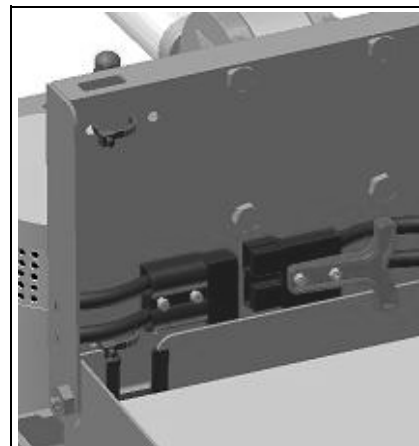
PREPARING THE MACHINE

4. CONNECTOR CONNECTION

6. Connect the battery connector to the machine connector
7. Re-assemble everything



ATTENTION: This procedure must be done by qualified personnel. Mistaken or imperfect connection of cables to the connector can cause severe damage to persons and property.



5. RECHARGING THE BATTERIES

Carry out a battery charge cycle before using the machine.

In case of battery's replacing, verify to use proper batteries for the type of battery charger installed (use only batteries 12V AGM or Gel).

After switch off the machine, insert the thorn of the battery charger into the plug.

Follow the instructions in the attached booklet in order to properly use the battery charger.

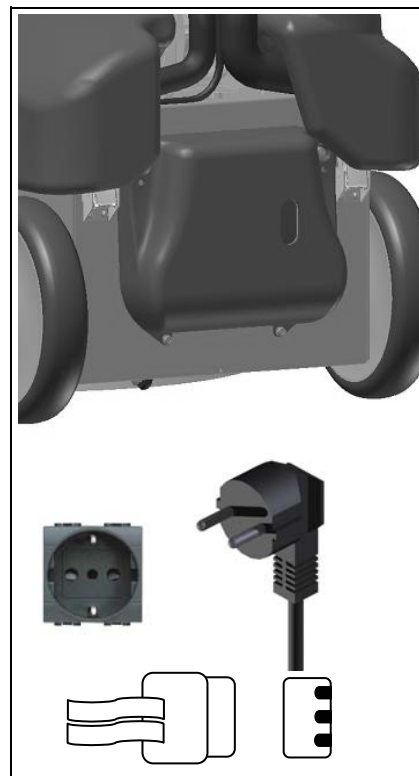


ATTENTION: The machine is predisposed with an automatic system that removes the tension from the electric plant when it's in phase of recharge the batteries.

ATTENTION: Avoid totally discharging the batteries: this can cause damage to them. Recharge within just a few minutes after the battery discharged signal lamp starts to flash.

ATTENTION: Never leave the batteries completely discharged, not even if the machine is not being used.

ATTENTION: Carefully keep to the instructions provided by the manufacturer or its retailer when performing daily battery recharge. All installation and maintenance procedures must be done by expert personnel. Danger of gas fumes and leakage of corrosive fluids. Danger of fire: do not approach with open flames.



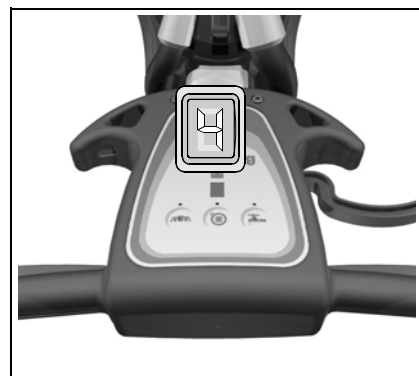
6. BATTERY CHARGE LEVEL GAUGE

The battery charge level gauge is a digital unit with 4 fixed and one flashing position. The numbers on the display give an approximate idea of the level of charge.

4 = maximum charge, **3** = charge 3/4, **2** = charge 2/4, **1** = charge 1/4, **0** = batteries discharged (flashing)



ATTENTION: The brush motor automatically turns off a few seconds after the flashing "0" appears. The remaining charge permits to finish drying before carrying out recharge.

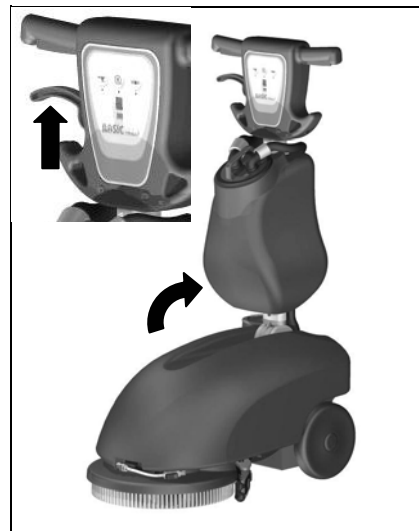


PREPARING THE MACHINE

7. FASTENING THE HANDLEBAR

For packing purposes the handlebar is supplied folded and must be put into its working position. Proceed as follows to do this:

1. Lift the handlebar, pulling up the lever indicated by the arrow
2. Position the machine in its working position
3. Mount the recovery tank on the handlebar tube using the two hooks
4. Insert the tubes into the fittings that exit from the ring of the recovery tank

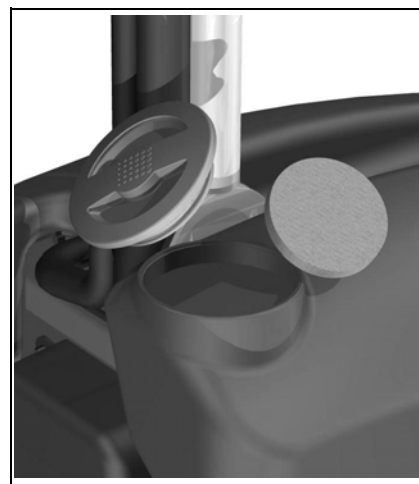


8. DETERGENT SOLUTION

Fill the solution tank with clean water at a temperature that does not exceed 50°C. Add liquid detergent in the concentration and according to the procedures recommended by the manufacturer. Use only a minimal percentage of detergent to prevent formation of an excess amount of foam since too much foam may damage the suction motor.



ATTENTION: Always use low-foam detergent. Introduce a small amount of anti-foam detergent in the recovery tank before starting to work to be sure to prevent foam from being generated. Never use pure acids.



9. RECOVERY TANK

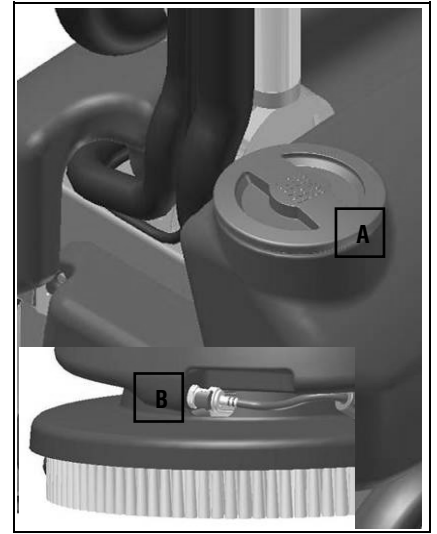
Make sure that the recovery tank is properly inserted in its housing and that the tubes are properly inserted in the tank elbows. Check that the plug is properly closed.



PREPARING THE MACHINE

10. SOLUTION TANK

Check that the plug is properly inserted in its seat (A).
Check that the valve is properly engaged (B).



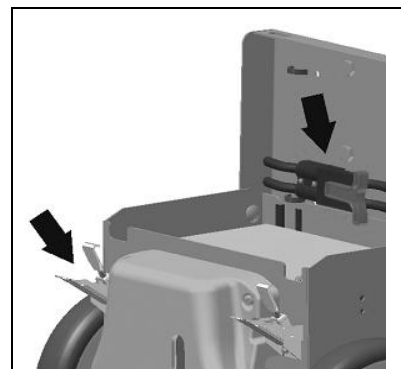
OPERATION

1. PREPARING TO WORK

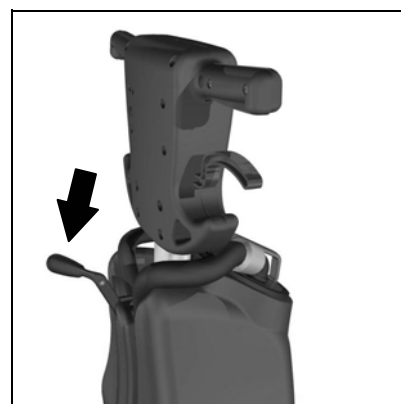
The followings procedures must be done before installing the tanks:

1. Open the two rear hinges on the battery compartment
2. Connect the connector to the batteries
3. Close the battery compartment

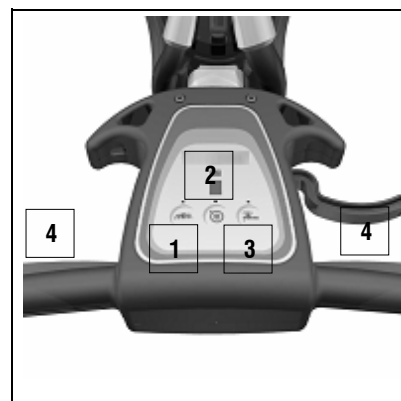
Now install the tanks



4. Prepare the machine for operation
5. Lower the squeegee control lever and start to work



6. Press the main switch (1) and check that the green signal lamp is on
 7. Press the aspiration switch (2)
 8. Press the solenoid valve switch (3)
- At this point the machine can work efficiently, using the operating lever that operates the brushes (4), until the detergent solution is finished.



2. OVERFLOW DEVICE

The machine has a ball filter that trips when the recovery tank is full, closing the suction tube. At this point you must empty the recovery tank.



ATTENTION: Always wear gloves when doing this operation to protect yourself from contact with hazardous solutions.



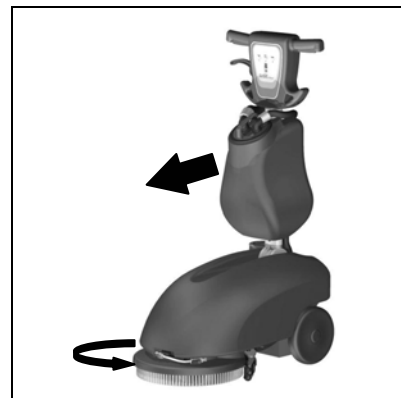
OPERATION

3. FORWARD MOVEMENT

Forward movement by these machines is done using the brush. When the brush is slightly inclined it pulls the machine forward.



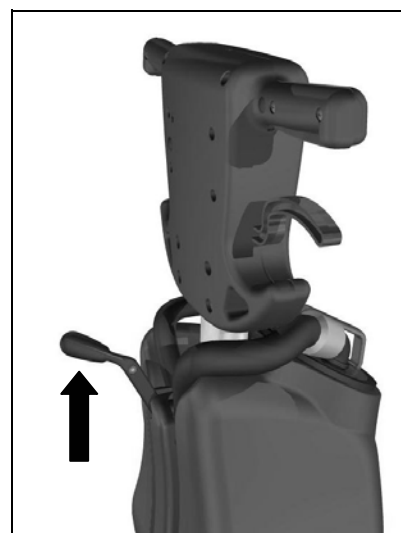
ATTENTION: Always make sure that squeegee is lifted when moving backwards, even for short distances.



AFTER WORK IS TERMINATED

Proceed as follows at the end of the work cycle and before you perform any type of maintenance:

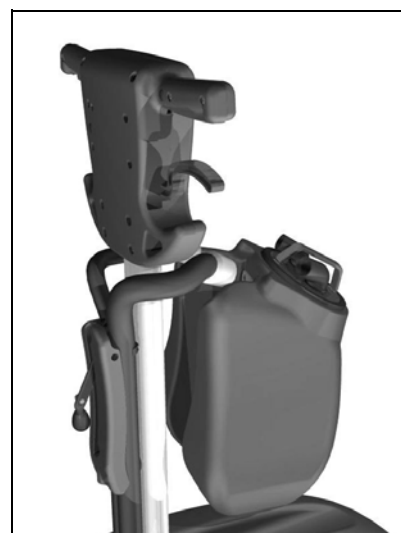
1. Turn off the solenoid valve switch (3)
2. Lift the squeegee
3. Turn off the aspiration switch (2)
4. Turn off the brush/main switch (1)



5. Move the machine to where water is to be drained
6. Remove the drain plug and empty the tank
7. Dismantle the brush and clean it with a jet of water (see "DISMANTLING THE BRUSH" below in order to dismantle the brush)



ATTENTION: Always wear gloves when doing this operation to protect yourself from contact with hazardous solutions



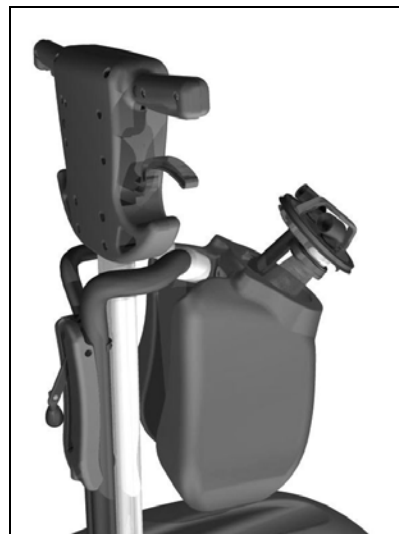
DAILY MAINTENANCE

1. CLEANING THE RECOVERY TANK

1. Grasp the tube at the rear of the machine
2. Remove the bayonet plug to open the tank
3. Clean the filter under running water
4. Rinse out the tank and clean with a jet of water



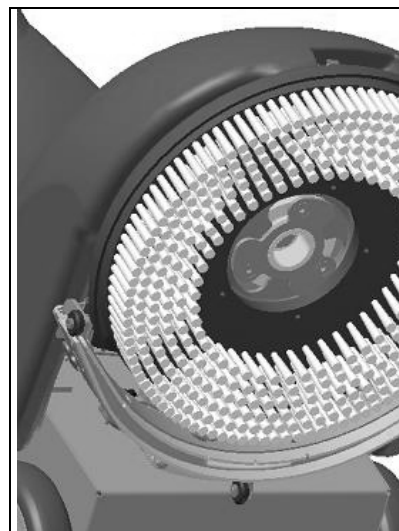
ATTENTION: Always wear gloves when doing this operation to protect yourself from contact with hazardous solutions



2. CLEANING THE SQUEEGEE

Check that the squeegee rubbers are always clean. This ensures optimum drying.
To clean them:

1. Lift the machine
2. Carefully clean the inside
3. Carefully clean the rubbers

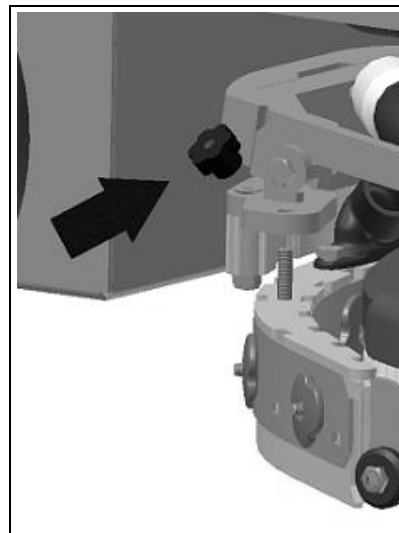


DAILY MAINTENANCE

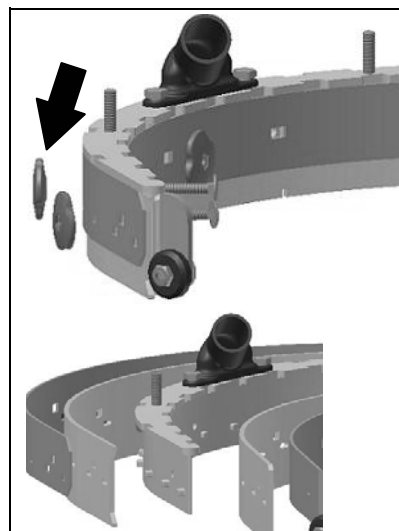
3. REPLACING THE SQUEEGEE RUBBERS

Check the condition of the squeegee rubbers. Replace as necessary. To replace the rubbers:

1. Lift the squeegee
2. Remove the two knobs
3. Detach the squeegee from the support
4. Remove the tube from the squeegee opening to permit the squeegee be removed



5. Unscrew the squeegee knobs that clamp the blades and pull them out
6. Remove the blades
7. Replace the rubbers
8. Reinstall everything by performing these procedures in reverse

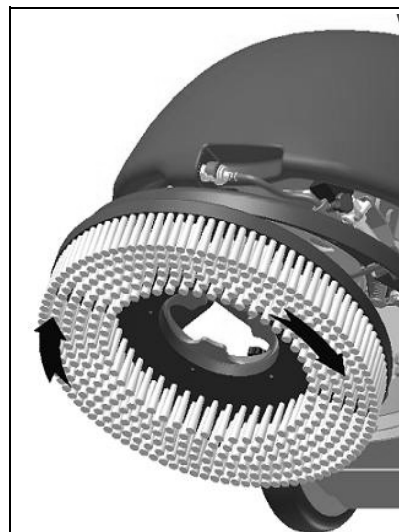


4. BRUSHES DISASSEMBLY

1. Lift the squeegee
2. Lift the machine by pressing down on the handlebar
3. When the base is lifted jog the brush control. The brush releases automatically



ATTENTION: Make sure there are no objects or persons in the vicinity of the brush when doing this operation



SCHEDULED MAINTENANCE

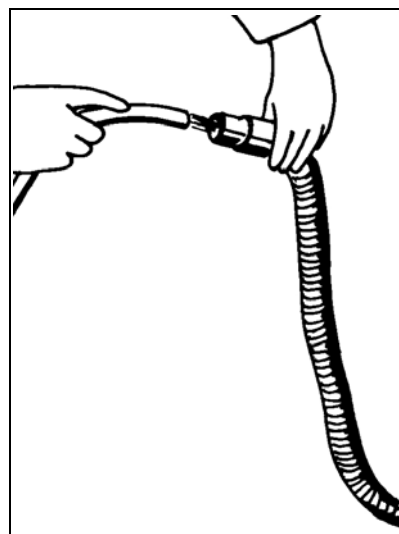
1. CLEANING THE SQUEEGEE TUBE

Check the squeegee tube for clogging if the suction is insufficient or at periodic intervals. To clean the tube proceed as follows:

1. remove the tube from the sleeve on the squeegee
2. Remove the other end from the recovery tank
3. Wash the inside of the tube with a jet of water, spraying from the end where the tank is inserted
4. Reinstall the tube



ATTENTION: Do not wash the tube that goes from the suction unit to the suction plug



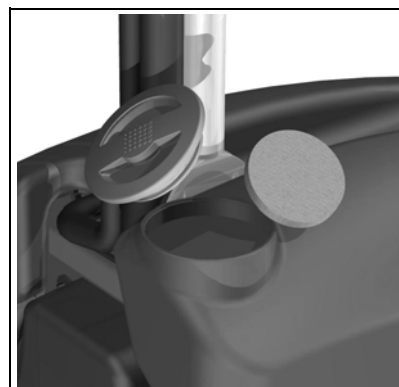
2. CLEANING THE FILTER AND THE SOLUTION TANK

1. Unscrew the plug on the suction tank
2. Remove and clean the filter
3. Reinstall the filter and the plug



ATTENTION: Always wear gloves when doing this operation to protect yourself from contact with hazardous solutions

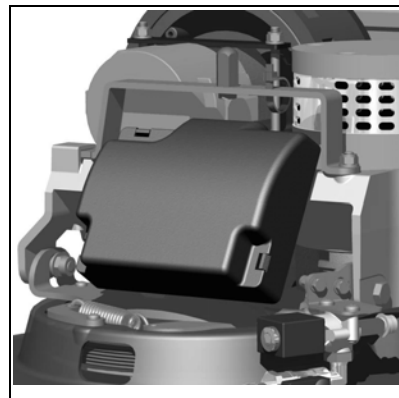
ATTENTION: Disconnect the rapid graft before removing the reservoir solution (see image page 18).



CHECKING OPERATION

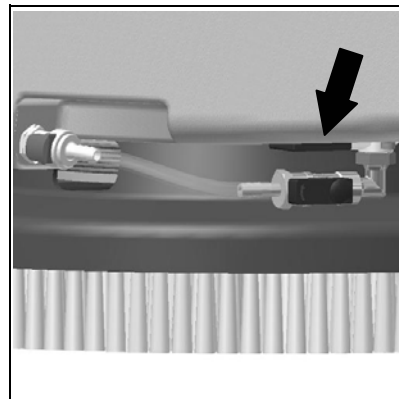
1. ELECTRIC SYSTEM SAFETY

The machine has two amperometric safety switches installed in the electric system (below the solution tank). These cut off power to the brush motor and to the suction motor when a preset load is exceeded. The restoration of the motors happens in automatic after switch off the machine and wait around 40 seconds for the cooling of the protection inserted in the electric card. In case in which the machine blocks itself several times, it is necessary to apply to a **BETCO** service center.



2. INSUFFICIENT WATER ON THE BRUSHES

1. Check that the solution tank is clean
2. Check that the solenoid valve switch is turned on
3. Check the quick fitting connection is properly engages
4. Check the adjustment screw on the cock that supplies water

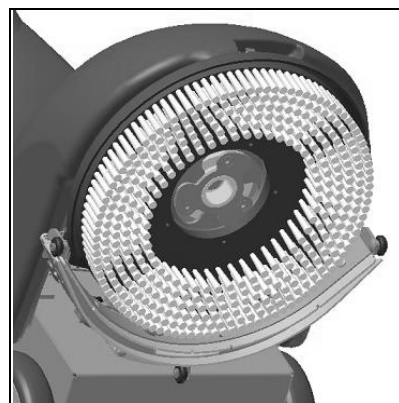


3. THE MACHINE DOES NOT CLEAN WELL

1. Check the condition of the brushes. Replace them as required. Brushes must be replaced when bristles are about 15mm high

4. THE SQUEEGEE DOES NOT DRY THE FLOOR PERFECTLY

1. Check that the squeegee rubbers are clean
2. Check that the suction tubes are properly inserted in their seats on the squeegee
3. Check that the distributor is clean
4. Replace the rubbers if they are worn



5. TOO MUCH FOAM IS GENERATED

Check that low-foam detergent is being used. If necessary add a small amount of foam-retardant liquid to the recovery tank.

Remember that more foam is generated when the floors is not very dirty. Dilute the detergent more when cleaning floors that are not very dirty.

BRUSH SELECTION AND USE

POLYPROPYLENE BRUSHES (PPL)

These are used on all types of floors and offer goods resistance to wear and to hot water (not more than 60°C). PPL is not hygroscopic and consequently preserves its characteristics even when wet.

DRIVE DISKS

Drive disks are recommended for cleaning polished surfaces.

There are two types of drive disk: type CENTER LOCK which has a plastic snap-in center lock system, that permits perfect centering of the abrasive disk and ensures it is kept anchored without detaching:

1. with sets of anchor stubs that retain and drive the abrasive disk during operation.
2. with sets of bristles locks that retain and drive the abrasive disk during operation.

BRUCH SELECTION TABLE

Machine	N°of Brushes	Code	Type of Bristle	Ø Bristle	Ø Brush	Notes
GENIE APS	1	421701	PPL	0.6	355	
		422213	Drive disk - anchor		355	
		422001	Drive disk – bristle	0.9	355	

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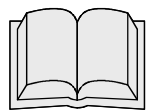
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Simbole dans le manuel



Symbole du livre ouvert avec la i
Il indique que ce document est un manuel d'instructions



Symbole du livre ouvert
Il indique à l'opérateur de lire le manuel avant d'utiliser la machine



Symbole d'avertissement
Lire attentivement les sections précédées de ce symbole pour la sécurité de l'opérateur et de la machine.
