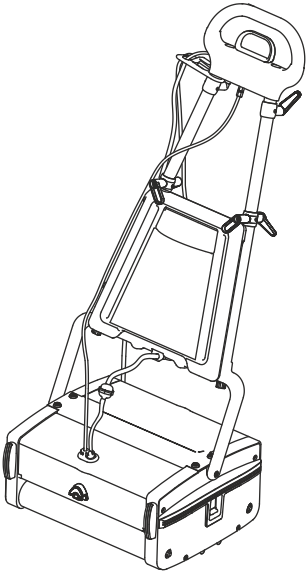


Wizzard Series

Mini Floor Scrubber



Instruction Manual

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Please be advised explicitly that we cannot accept any legal claims out of the contents of this manual. If repair work has to be performed, make sure that only genuine spare parts are used since genuine spare parts only may guarantee continuous and dependable operation of your machine.

Roots Multiclean Ltd.
RKG Industrial Estate,
Coimbatore - 641 006, India.

For 24,34 & 44 machines.



Natural



Tank



Pump

TECHNICAL SPECIFICATION



Technical data	Units	24N	24T	24P	34N	34T	34P	44P
Scrubbing width	mm	215	215	215	315	315	315	420
Theoretical area coverage	m ² /h	250	250	250	350	350	350	450
Power Supply	V / Hz	230/50	230/50	230/50	230/50	230/50	230/50	230/50
Total Power	W	400	400	400	600	600	600	1000
Brush Speed	rpm	650	650	650	650	650	650	650
Fresh water tank	L	1.2	1.2+3	3	1.7	1.7+4	4	4
Dirty water tank	L	1.2	1.2	1.2	1.7	1.7	1.7	2.2
Dimensions (L x B x H)	mm	378 X 340 X 1118	378 X 340 X 1118	378 X 340 X 1118	378 X 440 X 1114	378 X 440 X 1114	378 X 440 X 1114	378 X 540 X 1118
Weight	kg	20	20.5	20.5	23.5	24	25	29.5

TECHNICAL SPECIFICATION



The machine also available in different power supply.
Such as 220 & 110 Volts.

Model	Power Supply	Total Power	Brush Speed
24N/24T	220/60	1050	780
34N/34T	220/60	1050	780
34P	220/60	1050	780
	110/50	750	650
	110/60	750	780
44P	220/60	1200	780
	110/50	850	650
	110/60	850	780

Preface

Dear Customer,

Thank you for choosing to become the proud owner of **WIZZARD**. Having been in the market for close to three decades now, we are sure that you will be happy about your decision. We also assure you that our services and attention will always be available, should you need them!

Before the first operation of your machine, please read these instructions carefully. This manual will provide you with detailed instructions on the operation of the product and also give you valuable information on operation, service and maintenance.

Proper Use / Product Information

Use of the product beyond the specified range is deemed improper and the manufacturer cannot be held liable for consequential damages.

The terms of proper use also includes compliance with the manufacturer's instructions on the operation, maintenance and repair of the product.

This machine may be used, serviced and repaired only by persons who are familiar with the machine and are aware of possible hazards involved. The appropriate Accident Prevention Regulations as well as applicable general regulations about safety and health at work must be complied with.

Modifications made to machine in the absence of the manufacturer's consent will relieve the manufacturer from possible liability for consequential damage.

Notes on Warranty





Refer Limited Warranty card supplied along with the machine.

Acceptance of the machine

As soon as the machine arrives, Please check for any transport damage. In the event of any damage, it is the purchaser's responsibility to send a claim letter to the particular RMCL Branch / Dealer with a copy of invoice. The letter should be sent within 24 hours after the goods were delivered.

Safety & Warning Symbols

All paragraphs in this manual referring to you personal safety, the safety of your machine and the environment protection are attributed one of the following warning symbols.

Symbol (Hazardous for)	Description
Safety Provisions (persons and goods) 	Safety provisions in dangerous situation caused by misuse inaccurate adherence of instruction or prescribed work routine.
Caution (the machine) 	Important information on handling the machine in order to maintain operability.
Ecological hazard (the environment) 	Due to use of substances representing an inherent danger to health of environment.
Read Manual 	Prior to first operation, read the manual carefully and strictly comply with the instructions contained.

General Guidelines

- This machine is for **WET** scrubbing only.
- Apart from information contained in this manual, generally applicable legal provisions for safety and prevention of accidents must be adhered to.
- Do not put this manual aside without having read it, even if you have already operated similar floor cleaning equipment before.
- Allow yourself the time to do so in order to save time at a later time.
- The operator is responsible for all persons in the working area.
- Children must be kept away from the machine during operation.
- No person must be allowed to stay in the zone of danger.
- The warning and instruction plates attached to machine give important advice on safe operation.
- Replace lost or illegible stickers.
- Before starting to work, the operator has to check that the machine and its working implements are in proper and safe operating condition.
- Machines with known defects must not be used.
- It is important for operators and all persons likely to use the product, to familiarize themselves with all accessories and controls, as well as their functions, before starting operations.

- Abiding by the above general instructions can help you avoid having to read this book while trying to run the machine.
- This machine must only be used for the manufacturer's approved application as described in this manual.
- The machine must be kept clean and in good condition, if any parts are damaged they shall only be replaced by an approved part by the manufacturer, its service agent or a similar qualified person in order to avoid a hazard.
- Only genuine accessories and spare parts provided with the machine or those approved by the manufacturer should be used. All repairs must be performed by a qualified service agent.



Use only genuine spare brushes as specified by the manufacturer. Use of other than the indicated brush types may affect safety.



Never collect explosive fluids, undiluted acids and solvents. This includes e.g. gasoline paint thinners or fuel oil, which-when combined with air, may form explosive vapors or mixtures. Acetone, undiluted acids and solvents can be aggressive to the material used for the machine components.



- Do not clean the machine by means of vapour jet or high pressure cleaning equipment.
- Do not USE the machine on steps.

Safety during machine operation

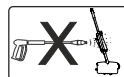
- Floor cleaning machines may be run by qualified personnel only.
- The machine may be used for cleaning such surfaces approved by the owner or this authorized representative.
- The operator must use the machine in accordance to its intended fields of application.
- The machine must be unpacked and assembled in accordance with these instructions before connecting to the electrical supply.
- During operation, the operator must take account of local conditions (stairs, obstacles) and of other persons, particularly children.
- This machine is for dry indoor use only and should not be used or stored outdoors in wet conditions.
- Take care when using a machine near the top of stairs to avoid over balancing.
- Keep hair, loose clothing, hands, feet and all other parts of the body away from openings and moving parts.

- This machine should always be connected to a fully earth power supply of the right voltage and frequency.
- When working on the electrical system, always disconnect the cable.
- Keep the power supply cord away from moving parts. During operation, hazard may occur when running machine over the power cord.
- It is not permitted to use aggressive and corrosive cleaning agents.
- DO NOT run the machine dry, as this could damage the floor surface or the machine itself.
- Take adequate care to hold the machine firmly while installing and removing the brush.
- Never use excessive foaming or highly corrosive cleaning solutions.
- While operating on a flooded floor, always ensure that the water level does not exceed **1 mm**.
- DO NOT operate this machine on rough uneven surface like industrial concrete floor.
- Ensure all parts are fitted properly before operation.



The machine may be used only on indoor hard floorings and for operation on level grounds with a maximum inclination of up to 2%.

- Use of the machine in areas prone to explosion hazards is strictly forbidden.



Do not clean the machine by means of vapour jet or high pressure cleaning equipment.



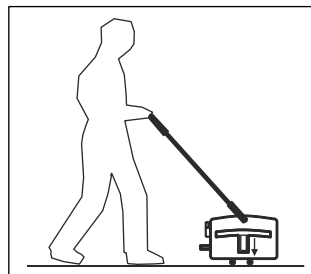
Do not direct water or other liquids into the electrical control unit of your machine, risk of damaging the equipment or short circuit.

Transport

Incorrect lifting techniques may result in personal injury. We advise that the manual handling regulations are followed. Carefully wrap the charger supply cord and store in dry indoor location. Do not expose the machine to rain or moisture.



Before moving the machine select the **Transport** mode.



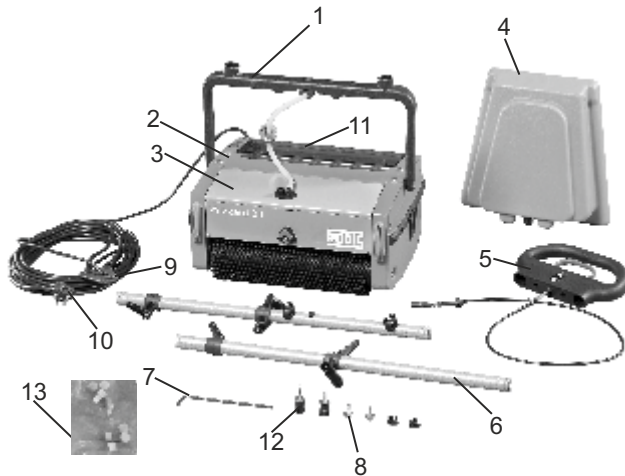
Slide the knob to **BOTTOM** position to move the machine from one place to other place and to park the machine.

FIRST OPERATION



It is an ideal machine to clean hard floors in small and medium areas like offices, hospitals, restaurants, shopping complexes and in many commercial applications. It dispenses / sprays plain water / detergent solution, scrubs and picks up the dirt water - all in a single pass. It has different optional brushes to suit a variety of applications. This machine can be used (only) on smooth even floors like Mosaic, natural stone floors, PVC, smooth concrete, cut-pile carpet, wood and profiled rubber.

Unpacking & Handling



1. Bottom handle
2. Machine body
3. Pump Housing (P) /
Fresh water tank(N/T)
4. Auxillary Tank (T/P)
5. Top handle & pull cable
6. Handle LH & RH
7. Allen key
8. Screws & washers
9. Cable retainer
10. Power cord
11. Dirty water tank
12. Knob
13. Brush buttons

- To save packing space and to ensure the safety of the machine during transporting, the WIZZARD comes to you with its handle dismantled. Ensure that the listed parts are present as shown and identify them in order to understand the assembly instructions.
- Remove the rubber band which holds the bottom handle with the machine body while holding the bottom handle.



Since the bottom handle is spring loaded, the casual removal of the rubber band may result in sudden spring back leading to possible injury to personnel.

FIRST OPERATION



Identification of Main Parts

Note: 24 / 34 / 44 refers to the machine width in cm. Refer the given table for your model.

Model	Figure
N - Natural model	a,d,e,f
T - Tank model	b,d,f
P - Pump model	c,e,g



Fig. d



Fig. e

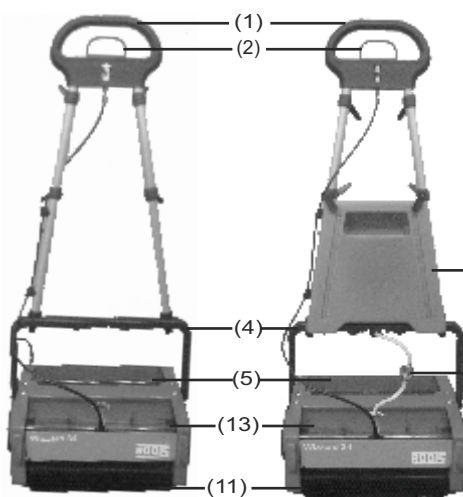


Fig. a

Fig. b

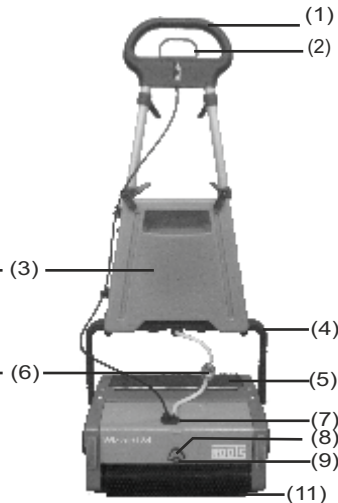


Fig. c

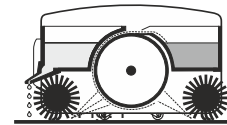


Fig. f

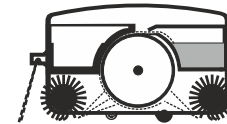


Fig. g

- (1) Top handle
- (2) Liquid discharge control handle
- (3) Tank
- (4) Bottom handle
- (5) Dirty water tank
- (6) Filter
- (7)? Lid cap
- (8) Boot
- (9) Nozzle
- (10) Conveyor drum
- (11) Brush
- (12) Pedal
- (13) Fresh water tank
- (14) Strainer

Optional accessories

1. Transporter

The simply fitted trolley provides for ease of movement when transporting the machine.



Empty all liquid from the machine before using the transporter.

Installing the Transporter

- With the machine handle in the upright position place the transporter centrally alongside the machine.
- By holding the machine firmly, strap the velcro with the machine to fix the transporter.
- Ensure that the velcro strap properly wrapped around the bottom handle.
- Now the transporter is ready to use. The machine can then be maneuvered easily whilst holding the top handle.

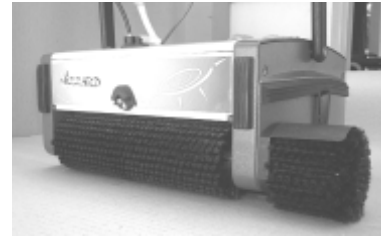


2. Side Brush

To wash the edges, the side brush shall be used. Switch off and unplug the machine before fitting the side brush.



Warning! Do not use side brush in a room with no wall skirting, otherwise, the wall will get dirty.



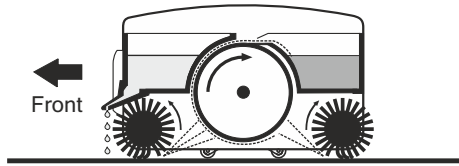
Fitting the side brush

- Remove the front brush and brush shaft.
- Fix the shield assembly on the side plate.
- Insert the side brush through the shield and main brush.

Using the side brush

- Tilt the machine at an angle move forward. This way, the dirty water thrown by the side brush will be collected by the rear brush.
- Use side brush only for washing the edges.

Principle of Operation



- Cleaning liquid in the solution tank is applied to the floor by either dripping (N/T) or spraying (P).
- The counter rotating brushes scrubs the floor and also throws the dirty water on the Conveyor drum. The front brush does most of the scrubbing and drying. The rear brush completes the scrubbing and collects the remaining water off the floor.
- A blade fitted to the dirty water tank wipes the drum and collects the dirty water.

Before Operation

- Insert the two tubular handles into the bottom handle and secure them using knob (2 Nos) by tightening lightly. Ensure that the handles are assembled according to their marked position and the cable holding hooks are pointing towards the rear.

RIGHT
BOTTOM
REAR



LEFT
BOTTOM
REAR

- Slide the electric cable retainer into the top portion of RH handle.
- Fit the top handle over the tubular handles and secure them with washer and screw (2 sets). Ensure that the label on the top handle is facing the front of the machine. Now tighten firmly both the knobs and screws alternately. Insert the dummy caps provided to cover the screws (2 nos) in the top handle.
- Pass the free end of the pull cable through the plastic guide in RH Handle. Press and twist clockwise to firmly secure the cable end to the fresh water tank (N/T).
- Fix the auxillary tank firmly into the bottom handle by holding the top handle.



FIRST OPERATION

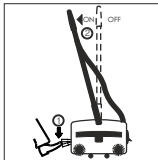


- Rotate the knob to hold the auxillary tank.
- The brushes are only loosely packed in the machine for transit, therefore the brush shafts must be fitted before operating the machine. Push the shafts through the brushes from the side of the machine. To remove brushes, push the brush shaft out from the side of the machine using the fingers and withdraw the shaft. Normally standard brush type will be supplied with the machine. Brushes shall be selected according to the type of floor surface to be cleaned, and the degree of dirt to be removed, please refer Brush Selection Guide.
- Now machine is ready for use.
- Secure the allen key in the slot provided in the handle tube for further usage.

Operating & Indicator Elements

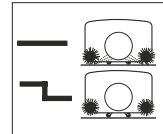
On/Off Control

- By pressing the pedal lightly with your foot, pull back the handle a little to start the motor. The brushes and the drum starts rotating. Pulling the handle further without pressing the pedal, lowers the machine and engages the rotating brushes onto the floor. To stop working, take the handle to the vertical position.



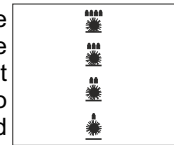
Transport/Working Mode Control

- Slide this knob to TOP position (Working Mode) to operate the machine. Slide this knob to BOTTOM position to move the machine from one place to other place and to park the machine. By keeping the knob to top position (working mode) and moving the machine will damage the brushes.



Brush Contact Control

- Brush contact with the floor is adjustable in 4 steps, contact is MINIMUM when the knob is fully down and MAXIMUM when it is fully raised. This helps you to compensate for the wear of brushes and also to control the scrubbing effect. If there is no machine movement while in operation (working mode), change the knob position to one step up.



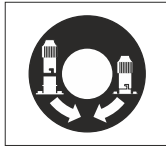
Cleaning Liquid Discharge Control

- By pulling, the liquid discharge control handle up, the cleaning liquid is made to spray on the floor. The spraying stops once the liquid discharge control handle is released.



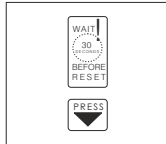
Pull cable connect / disconnect control

- Insert the free end of pull cable into the valve body fitted in the fresh water tank. Press and twist clockwise to secure the cable end. Similarly, press and twist anti-clockwise to disconnect the cable end.



Motor Overload Protector

In the event of motor getting overloaded due to improper power supply or unexpected obstruction to the brush/drum rotation, the over load protector trips and protects the motor from damage. If this happens, identify the cause, correct it and, reset the protector button after minimum 30 seconds from tripping by pressing the over load protector manually and continue working.



Should the machine fail to operate, contact the supplier from whom you purchased the machine.

MACHINE OPERATION

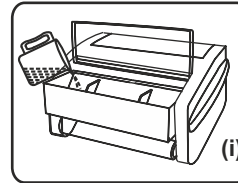
Before the washing operation starts



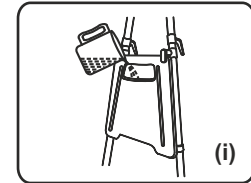
Precleaning of floor is must before using the machine.

- Fill cleaning liquid in fresh water tank (Fig-i)

Model (N)



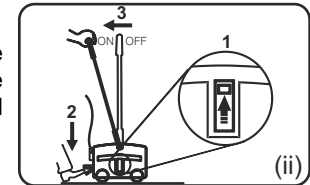
Model (T/P)



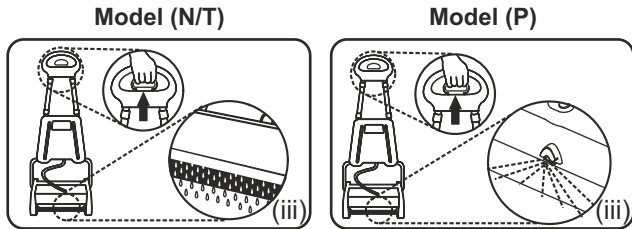
- Insert the plug into mains 3-pin socket.
- Ensure that the brushes are fitted properly.
- Slide the transport/working mode control knob to TOP (working) position (Fig-ii).

Recommended washing sequence

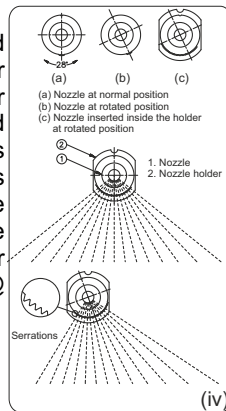
- Start the machine by pressing the pedal and pulling the handle back (Fig-ii).
- Move forward, while sparingly pulling the liquid discharge control handle (Fig-iii). This



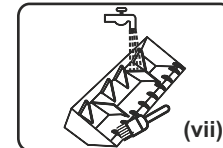
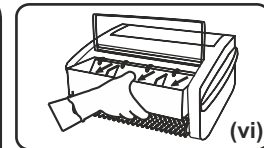
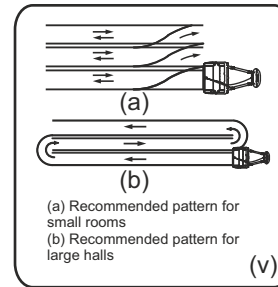
handle should not be kept pulled all the time. The duration and frequency of pulling and releasing has to be adjusted suitable to match with the type of floor, extent of dirt. etc. For ceramic & granite floors, apply very little water.



- Spray angle / area can be controlled by the user according to their requirements. It also prevents water / solutions sprayed in the cleaned area. Spray angle of the solution is made to adjust using the serrations provided in the nozzle and the nozzle holder. Nozzle can be rotated about 28 degrees either clockwise or counter clockwise @ the increment of 4 degree (Fig-i v).

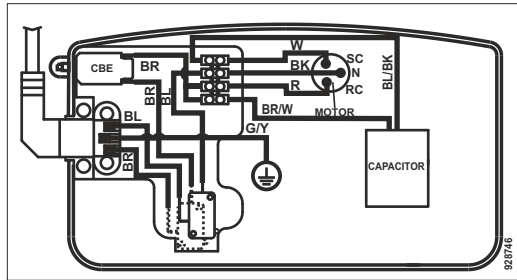


- Stop the liquid discharge approximately one foot before the end of forward motion. continue to move forward up to the wall without pulling the pull handle.
- Pull the machine backwards in the same track, but without discharging any liquid. When you are reaching the starting point, change the track and repeat steps 2 through 4. When you are changing the track allow some overlap with the cleaned area. In case of large halls take a U-turn and move forward. If quick drying is desired, move on the same track, without discharging the liquid (Fig-v)
- When the dirty water tank is full, lift and pull the tank out of the machine (Fig vi). Empty the tank and wash it in running water or dip it in a bucket of water (Fig-vii). Clean the blades and push the tank into its place.

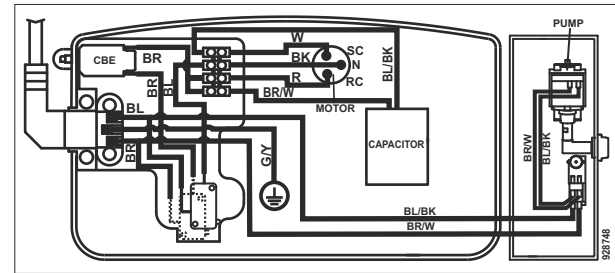


Avoid touching the sharp edge of dirty water tank, it may cause injury to hands.

Electrical Diagram



1. Electrical layout of N/T model



2. Electrical layout of P model

Diagram 1(N/T) and diagram 2 (P) are made available in the cover (Power cord side) of the respective machine for service purpose.

Abbreviations given in the diagram as listed:

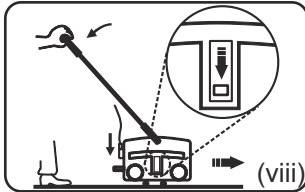
Abbreviation / Symbol	Description	Abbreviation / Symbol	Description
CBE	Circuit Breaker	G/Y	Green / Yellow
BR	Brown	SC	Strating coil
BL	Blue	RC	Running coil
W	White	N	Normal
BK	Black		Ground
R	Red		

ADDITIONAL INFORMATION-WEEE (WASTE OF ELECTRIC AND ELECTRONIC EQUIPMENT)

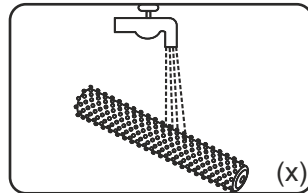
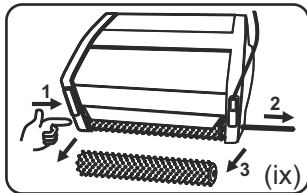
The symbol on the product or its packages indicates that the product may not be treated as house hold waste. Instead it shall be handed over to applicable collection point for recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequence of the environment and human health, which could otherwise be caused by inappropriate waste handling of this product, please contact your local city office, your household waste disposal service or shop where you purchased the product.



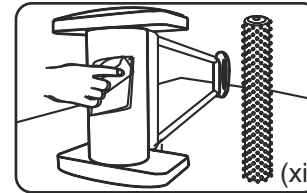
Before undertaking the cleaning of machine, switch off the machine and unplug from the electrical supply.



- Move the Transport / Working mode control knob to BOTTOM (Transport) position (Fig-viii).
- Disconnect the power supply by unplugging the electrical plug and wind the cable over cable holders in the handle.
- Pull out the dirty water tank and wash it completely.
- To prevent possible clogging of filter, drain cleaning liquid and keep the fresh water tank clean.



- Remove the brushes by pushing the brush shaft out (Fig-ix).
- Wash the brushes either by dipping in a bucket/sink or in running water (Fig-x).
- Turn the machine sideways and wipe clean the conveyor and machine body with a damp cloth (Fig-xi).
- Re-install the brushes after washing. It is easier to push the brush shaft from the right hand side (identified by the electrical cable).
- Keep the machine in the safer place.



Brush selection guide

Type of floor	Brush Type	
	First time cleaning	Maintenance cleaning
Ceramic, Mosaic, Wood, Profiled rubber, Vinyl, PVC.	Standard	Soft
Short pile carpet	Soft	Soft
All nature stone floors (Marble, Granite etc.)	Soft	Soft
Smooth concrete	Hard	Standard
Escalator	Escalator	Escalator
Other	To suit individual floor conditions	

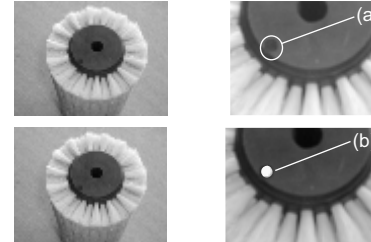
Brush Identification

This is applicable when the customer has more than one set of brushes of same type

Example : 2 or more sets of Standard Brush

(a) Hole provided for plugging button.

(b) Brush with button plugged.



Customers may not interested to use same brushes in Bedroom / Kitchen / germ free area which is already been used in other areas like Corridor / Bathroom / Oil or chemical deposited areas. It is difficult for the customers to identify the particular brush which is used in certain area. To make this easy, Brush buttons of colors RED, BLUE, WHITE and YELLOW are packed with the machine. Customers shall plug the buttons on the hole provided in the brush as shown.

This helps the customer to identify the particular brush by keeping the button (color) as reference.

Upkeep of your machine

To get the maximum life of the machine ensure the following.

Supply cord

- Regularly inspect sheath, plug and cord anchorage for damage or loose connection.

Brushes

- For maximum life wash the brushes regularly. Ensure machine is in Transport mode when not in use.
- Store additional brushes in a vertical position to avoid bending of bristles.
- Check for permanent bending of bristles in a particular direction. This may occur if the machine is operated for several days without removing the brushes, which is not recommended.
- If this occurs, reverse the brush so that the bent bristles are automatically straightened.

Wiper Blade

- This may wear out after years of use. If this occurs the water collection performance will decrease. It should be replaced by an authorized Service Agent.

Solution tank filter (N/T)

- The filter prevents clogging of the drip holes in the tank. Periodically clean the filter to ensure uniform discharge of liquid.
- In case of non uniform discharge from the drip holes, back flush the tank in running water. Clean the drip holes using wire or a blunt pin.

Solution feed filter (P)

- The filter prevents clogging of the spray nozzle and should be periodically cleaned.
- Use pressurized air/ water for cleaning.

Nozzle maintenance (P)

- If the spray of the nozzle become blocked, slide the nozzle cover off and remove nozzle wash in clean water and clean using a pin and refit.

Do's & Don't's

Do's

- The machine must be disconnected from the mains supply (by pulling the plug out) before changing the brushes, cleaning the machine and for maintenance.
- Use only the brushes/accessories recommended as per the instruction manual. Usage of any other brushes/accessories can cause safety problems.
- Periodically inspect the power cord for possible damage. A damaged power cord must be replaced.
- Regularly clean the Fresh water tank filter.
- Clean the water spray nozzle regularly for an uninterrupted flow.
- Increase the brush pressure gradually.
- Clean the brushes, brush shafts, tanks & drum assembly after each operation.
- Before moving the machine select the transport mode.

Don't's

- Do not leave the machine connected to the power supply when not in use, always remove the plug from the mains socket.
- Do not use the machine where hazardous dust is present.
- Do not use the machine near flammable liquids.
- Do not use in an explosive atmosphere.
- Do not use in gradient surface.
- Do not use the machine without water.
- Do not use in rough uneven surfaces.
- Do not allow the mains cable near the brushes during machine operation.
- When the handle is in lower position do not leave machine.
- Do not pull the liquid discharge control handle when the machine in reverse direction.

Trouble shooting

Problem	Remedy
Machine not getting switched ON	Check the machine mode in Idle side housing.
	Check the power supply.
	Check whether the circuit breaker is tripped.
	Check the micro switch, wirings, capacitor & power supply to brush motor.
Circuit breaker gets tripped	Check the wires for any short circuit.
	Check the current consumption of the motor.
	Check the condition of bearings in the drive side.
	Check the condition of circuit breaker.
Water not spraying	Check the function of micro switch & power supply to the pump.
Brush stops rotating when brush loaded	Check the condition of the capacitor & motor.
Brushes are not rotating when the motor is working	Check the belt tension & readjust.

Problem	Remedy
Drum assembly not rotating / Abnormal sound in the drum	Check the condition of teeth's in the drum.
Absence of water in the floor.	Check water level in tank.
	Check the pump & voltage supplied to pump.
Insufficient water flow	Check water level in tank.
	Check & clean the inlet filter and hose.
	Clean the water spray nozzle.
Machine not collecting the dirty water properly	Check the position of dirty water tank with housing.
	Check the blade condition in dirty water tank.
	Check the blade for any dirt blockage.
	Check the condition of Drum sleeve.
Cleaning efficiency is poor	Check the brush pressure & condition of brushes.



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