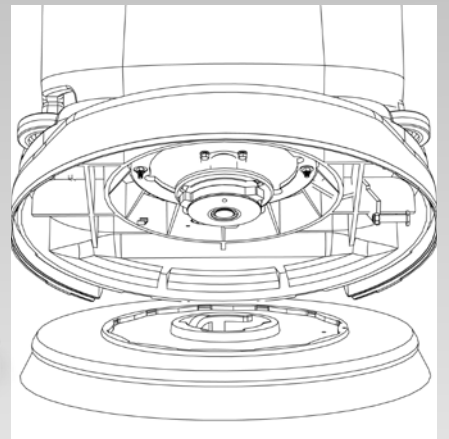


Numatic

HT4045 TT4045G TT4055G

SCRUBBER DRYER



Owner Instructions

CAUTION, Read instructions before using the machine

SCRUBBER DRYER

HT 4045, TT 4045, TT 4055

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PLEASE READ BEFORE COMMENCING OPERATION

After the removal of all the packaging, carefully open and check the contents

- Owner Manual
- Scrub Brush
- Semi Parabolic Floor-tool
- Floor-tool Hose

1	Operator Control Panel
2	Separator
3	Top Tank (waste-water)
4	Waste-water Emptying Hose
5	Bottom Tank (clean-water)
6	Deck Locking Pin
7	Brush Deck
8	Handle Position Lever
9	Vacuum Switch
10	Pump Switch
11	Power Light
12	On / Off Switch
13	Triggers
14	Clean-water Tank Fill Point / Filler Hose
15	Floor-tool Vacuum Hose
16	Vacuum Hose
17	Clean-water Tank Emptying Hose & Fill Level
18	Floor-tool Lifting Lever
19	Floor-tool Retaining Knobs
20	Semi Parabolic Floor-tool
21	Clean W r Filter
22	Brush
23	Reset Switch (110v Machines Only)

Machine Overview



Machine Set Up



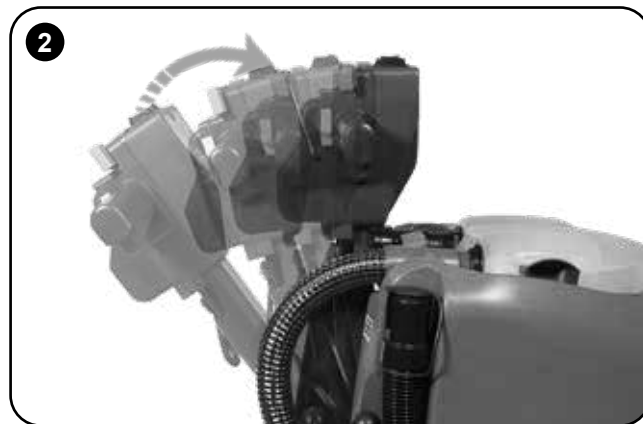
PLEASE READ BEFORE COMMENCING ANY OPERATION AFTER THE REMOVAL OF ALL THE PACKAGING, CAREFULLY OPEN AND CHECK THE CONTENTS.



Tilting the handle



Using the handle position lever (Fig.1).



Move the handle into the upright position (Fig.2).

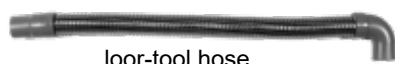
Fitting top tank



Fit the top tank to the machine (Fig.3).



Fit both vacuum and floor-tool hose to the separator (Fig.4).



loor-tool hose

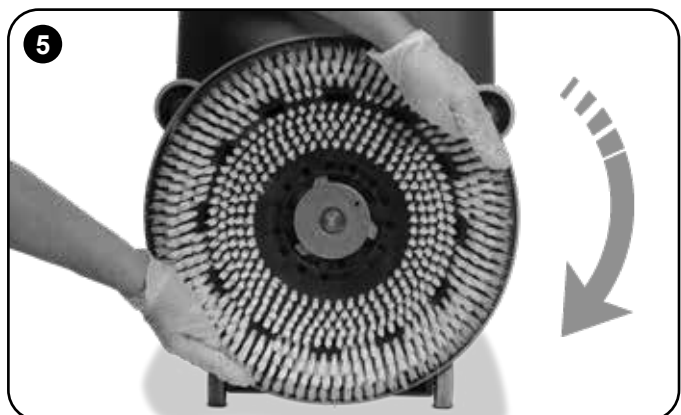


Vacuum hose

Fitting the brush - Safety gloves are recommended for the changing of used brushes.

Featuring the Nulock brush system. The brush is simply pushed and twisted to lock, making fitting and removal a simple process. The Pad is retained using Numatic's own PadLoc system (ask your supplier for details).

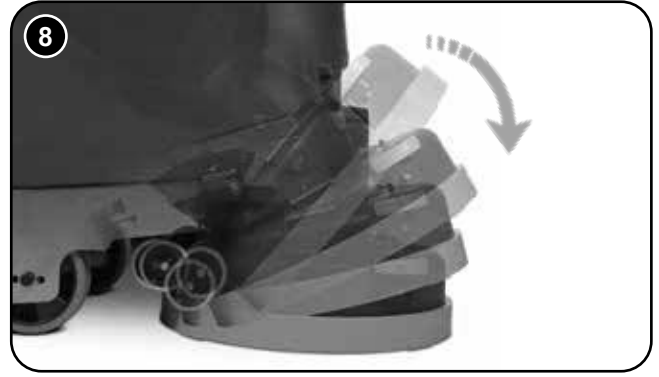
Only use manufacturer supplied brushes / pads. TT 4045G requires a 450mm brush or a 400mm pad. TT 4055G requires a 550mm brush or a 500mm pad. Fit the brush / pad to the drive chuck, twist to lock the brush (Fig.5) / pad in place (Fig.6).



Tipping the Brush Deck



To tip the deck into the down position (Operating mode). Press in the brush deck locking pin (Fig.7) and rotate the brush deck (Fig.8).



To change to brush deck up position, (Transit mode) simply lift the deck and the sprung loaded locking pin will activate to hold the deck up.



ALWAYS ENSURE THAT THE MACHINE IS SWITCHED OFF BEFORE MAKING ANY ADJUSTMENTS



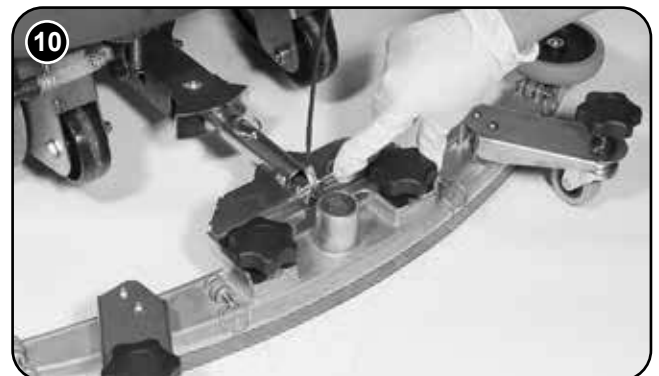
Fitting the Floor-tool

The floor-tool has been designed for quick fitting, allowing easy squeegee blade replacement and a safety knock-off feature if the floor-tool gets snagged, whilst in transit.

Note: It is easier to fit the floor-tool if the weight of the machine is resting on the brush. Ensure the brush is fitted first.



Fit the floor-tool and retain using the detent pin (Fig.9).



The lifting strap is held by a detent pin (Fig.10).



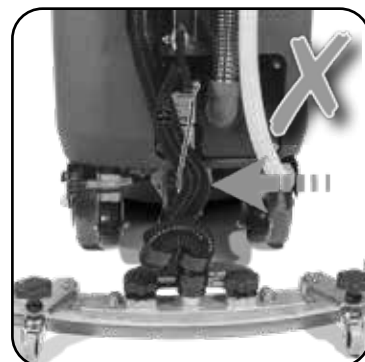
Raise the floor-tool for transit or lower for cleaning operation using the lifting handle fitted to the back of the machine (Fig.11).

For fitting the floor-tool blades (See Page 13).

Machine Set Up

Fitting the Hose Guide

The vacuum hose has a U-bend clip which creates a U-bend in the hose preventing water spillage when the vacuum is switched off. If you need to remove the U-bend clip for any reason always ensure it is refitted correctly before you resume operation (Fig 36-39).



Refit vacuum hose to the Floor-tool when finished.



Note:
DO NOT push the vacuum hose onto the Floor-tool with the Floor-tool in the raised position.
Raise floor-tool again before driving to the cleaning area.

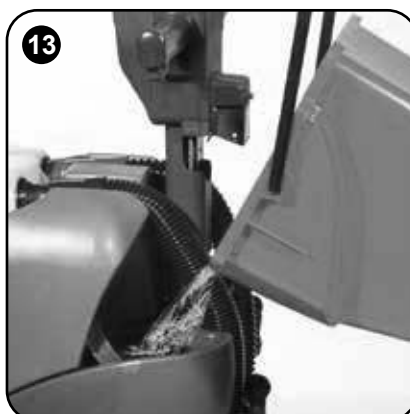


Filling the clean-water tank

The TT Range are all equipped with a 40 litre clean-water tank allowing large areas to be cleaning in a single fill.



To fill the clean-water tank, use the FLEXI - FILL pipe from either a tap or hose pipe (Fig.12).



The large cap on the left can be removed for filling from a bucket or suitable container (Fig.13).



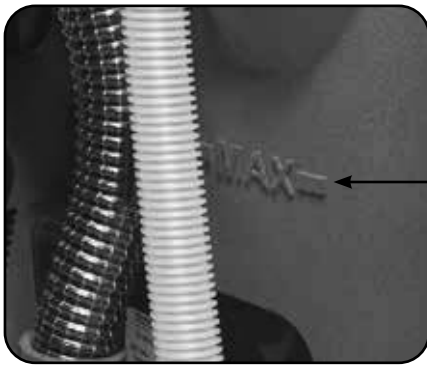
Fill the clean-water tank to a maximum of 40 litres, including cleaning chemicals if required. Follow chemical manufactures guide lines.



Note:
Great care must be taken to ensure that contaminants (leaves, hair, dirt, etc) are not allowed to enter the clean-water tank during the filling process. If using a bucket or similar, ensure it is always clean and free from debris.



Clean water level



The water level in the clean-water tank can be seen using the clean-water clear dump hose fitted to the rear of the machine.

MAX

The clean-water bottom tank holds 40 litres.



Control of Substances Hazardous to Health (COSHH)

For best results use a non-foaming type of chemical, dilute to the manufacturer's specification. For further guidance on hazardous substances refer to health and safety instructions online. Visit <http://www.hse.gov.uk/> for UK information.

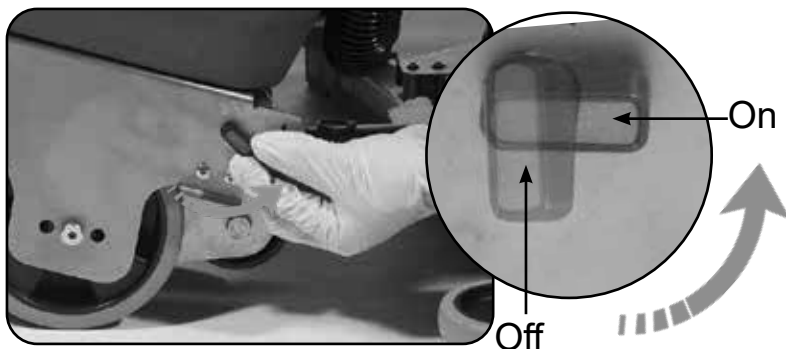
WHEN HANDLING AND MIXING CHEMICALS

Always ensure that chemical manufacturer's safety guidelines are followed. Only use chemicals recommended for use in auto scrubber-dryers.

IMPORTANT

Do not operate machine unless the Operator Manual has been read and fully understood.

Clean water tap Turn on the clean-water tap.



Reset Switch (100-120V Only)



Press re-set switch to reset machine after trip out.

Pre-cleaning advice

14

Before performing the cleaning operation, place out appropriate warning signs and sweep or dust-mop the floor (Fig.14).



Numatic part (629044) Wet Floor sign (available if required)



ALWAYS ENSURE THAT THE FLOOR IS PRE-SWEPT AND RELEVANT SAFETY SIGNS ARE DISPLAYED



Machine Operation

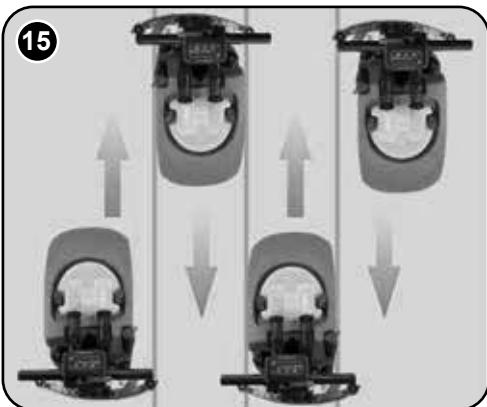
Pre-scrub mode

The TT Range have been designed to cope with a variety of floor types and different levels of soiling.

On heavily soiled floors use a 'double scrub' technique.

First pre-scrub the floor with the floor-tool in the raised position, allow the chemical time to work, then scrub the area a second time with the floor-tool lowered.

Floor-tool in use

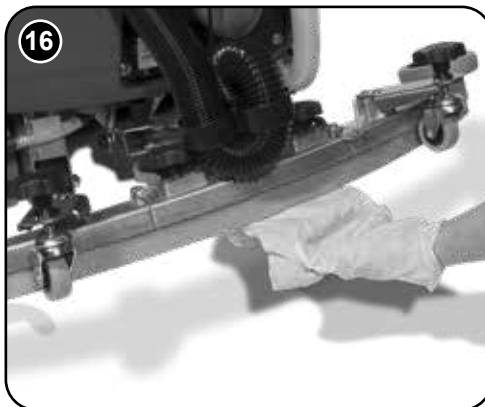


The clean-water / chemical mix is dispersed via the 'THRU-FEED' system.

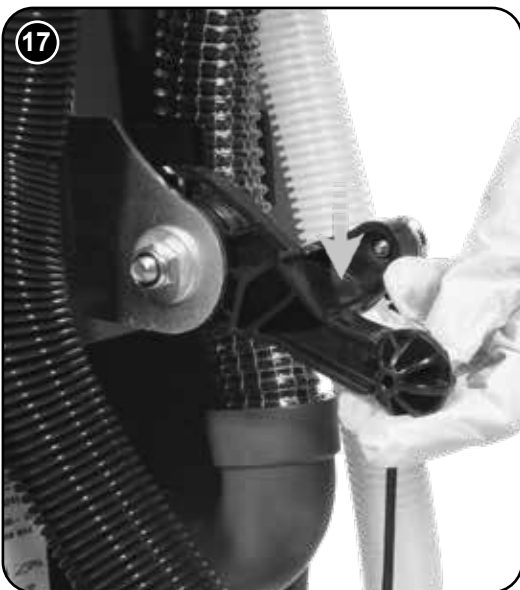
The waste water is then retrieved by the floor-tool.

Overlap the scrubbing path by 10cm to ensure an even clean (Fig.15).

If streaking occurs, wipe the floor-tool blades clean (Fig.16).



Lowering the floor-tool



After preparing the floor (see previous section), we are now ready to set the controls to suit the cleaning conditions.

Before any settings can be applied, ensure the brush deck is lowered.

Move the floor-tool lever (see Fig.17), to it's lower position (see Fig.18).

Note: The machine will still reverse with the floor-tool in the lowered position, this could possibly damage the blades. Raise the floor-tool before reversing.



Breakaway floor-tool



The floor-tool design incorporates a safety knock-off feature.

Allowing it to safely disengage from its mounting should it become caught on an obstruction, during forward machine movement.

To re-attach the floor-tool blade to its holder, first loosen the retaining knobs on the floor-tool body and slide onto the holding bracket.

Tighten retaining knobs to finger tight (See Fig.19).

Note:

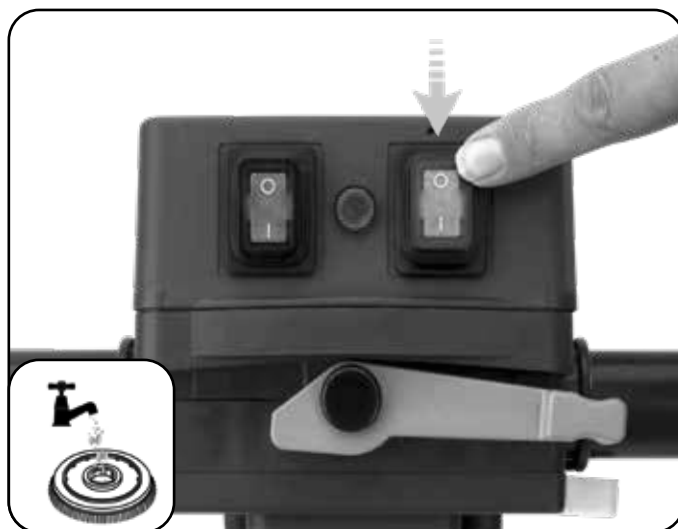
Care must be taken to reduce speed when cornering or when manoeuvring around obstacles.

Setting The Cleaning Controls

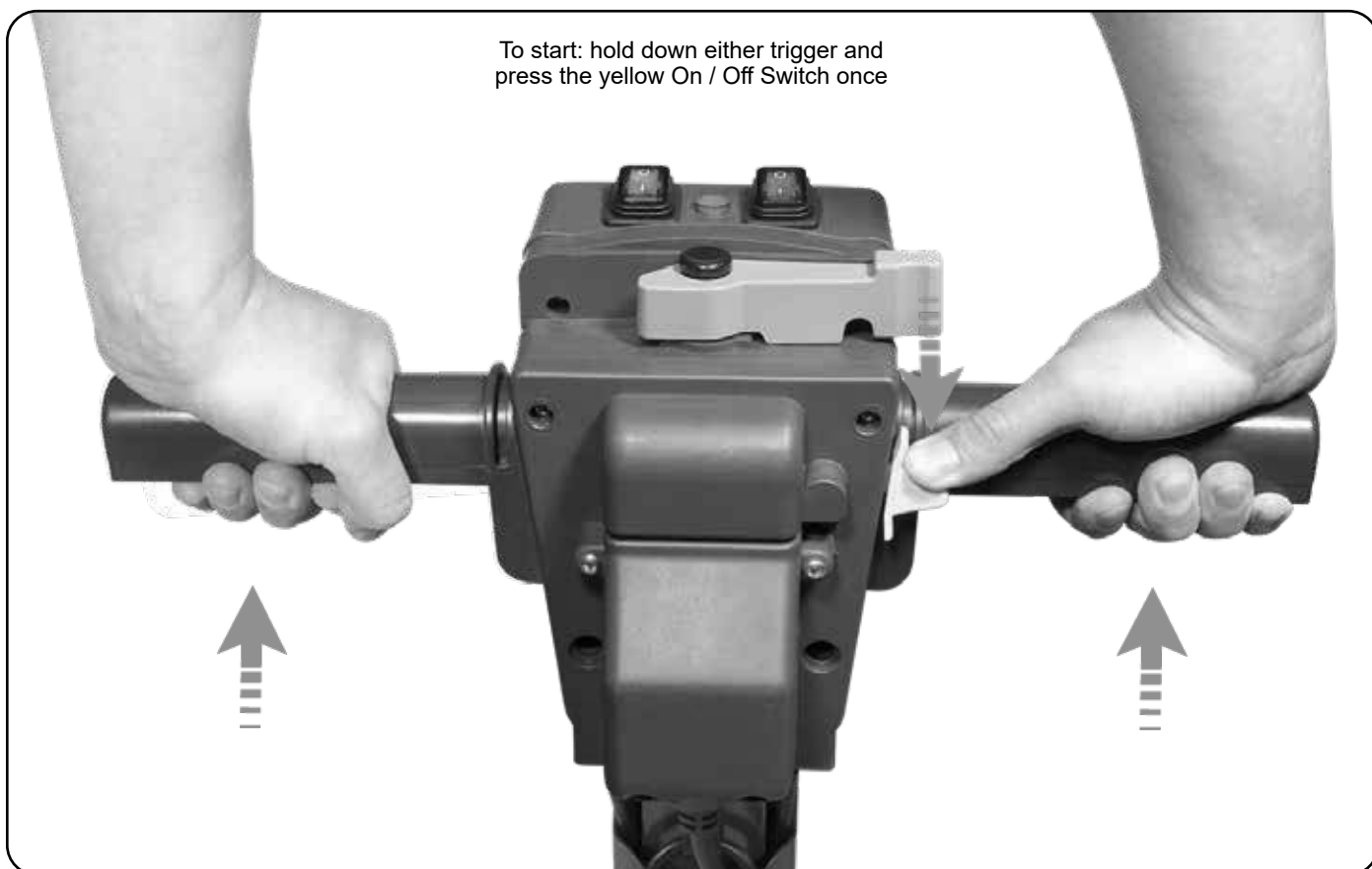


Ensure your TT machine has been plugged into a suitable power supply.

Select the desired function using the on / off switches fitted to the handle.



To start: hold down either trigger and press the yellow On / Off Switch once



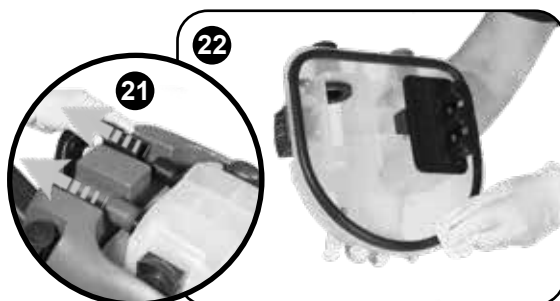
Regular Maintenance



ALWAYS ENSURE THAT THE BATTERY IS DISCONNECTED PRIOR TO ANY MAINTENANCE OPERATION



The TT Range has been designed with ease of use in mind, this included easy stripping-down and cleaning. After use, empty waste-water tank using emptying hose and flush out with clean-water (Fig.20).



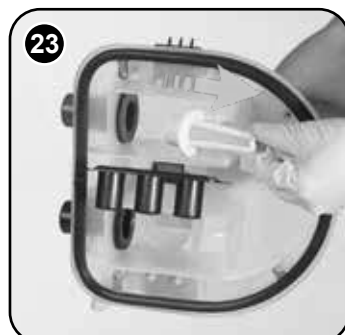
Remove the two hoses to disconnect the separator from the machine (Fig.21).

Lift off the separator. The separator has a sealing-rubber which should be examined at every clean-down (Fig.22).

Rinse using clean-water.

Remove the filter fitted into the separator and flush with clean-water (Fig.23) (Fig.24).

Placed into the top tank is grey filter basket, clean and flush with clean-water (Fig.25) (Fig.26).



The bottom (clean-water) tank is attached to the chassis and should only be removed by a competent service engineer (Fig.27).

Clean by flushing with clean-water if required.

Excess water can be drained using the clear dump hose fitted to the rear of the machine.



Located under the left hand side is a clean-water filter, ensure the clean water tap is turned off before removing this filter (Fig.28).

Clean and flush with clean-water if required.



Changing the Floor Tool Blades

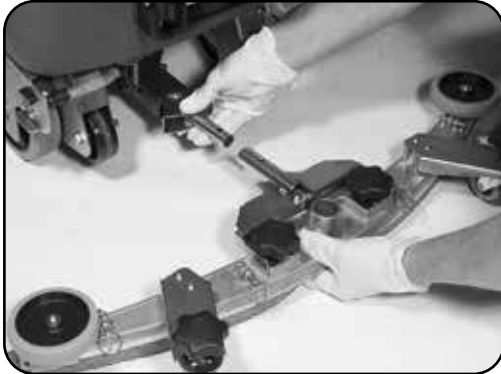
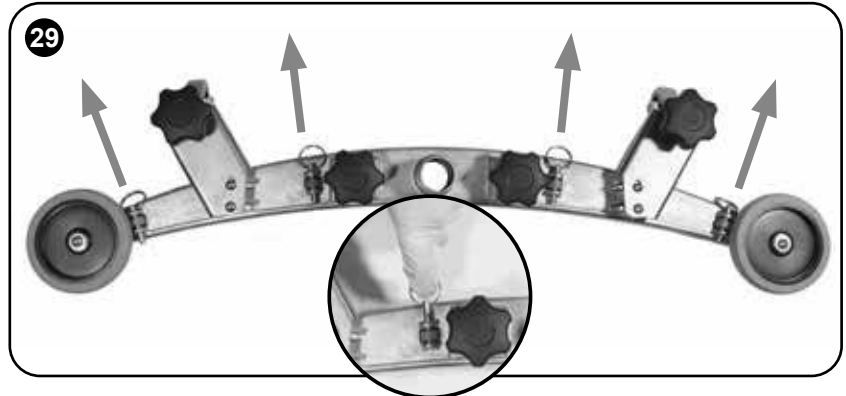


**ALWAYS ENSURE THAT THE BATTERY IS DISCONNECTED
PRIOR TO ANY MAINTENANCE**



The floor-tool

The TT range is provided with the aluminium floor-tool shown.



To clean the floor-tool, remove securing-pin and disconnect the lifting strap and remove the floor-tool securing pin pull-free the floor-tool from the rear of the machine. Rinse the floor-tool assembly with clean water and refit.

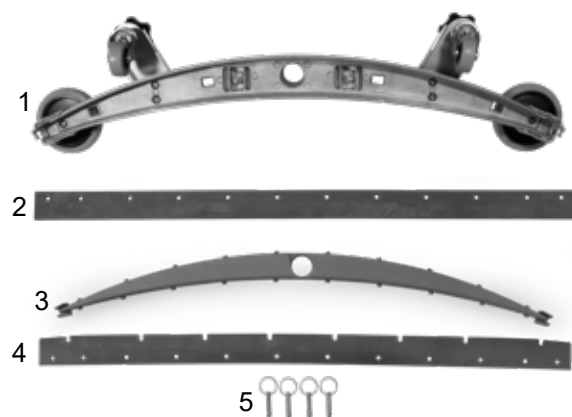


Periodically the floor-tool blades should be examined and checked for wear and damage.

The blade removal is easy. Simply start by removing the four retaining pins (see Fig.29), turn the floor-tool over and separate the blade carrier from the body (see Fig.30). Peel away the blades from their locating lugs (see Fig.31) and examine or renew as required. Replacement is a reversal of the removal process.

Floor-tool overview

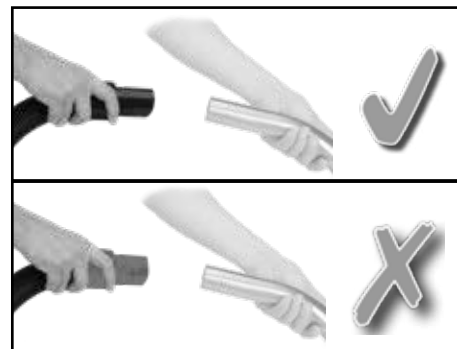
1. Floor-tool main body
2. Rear blade
3. Blade carrier
4. Front blade (slotted)
5. Retaining pins x 4



Note:
The blades are designed to be reversible, thus extending their useful working life.



Off-Aisle Cleaning Kit (Optional Extra Accessory)



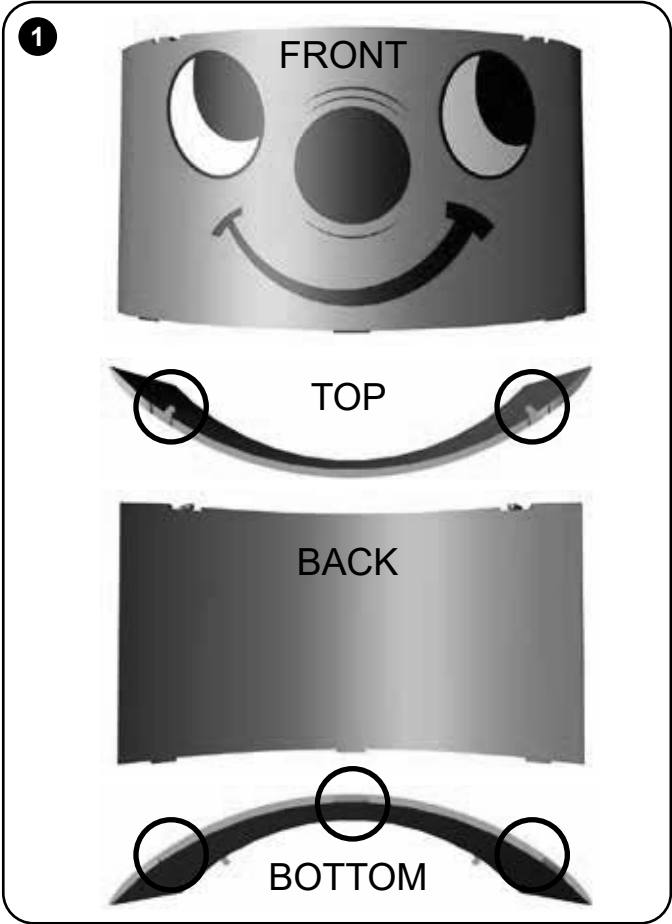
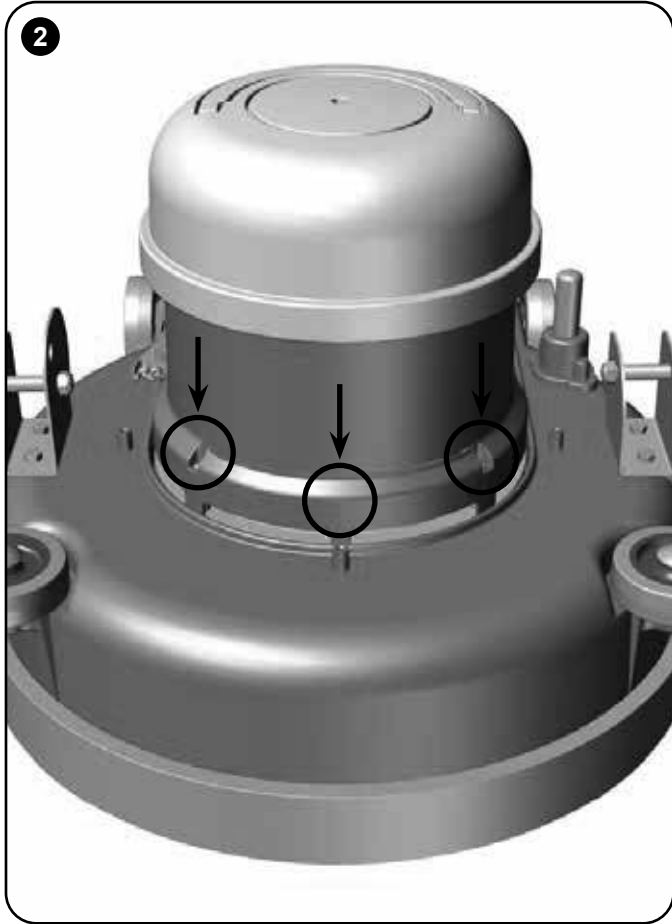
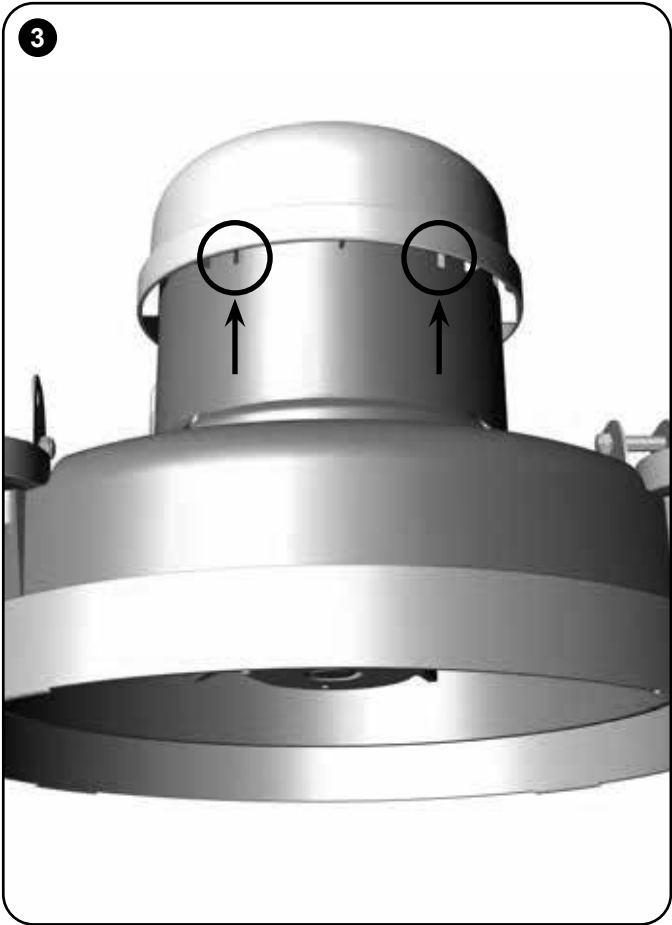
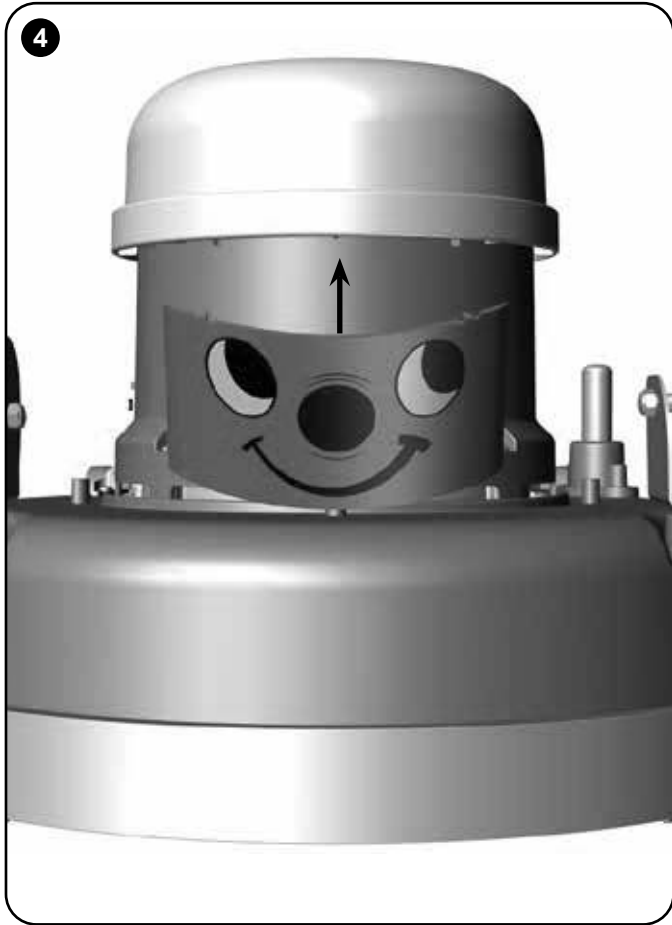
**In the event of a breakdown contact your Numatic dealer or the
Numatic Technical helpline +44 (0)1460 269268
(See back page for company addresses or dealers stamp)**



Specifications

HT 4045 & TT 4045G							
Brush Motor	Vac Motor	Brush Sizes	Pad Sizes	Net Weight	Gross Weight	Protection Class	Power
1500 W	800 W	450 mm	400 mm	67 kg	107 kg	IPX4	100-120V 50-60Hz
1500 W	1200 W	450 mm	400 mm	67 kg	107 kg	IPX4	220-240V / 50-60Hz
Fluid Flow	Speed	Capacity	Cleaning Range	Cleaning Speed	Hand Arm Vibration	Noise	Size
0-2L/Min	150rpm @ 50Hz 180rpm @ 60Hz	40 L	42 m	0-4 kph	1.4 m/s ²	76 ± 3 dB(A)	Width - 470mm Length - 890mm Height - 1100mm

TT 4055G							
Brush Motor	Vac Motor	Brush Sizes	Pad Sizes	Net Weight	Gross Weight	Protection Class	Power
1500 W	800 W	550 mm	500 mm	68 kg	108 kg	IPX4	100-120V 50-60Hz
1500 W	1200 W	550 mm	500 mm	68 kg	108 kg	IPX4	220-240V / 50-60Hz
Fluid Flow	Speed	Capacity	Cleaning Range	Cleaning Speed	Hand Arm Vibration	Noise	Size
0-2L/Min	150rpm @ 50Hz 180rpm @ 60Hz	40 L	42 m	0-4 kph	1.4 m/s ²	76 ± 3 dB(A)	Width - 560mm Length - 935mm Height - 1100mm



5



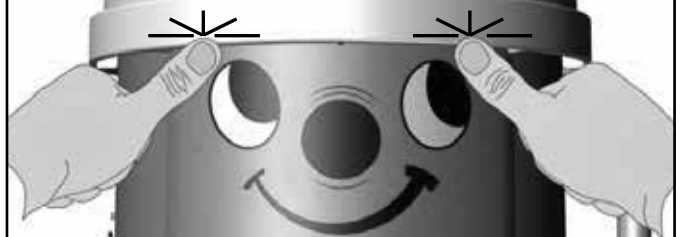
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7



8



Trouble- Shooting

PROBLEM	CAUSE	SOLUTION
Poor water pick-up	Waste-water tank full Clogged / blocked vacuum hose Loose hose connections Debris basket filter clogged / blocked Separator filter clogged / blocked Poor separator seal Damaged separator seal Damaged / split vacuum hose Damaged floor-tool blades	Empty waste-water tank (page 12) Remove and clean Push tight connections Remove and clean (page 12) Remove and clean (Page 12) Clean and refit (page 12) Renew (contact service dept) Renew (contact service dept) Renew (contact service dept)
No brush / scrub function	No brushes fitted Brush deck raised	Check and fit (page 7) Lower brush deck (page 7)
Little or no water flow	Clean-water tank empty Clean-water tank filter blocked / clogged Brush deck raised	Fill clean-water tank (page 8) Remove and clean (12) Lower brush deck (page 7)

Spare Parts & Accessories

Part No.	NAME	Part No.	NAME
237654	Top Tank - Blue	606203	450MM POLYSCRUB BRUSH
577839	Separator	606204	450MM NYLOSCRUB BRUSH
206953	DETENT PIN	606306	450MM LONGLIFE BRUSH
213058	Vac Hose	606028	550MM POLYSCRUB BRUSH
280019	Floor Tool Hose	606550	550MM NYLOSCRUB BRUSH
280018	Dump Hose - Top Tank	606551	550MM LONGLIFE BRUSH
213025	Dump Hose - Bottom Tank	606401	400mm PADLOC DRIVE BOARD
208960	Filler Hose - Bottom Tank	900526	500mm NULOC2 DRIVE BOARD
237718	Hose Guide	900521	650 Semi Parabolic Squeegee (4045G)
206111	Dump / Filler Closure - Bottom Tank	900522	750 Semi Parabolic Squeegee (4055G)
237268	Filler Cap Lid	900518	650 Floor Tool Blades - Green PU
207128	Filler Cap Filter	900519	750 Floor Tool Blades - Green PU
206265	Barrel Filter	236012	MAINS CABLE - UK
207000	Basket Filter	236132	MAINS CABLE - EURO
208888	Clean Water Filter	236020	MAINS CABLE - SWITZERLAND
208827	Clean Water Filter Body	236024	MAINS CABLE - SOUTH AFRICA
208890	Clean Water Filter Clear Bowl	236028	MAINS CABLE - USA
208830	Clean Water Filter Gasket	236118	MAINS CABLE - INDUSTRIAL 16 AMP
208889	Clean Water Filter Mesh	206813	SWITCH KEY



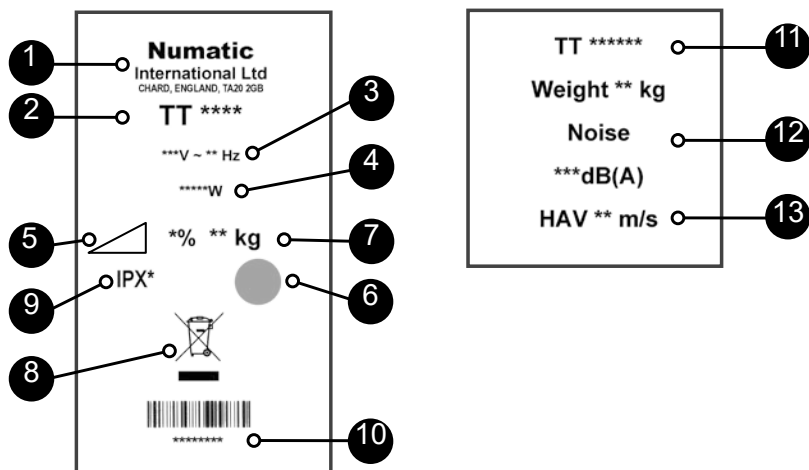
Failure to rectify the problem or in the event of a breakdown contact your Numatic dealer or Numatic Technical helpline +44 (0)1460 269268



About the Machine

Rating Label

1	Company Name & Address
2	Machine Description
3	Power rating
4	Voltage Frequency
5	Max Gradient
6	Approvals Mark
7	Weight (ready to use)
8	WEEE Logo
9	Ingress Protection Rating
10	Machine yr/wk Serial number
11	Machine Description
12	Noise Rating
13	Hand Arm Vibration



Scrubber dryer Accessories and packaging should be sorted for environmentally-friendly recycling.

Only for EU countries.

Do not dispose of scrubber-dryer into household waste.

According to the European Directive 2002/96/EC on waste electrical electronic equipment and its incorporation into national law.

Scrubber-dryers that are no longer suitable for use must be separated, collected and sent for recovery in an environmentally-friendly manner.



PPE (Personal protective equipment) that may be required for certain operations.

Ear Protection	Safety Footwear	Head Protection	Safety Gloves	
Dust / Allergens Protection	Eye Protection	Protective Clothing	Hi-Vis Jacket	Caution Wet Floor Sign

Note: A risk assessment should be conducted to determine which PPE should be worn.

Safety Critical Component:

Mains lead:
H05VV-F 20m x 3 Core x 1.5mm²



ORIGINAL INSTRUCTIONS
READ MANUAL BEFORE USE

Information for Scrubber Dryer

Component	Interval	Inspect for
Mains Lead	DAILY	Scuffing, cracks, splits, conductors showing
Brushes	DAILY	Bristle damage, wear, drive collar wear
Squeegee Blade	BEFORE EACH USE	Wear, cracks, splits
Filters	BEFORE EACH USE	Clogging and debris retention
Tanks	AFTER EACH USE	Rinse dirty water tank after use



WARNING

As with all electrical equipment care and attention must be exercised at all times during its use, in addition to ensuring that routine and preventative maintenance is carried out periodically in order to ensure its safe operation.

Failure to carry out maintenance as necessary, including the replacement of parts to the correct standard could render this equipment unsafe and the manufacturer can accept no responsibility or liability in this respect.

When ordering spare parts always quote the Model Number / Serial Number specified on the Rating Plate.

This appliance is not intended for use by persons (including children) 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.

Only use brushes provided with the appliance or those specified in the instruction manual.

The use of other brushes may impair safety.

A full range of brushes and accessories are available for this product.

Only use brushes or pads which are suitable for the correct operation of the machine for the specific task being performed.

It is essential that this equipment is correctly assembled and operated in accordance with current safety regulations.

When using the equipment always ensure that all necessary precautions are taken to guarantee the safety of the operator and any other persons who may be affected.

Wear non-slip footwear when scrubbing. Use a respiratory mask in dusty environments.

The machine, while charging, must be positioned so that the mains plug is easily accessible.

When cleaning, servicing or maintaining the machine, replacing parts or converting to another function the power source shall be switched off.

Mains operated machines shall be disconnected by removing the power plug, and battery operated machines shall be disconnected by switching off the isolating key.

Machines left unattended shall be secured against unintentional movement.

When detergents or other liquids are used, read the manufacturer's instructions.

Do not allow the supply cord to come into contact with the rotating brushes.

Operators shall be adequately instructed as to the correct use of the machine.



CAUTION

This machine is not suitable for picking-up hazardous dust.

Do not use on surfaces having a gradient exceeding that marked on the appliance.

The machine is not to be stored outdoors in wet conditions.

This machine is for indoor use only.

Read the instruction manual before using the appliance.

This product meets the requirements of IEC 60335-2-72.

NOTE: This machine is also suitable for commercial use, for example in hotels, schools, hospitals, factories, shops and offices for other than normal housekeeping purposes.



DO

- Ensure only competent persons unpack/assemble the machine.
- Keep your machine clean.
- Keep your brushes in good condition.
- Replace any worn or damaged parts immediately.
- Regularly examine the power cord for damage, such as cracking or ageing. If damage is found, replace the cord before further use.
- Only replace the power cord with the correct Numatic approved replacement parts.
- Ensure that the work area is clear of obstructions and / or people.
- Ensure that the working area is well illuminated.
- Pre-sweep the area to be cleaned.



DON'T

- Use steam cleaners or pressure washers to clean the machine or use in the rain.
- Attempt machine maintenance or cleaning unless the power plug has been removed from the supply outlet.
- Allow any inexperienced repairs. Contact your nearest service centre.
- Strain cable or try to unplug by pulling on cable.
- Leave the brush deck in the lowered position when not in use.
- Allow the machine to be used by inexperienced or unauthorised operators or without appropriate training.
- Use the machine without the solution tanks properly positioned on the machine, as shown in the instructions.
- Expect the machine to provide trouble-free, reliable operation unless maintained correctly.
- Lift or pull the machine by any of the operating triggers, use the main handle.
- Remove the handle from the machine except for service and repair.
- Use on surfaces having a gradient exceeding that marked on the machine.
- Run the machine over any power cables during operation.



**WB FLOOR
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