

HGB 3045 / 55 HBG 3045 / 55 TGB 3045 / 55 TGB 4045 / 100 TGB 4055 / 100 TGB 4055 / 100T SCRUBBER DRYER



MIE OWNER INSTRUCTIONS Warning! Read instructions before using the machine

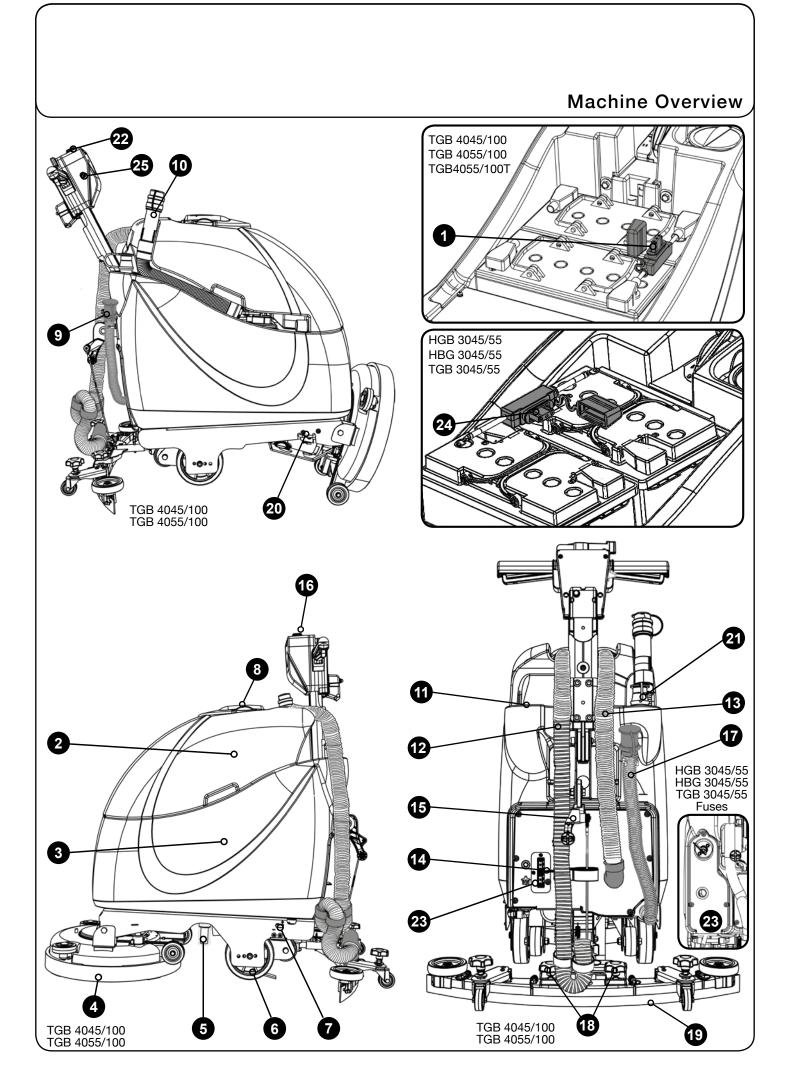


SCRUBBER DRYER HGB 3045/55, HBG 3045/55, TGB 3045/55, TGB 4045/100, TGB 4055/100, TGB 4055/100T. Index

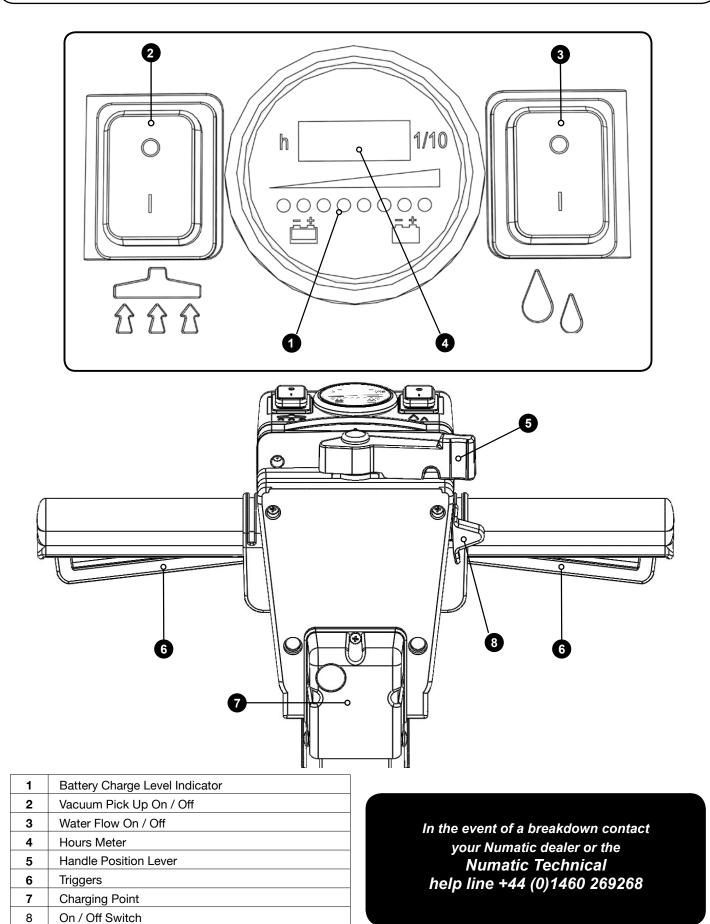
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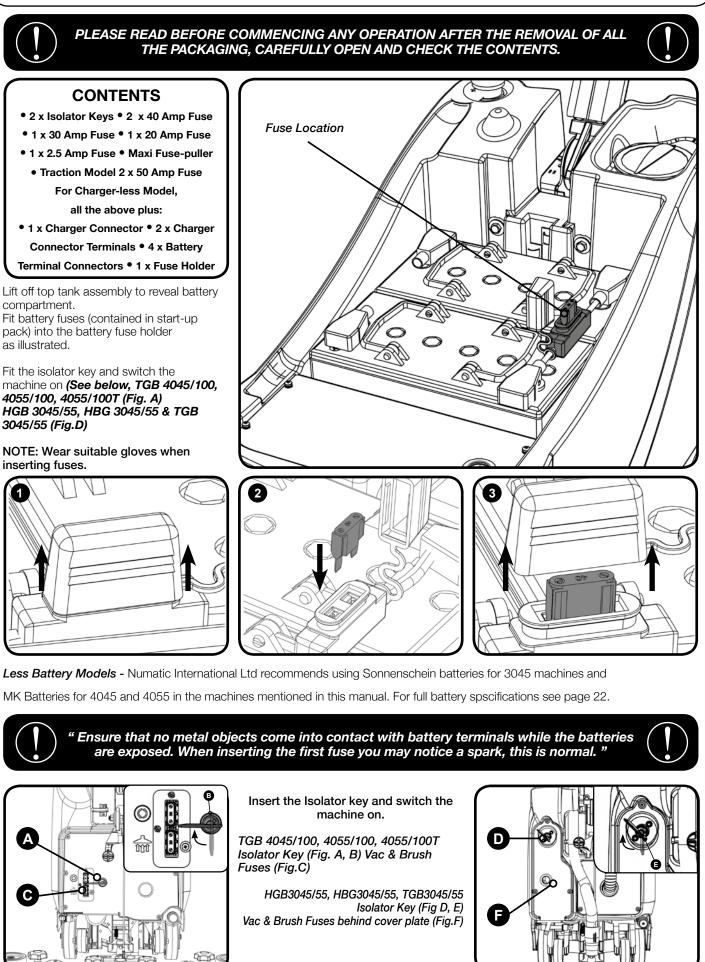
PLEASE READ BEFORE COMMENCING OPERATION

Cá • Fo	 fter the removal of all the packaging, arefully open and check the contents Owner Manual • Battery Charging Lead • 2 x Isolator Keys • 2 x 40 Amp Fuse • 1 x 30 Amp Fuse • 1 x 20 Amp Fuse • 1 x 2.5 Amp Fuse • Maxi Fuse-puller • Traction Model 2 x 50 Amp Fuse or Charger-less Model, all the above plus: • 1 x Charger Connector • 2 x Charger onnector Terminals • 4 x Battery Terminal Connectors • 1 x Fuse Holder 						
1	TGB 4045/100, 4055/100 40 Amp & 4055/100T 50 Amp Battery Fuse						
2	Top Tank (Waste Water)						
3	Bottom Tank (Clean Water)						
4	Brush Deck						
5	Clean Water Tank Filter						
6	Rear Wheels						
7	Clean-Water On/Off Tap						
8	Separator						
9	Clean-Water Emptying Hose						
10	Top Tank (Waste-Water) Drainage Hose						
11	Clean-Water Filler Cap						
12	Floor Tool Vacuum Hose						
13	Vacuum Hose						
14	Isolator Key						
15	Floor-Tool Lifting Lever						
16	Hour Meter						
17	Clean Water Level Indicator / Drainage Hose						
18	Floor-Tool Retaining Knobs						
19	Squeegee Blades						
20	Deck Locking Mechanism						
21	Clean-Water Filler Hose						
22	Operator Control Panel						
23	Brush & Vacuum Motor Fuse						
24 25	HGB 3045/55, HBG 3045/55, TGB3045/55 40 Amp Battery Fuse Safety Fuse 3045/55, 4045/100, 4055/100, 4055/100T 2.5 Amp Fuse						



SCRUBBER DRYER HGB 3045/55, HBG 3045/55, TGB 3045/55, TGB 4045/100, TGB 4055/100, TGB 4055/100T. Control Panel Overview







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



Fitting the Brush / Pad / Turn on water

450mm / 550mm Brush or a Pad.

Featuring the Nulock brush system.

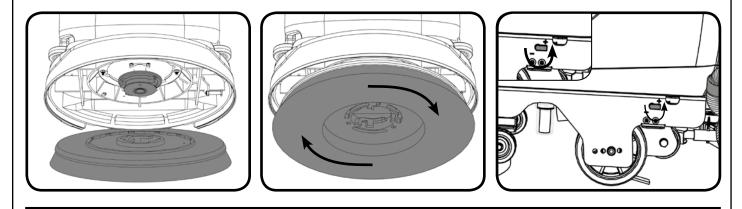
The brush is simply pushed and twisted to lock, making fitting and removal a simple process.

Slide the brush / pad under the brush deck.

Fit the brush / pad onto the Nulock drive chuck, twist to lock the brush / pad in place.

Safety gloves are recommended for the changing of used brushes.

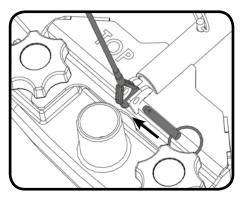
Turn on the clean water tap.



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.

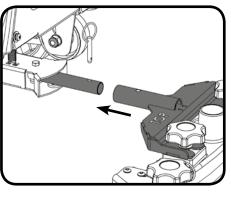


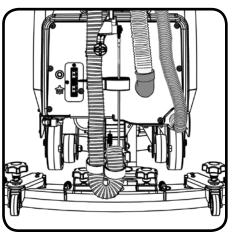
Fit the floor tool and retain using the detent pins.

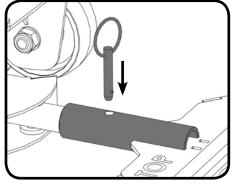
Push waste collection pipe onto the floor tool; ensure a tight fit.

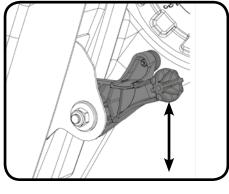
Raise the floor tool for transit or lower for cleaning operation using the lifting handle fitted to the back of the machine.

For fitting the floor tool blades (See Page 12).



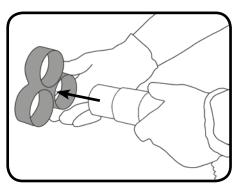




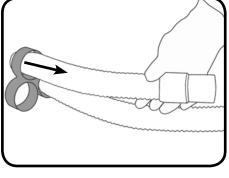


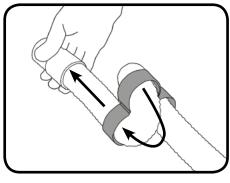
Fitting the Hose Guide

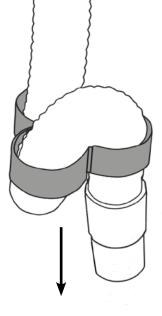
The vacuum hose has a U-bend clip which creates a U-bend in the hose preventing water spillage when the vacuum is switched off. If you need to remove the U-bend clip for any reason always ensure it is refitted correctly before you resume operation.



NOTE: DO NOT push the vacuum hose onto the floor tool with the floor tool in the raised position.

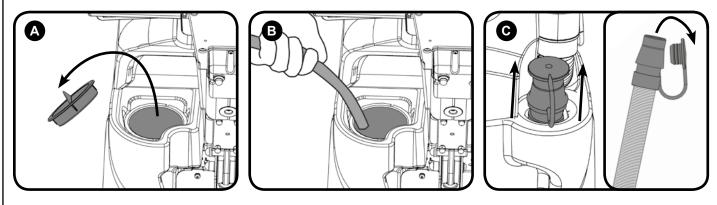






Refit vacuum hose to the Floor tool when finished.

Filling the Clean Water Tank



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

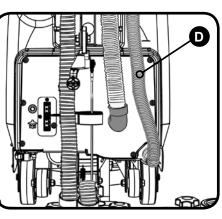
The large cap can also be used for filling from a bucket or suitable container. (Fig.A & B). Fill the clean-water tank to MAX line indication on tank, including cleaning chemicals if required. Follow chemical manufacturing guide lines.

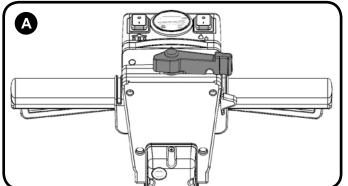
The clear dump hose at the rear of the machine can be used to see the level of the clean-water. (Fig.D).

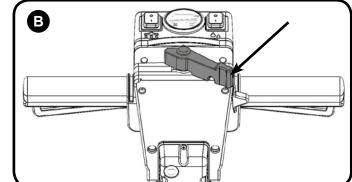
NOTE: Great care must be taken to ensure that contaminants (leaves, hair, dirt, etc.) are not allowed to enter the clean water tank during the filling process. If using a bucket or similar, ensure it is always clean and free from debris.

Control of Substances Hazardous to Health (COSHH)

For best results use a non-foaming type of chemical, dilute to the manufacturers specification. For further guidance on hazardous substances refer to health and safety instructions online.

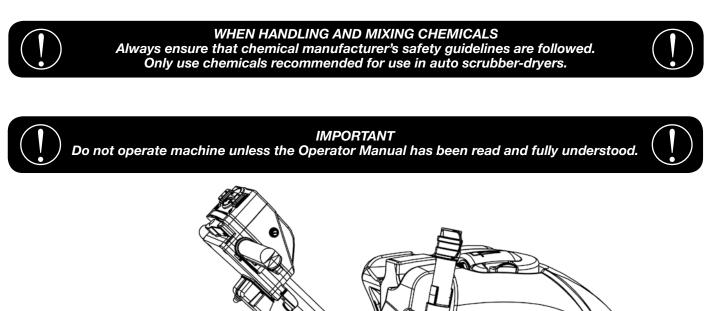






Handle Height Adjustment

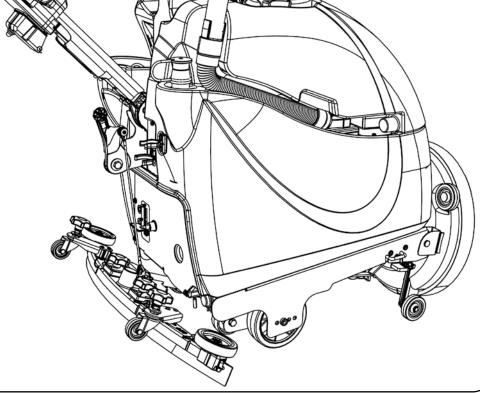
Using the handle position lever, lower the handle to a comfortable working position.



The machine is now ready to be moved to the cleaning site.

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



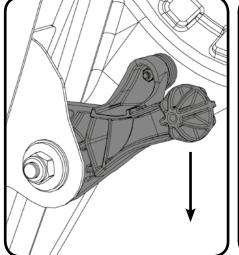


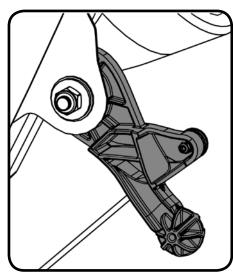
Machine Operation

Raising/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 to its lower position.

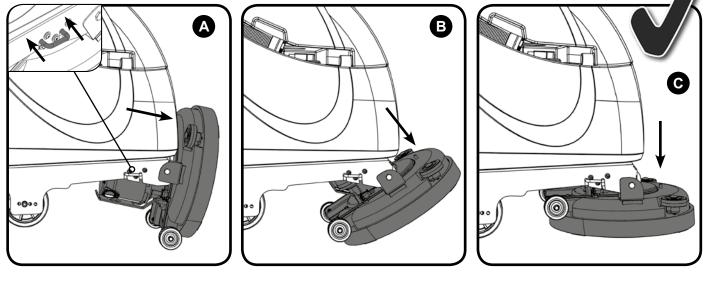
NOTE: Do not pull the machine backwards with the floor tool in the lowered position, this could possibly damage the blades.





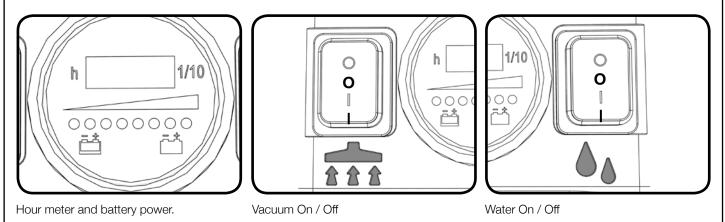
Raising/Lowering the Brush Deck

To tip the deck into the down position (Operating mode). Press in the brush deck locking pin (Fig.A) and rotate the brush deck (Fig.B & C). To change to brush deck up position, (Transit mode) simply lift the deck and the spring loaded locking pin will activate to hold the deck up.



Setting the Cleaning Controls

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



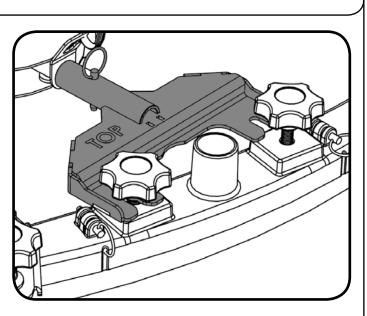
Machine Operation

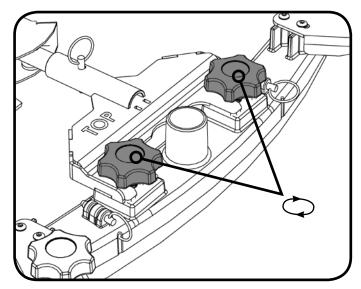
Break-away Floor Tool

The floor tool design incorporates a break-away feature.

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

To re-attach the 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.







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

Machine In Use

To operate, set water flow rate tap, lower brush deck, lower the floor tool, press the vacuum / water switches, pull brush On/Off trigger.

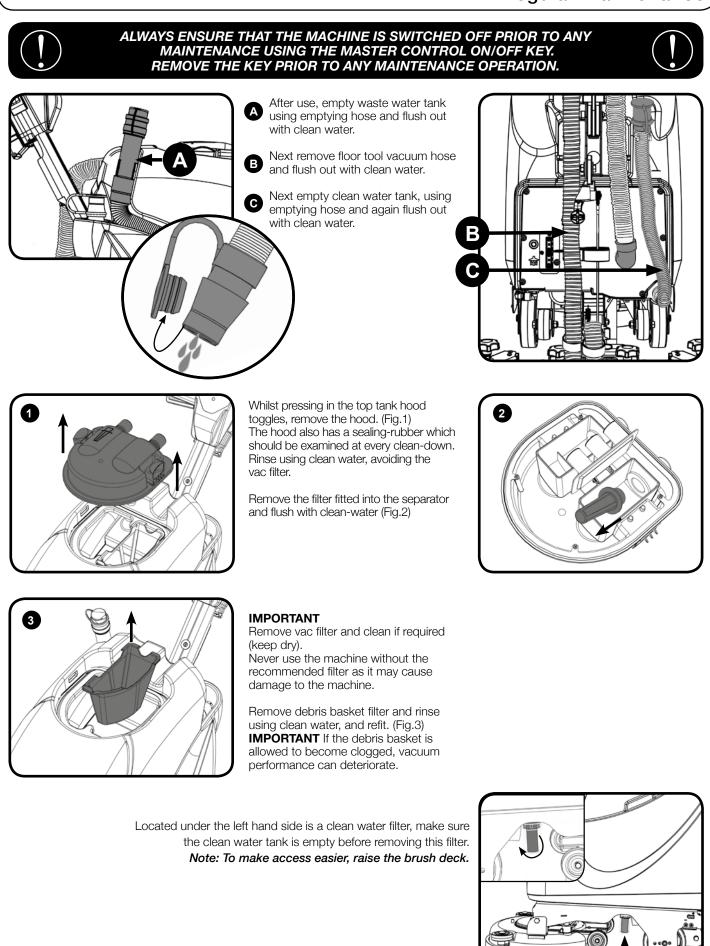
The waste water is then retrieved by the suction floor tool. Overlap each scrubbing path by 10cm to ensure an even clean. Do not operate the machine on inclines that exceed (2%), when full.

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.

If streaking occurs wipe floor tool blades clean.

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

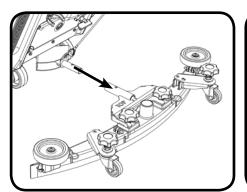
Regular Maintenance

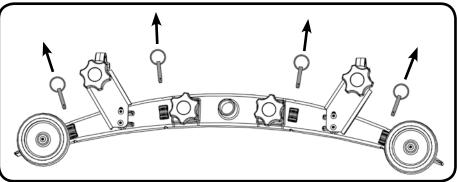


Changing the Floor Tool Blades

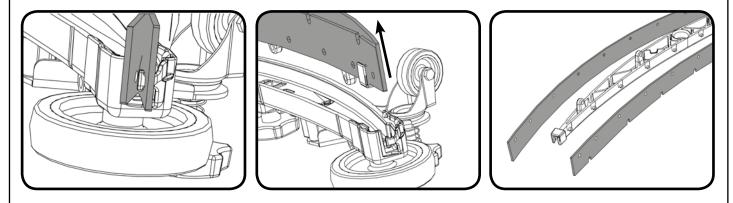


Always ensure that the machine is switched off prior to any maintenance.





To clean the floor tool, remove securing-pin and pull-free from the holder. Rinse the floor tool assembly with clean water and refit.

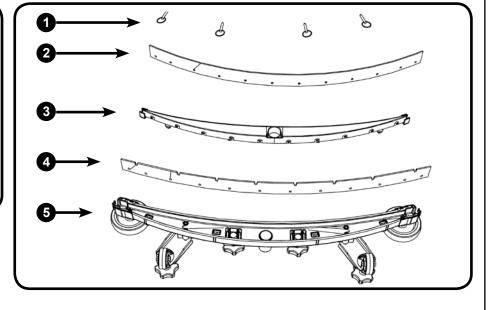


Periodically the floor tool blades should be examined and checked for wear and damage. The blade removal is easy. Simply start by removing the four retaining pins, turn the floor tool over and separate the blade carrier from the body. Peel away the blades from their locating lugs and examine or renew as required. Replacement is a reversal of the removal process.

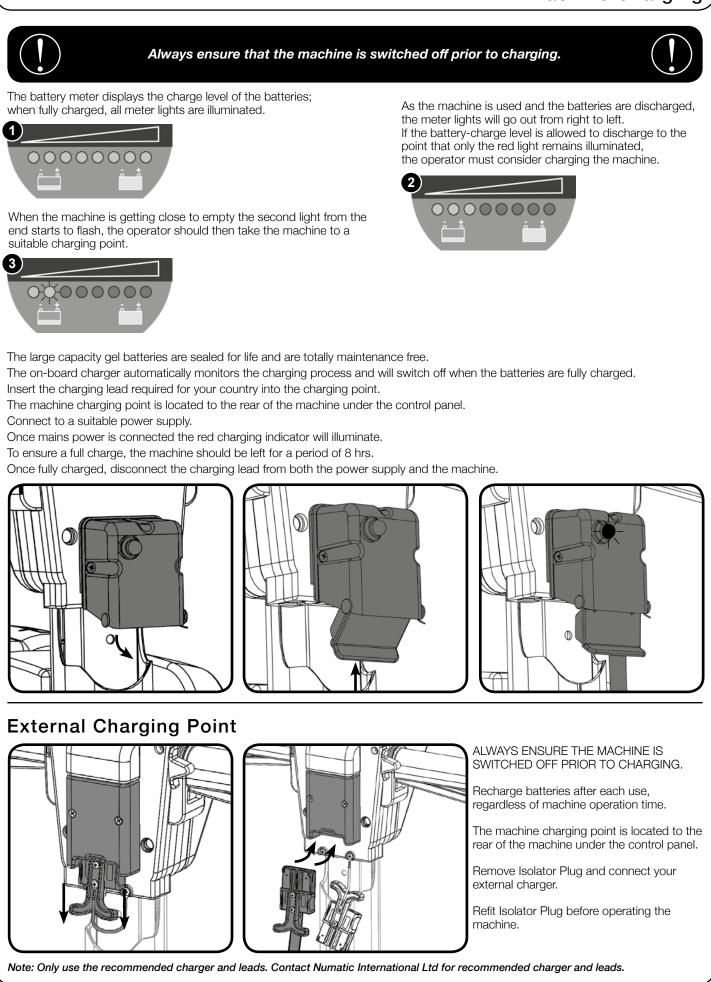
Floor Tool Overview

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

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



Machine Charging



Battery Care



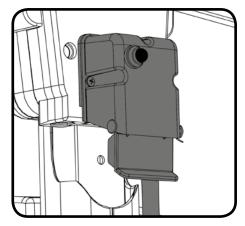
To ensure your machine remains at its maximum efficiency and prolong your battery life, please follow the simple steps below:



UNDER NORMAL DAILY USAGE:

Re-charge the machine FULLY after each use regardless of machine operation time. Do not leave the machine in a discharged state.





Periodicly inspect the battery connectioins for tightness and corrosion

Charging Light Sequence

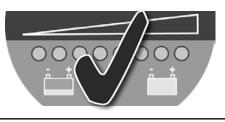
HGB 3045/55, HBG 3045/55 TGB 3045/55 Signal (LED) Meaning Red LED on First Phase (Constant Current Mode) Yellow LED on Second Phase (Constant Voltage Mode) Green LED on Third Phase (Constant Voltage Mode) Charge Complete Charging System Error Red LED flashing Unsuitable battery or charging malfunction safety timer exceeded Internal short circuit, disconnect from power supply, switch power supply, followed by Pause OFF then ON, to restart the charging cycle Yellow LED flashing Battery not connected TGB 4045/100, 4055/100, 4055/100T Re-charge the machine fully after its last use. Do not leave the machine in a discharged state.

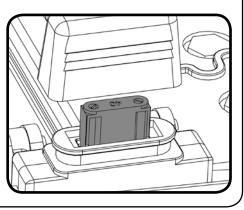
Under abnormal use;

I.e. leaving the machine without charging for a period of time, we advise that you follow these steps:

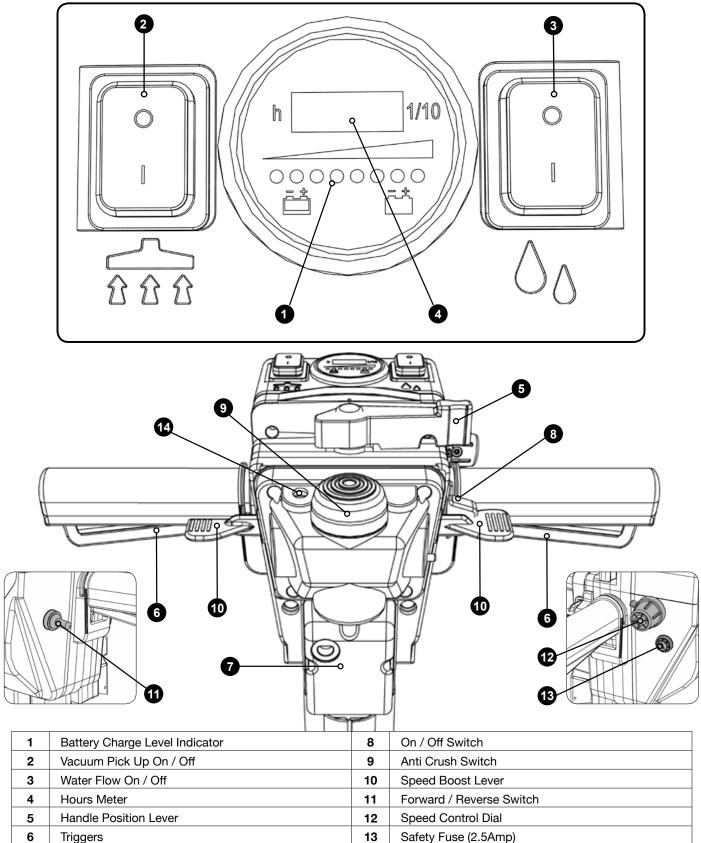
If the machine will be standing unused for a period of 30 days or more, then batteries must be fully charged and battery fuses removed using the maxi fuse-puller provided, prior to this period.

Batteries should be re-charged every three months. Charge fully the day before you start using the machine again.





BATTERY SCRUBBER DRYER, TRACTION DRIVE TGB 4055/100T Control Panel Overview





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Traction Status LED

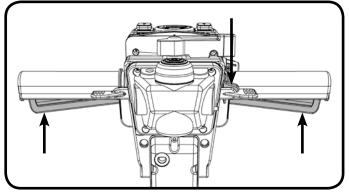
Charging Point

7

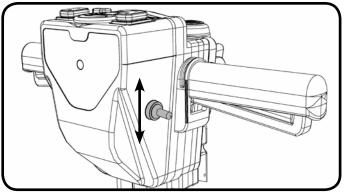
This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures. This Machine is only for use in an Industrial environment.



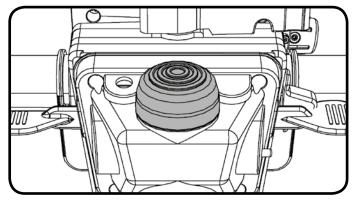
Machine Operation

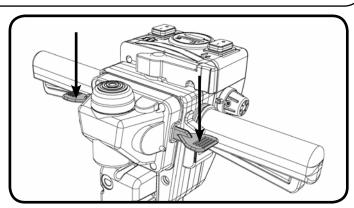


To start: hold either trigger and press the Yellow On / Off Switch once to start the machine.

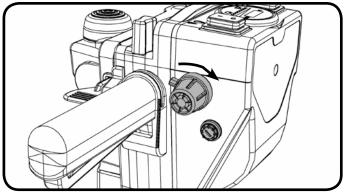


Direction is controlled using the direction switch fitted to the left side of the handle





For a speed boost when moving the machine press the grey fast moving lever down.



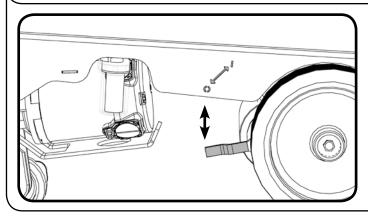
The speed is controlled by the speed control knob fitted to the right hand side of the handle

Anti Crush Switch

This machine is fitted with an Anti Crush Switch, instantly stopping and moving the machine forward if accidentally reversed into the operator.

Note: To drive machine in "Transport Mode" hold down both triggers.

Free Wheel Function



Located on the left side of the machine is the Free Wheel lever. To disengage the brake / drive mechanism, push the lever down. This allows the machine to be moved in free wheel mode.

Note: When the machine is in free wheel mode the brake has been disengaged, avoid slopes.

Specifications

HGB 3045/55, HBG 3045/55, TGB 3045/55									
BRUSH WEIGHT	29.0 kg	GROSS WEIGHT (i.e. with liquid)	120 kg						
BRUSH PRESSURE	21.7 g/cm ²	NETT WEIGHT (i.e. NO liquid)	90 kg						
PAD PRESSURE	23.1 g/cm ²	POWER SOURCE	GELL BATTERY 24 VOLT (2 x 12V) 55Ah						
CLEANING AREA	800m²/HOUR @ 2 kph	RUN TIME (BATTERY LIFE)	1 HRS 30 MINS						
BRUSH MOTOR POWER	300W	RECHARGING TIME	10 HRS (Option for external charger)						
BRUSH SPEED	100 rpm	INTERNAL CHARGER INPUT	235W						
BRUSH DIA	450mm	INTERNAL CHARGER OUTPUT	5A DC						
PAD DIA	400mm	BATTERY WEIGHT (TOTAL)	37.6 Kg						
VAC MOTOR MAX. POWER	400W	HEIGHT	1100mm						
VAC MOTOR - SUCTION @ SQUEEGEE	120 mbar	LENGTH	890mm (1065mm)						
VAC MOTOR - AIRFLOW @ SQUEEGEE	25.0 l/sec	WIDTH	470mm (805mm)						
WATER CAPACITY	30L	SQUEEGEE LENGTH	805mm						
WATER FLOW - AVERAGE	0-2 l/min	SOUND PRESSURE LEVEL	≤70 dB(A)						
DRIVE MOTOR POWER/DRIVE SPEED	N/A	VIBRATION LEVEL	HAV ≤1.0 m/s²						
WATER INGRESS PROTECTION	IPX4	MAX GRADIENT	2%						

	TGB 4045/100, TGB	3 4055/100, TGB 4055/10	ОТ
BRUSH WEIGHT	TGB4045 - 24-45KG TGB4055 - 32-48Kg TGB4055T - 32Kg	GROSS WEIGHT (i.e. with liquid)	TGB4045 - 100Ah: 168kg, 80Ah: 159kg TGB4055 - 100Ah: 169.5kg, 80Ah: 160.5kg TGB4055T - 100Ah: 179.5kg, 80Ah: 170.5kg
BRUSH PRESSURE	TGB4045 - 17-33g/cm ² TGB4055 - 19-28g/cm ² TGB4055T - 19g/cm ²	NETT WEIGHT (i.e. NO liquid)	TGB4045 - 100Ah: 128kg, 80Ah: 119kg TGB4055 - 100Ah: 129.5kg, 80Ah: 120.5kg TGB4055T - 100Ah: 139.5kg, 80Ah: 130.5kg
PAD PRESSURE	TGB4045 - 19-35g/cm ² TGB4055 - 16-24g/cm ² TGB4055T - 16g/cm ²	POWER SOURCE	GELL BATTERY 24 VOLT (2 x 12V) 100Ah / 80Ah
CLEANING AREA	TGB4045 - 800m²/Hr @ 2kph TGB4055 - 970m²/Hr @ 2kph TGB4055T -970m²/Hr @ 2kph	RUN TIME (BATTERY LIFE)	2 Hrs 25 Mins
BRUSH MOTOR POWER	300W	RECHARGING TIME	8 Hrs (Option for external charger)
BRUSH SPEED	100 rpm	INTERNAL CHARGER INPUT	350W
BRUSH DIA	TGB4045 - 450mm TGB4055 - 550mm TGB4055T - 550mm	INTERNAL CHARGER OUTPUT	10A DC
PAD DIA	TGB4045 - 400mm TGB4055 - 508mm TGB4055T - 508mm	BATTERY WEIGHT (TOTAL)	80Ah : 54.5kg, 100Ah: 63.5kg
VAC MOTOR MAX. POWER	400W	HEIGHT	TGB4045 - 1160mm TGB4055 - 1160mm TGB4055T - 1160mm
VAC MOTOR - SUCTION @ SQUEEGEE	120 mbar	LENGTH	TGB4045 - 1070mm (1155mm) TGB4055 - 1115mm (1200mm) TGB4055T - 1115mm (1200mm)
VAC MOTOR - AIRFLOW @ SQUEEGEE	24.2 L/sec	WIDTH	TGB4045 - 470mm (805mm) TGB4055 - 560mm (805mm) TGB4055T - 560mm (805mm)
WATER CAPACITY	40L	SQUEEGEE LENGTH	805mm
WATER FLOW - AVERAGE	0-2 l/min	SOUND PRESSURE LEVEL	≤70 dB(A)
DRIVE MOTOR POWER/DRIVE SPEED	TGB4055T - 250W	VIBRATION LEVEL	HAV ≤0.59 m/s²
WATER INGRESS PROTECTION	IPX4	MAX GRADIENT	TGB4045/4055- 2%, TGB4055T - 9%

About the Machine

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

WEEE (Waste, Electrical and Electronic Equipment)

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 2012/19/EU 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	
	(B)			
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:

Charging Leads: H05VV-F x 1.0 mm² x 3 Core Battery Charger: 220 / 240 Volt In the event of a breakdown contact your Numatic dealer or the Numatic Technical help line +44 (0)1460 269268

	JAL BEFORE USE	I	nformation for Scrubber Dry					
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	Filters BEFORE EACH USE Clogging and debris rete							
Tanks		AFTER EACH USE	Rinse dirty water tank after use					
preventative mainter	nance is carried out perio	odically in order to ensure its safe						
could render this eq ARNING When ordering spar	quipment unsafe and the re parts always quote the	ary, including the replacement of pa manufacturer can accept no resp e Model Number / Serial Number 9 % for non traction machines and 9	ionsibility or liability in this respect. specified on the Rating Plate.					
	nd knowledge, unless th sponsible for their safety nsure that they do not pla	ay with the appliance.						
y use brushes provided with the use of other brushes may impa Il range of brushes and accesso y use brushes or pads which are	air safety. Dries are available for this		specific task being performed.					
	ensure that all necessary	d operated in accordance with cur / precautions are taken to guarant						
en cleaning, servicing or maintai	be positioned so that the ining the machine, replace	e mains plug is easily accessible. cing parts or converting to another	function the power source shall be switched off. erated machines shall be disconnected by removing the fuse					
rder to prevent unauthorised use chines left unattended shall be s en detergents or other liquids ar	ecured against unintenti		e.					
erators shall be adequately instru	ucted as to the correct u	ise of the machine.						
	ory installed Numatic bat	tery charger, then it is the respons	ibility of the owner and user of the product to ensure that the					
Do not use on surfa The machine is not This machine is for i Read the instruction	to be stored outdoors in	cceeding that marked on the appli wet conditions. e appliance.	ance.					
ES: This machine is also suita ces for other than normal ho			ols, hospitals, factories, shops and					
Keep your machi	petent persons unpack/a ine clean. es in good condition.	assemble the machine.						
 Replace any work 	n or damaged parts imm	nediately. mage, such as cracking or ageing	. If damage is found.					
replace the cord	before further use.							
 Ensure that the w 	vork area is clear of obsti vorking area is well illumir	rect Numatic approved replaceme ructions and / or people. nated.	ni paris.					
 Attempt machine 	ers or pressure washers maintenance or cleanin rienced repairs. Call the	to clean the machine or use in the gunless the power plug has beer experts.	e rain. I removed from the supply outlet.					
 Strain cable or try Leave the brush 	y to unplug by pulling on pad on the machine whe	cable.	or without appropriate training.					
 Use the machine Expect the mach 	without the solution tank ine to provide trouble-fre	ks properly positioned on the mac ee, reliable operation unless mainta	hine, as shown in the instructions.					
 Run the machine 	over power cable during	g operation.						



ORIGINAL INSTRUCTIONS READ MANUAL BEFORE USE

Information for Scrubber Dryer

Precautions when working with batteries

- Always wear protective clothing e.g. face visor, gloves and overalls when working with batteries.
- 2. Whenever possible always use a properly designated and well-ventilated area for charging.
- Do not smoke or bring naked flames into the charging area.
- З. Remove any metallic items from hands, wrists and neck i.e. rings, chains etc. before working on a battery.
- Never rest tools or metallic objects on top of the battery. 4.
- When charging is complete disconnect from the mains supply. 5. 6 The batteries must be removed from the machine before it is scrapped.
- The machine must be disconnected from the supply when removing the battery.
- 8. To remove the batteries:- Disconnect machine from the mains supply (if charging) and ensure batteries are switched off with circuit disconnect switch (see page 19). Disconnect hoses from separator and tanks. Remove separator and tanks. Unscrew battery strap fixings and remove.
- Undo battery terminals and remove. Remove batteries.
- 9 The batteries are to be disposed of safely and in accordance with the battery directive.
- 10. Only use genuine Numatic replacement batteries.
- Do not allow the batteries to become fully discharged; it may not be possible to re-charge them. 11.
- Batteries should not be discharged below 9.5 volts with 10 amps flowing.
- Do not allow one battery to be discharged separately to the other. 12.
- 13. Do not mix batteries from different machines.
- The batteries fitted to this product are Valve Regulated Lead Acid (VRLA) gel electrolyte type. 14. The fitting of any other type of battery may cause a safety hazard.

- Battery Care
 1. Always re-charge the batteries after use. This can be done at any time its not necessary to wait until they are fully discharged; they do not develop a "memory".
- ng be Mainten The Intenance Leaving the charger to operate for a minimum of 4 hours after the green light has come on, at least weekly, will prolong battery life. 2
- 3 Do not store the machine with the batteries discharged.

Daily

Keep the machine clean. Ensure brushes/ pads/ squeegee/ filters are in good condition. Check for any worn or damaged parts and replace immediately. Drain and rinse dirty water tank after every use. Store machine with brush deck secured in tilted position.

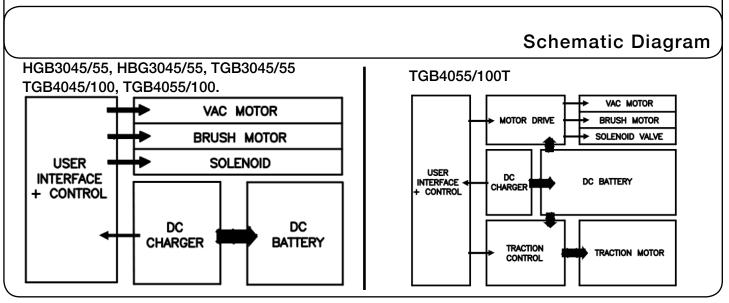
Weekly – as daily and –

Check brush or pad and skirt and rinse. Check floor tool blades for wear and wipe clean. Clean separator assembly including filter and check condition of seal. Flush out system with clean water and clean filters. Do not steam clean or pressure wash.

Batteries

Always re-charge the batteries after use. Charge for a minimum of 4 hours after the green light has come on, this will prolong battery life.

Battery Model	Battery Weight	Battery Dimensions
Sonnenschein	18.48 Kg	278mm x 175mm x 190mm
MK Battery	31.8 Kg	327.5mm x 169mm x 218mm



Spare Parts

Part No.	BRUSHES	Part No.	HOSES
606028	550 mm Polyscrub Brush	903341	Hose Closure (Bottom Tank)
606550	550 mm Nyloscrub Brush	903341	Hose Closure (Filling Hose)
606551	550 mm Long Life Brush	900903	Hose Closure (Top Tank)
900526	500 mm NuLoc2 Drive Board	Part No.	GENERAL PARTS
606203	450mm Polyscrub Brush	221091	20 Amp Maxi Fuse (VAC)
606204	450mm Nyloscrub Brush	230104	30 Amp Maxi Fuse (Brush)
606306	450mm Longlife Brush	221047	40 Amp Maxi Fuse (Battery)
900525	400mm NuLoc2 Drive Board	221107	50 Amp Maxi Fuse (Battery Traction)
Part No.	SQUEEGEE	903066	2.5 Amp Handle Fuse
903281	Red Squeegee Knob	903736	24v Contactor
215006	Squeegee Castor Wheel	903542	Grit Filter Basket (Red)
606319	Squeegee Castor Assembly Set	208888	(CWF) Clean Water Filter (Complete)
900518	Squeegee 650 Blade Set	208827	CWF Strainer Base Moulding
903486	Complete 650 Squeegee Assembly	208830	CWF Strainer Gasket
900519	Squeegee 750 Blade Set	208889	CWF Extended Strainer 50 Mesh Screen
904699	Complete 750 Squeegee Assembly	208890	CWF 68mm Extended Strainer Clear Bowl
206953	Detent Pin	208638	160mm Rear Wheel
		220386	Charging Lead (V17 - UK)

Trouble Shooting

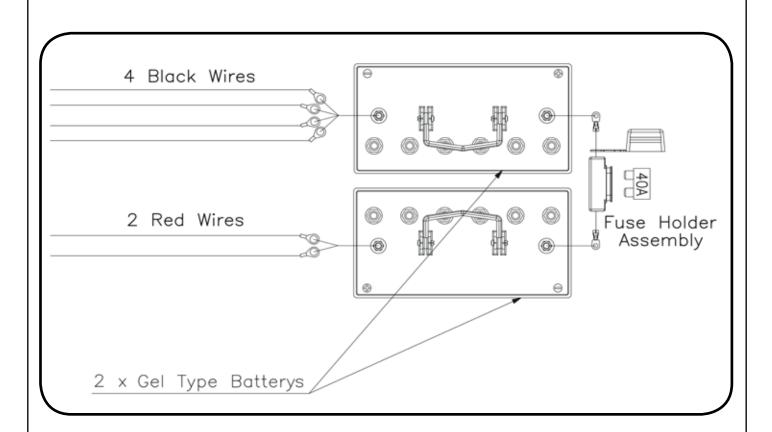
PROBLEM	CAUSE	SOLUTION
Machine will not operate	Missing or blown fuses Low battery charge Machine is connected and charging	Fit or replace fuse (page 5) Charge batteries (page 13 / 14) Take off charge (page 13)
Vacuum will not operate	Waste water tank full Check fuse	Empty waste water tank (page 11) Check fuse (page Page 5)
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 Low battery charge	Empty waste water tank (page 11) Remove and clean (page 11) Push tight connections (page 7) Remove and clean (page 11) Remove and clean (Page 11) Clean and refit (page 11) Renew (contact service dept) Renew (contact service dept) Renew (contact service dept) Renew (contact service dept) Re-charge batteries (page 13 / 14)
No brush / scrub function	No brushes fitted Check fuse	Check and fit (page 6) Check fuse (page Page 5)
Little or no water flow	Clean water tank empty Clean water tank filter blocked / clogged Water flow not on Brush deck raised	Fill clean water tank (page 7) Remove and clean (11) Switch on water flow (Page 9) Lower brush deck (page 9)
Machine just 'stops' while operating	Too much load on the brush system	Decrease the brush load to best suit the floor type.

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

TGB 4055T Fault Codes

If Fault Persists	Contact Service Agent																
Action Required	Charge batteries immediately	Tighten loose connections and replace damaged components	Replace batteries as required	Replace charger	Tighten loose connections and replace damaged	COLIDOLIEILS			and controller	Charge batteries immediately			Tighten loose connections and replace damaged components	Replace brake or wiring as necessary. Reactivate brake by engaging brake lever			
Investigate the Following	Check when machine last charged	Switch OFF the machine : Remove Fuses Check connections to batteries, charger and fuses for loose wires or screws	Check each battery Voltage individually to detect defect unit 10.5V min	Check battery voltage and charge current ensuring charger red fault light is extinguished	Check all connections and leads between motor and controller				Check all connections and leads between the motor and controller	Check battery voltage and charge current ensuring charger red fault light is extinguished	Check each battery voltage individually to detect defect unit 10.5V min	Remove charger to operate machine	Check all connections and leads	Check brake wiring and brake lever	Check each battery Voltage individually to ensure voltage < 14 volts	Check connections on controller batteries and traction motor	Check combined battery pack voltage is < 28 volts
Effect on Product	Operating time	severely reduced or machine will not operate			The motor will not operate		Motor will not operate	Machine functions not working		Machine functions not working	Machine functions not working	Traction drive disabled	Machine functions not working				
Possible Cause	Batteries not been charged	Possible bad connection between batteries, controller, charger or fuses caused by loose connections, damaged wiring, water ingress	Not accepting charge due to faulty battery / cell	Charger not functioning	The motor has a bad connection	nas a bad onnected ted ut Out) t to open circuit		The motor has a short circuit to a battery	The battery charge level has fallen below the	battery lockout level and the controller is inhibiting machine functions	The controller is being inhibited from driving, this may be because the battery charger is connected	A controller trip is indicated	Poor brake connections Brake failure or deactivation	Poor connections between battery controller and			
Fault	Batteries voltage	\$			Traction motor disconnected	Traction motor disconnected		Traction motor wiring trip	wiring trip Battery Lockout		Charger connect- ed	Controller trip	Brake deactivated or failed	High battery voltage			
Green Status Indicator	1 Flash with pause	•			2 Flashes with pause ● ●				3 Flashes with pause ● ● ●	4 Flashes with pause ● ● ● ●		6 Flashes with pause	8 Flashes with pause	9 Flashes with pause	10 Flashes with pause		

Battery Wiring Diagram



For optimum performance Numatic International Ltd recomend the use of the following batteries in the Twintec machines.

Machine	Numatic Recommended Battery	Numatic Number
TGB 3045 Less Battery	Sonnenschein Battery - 55A/h Stud Terminal Gel Type - Suppliers Ref: GF 12 050V	901161
HGB 3045 Less Battery	Sonnenschein Battery - 55A/h Stud Terminal Gel Type - Suppliers Ref: GF 12 050V	901161
HBG 3045 Less Battery	Sonnenschein Battery - 55A/h Stud Terminal Gel Type - Suppliers Ref: GF 12 050V	901161
TGB 4045 Less Battery	MK Battery - 98A/h Stud Terminal Gel Type - Suppliers Ref: E31 SLD G ST	205112
TGB 4055 Less Battery	MK Battery - 98A/h Stud Terminal Gel Type - Suppliers Ref: E31 SLD G ST	205112
TGB 4055T Less Battery	MK Battery - 98A/h Stud Terminal Gel Type - Suppliers Ref: E31SLD G ST	205112

Make	Voltage	Capacity	Weight	Size
Sonnenschein	12 V	55 A/h	18.48 Kg	278mm x 175mm x 190mm
MK Battery	12 V	98 A/h	31.8 Kg	327.5mm x 169mm x 218mm

EU Declaration of Conformity

EU DECLARATION OF CONFORMITY

We hereby declare under our sole responsibility that the following equipment fulfils all the relevant provisions of the following EU Directives

Machinery Directive 2006/42/EC EMC Directive 2014/30/EU RoHS Directive 2011/65/EU

CE 17

Machine Description: Scrubber Dryer Machine Type: TTB, ETB, TGB, HGB, HBG Series.

Relevant standards upon which conformity is declared include:

EN 60335-1: 2012 + A11:2014 EN 60335-2-72: 2012 EN 55014-1: 2006 + A1:2009 + A2:2011 EN 55014-2: 1997 +A1:2001 + A2:2008 EN 61000-3-2: 2014 EN 61000-3-3: 2013 EN 62233: 2008

A technical construction file for this equipment is retained at the manufacturer's address under the authorisation of the following signatory:

_	
Signed Date 29917	
Numatic International Ltd Chard Somerset TA20 2GB www.numatic.co.uk	3

Warranty



Numatic International Limited warrant to the original purchaser that its products are free of defects in both material or workmanship for the period shown below:-

Homecare and Cleancare Vacuum cleaners	2 Years
Rotary Floor Machines	2 Years
Twintec Auto Scrubber Dryer	1 Year
Vario Ride-On Scrubber Dryer 1 Year / 150	0 hours
Mopping, Compacts, Combi and Servocare Products	. 1 Year
Individual Accessories and Spare Parts	6 Months

Note: This warranty expressly excludes consumable parts such as carbon brushes, floor brushes, mops, batteries etc, that are considered replaceable from time to time during the normal working life of the machine.

A. The warranty period commences from the date the goods are purchased.

B. All warranty claims must be processed through the Dealer from whom the equipment was purchased. The Dealer will co-operate with the purchaser throughout the warranty claims procedure and will arrange any necessary repairs using genuine Numatic parts.

C. If the original Dealer is no longer able to fulfil his obligations please contact Numatic International Limited with full details of the claim and proof of purchase so that this may be processed without delay.

D. Any warranty claim can only relate to the specific part that is proven to be at fault and for which a replacement will be supplied but cannot be extended to constitute a claim against the complete machine.

E. Numatic International will supply the Dealer with any warranty parts required, subject to the claim being validated, after return of the faulty items in accordance with Numatic International Limited's General Conditions of Sale.

F. Claims will not be accepted if they are the result of fair wear and tear, misuse or abuse of any kind.

G. No replacement will be given unless the appropriate evidence of the validity of the claim has been provided to the satisfaction of Numatic International Limited.

H. Numatic International Limited reserve the right to charge for any unnecessary work carried out as a result of an invalid claim.

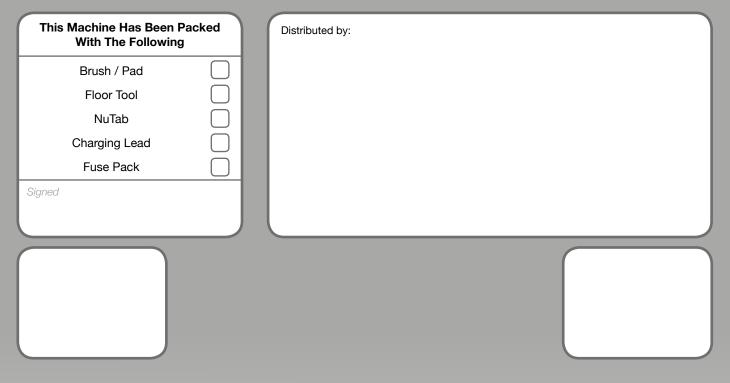
I. No variation to this warranty may be made or implied by any member of Numatic International Limited or its Dealers unless such variation is in writing and authorised by the Company



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This Product has been comprehensively inspected and checked during every stage of its manufacture. Including an in-depth electrical safety and functionality test.

Specification subject to change without prior notice www.numatic.co.uk © Numatic International Limited