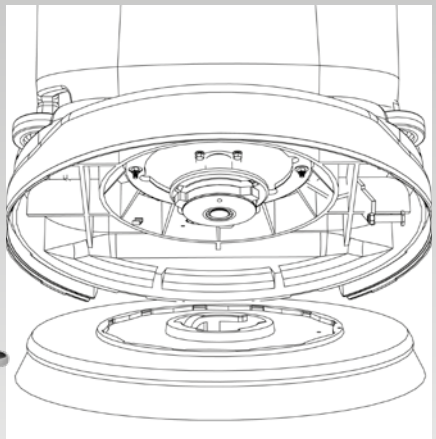
# HGB 3045 / 55
# HBG 3045 / 55
# TGB 3045 / 55
# TGB 4045 / 100
# TGB 4055 / 100
# TGB 4055 / 100T

## SCRUBBER DRYER



# Owner Instructions

**CAUTION, Read instructions before using the machine**

www.numatic.co.uk

# SCRUBBER DRYER

# HGB 3045/55, HBG 3045/55, TGB 3045/55, TGB 4045/100, TGB 4055/100, TGB 4055/100T.

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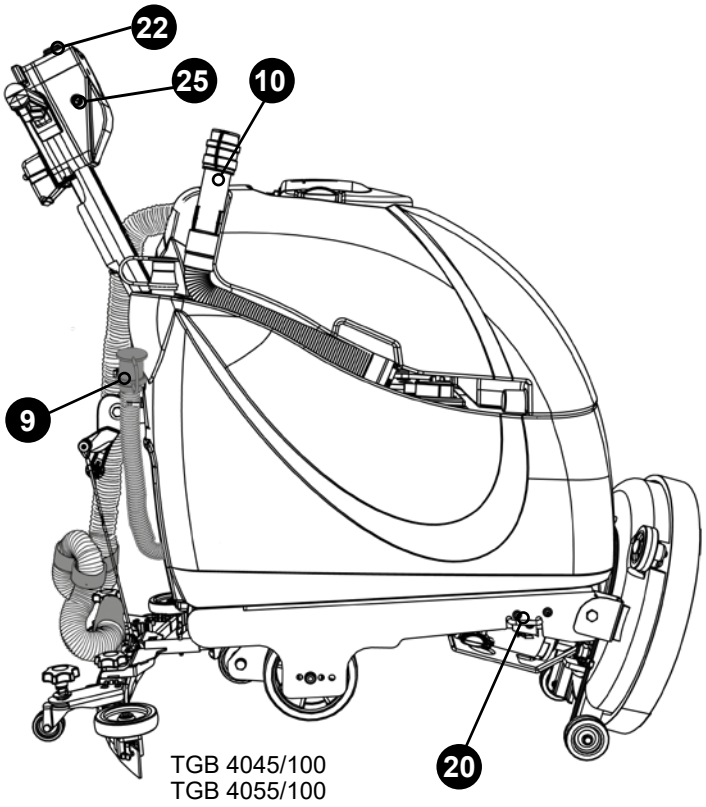
## PLEASE READ
### BEFORE COMMENCING OPERATION

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

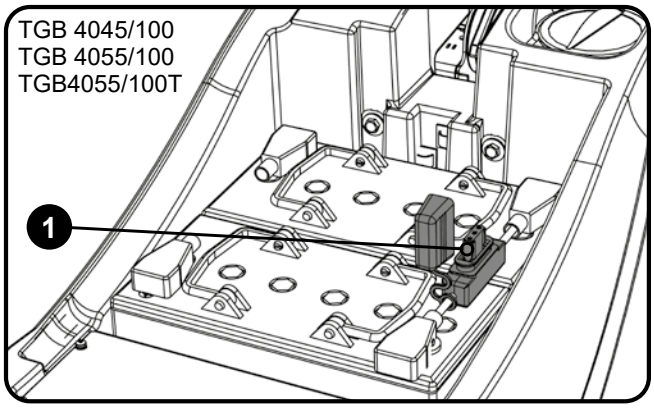
• Owner Manual • Battery Charging Lead
• 2 x Isolator Keys • 2 x 40 Amp Fuse
• 1 x 30 Amp Fuse • 1 x 20 Amp Fuse
• 1 x 2.5 Amp Fuse • Maxi Fuse-puller
• Traction Model 2 x 50 Amp Fuse

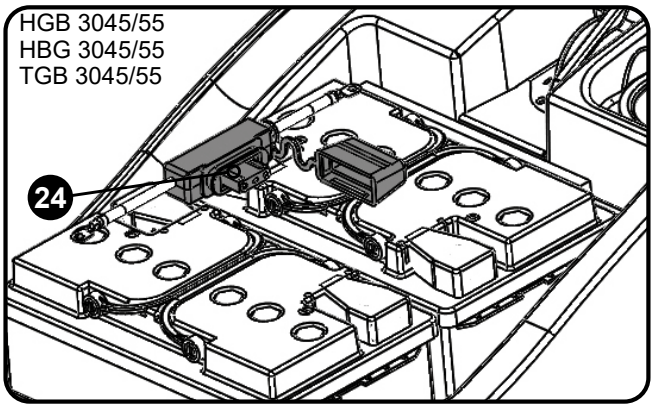
For Charger-less Model, all the above plus:
• 1 x Charger Connector
• 2 x Charger Connector Terminals
• 4 x Battery Terminal Connectors
• 1 x Fuse Holder

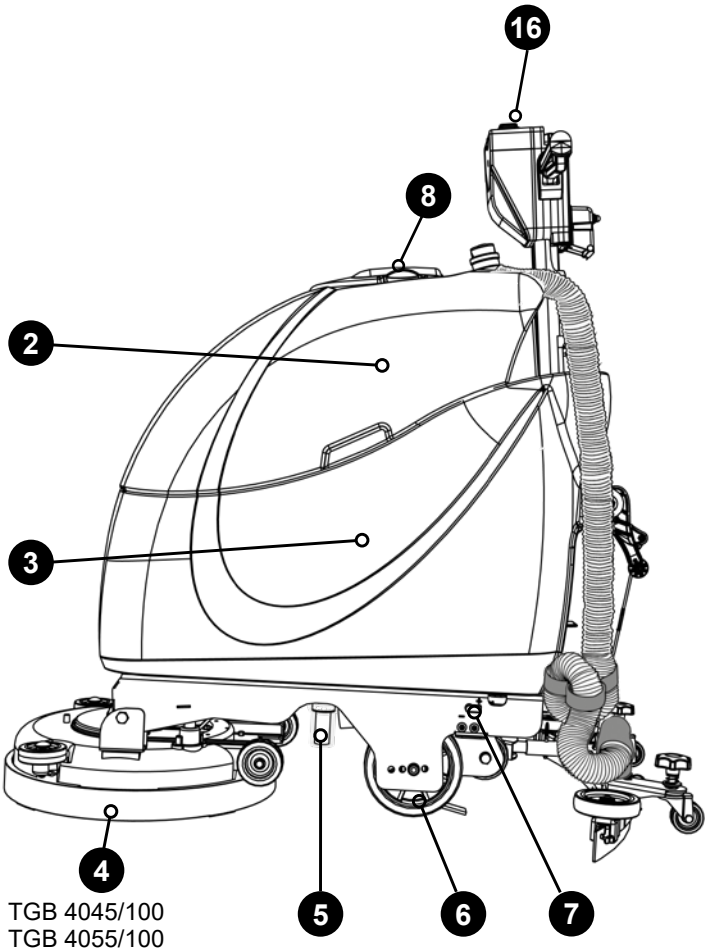
| | |
|---|---|
| 1 | TGB 4045/100, 4055/100 40 Amp & 4055/100T 50 Amp Battery Fuse |
| 2 | Top Tank (Waste Water) |
| 3 | Bottom Tank (Clean Water) |
| 4 | Brush Deck |
| 5 | Clean Water Tank Filter |
| 6 | Rear Wheels |
| 7 | Clean-Water On/Off Tap |
| 8 | Separator |
| 9 | Clean-Water Emptying Hose |
| 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 | HGB 3045/55, HBG 3045/55, TGB3045/55 40 Amp Battery Fuse |
| 25 | Safety Fuse 3045/55, 4045/100, 4055/100, 4055/100T 2.5 Amp Fuse |



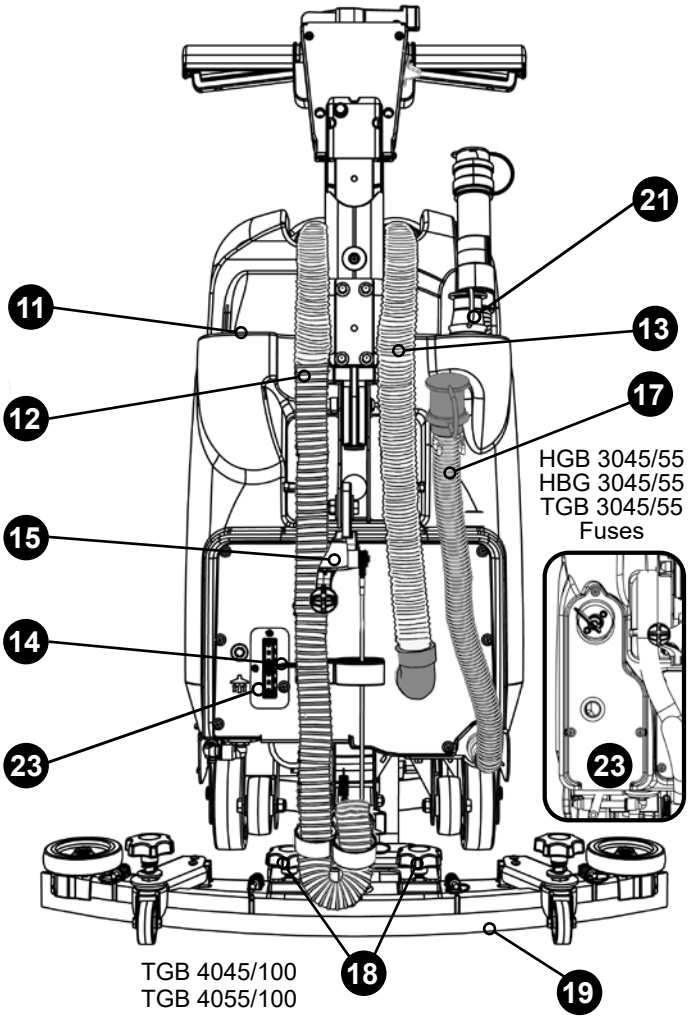

TGB 4045/100
TGB 4055/100




TGB 4045/100
TGB 4055/100

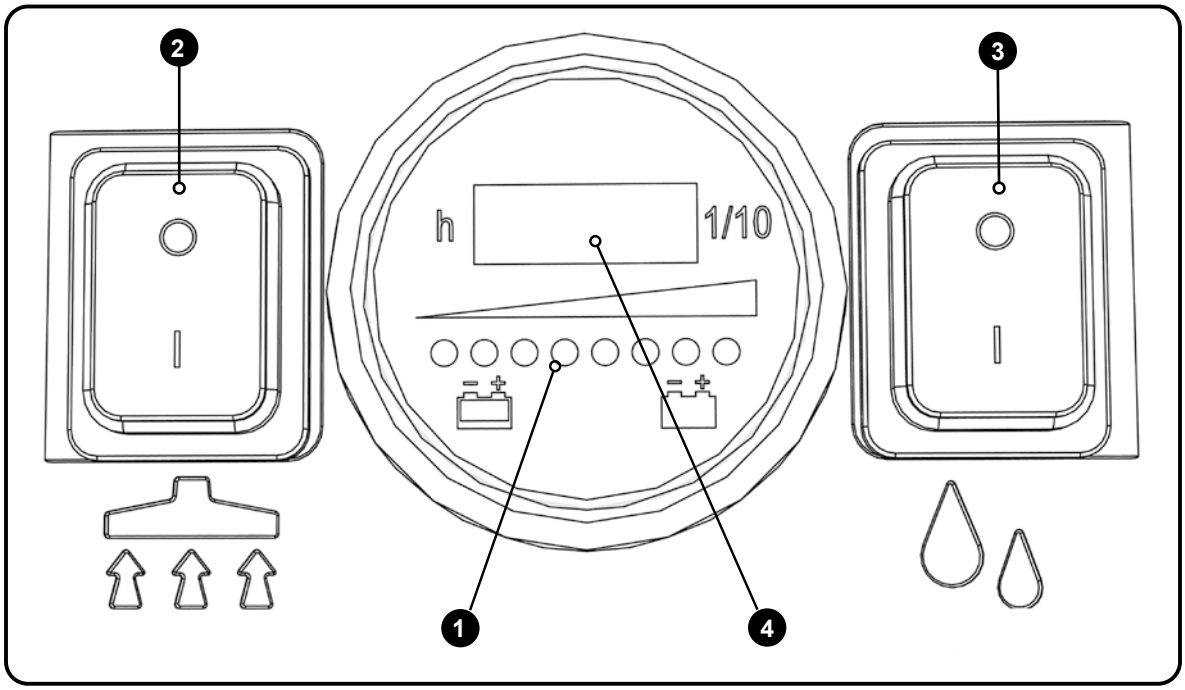


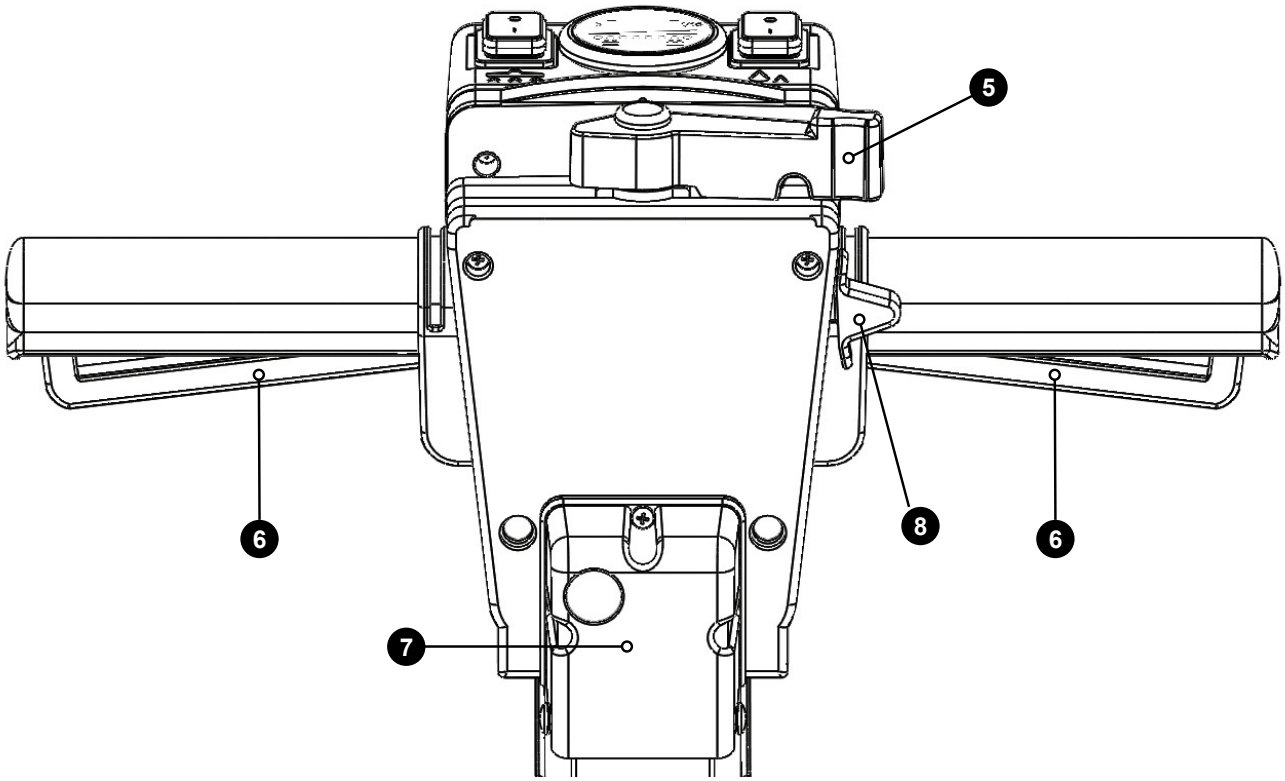

TGB 4045/100
TGB 4055/100

SCRUBBER DRYER

# HGB 3045/55, HBG 3045/55, TGB 3045/55, TGB 4045/100, TGB 4055/100, TGB 4055/100T.

Control Panel Overview




| | |
|---|---|
| 1 | Battery Charge Level Indicator |
| 2 | Vacuum Pick Up On / Off |
| 3 | Water Flow On / Off |
| 4 | Hours Meter |
| 5 | Handle Position Lever |
| 6 | Triggers |
| 7 | Charging Point |
| 8 | On / Off Switch |

***In the event of a breakdown contact your Numatic dealer or the Numatic Technical help line +44 (0)1460 269268***

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

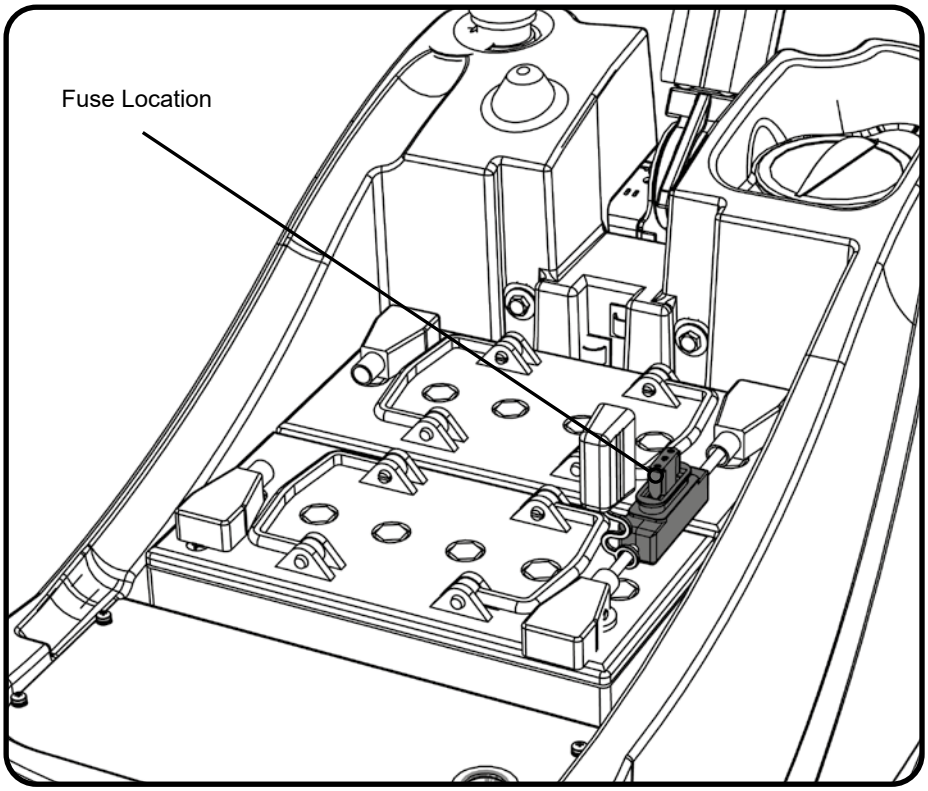
## CONTENTS

- 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

For Charger-less Model,

all the above plus:

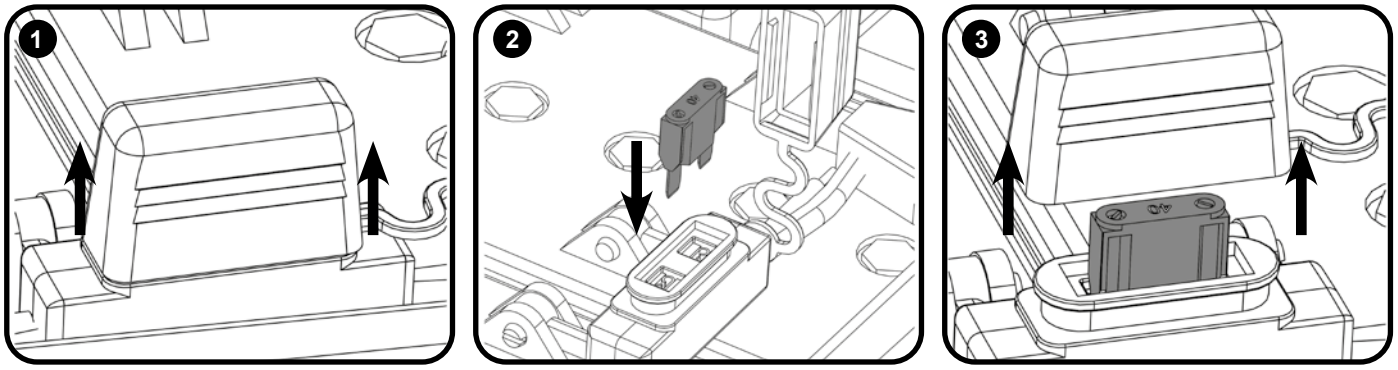
- 1 x Charger Connector • 2 x Charger Connector Terminals • 4 x Battery Terminal Connectors • 1 x Fuse Holder




Lift off top tank assembly to reveal battery compartment.
Fit battery fuses (contained in start-up pack) into the battery fuse holder as illustrated.

Fit the isolator key and switch the machine on (See below, TGB 4045/100, 4055/100, 4055/100T (Fig. A)
HGB 3045/55, HBG 3045/55 & TGB 3045/55 (Fig.D)

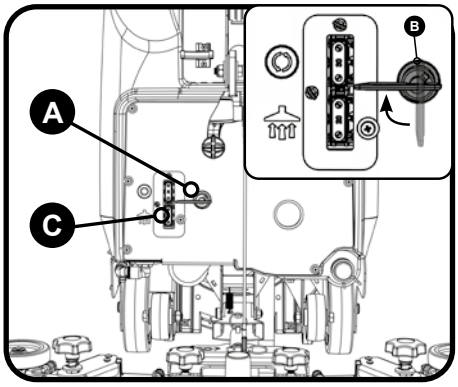
**Note: Wear suitable gloves when inserting fuses.**




Less Battery Models - Numatic International Ltd recommends using Sonnenschein batteries for 3045 machines and

MK Batteries for 4045 and 4055 in the machines mentioned in this manual. For full battery specifications see page 22.

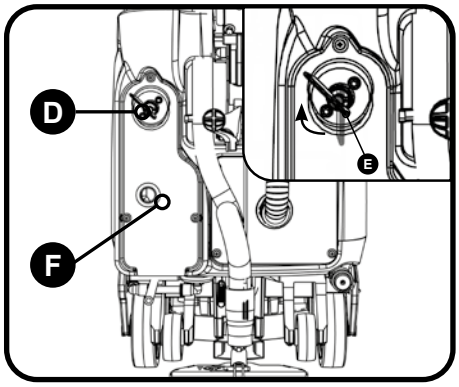
**Ensure that no metal objects come into contact with battery terminals while the batteries are exposed. When inserting the first fuse you may notice a spark, this is normal.**




Insert the Isolator key and switch the machine on.

TGB 4045/100, 4055/100, 4055/100T
Isolator Key (Fig. A, B) Vac & Brush Fuses (Fig.C)

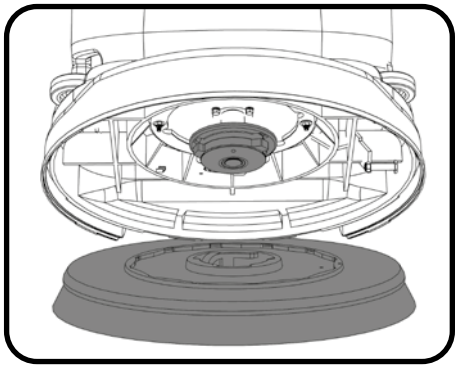
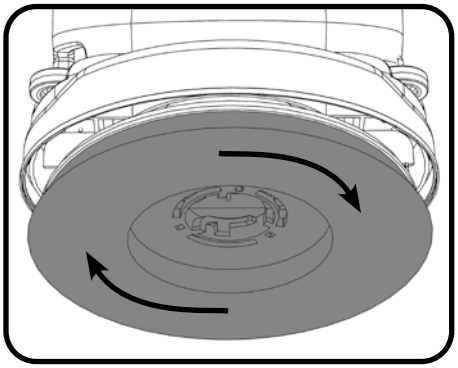
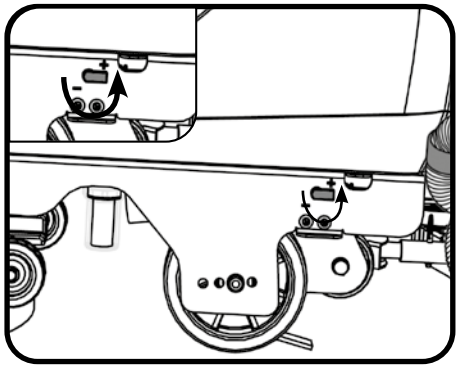
HGB3045/55, HBG3045/55, TGB3045/55
Isolator Key (Fig D, E)
Vac & Brush Fuses behind cover plate (Fig.F)



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

## Fitting the Brush / Pad / Turn on water

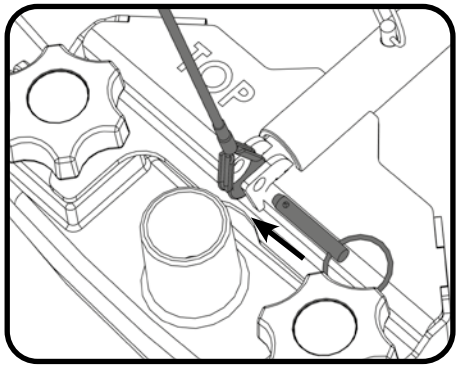
450mm / 550mm Brush or a Pad.
Featuring the Nulock brush system.
The brush is simply pushed and twisted to lock, making fitting and removal a simple process.
Slide the brush / pad under the brush deck.
Fit the brush / pad onto the Nulock drive chuck, twist to lock the brush / pad in place.
Safety gloves are recommended for the changing of used brushes.
Turn on the clean water tap.

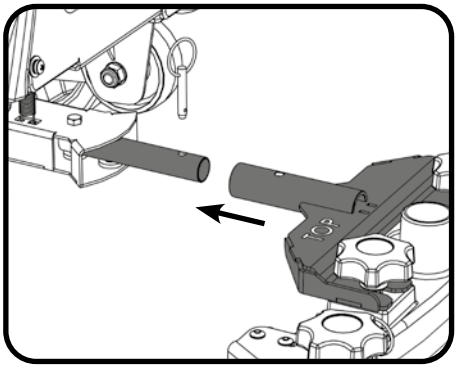
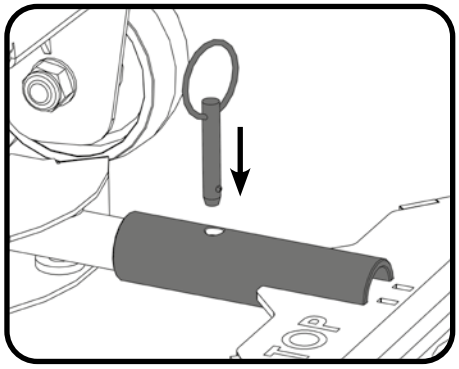




## Fitting the Floor Tool

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.**



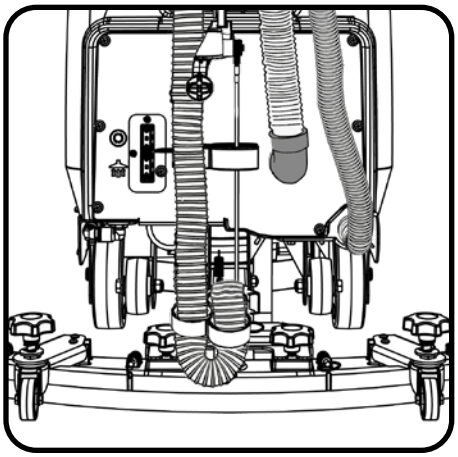
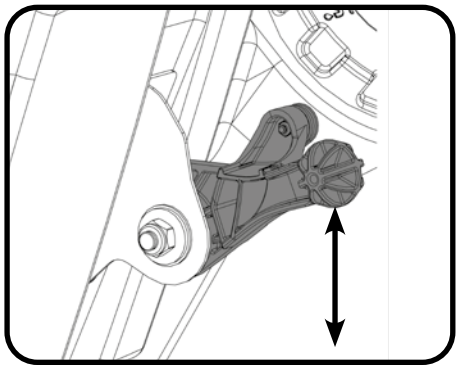



Fit the floor tool and retain using the detent pins.

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

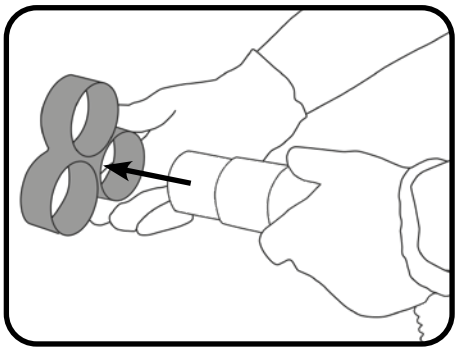
Raise the floor tool for transit or lower for cleaning operation using the lifting handle fitted to the back of the machine.

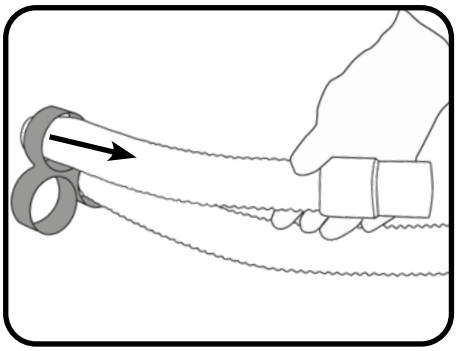
For fitting the floor tool blades (See Page 12).

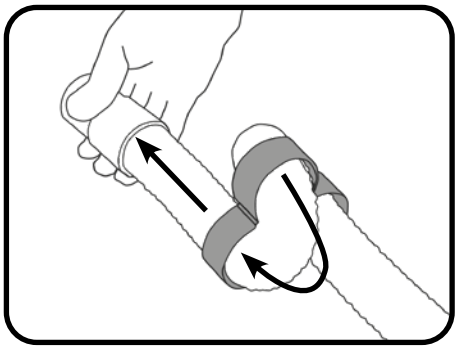
## Fitting the Hose Guide

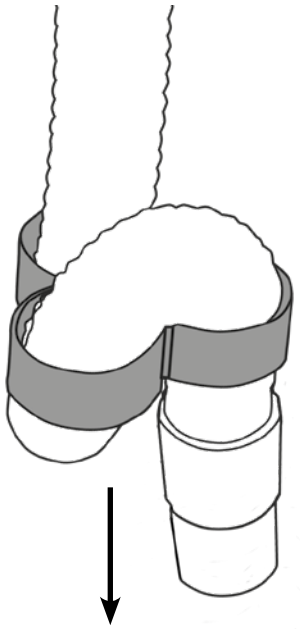
The vacuum hose has a U-bend clip which creates a U-bend in the hose preventing water spillage when the vacuum is switched off. If you need to remove the U-bend clip for any reason always ensure it is refitted correctly before you resume operation.





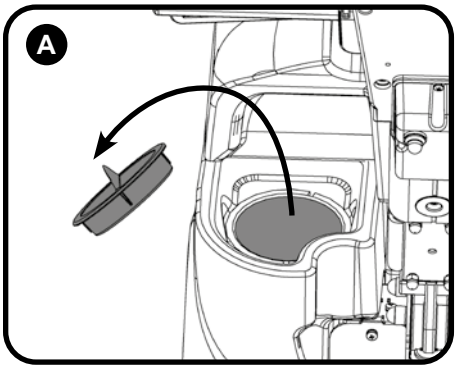
**Note: DO NOT push the vacuum hose onto the floor tool with the floor tool in the raised position.**

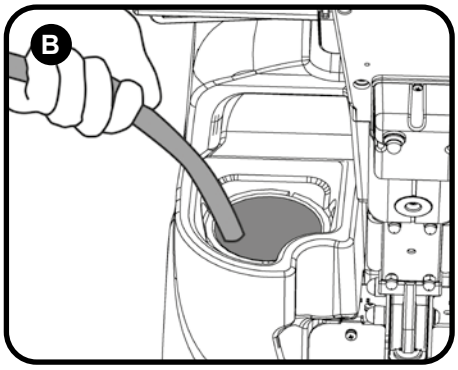


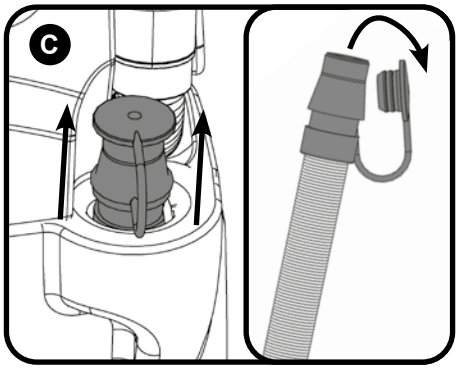


Refit vacuum hose to the Floor tool when finished.

## Filling the Clean Water Tank



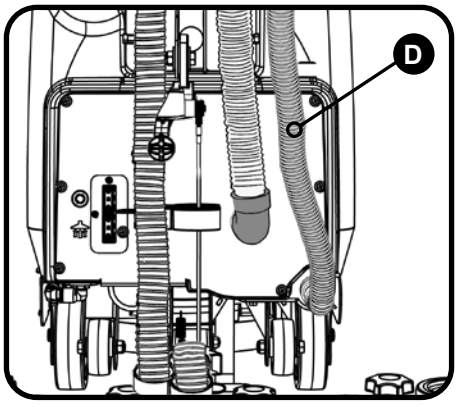



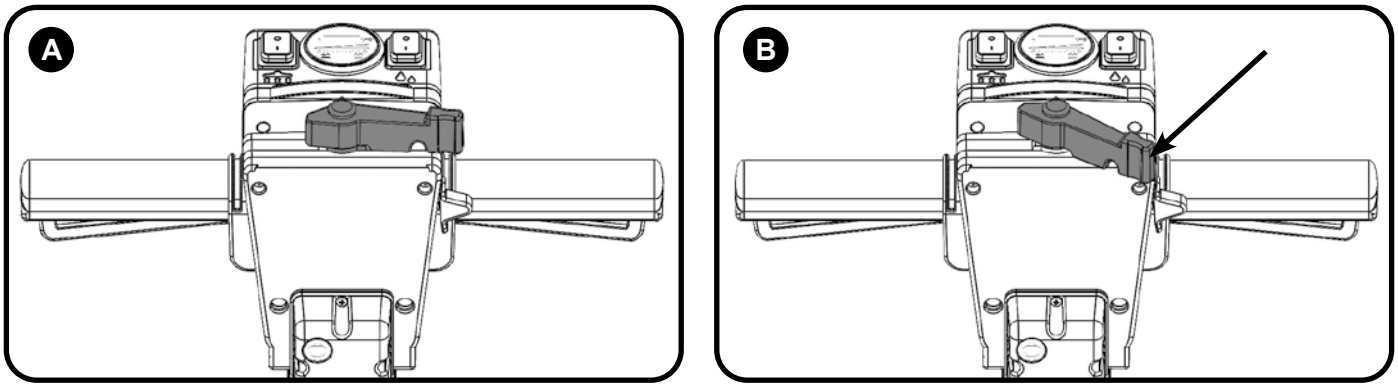




To fill the clean-water tank, use the FLEXI - FILL pipe from either a tap or hose pipe. (Fig.C).
The large cap can also be used for filling from a bucket or suitable container. (Fig.A & B).
Fill the clean-water tank to MAX line indication on tank, including cleaning chemicals if required. Follow chemical 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.



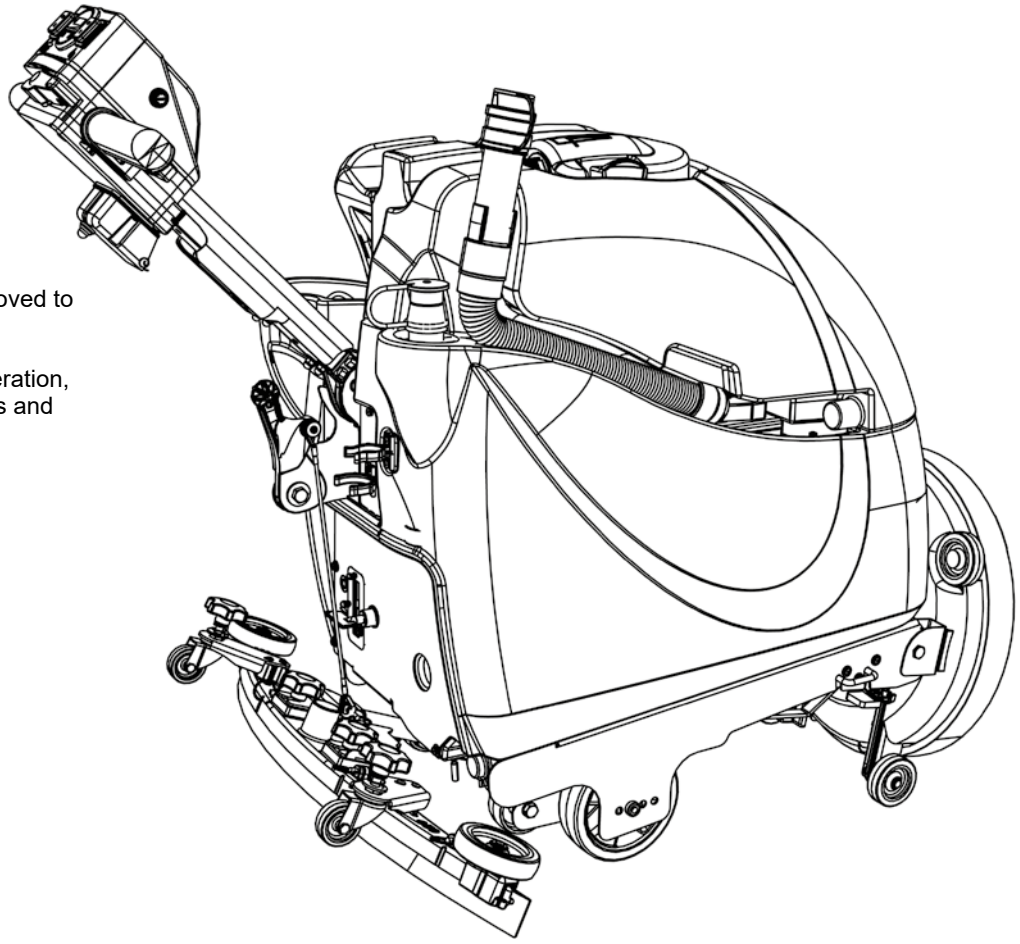



## Handle Height Adjustment

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

**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.**



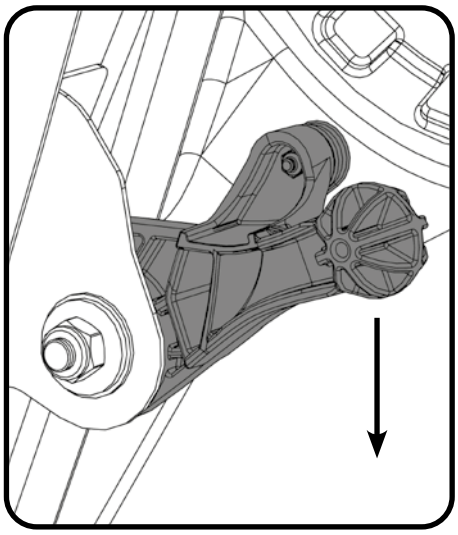
The machine is now ready to be moved to the cleaning site.

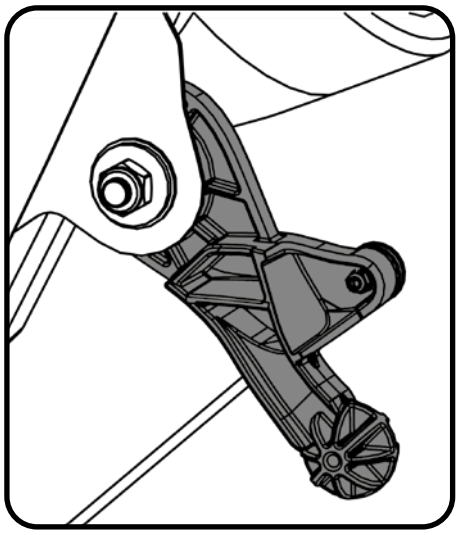
Before performing the cleaning operation, place out appropriate warning signs and sweep or dust-mop the floor.

## 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.

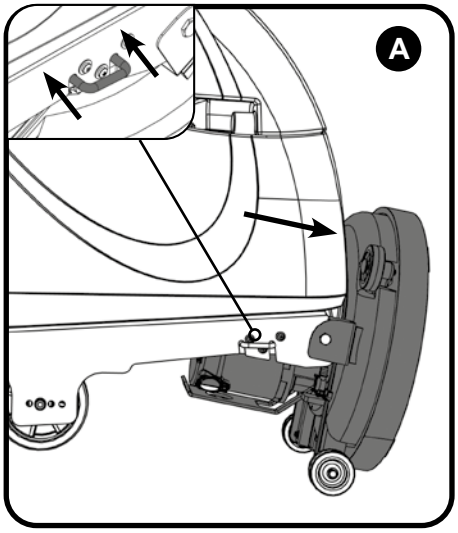
**Note: Do not pull the machine backwards with the floor tool in the lowered position, this could possibly damage the blades.**

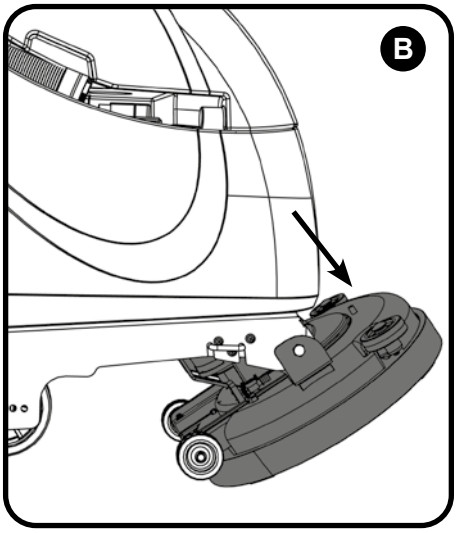


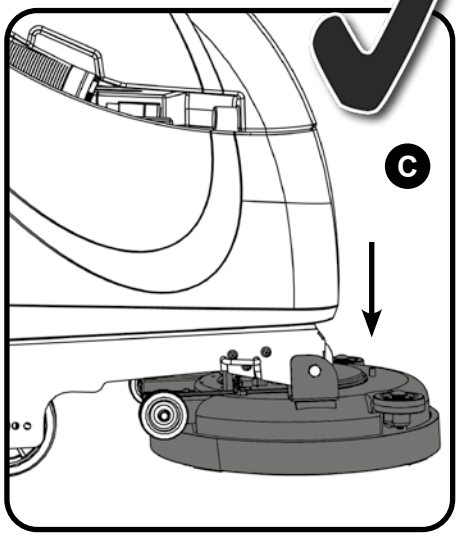


## Raising/Lowering the Brush Deck

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.

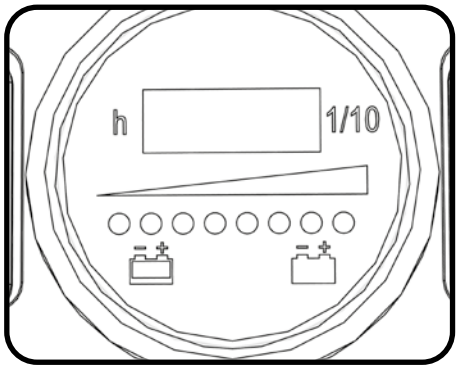


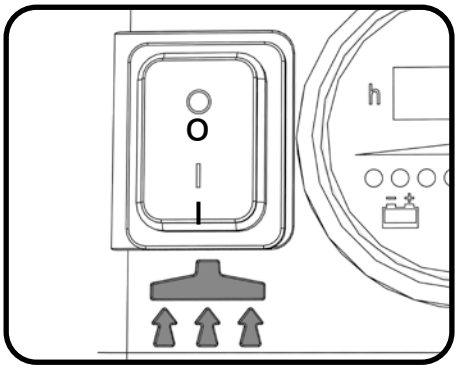




## Setting the Cleaning Controls

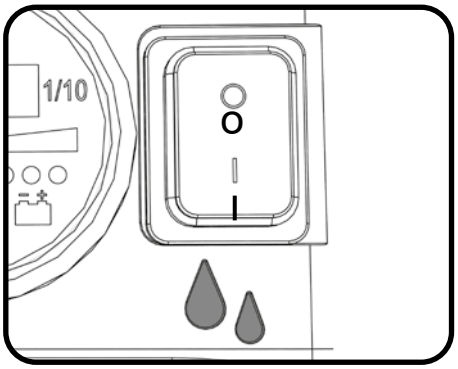
To start: hold down either trigger and press the yellow On / Off Switch once




Hour meter and battery power.




Vacuum On / Off



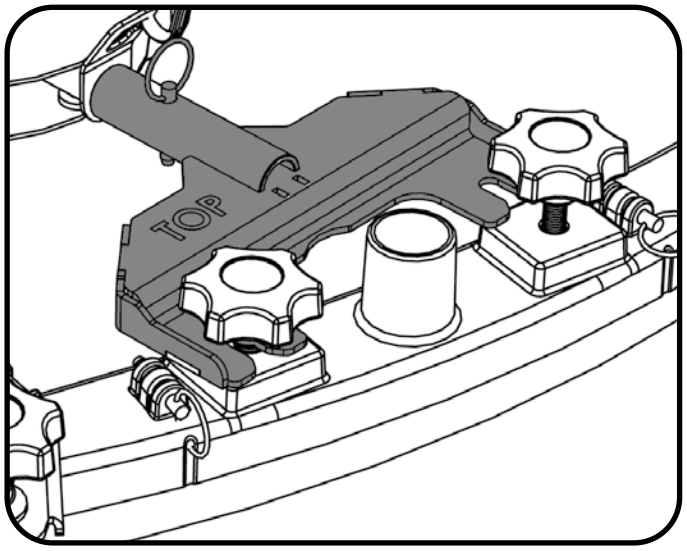

Water On / Off

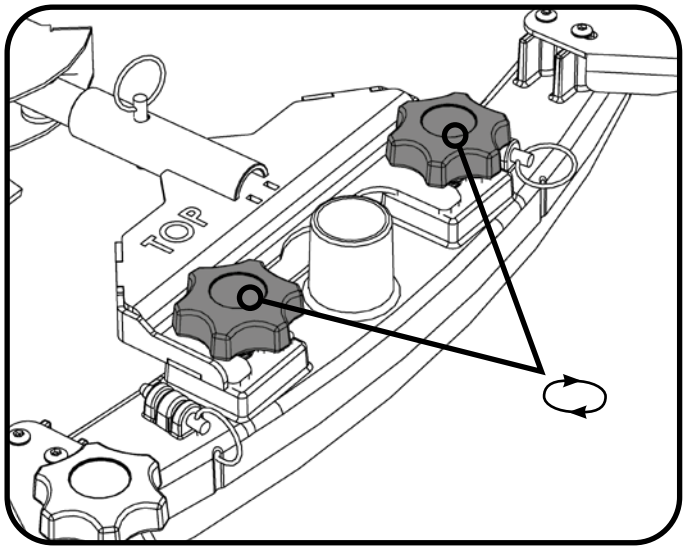
## Break-away Floor Tool

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.

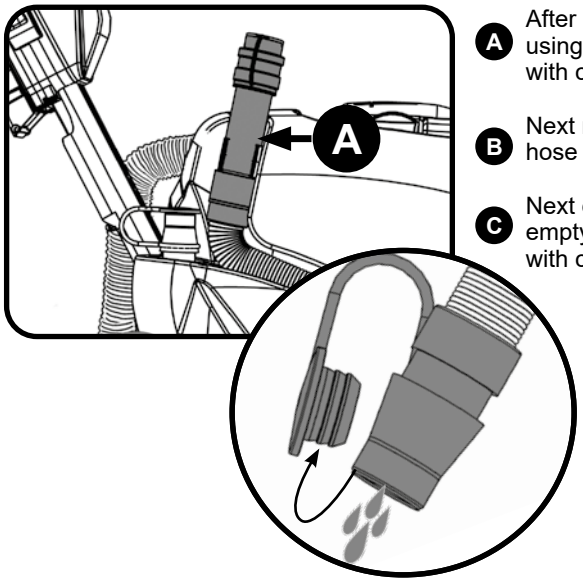
The waste water is then retrieved by the suction floor tool.
Overlap each scrubbing path by 10cm to ensure an even clean.
Do not operate the machine on inclines that exceed (2%), when full.

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**

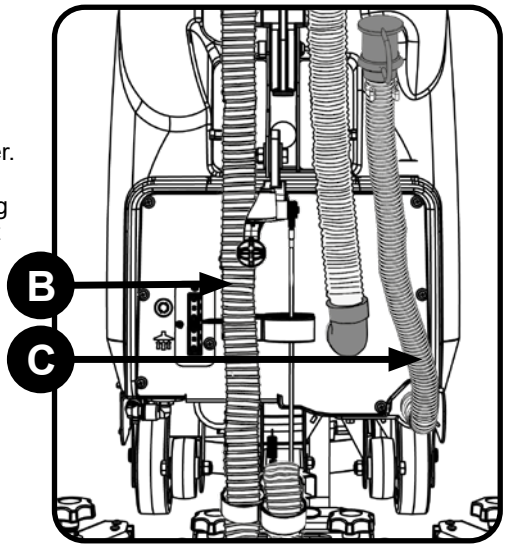
**ALWAYS ENSURE THAT THE MACHINE IS SWITCHED OFF PRIOR TO ANY MAINTENANCE USING THE MASTER CONTROL ON/OFF KEY. REMOVE THE KEY PRIOR TO ANY MAINTENANCE OPERATION.**

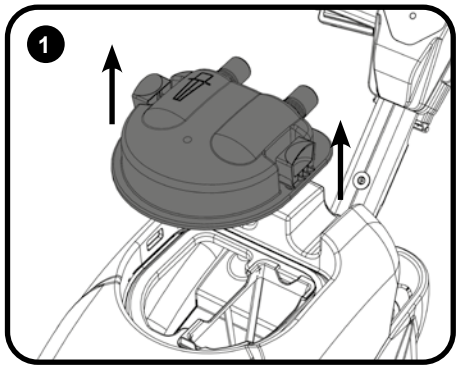



A After use, empty waste water tank using emptying hose and flush out with clean water.

B Next remove floor tool vacuum hose and flush out with clean water.

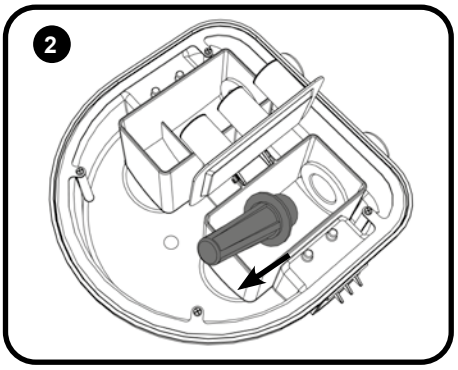
C Next empty clean water tank, using emptying hose and again flush out with clean water.

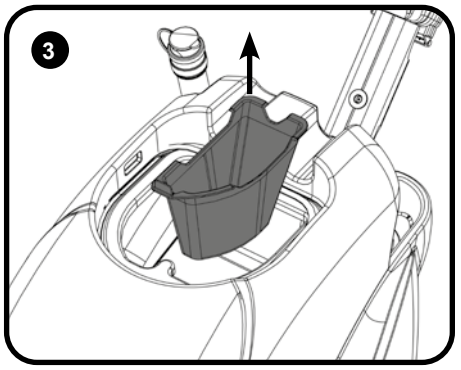



Whilst pressing in the top tank hood toggles, remove the hood. (Fig.1)
The hood also has a sealing-rubber which should be examined at every clean-down. Rinse using clean water, avoiding the vac filter.

Remove the filter fitted into the separator and flush with clean-water (Fig.2)

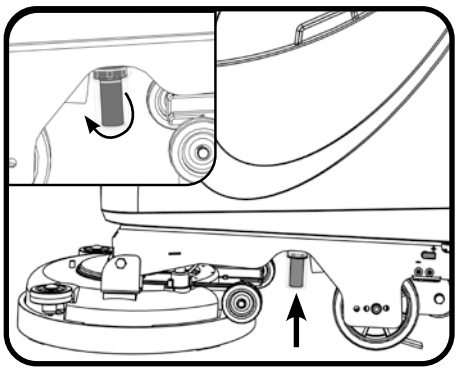



IMPORTANT
Remove vac filter and clean if required (keep dry).
Never use the machine without the recommended filter as it may cause damage to the machine.

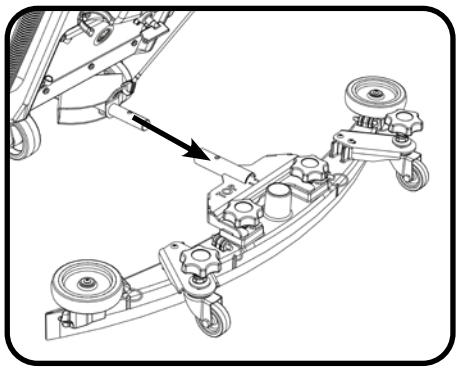
Remove debris basket filter and rinse using clean water, and refit. (Fig.3)
IMPORTANT If the debris basket is allowed to become clogged, vacuum performance can deteriorate.

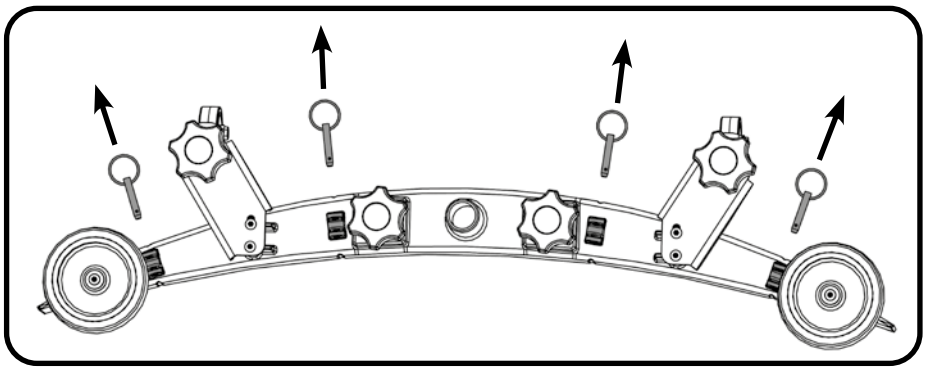
Located under the left hand side is a clean water filter, make sure the clean water tank is empty before removing this filter.
**Note: To make access easier, raise the brush deck.**



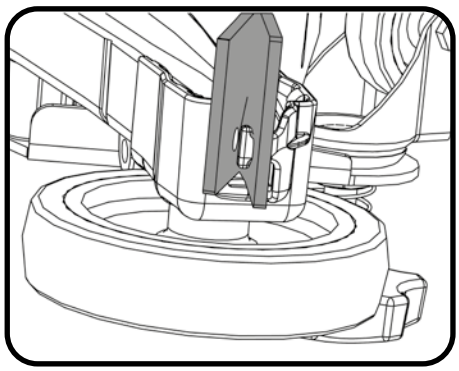
# Changing the Floor Tool Blades

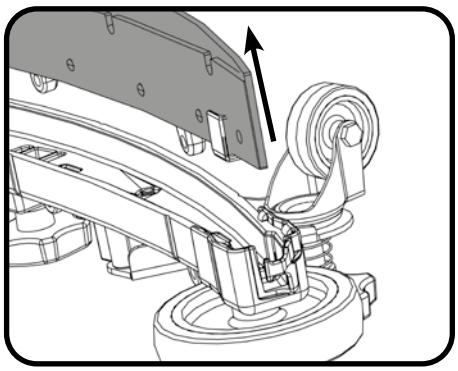
**Always ensure that the machine is switched off prior to any maintenance.**

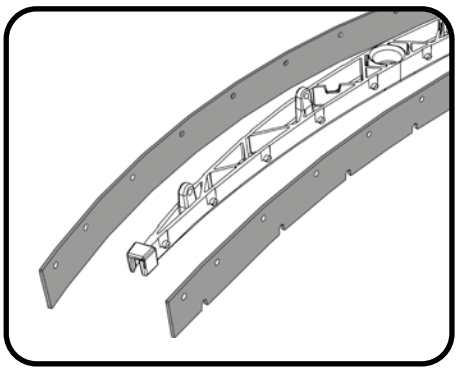




To clean the floor tool, remove securing-pin and pull-free from the holder.
Rinse the floor tool assembly with clean water and refit.





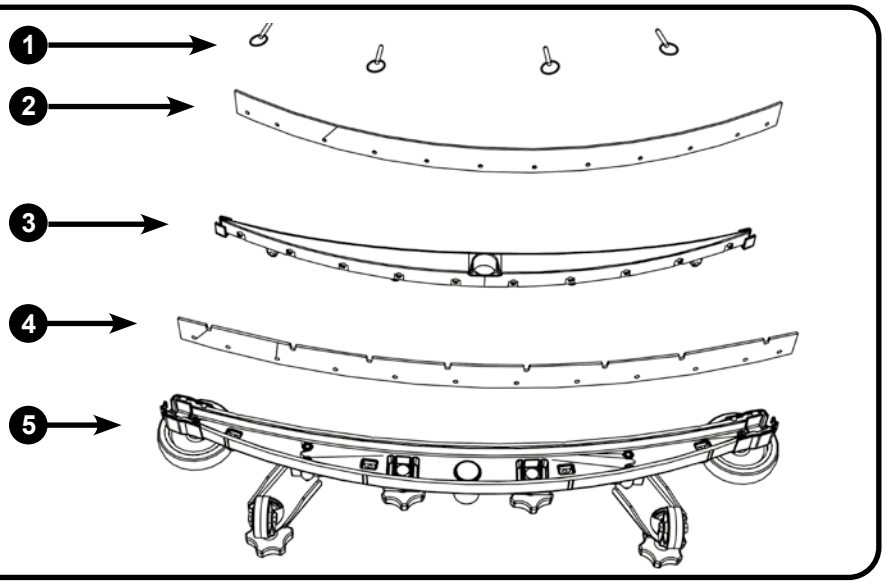


Periodically the floor tool blades should be examined and checked for wear and damage.
The blade removal is easy. Simply start by removing the four retaining pins, turn the floor tool over and separate the blade carrier from the body. Peel away the blades from their locating lugs and examine or renew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

## Floor Tool Overview

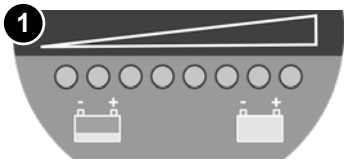
1. Retaining pins x 4
2. Front blade (slotted)
3. Blade carrier
4. Rear blade
5. Floor tool main body

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

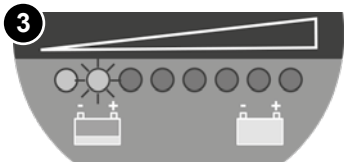


**Always ensure that the machine is switched off prior to charging.**

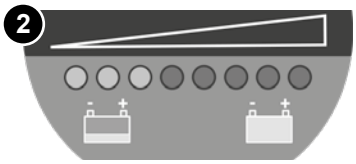
The battery meter displays the charge level of the batteries; when fully charged, all meter lights are illuminated.



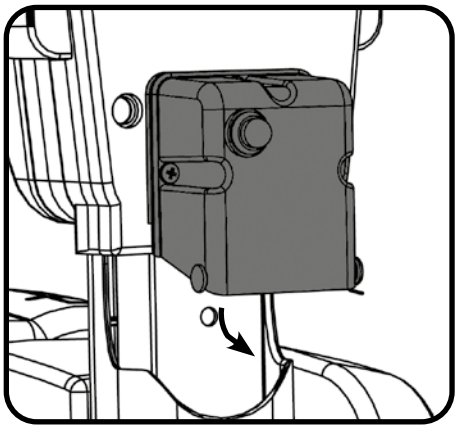

When the machine is getting close to empty the second light from the end starts to flash, the operator should then take the machine to a suitable charging point.

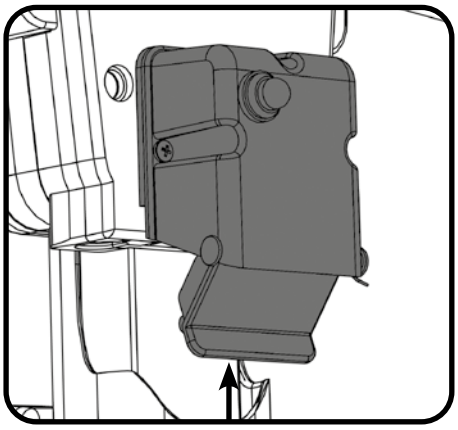


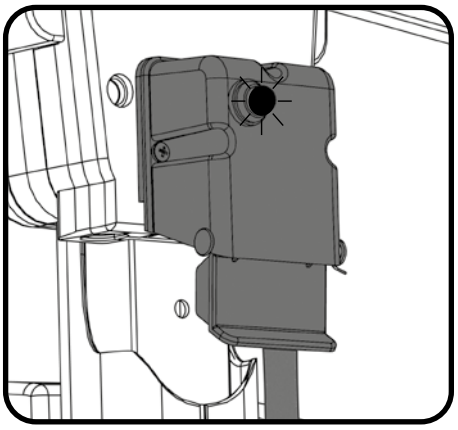

As the machine is used and the batteries are discharged, the meter lights will go out from right to left.
If the battery-charge level is allowed to discharge to the point that only the red light remains illuminated, the operator must consider charging the machine.



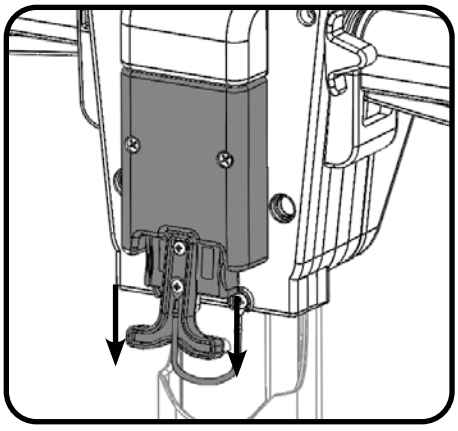

The large capacity gel batteries are sealed for life and are totally maintenance free.
The on-board charger automatically monitors the charging process and will switch off when the batteries are fully charged.
Insert the charging lead required for your country into the charging point.
The machine charging point is located to the rear of the machine under the control panel.
Connect to a suitable power supply.
Once mains power is connected the red charging indicator will illuminate.
To ensure a full charge, the machine should be left for a period of 8 hrs.
Once fully charged, disconnect the charging lead from both the power supply and the machine.

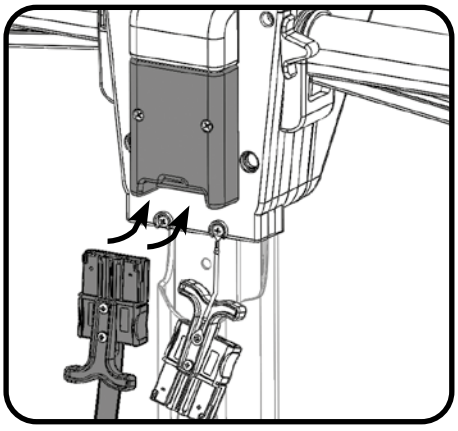






## External Charging Point





ALWAYS ENSURE THE MACHINE IS SWITCHED OFF PRIOR TO CHARGING.

Recharge batteries after each use, regardless of machine operation time.

The machine charging point is located to the rear of the machine under the control panel.

Remove Isolator Plug and connect your external charger.

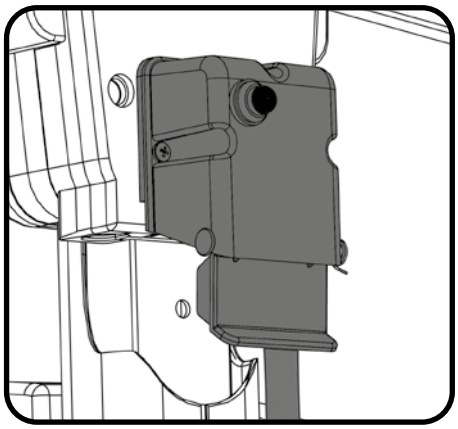
Refit Isolator Plug before operating the machine.

**Note: Only use the recommended charger and leads. Contact Numatic International Ltd for recommended charger and leads.**

# Battery Care

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

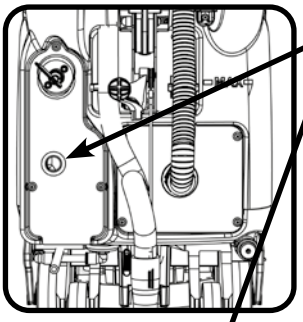
Under normal daily usage:
Re-charge the machine FULLY after each use regardless of machine operation time.
Do not leave the machine in a discharged state.

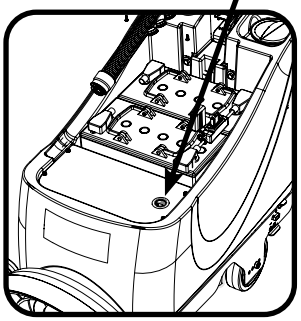


Periodically inspect the battery connections for tightness and corrosion

# 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 |
| Red LED flashing followed by Pause | Charging System Error<br>Unsuitable battery or charging malfunction safety timer exceeded<br>Internal short circuit, disconnect from power supply, switch power supply, OFF then ON, to restart the charging cycle |
| Yellow LED flashing | Battery not connected |

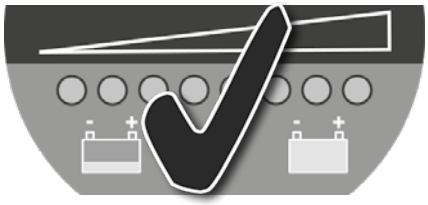
Re-charge the machine fully after its last use. Do not leave the machine in a discharged state.

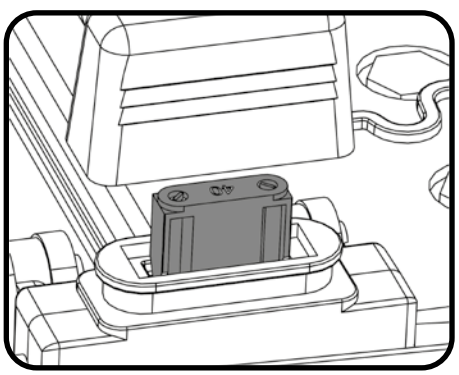
**TGB 4045/100, 4055/100, 4055/100T**

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.

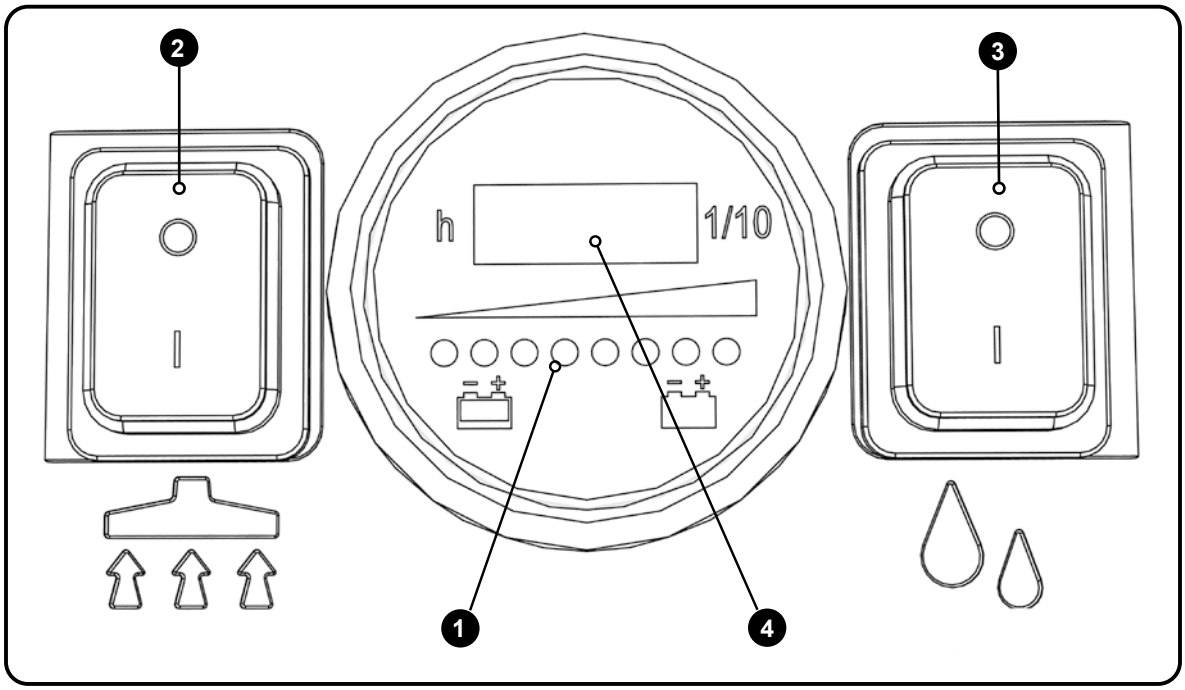


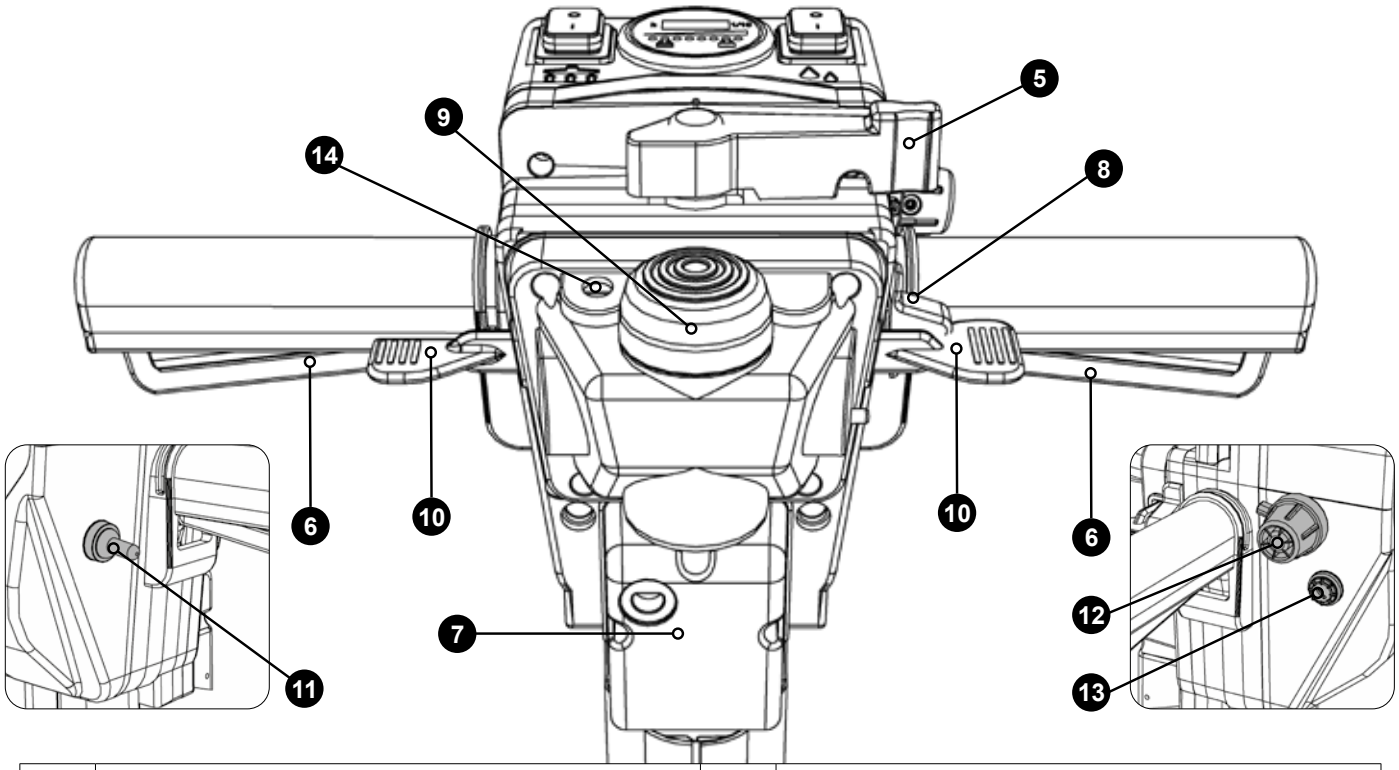


BATTERY SCRUBBER DRYER, TRACTION DRIVE

# TGB 4055/100T

Control Panel Overview



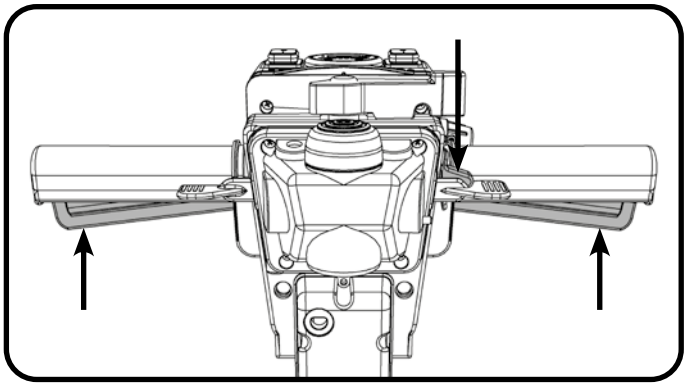




| | | | |
|---|---|---|---|
| 1 | Battery Charge Level Indicator | 8 | On / Off Switch |
| 2 | Vacuum Pick Up On / Off | 9 | Anti Crush Switch |
| 3 | Water Flow On / Off | 10 | Speed Boost Lever |
| 4 | Hours Meter | 11 | Forward / Reverse Switch |
| 5 | Handle Position Lever | 12 | Speed Control Dial |
| 6 | Triggers | 13 | Safety Fuse (2.5Amp) |
| 7 | Charging Point | 14 | Traction Status LED |

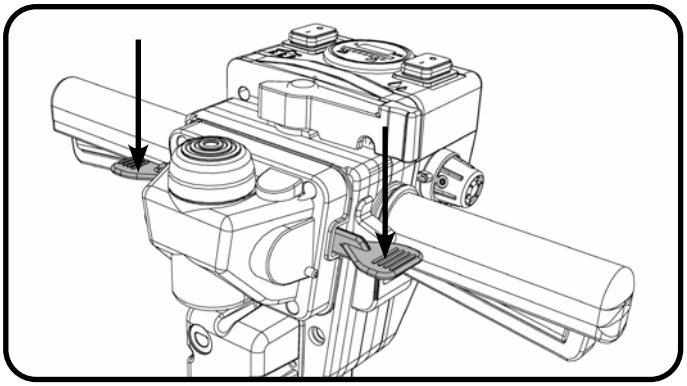
**Warning this Applies to TGB4055T**

**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.**

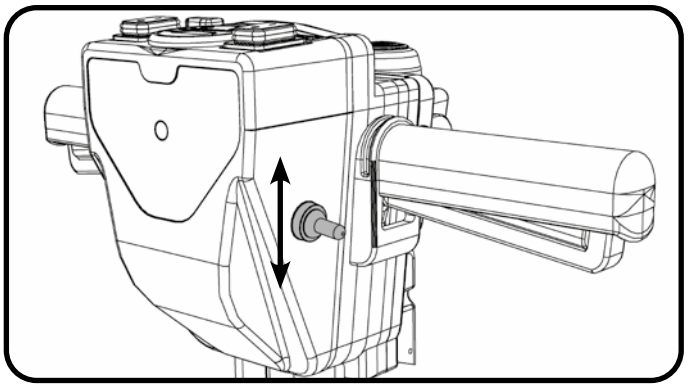
## Machine Operation



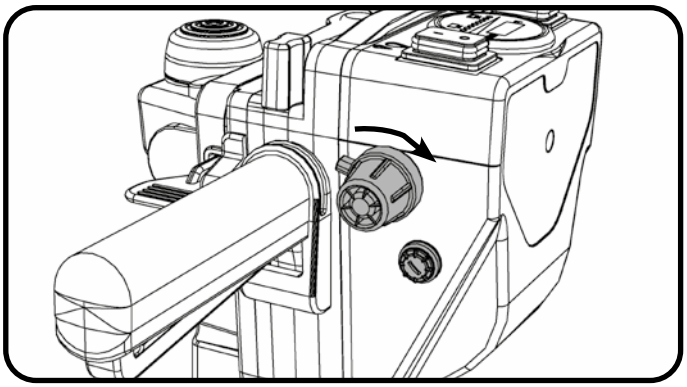
To start: hold either trigger and press the Yellow On / Off Switch once to start the machine.



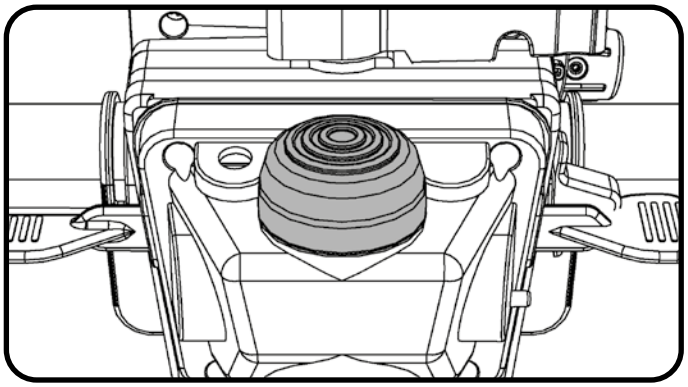
For a speed boost when moving the machine press the grey fast moving lever down.



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



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

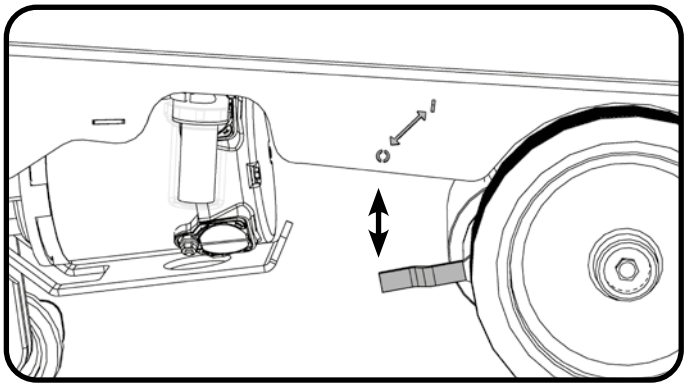


### Anti Crush Switch

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.

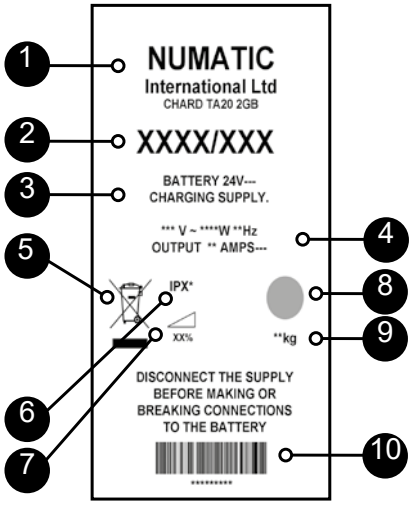
**Note: When the machine is in free wheel mode the brake has been disengaged, avoid slopes.**

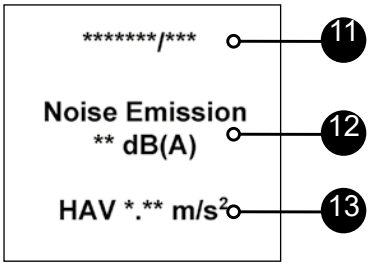
| HGB 3045/55, HBG 3045/55, TGB 3045/55 | | | |
|---|---|---|---|
| BRUSH WEIGHT | 29.0 kg | GROSS WEIGHT ( i.e. with liquid) | 120 kg |
| BRUSH PRESSURE | 21.7 g/cm² | NETT WEIGHT ( i.e. NO liquid) | 90 kg |
| PAD PRESSURE | 23.1 g/cm² | POWER SOURCE | GELL BATTERY 24 VOLT (2 x 12V) 55Ah |
| CLEANING 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 4055/100, TGB 4055/100T | | | |
|---|---|---|---|
| BRUSH WEIGHT | TGB4045 - 24-45KG<br>TGB4055 - 32-48Kg<br>TGB4055T - 32Kg | GROSS WEIGHT ( i.e. with liquid) | TGB4045 - 100Ah: 168kg, 80Ah: 159kg<br>TGB4055 - 100Ah: 169.5kg, 80Ah: 160.5kg<br>TGB4055T - 100Ah: 179.5kg, 80Ah: 170.5kg |
| BRUSH PRESSURE | TGB4045 - 17-33g/cm²<br>TGB4055 - 19-28g/cm²<br>TGB4055T - 19g/cm² | NETT WEIGHT ( i.e. NO liquid) | TGB4045 - 100Ah: 128kg, 80Ah: 119kg<br>TGB4055 - 100Ah: 129.5kg, 80Ah: 120.5kg<br>TGB4055T - 100Ah: 139.5kg, 80Ah: 130.5kg |
| PAD PRESSURE | TGB4045 - 19-35g/cm²<br>TGB4055 - 16-24g/cm²<br>TGB4055T - 16g/cm² | POWER SOURCE | GELL BATTERY 24 VOLT<br>(2 x 12V) 100Ah / 80Ah |
| CLEANING AREA | TGB4045 - 800m²/Hr @ 2kph<br>TGB4055 - 970m²/Hr @ 2kph<br>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<br>TGB4055 - 550mm<br>TGB4055T - 550mm | INTERNAL CHARGER OUTPUT | 10A DC |
| PAD DIA | TGB4045 - 400mm<br>TGB4055 - 508mm<br>TGB4055T - 508mm | BATTERY WEIGHT (TOTAL) | 80Ah : 54.5kg, 100Ah: 63.5kg |
| VAC MOTOR MAX. POWER | 400W | HEIGHT | TGB4045 - 1160mm<br>TGB4055 - 1160mm<br>TGB4055T - 1160mm |
| VAC MOTOR - SUCTION @ SQUEEGEE | 120 mbar | LENGTH | TGB4045 - 1070mm (1155mm)<br>TGB4055 - 1115mm (1200mm)<br>TGB4055T - 1115mm (1200mm) |
| VAC MOTOR - AIRFLOW @ SQUEEGEE | 24.2 L/sec | WIDTH | TGB4045 - 470mm (805mm)<br>TGB4055 - 560mm (805mm)<br>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

| Rating Label | |
|---|---|
| 1 | Company Name & Address |
| 2 | Machine Description |
| 3 | Voltage Frequency |
| 4 | Power rating |
| 5 | WEEE Logo |
| 6 | Ingress Protection Rating |
| 7 | Max Gradient |
| 8 | Approvals 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 | |
| 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 3 Core x 1.0 mm²
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***

| 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.
Warning do not use on slopes exceeding 2% for non traction machines and 9% for traction machines.

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

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 nonslip 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 removing the fuse.

In order to prevent unauthorised use of the machine the power key must be removed after use.
Machines left unattended shall be secured against unintentional movement.
When detergents or other liquids are used, read the manufacturer's instructions.

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

If this product does not have a factory installed Numatic battery charger, then it is the responsibility of the owner and user of the product to ensure that the charging system and battery combination are compatible, fit for purpose and safe to use.

**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

**NOTES: This machine is also suitable for commercial use, for example in hotels, schools, hospitals, factories, shops and offices.**

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. Call the experts.
- Strain cable or try to unplug by pulling on cable.
- Leave the brush pad on the machine 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.
- Run the machine over power cable during operation.
- 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.

## Precautions when working with batteries

1. 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.
3. Remove any metallic items from hands, wrists and neck i.e. rings, chains etc. before working on a battery.
4. Never rest tools or metallic objects on top of the battery.
5. When charging is complete disconnect from the mains supply.
6. The batteries must be removed from the machine before it is scrapped.
7. 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.
11. Do not allow the batteries to become fully discharged; it may not be possible to re-charge them.
    Batteries should not be discharged below 9.5 volts with 10 amps flowing.
12. Do not allow one battery to be discharged separately to the other.
13. Do not mix batteries from different machines.
14. The batteries fitted to this product are Valve Regulated Lead Acid (VRLA) gel electrolyte type.
    The fitting of any other type of battery may cause a safety hazard.

## Battery Care

1. Battery Storage:

a. Batteries must be stored in a dry, level and clean location not exceeding a temperature range of 5°C to 25°C.

b. Batteries must by fully charged after 6 months when on-the-shelf and as a minimum every 3 months thereafter or if the battery voltage reduces to 12.6V.

c. Batteries must be put into use within 12 months of the date of manufacture, failure to do so will lead to reduced capacity in the field. (battery date code) - silver label on the battery - (e.g. 1649) = Year - 2016 / Week - 49.

d. If a battery reaches 10.5V, irreversible damage has occurred. Under this condition, a battery should not enter into service and should be disposed of according to local authority guidelines.

2. During Use:

a. Batteries must be recharged after every use regardless of machine run time

b. If the machine is to be left dormant for any length of time complete the following:
   - i. Fully charge the batteries and remove the battery fuses
   - ii. Every 3 months insert the fuses and recharge
   - iii. Do not leave batteries dormant for more than 6 months

3. Warranty:

a. Batteries are warranted for 600 cycles (2 Years) providing all battery care rules are followed

b. To claim warranty the following details must be supplied
   - i. Serial number of the machine
   - ii. Battery date code (Show picture of battery date code)
   - iii. Date purchased
   - iv. Proof of Purchase
   - v. Maintenance history and charging regime

| 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 |

TwinTec Maintenance

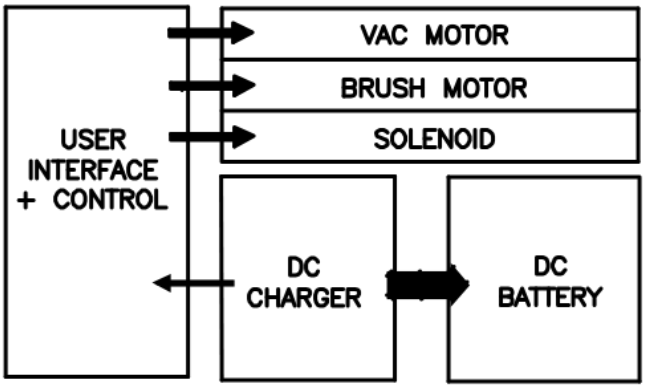
Daily
Keep the machine clean.
Ensure brushes/ pads/ squeegee/ filters are in good condition.
Check for any worn or damaged parts and replace immediately.
Drain and rinse dirty water tank after every use.
Store machine with brush deck secured in tilted position.

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.

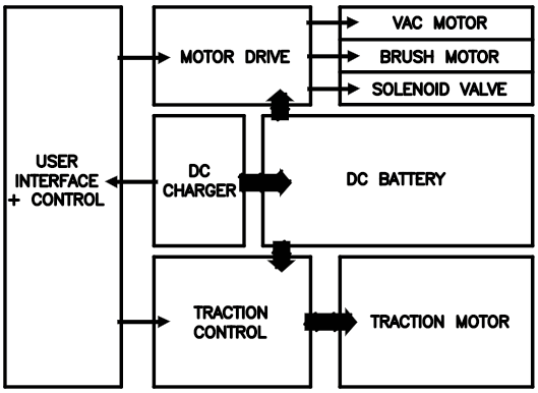
Batteries
Always re-charge the batteries after use.
Charge for a minimum of 4 hours after the green light has come on, this will prolong battery life.

## Schematic Diagram

HGB3045/55, HBG3045/55, TGB3045/55
TGB4045/100, TGB4055/100.




TGB4055/100T




## Notes:

## Spare Parts

| Part No. | BRUSHES |
|---|---|
| 606028 | 550 mm Polyscrub Brush |
| 606550 | 550 mm Nyloscrub Brush |
| 606551 | 550 mm Long Life Brush |
| 900526 | 500 mm NuLoc2 Drive Board |
| 606203 | 450mm Polyscrub Brush |
| 606204 | 450mm Nyloscrub Brush |
| 606306 | 450mm Longlife Brush |
| 900525 | 400mm NuLoc2 Drive Board |
| Part No. | SQUEEGEE |
| 903281 | Red Squeegee Knob |
| 215006 | Squeegee Castor Wheel |
| 606319 | Squeegee Castor Assembly Set |
| 900518 | Squeegee 650 Blade Set |
| 903486 | Complete 650 Squeegee Assembly |
| 900519 | Squeegee 750 Blade Set |
| 904699 | Complete 750 Squeegee Assembly |
| 206953 | Detent Pin |

| Part No. | HOSES |
|---|---|
| 903341 | Hose Closure (Bottom Tank) |
| 903341 | Hose Closure ( Filling Hose) |
| 900903 | Hose Closure (Top Tank) |
| Part No. | GENERAL PARTS |
| 221091 | 20 Amp Maxi Fuse (VAC) |
| 230104 | 30 Amp Maxi Fuse (Brush) |
| 221047 | 40 Amp Maxi Fuse (Battery) |
| 221107 | 50 Amp Maxi Fuse (Battery Traction) |
| 903066 | 2.5 Amp Handle Fuse |
| 903736 | 24v Contactor |
| 903542 | Grit Filter Basket (Red) |
| 208888 | (CWF) Clean Water Filter (Complete) |
| 208827 | CWF Strainer Base Moulding |
| 208830 | CWF Strainer Gasket |
| 208889 | CWF Extended Strainer 50 Mesh Screen |
| 208890 | CWF 68mm Extended Strainer Clear Bowl |
| 208638 | 160mm Rear Wheel |
| 220386 | Charging Lead (V17 - UK) |

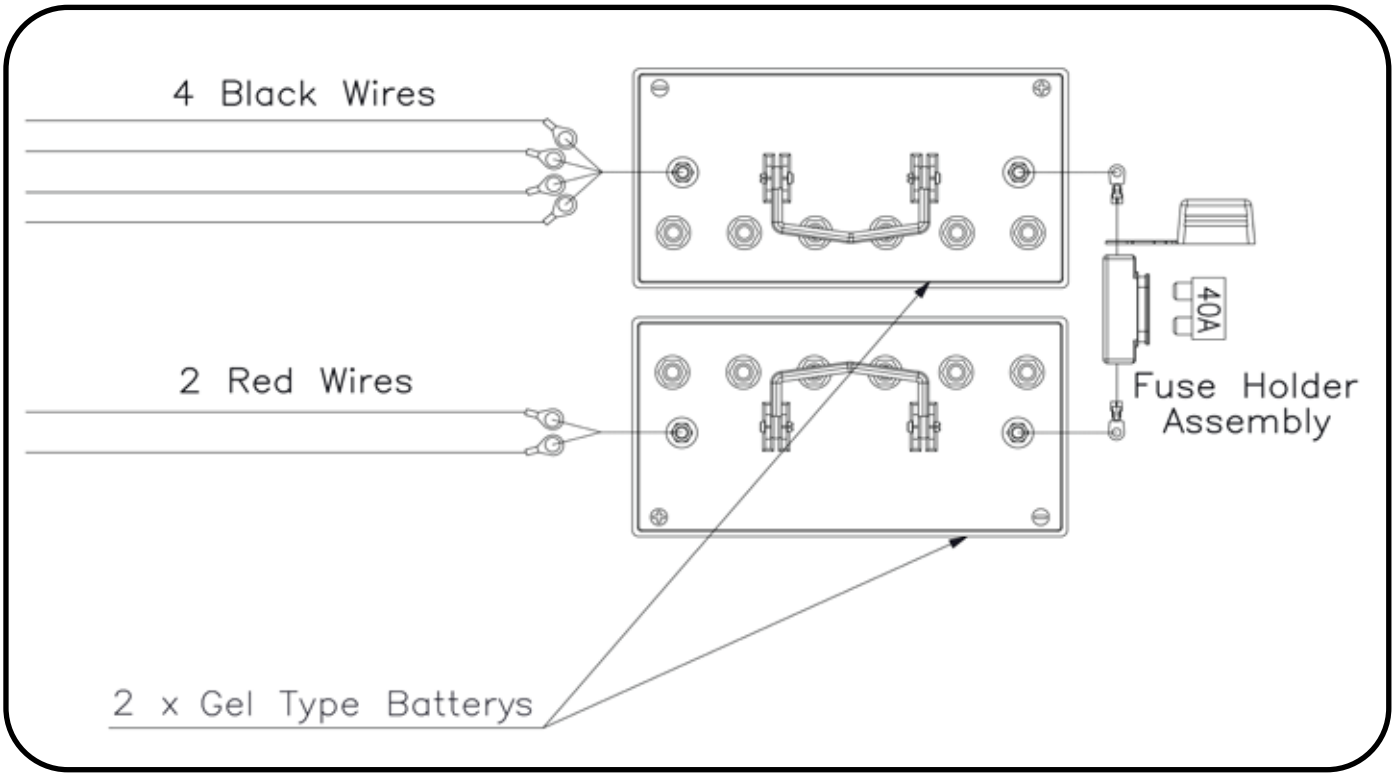
## Trouble Shooting

| PROBLEM | CAUSE | SOLUTION |
|---|---|---|
| Machine will not operate | Missing or blown fuses<br>Low battery charge<br>Machine is connected and charging | Fit or replace fuse (page 5)<br>Charge batteries (page 13 / 14)<br>Take off charge (page 13) |
| Vacuum will not operate | Waste water tank full<br>Check fuse | Empty waste water tank (page 11)<br>Check fuse (page Page 5) |
| Poor water pick-up | Waste water tank full<br>Clogged / blocked vacuum hose<br>Loose hose connections<br>Debris basket filter clogged / blocked<br>Separator filter clogged / blocked<br>Poor separator seal<br>Damaged separator seal<br>Damaged / split vacuum hose<br>Damaged floor tool blades<br>Low battery charge | Empty waste water tank (page 11)<br>Remove and clean (page 11)<br>Push tight connections (page 7)<br>Remove and clean (page 11)<br>Remove and clean (Page 11)<br>Clean and refit (page 11)<br>Renew (contact service dept)<br>Renew (contact service dept)<br>Renew (contact service dept)<br>Re-charge batteries (page 13 / 14) |
| No brush / scrub function | No brushes fitted<br>Check fuse | Check and fit (page 6)<br>Check fuse (page Page 5) |
| Little or no water flow | Clean water tank empty<br>Clean water tank filter blocked / clogged<br>Water flow not on<br>Brush deck raised | Fill clean water tank (page 7)<br>Remove and clean (11)<br>Switch on water flow (Page 9)<br>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. |

**Warning** Do not fit a replacement fuse link having a higher rating than the value stated on the fuse label.

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

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



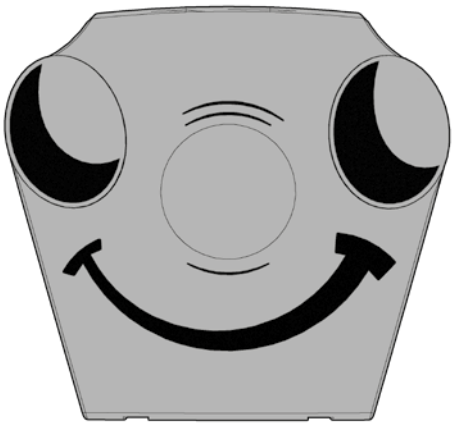

For optimum performance Numatic International Ltd recommend the use of the following batteries in the Twintec machines.

| Machine | Numatic Recommended Battery | Numatic Number |
|---|---|---|
| TGB 3045 Less Battery | Sonnenschein Battery - 55A/h Stud Terminal Gel Type - Suppliers Ref: GF 12 050V | 205085 |
| HGB 3045 Less Battery | Sonnenschein Battery - 55A/h Stud Terminal Gel Type - Suppliers Ref: GF 12 050V | 205085 |
| HBG 3045 Less Battery | Sonnenschein Battery - 55A/h Stud Terminal Gel Type - Suppliers Ref: GF 12 050V | 205085 |
| 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 |

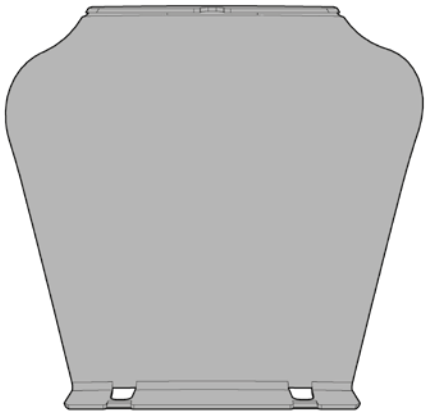
| Make | Voltage | Capacity | Weight | Size |
|---|---|---|---|---|
| Sonnenschein | 12 V | 55 A/h | 18.48 kg | 278mm x 175mm x 190mm |
| MK Battery | 12 V | 98 A/h | 31.8 kg | 327.5mm x 169mm x 218mm |

1

FRONT



BACK



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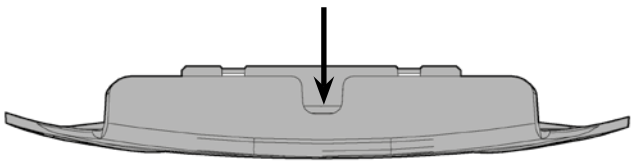
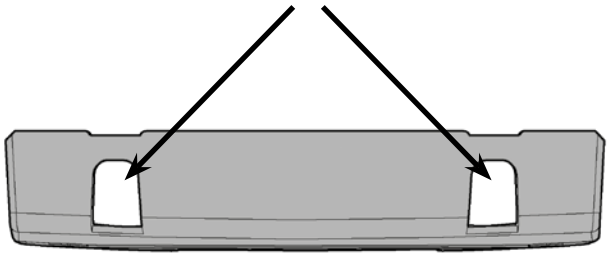
TOP CLIP



BOTTOM CLIPS



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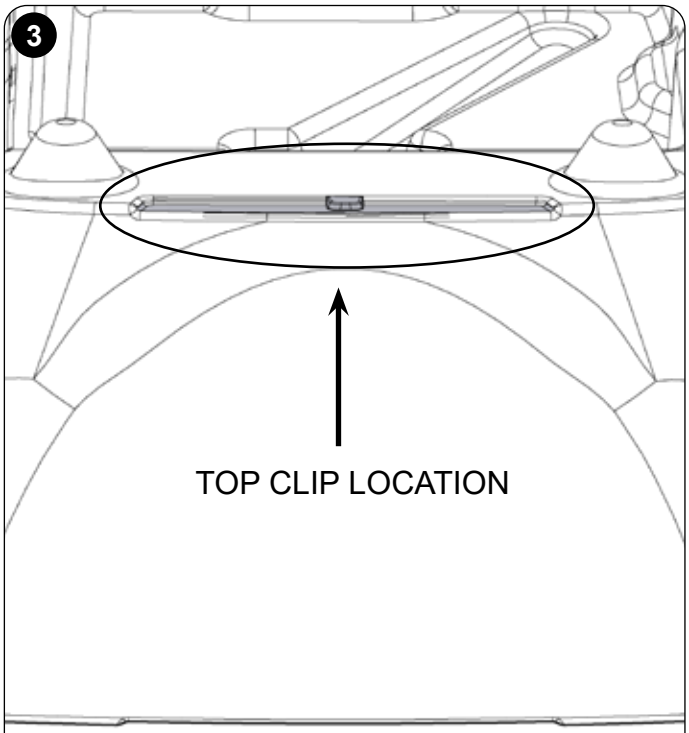


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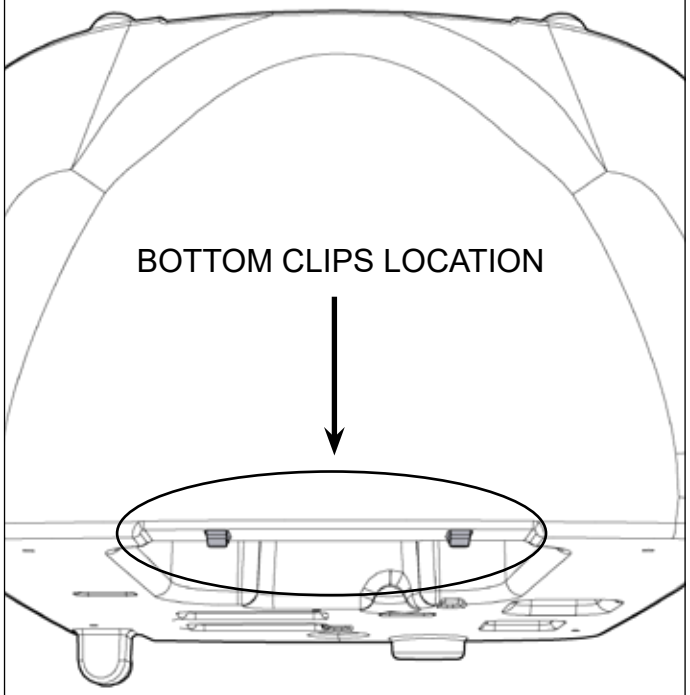
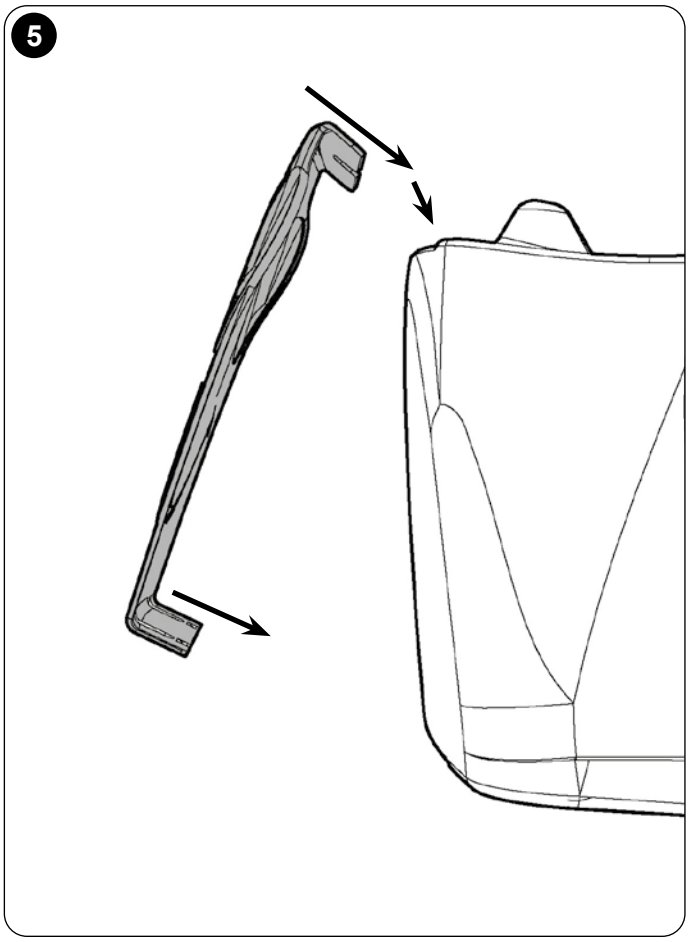
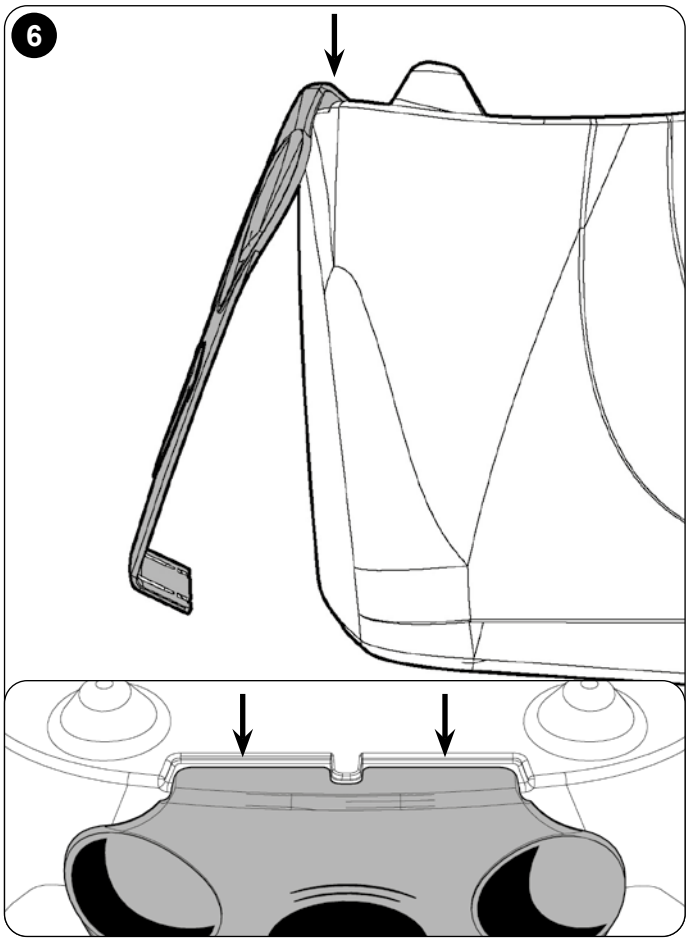
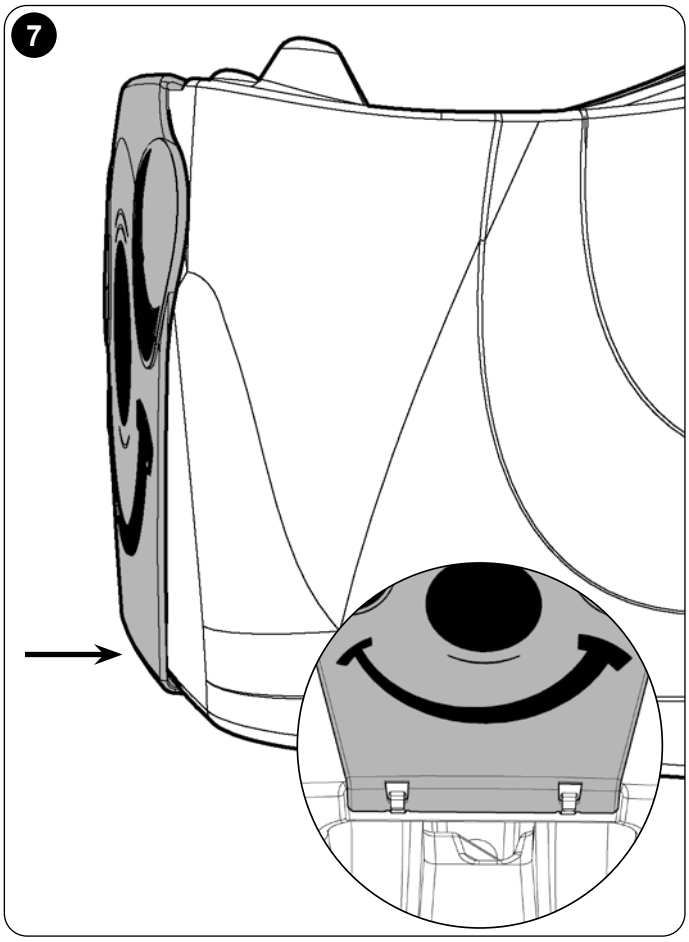
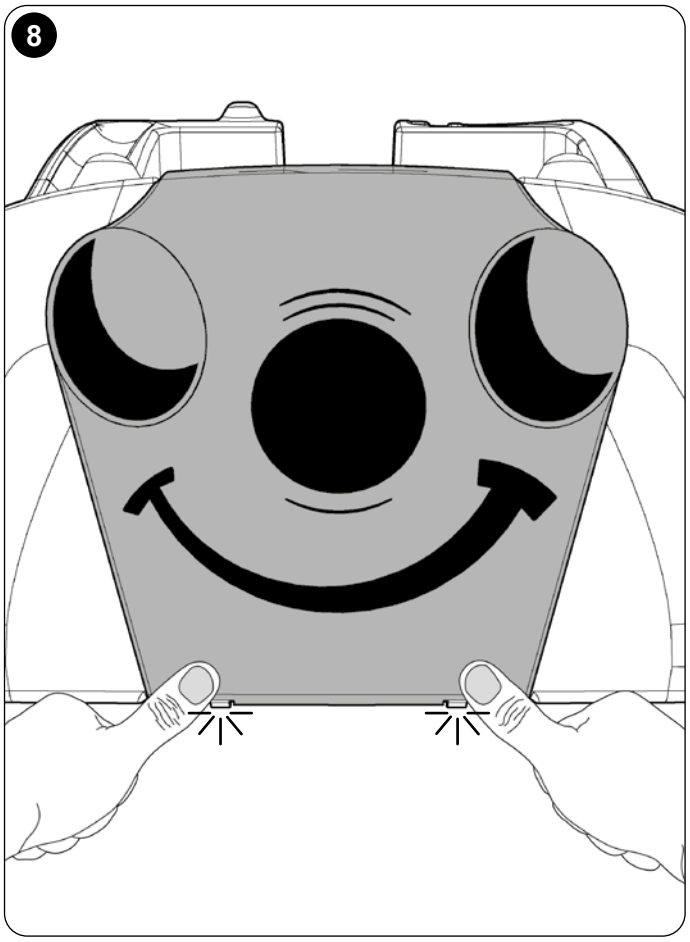


## Face Fitting Instructions



Notes:

Notes:

Notes:

# Numatic International 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 / 1500 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

Numatic International Limited. Chard, Somerset, TA20 2GB
Telephone: 01460 68600 Fax: 01460 68458

© Numatic International Limited

## UKCA Declaration of Conformity

| | |
|---|---|
| **Manufacturer:** | Numatic International Limited<br>Chard<br>Somerset<br>TA20 2GB<br>www.numatic.co.uk |
| **Product:** | TGB3045, HGB3045, HBG3045, TGB4045, TGB4055 |
| **Description:** | Floor Treatment - Walk Behind – Commercial - Battery |

**We, Numatic hereby declare under our sole responsibility, that the above-mentioned product(s) is/are in conformity with the following directives and standards.**

| | | |
|---|---|---|
| **S.I. 2008: 1597** | **Supply of Machinery Regulations** | **EN60335-1:2012 + AC:2014 + A11:2014 + A13:2017**<br>**EN60335-2-72:2012**<br>**EN62233:2008** |
| **S.I. 2016: 1091** | **EMC Regulations** | **EN55014-1:2017 + A11:2020**<br>**EN55014-2:1997 + A1:2001 + A2:2008**<br>**EN61000-3-2:2014**<br>**EN61000-3-3:2013** |
| **S.I. 2012: 3032** | **RoHS Regulations** | |

Authorised Signatory: Mr. Matthew Coles

Position: Head of Technology

Signed: M Coles Date: 1st Dec 2021

Numatic International Limited,
Chard,
Somerset, TA20 2GB, UK





**EU,** EC, EL, UE, ES:
**Declaration of Conformity**
Prohlášení o shodě
Konformitätserklärung
Overensstemmelseserklæring
Declaración de conformidad
Vastavusdeklaratsioon
Déclaration de conformité
Δήλωση συμμόρφωσης
Megfelelőségi nyilatkozat
Dichiarazione di conformità
Atitikties deklaracija
Conformiteitsverklaring
Samsvarserklæring
Declaração de conformidade
Декларация за съответствие
Deklaracja zgodności
Declaratie de conformitate
Декларация о соответствии
Försäkran om överensstämmelse
Izjava o skladnosti
Vaatimustenmukaisuusvakuutus

| | |
|---|---|
| **Manufacturer:** / Výrobce / Hersteller / Fabrikant / Fabricante / Tootja / Fabricant / производитель / Κατασκευαστής / Gyártó / Fabbricante / Gamintojas / Fabrikant / Produsent / Fabricante / Producent / Producător / производитель / Tillverkare / Proizvajalca / Valmistaja: | Numatic International Limited<br>Chard<br>Somerset<br>TA20 2GB<br>www.numatic.co.uk |
| **Product:** / Produkt / Produkt / Produkt / Producto, Toodet, Produit / Продукт / Προϊόν / Termék / Prodotto / Produktas / Artikel / Produkt / Produtos / Produkt / Produs / товар / Produkt / Izdelka / Tuote: | TGB3045, HGB3045, HBG3045, TGB4045, TGB4055 |
| **Description:** / Popis / Beschreibung / Beskrivelse / Descripción / Kirjeldus / La description / Описание / Περιγραφή / Leirás / Descrizione / Apibudinimas / Omschrijving / Beskrivelse / Descrição / Opis / Descriere / Описание / Beskrivning / Opis / Kuvaus: | Floor Treatment – Walk Behind – Commercial - Battery |

**GB We, Numatic hereby declare under our sole responsibility, that the above-mentioned product(s) is/are in conformity with the following directives and standards.**

CZ My, Numatic prohlašujeme na svou výlučnou odpovědnost, že výše uvedený výrobek je ve shodě s následujícími směrnicemi a normami.

DE Wir, Numatic erklären in alleiniger Verantwortung, dass das oben genannte Produkt den folgenden Richtlinien und Normen entspricht.

DK Vi, Numatic erklærer hermed under eget ansvar at ovennævnte produkt(er) er i overensstemmelse med følgende direktiver og standarder.

ES Nosotros, Numatic declaramos bajo nuestra única responsabilidad que el producto antes mencionado está en conformidad con las siguientes directivas y normas

EE Meie, Numatic Käesolevaga kinnitame ja kanname ainuisikulist vastutust, et eespool nimetatud toode on kooskõlas järgmiste direktiivide ja

FR Numatic déclare sous notre seule responsabilité que le produit mentionné ci-dessus est conforme aux directives et normes suivantes.

BG Ние, Numatic С настоящото декларираме на своя лична отговорност, че посочените по-горе продуктът е в съответствие със следните директиви и стандарти.

GR Εμείς, Numatic δηλώνουμε με αποκλειστική μας ευθύνη, ότι το προαναφερόμενο προϊόν συμμορφώνεται με τις ακόλουθες οδηγίες και πρότυπα.

HU Mi, Numatic Kijelentjük, egyedüli felelősséggel, hogy a fent említett termék megfelel az alábbi irányelveknek és szabványoknak

IT Noi, Numatic dichiara sotto la propria responsabilità, che il prodotto di cui sopra è conforme alle seguenti direttive e norme.

LT Mes, "Numatic pareiškiu vienašališkos atsakomybės, kad pirmiau minėtas produktas atitinka šias direktyvas ir standartus

NL We verklaren Numatic hierbij op eigen verantwoordelijkheid, dat het bovengenoemde product voldoet aan de volgende richtlijnen en normen

NO Vi, Numatic erklærer herved under eget ansvar, at det ovennevnte produktet er i samsvar med følgende direktiver og standarder

PT Nós, a Numatic declaramos, sob nossa exclusiva responsabilidade, que o produto acima mencionado está em conformidade com as diretrizes e normas a seguir.

PL My, Numatic Niniejszym oświadczamy z pełną odpowiedzialnością, że wyżej wymieniony produkt jest zgodny z następującymi dyrektywami i normami.

RO Noi, Numatic Prin prezenta declarăm pe propria răspundere, că produsul mai sus menționat este în conformitate cu următoarele standarde și directive.

RU Ми, Нилфиск овим изјављујем под пуном одговорношћу, да наведеног производ је у складу са следећим директивама и стандардима.

SE Vi Numatic förklarar härmed under eget ansvar att ovan nämnda produkt överensstämmer med följande direktiv och normer.

SI Mi, Numatic izjavljamo s polno odgovornostjo, da je zgoraj omenjeni izdelek v skladu z naslednjimi smernicami in standardi.

FI Me, Numatic täten vakuutamme omalla vastuulla, että edellä mainittu tuote on yhdenmukainen seuraavien direktiivien ja standardien mukaisesti

| | | |
|---|---|---|
| **2006/42/EC** | **Machinery Directive** | **EN60335-1:2012 + AC:2014 + A11:2014 + A13:2017**<br>**EN60335-2-72:2012**<br>**EN62233:2008** |
| **2014/30/EU** | **EMC Directive** | **EN55014-1:2006 + A1:2009 + A2:2011**<br>**EN55014-2:1997 + A1:2001 + A2:2008**<br>**EN61000-3-2:2014**<br>**EN61000-3-3:2013** |
| **2011/65/EU** | **RoHS Directive** | |

Authorised Signatory: Mr. Matthew Coles

Position: Head of Technology

Numatic International Limited

Chard,

Somerset, TA20 2GB, UK

Signed: M Coles Date: 1st Dec 2021

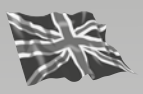
This Machine Has Been Packed With The Following

- Brush / Pad ☐
- Floor Tool ☐
- Charging Lead ☐
- Fuse Pack ☐

Signed

Distributed by:

# Numatic



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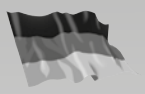

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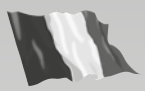

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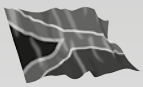

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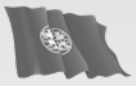

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This Product has been comprehensively inspected and checked during every stage of its manufacture.
Including an in-depth electrical safety and functionality test.

Specification subject to change without prior notice
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