

EN

Numatic



TVL850/150T

TVL850/200T

TVL850/250T

TVL850/300T

**RIDE-ON
SCRUBBER
DRYER**



Original Instructions

CAUTION, Read instructions before using the machine
Keep for future reference



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TVL850/150 = 3x batteries
TVL850/200 = 4x batteries
TVL850/250 = 5x batteries
TVL850/300 = 6x batteries

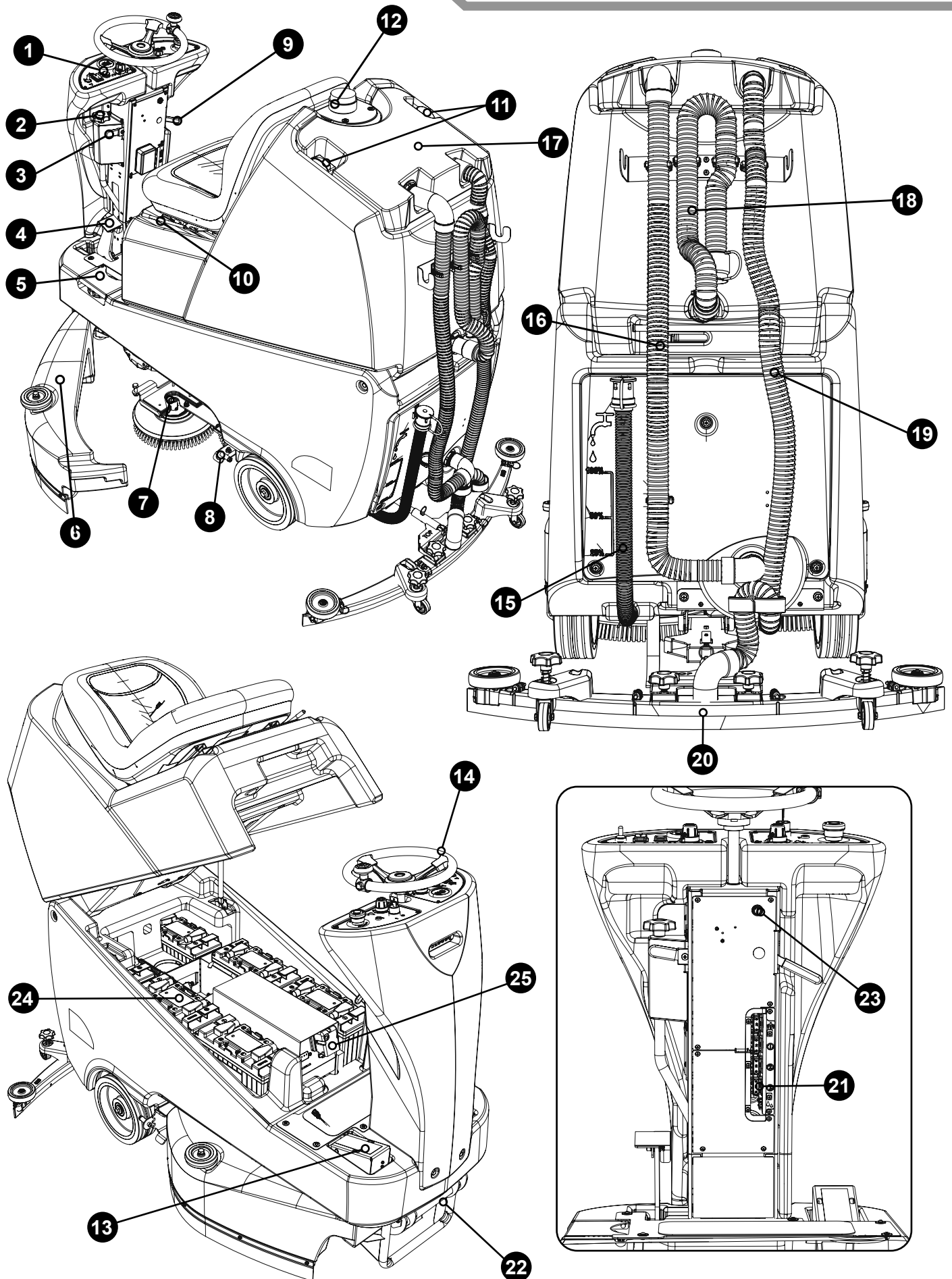
PLEASE READ BEFORE COMMENCING OPERATION

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

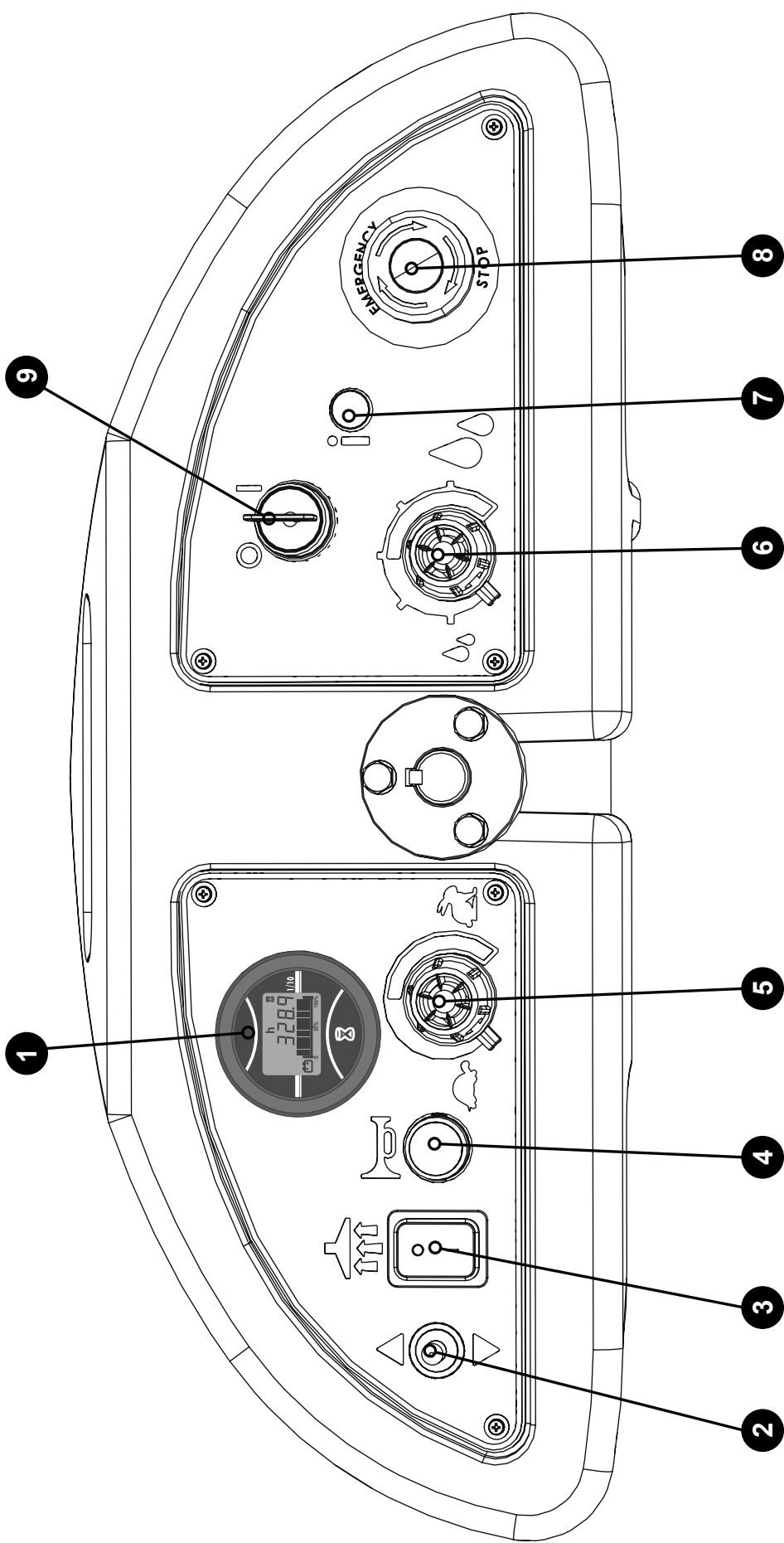
- Owner manual
- Battery charging lead
 - 2 x Keys
 - 4 x 20 Amp fuses
 - 4 Amp fuse
- Maxi fuse-puller

1	Operator control panel
2	Brush load adjuster knob
3	Brush deck release lever
4	Brush deck foot pedal
5	Clean water tank fill point
6	Side pod and skirt
7	Brush deck
8	Side pod lever
9	Floor tool raise / lower lever
10	Seat adjustment lever
11	Separator release catches
12	Pedestrian warning light
13	Accelerator pedal
14	Steering wheel
15	Clean water tank emptying hose
16	Vacuum hose
17	Air separator assembly
18	Waste water emptying hose
19	Floor tool vacuum hose
20	Semi parabolic floor tool
21	Fuse panel
22	Towing point
23	2.5 Amp safety fuse
24	Li-ion batteries
25	Charger

Machine Overview



Control Panel Overview



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

1	Hours and battery meter display	6	Water flow rate
2	Forward / Reverse switch	7	Traction LED
3	Suction On / Off switch	8	Emergency stop button
4	Horn button	9	On / Off switch
5	Maximum speed control		

Machine Set-up Guide

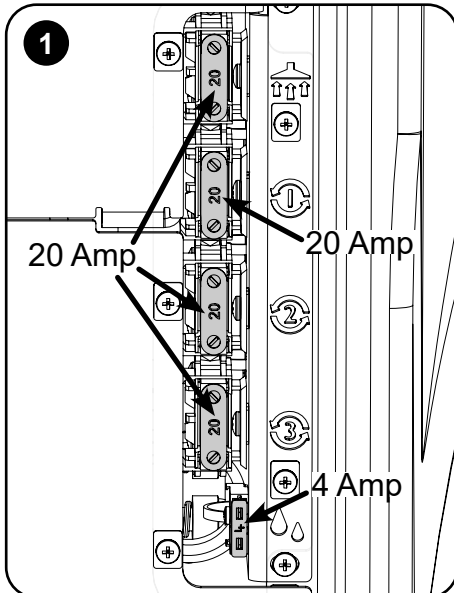
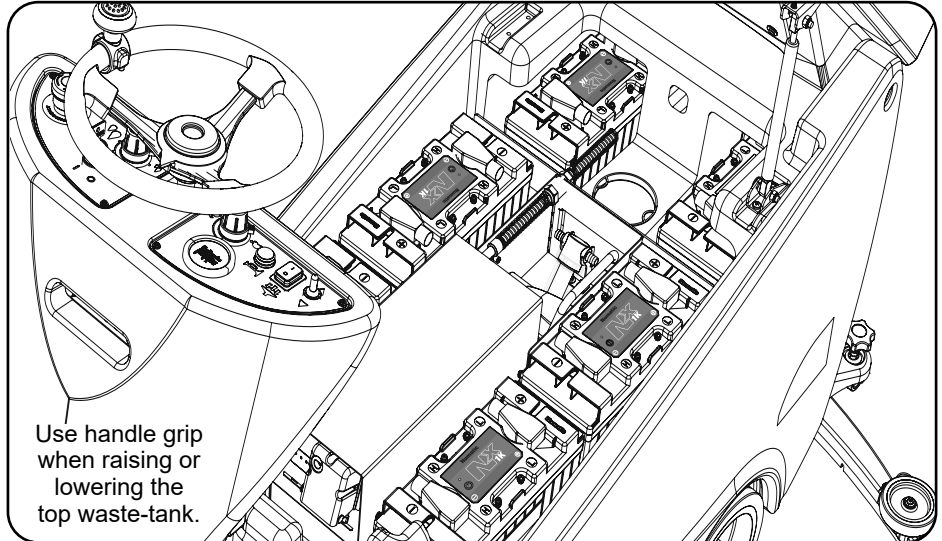


PLEASE READ BEFORE COMMENCING ANY OPERATION AFTER THE REMOVAL OF ALL THE PACKAGING, CAREFULLY OPEN AND CHECK THE CONTENTS.



CONTENTS

- Owner manual
- Battery charging lead
 - 2 x Keys
- 4 x 20 Amp fuses
 - 4 Amp fuse
- Maxi fuse-puller



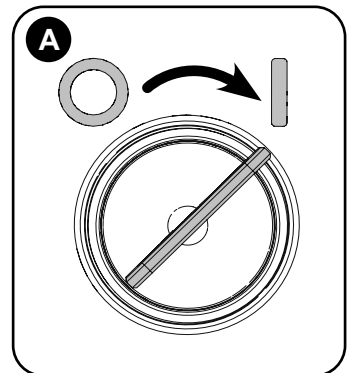
Lift top tank assembly to reveal battery compartment, ensuring you use the handle grip provided.

Fit vacuum and brush fuses (contained in start-up pack) into the fuse holders as illustrated. (Fig. 1)

Charge the machine to activate the batteries. After the batteries are activated, LEDs should illuminate on the top of all the batteries.

Insert Key into ignition located on the control panel. (Fig. A)

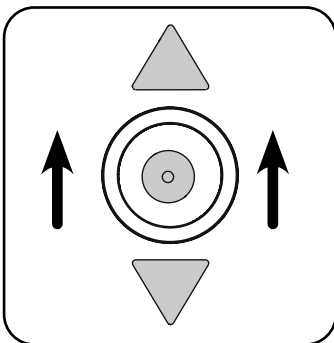
Numatic International Ltd recommends **ONLY** using 911948 NX1K LFP battery type Lithium Batteries provided with this machine.



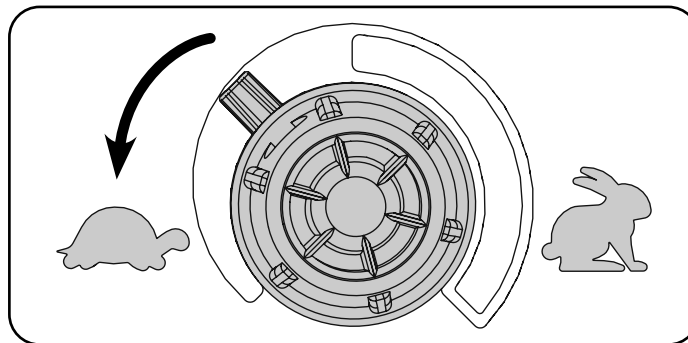
Insert the Ignition key and switch the machine on. (Fig. A)



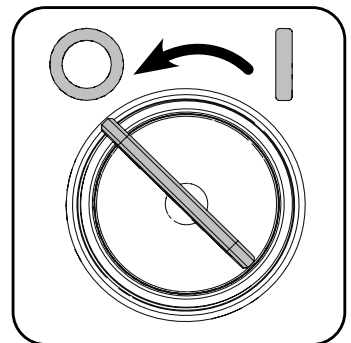
ENSURE THAT NO METAL OBJECTS COME INTO CONTACT WITH BATTERY TERMINALS WHILE THE BATTERIES ARE EXPOSED.



Turn the key to switch on the machine, set lever to forward.



Set to slowest speed, depress accelerator and drive off the pallet using ramp provided.

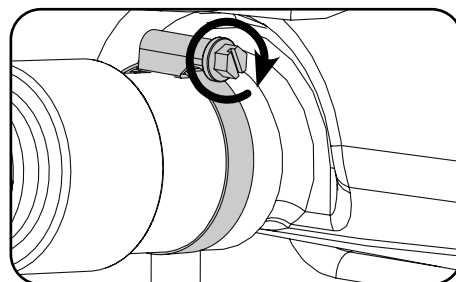
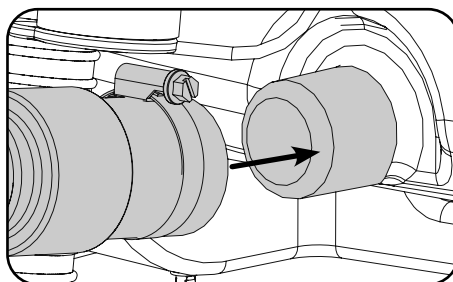
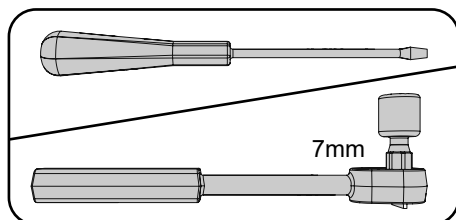


Once in a safe location switch off machine.

Note: DO NOT depress accelerator pedal while software initialises. The machine will not operate in reverse with the floor tool lowered. The seat is fitted with a pressure sensor that disables the machine until an operator is seated.

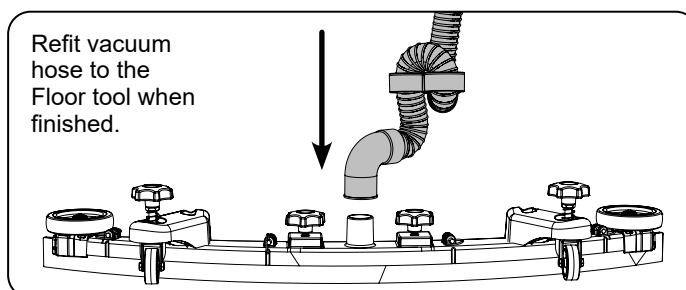
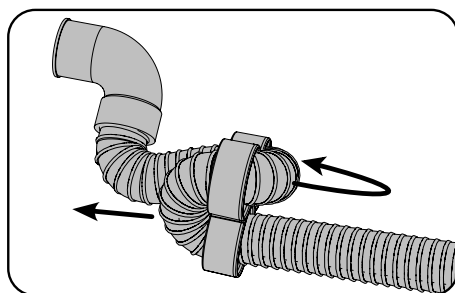
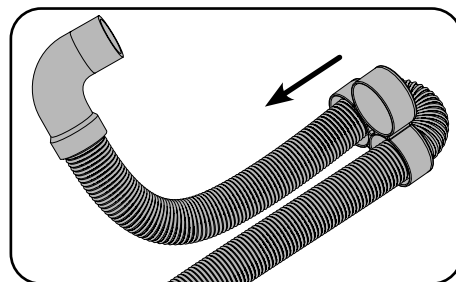
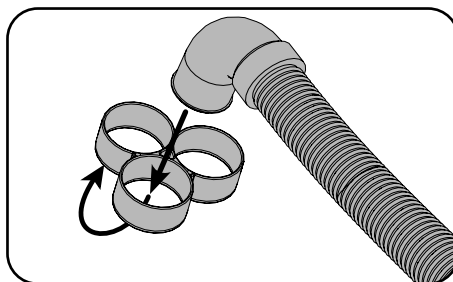
Machine Set-up Guide

Fitting Dump Hose



Fitting the Hose Guide

The U-bend in the hose prevents water spillage when the vacuum is switched off. Refit vacuum hose to the floor tool when finished.



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

Fitting the Floor Tool

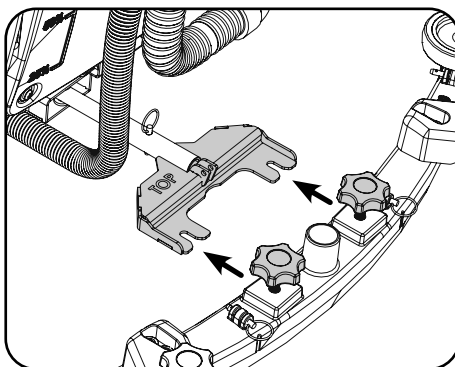
Note: Raise floor tool before driving to the cleaning area.
The machine will not operate in reverse with the floor tool lowered.

Lower the floor tool arm by moving the release lever to the upper position (Fig.1).

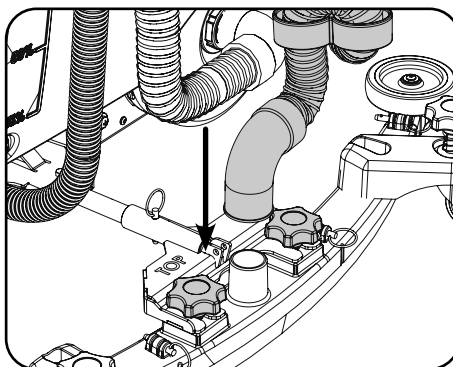
Break-away Floor Tool

The floor tool design incorporates a safety knock-off feature, this allows it to safely disengage from its mounting should it become caught on an obstruction during forward movement.

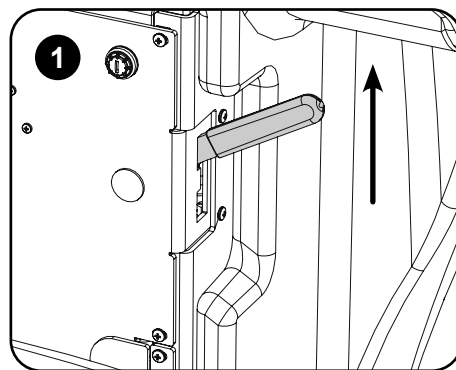
Make sure you do not over tighten the retaining knobs.



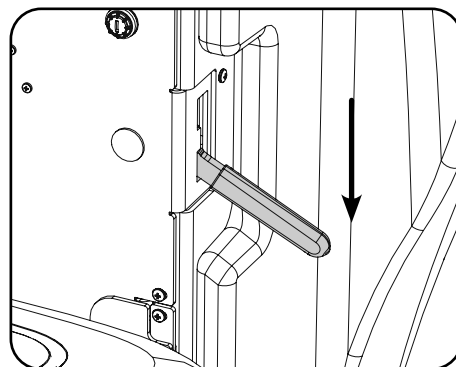
Slide floor tool onto bracket.



Tighten retaining knobs to finger tight and attach hose.



Lower the floor tool.



Raise the floor tool.

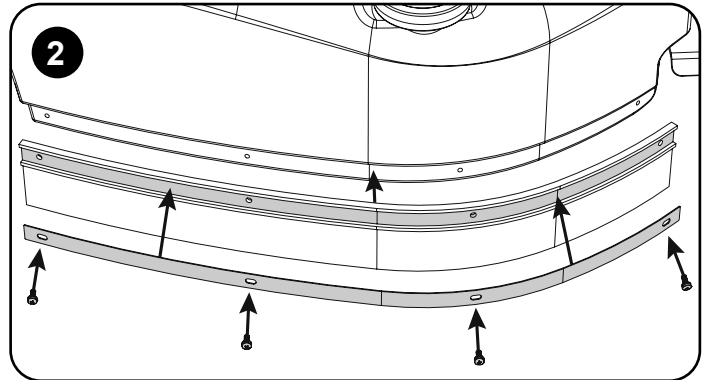
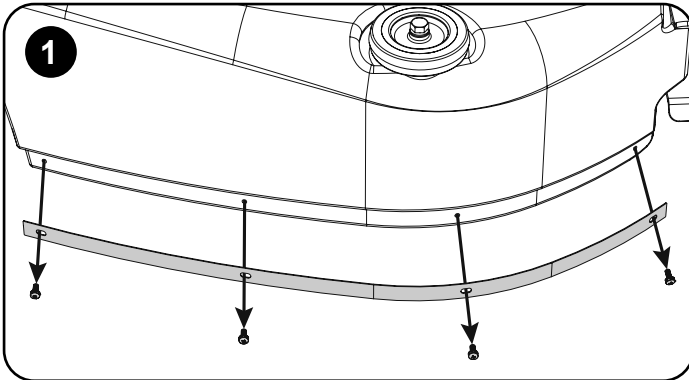
Machine Set-up Guide



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



Fitting the Side Pod Skirts

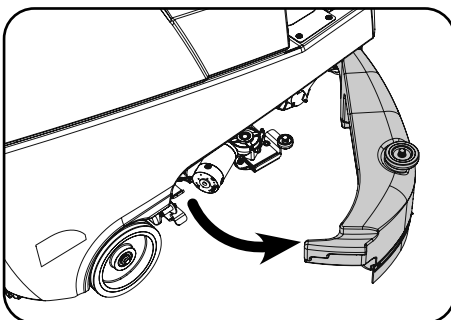
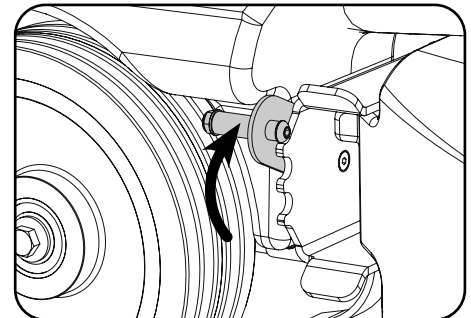
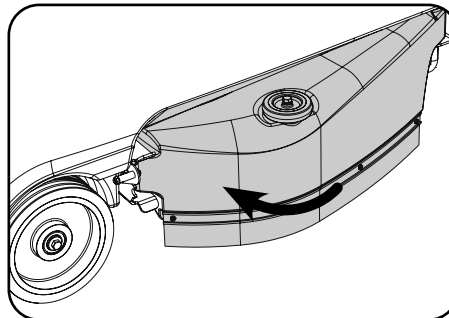


To fit the side pod skirts, first remove the steel retaining strip already fitted to the pod (Fig.1). Align the steel retaining strip within the locating grooves of the rubber skirt and refit using existing screws (Fig.2). Periodically the side skirts should be examined and checked for wear and damage. Replace as shown above.

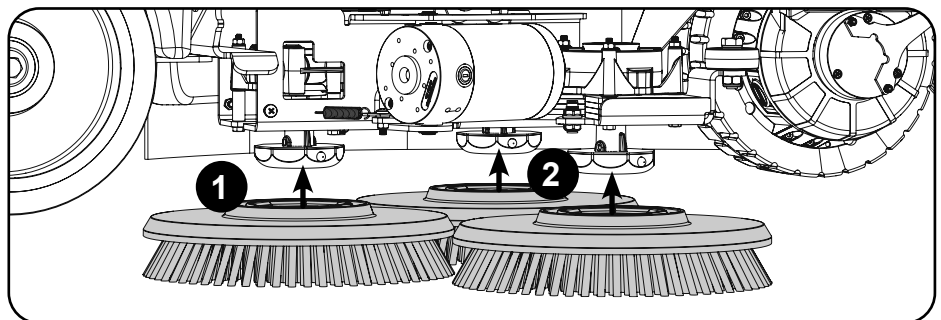
Fitting the Brushes

Featuring the OBS (Octagonal Brush System); the brushes push-fit up onto the chucks making fitting and removal a simple process.

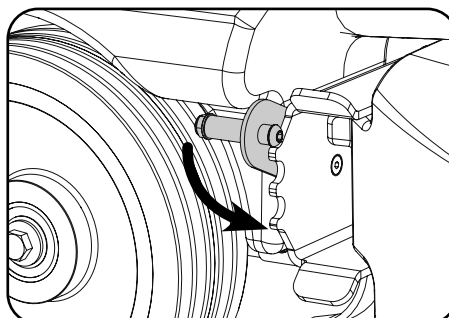
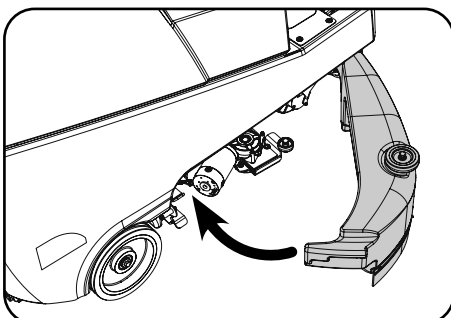
Push in side pod. Pull the side pod adjustment lever and set to the top position.



The side pod will now pull open



Fit middle brush first (brushes will click-fit onto the OBS drive chuck).
Fit outer brush next on both sides.



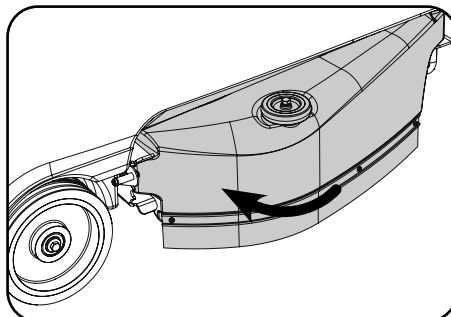
Close side pod and while keeping the side pod pushed in, set to appropriate width (see Setting the Width Adjustment, page 8)

Safety gloves are recommended for the changing of used brushes.

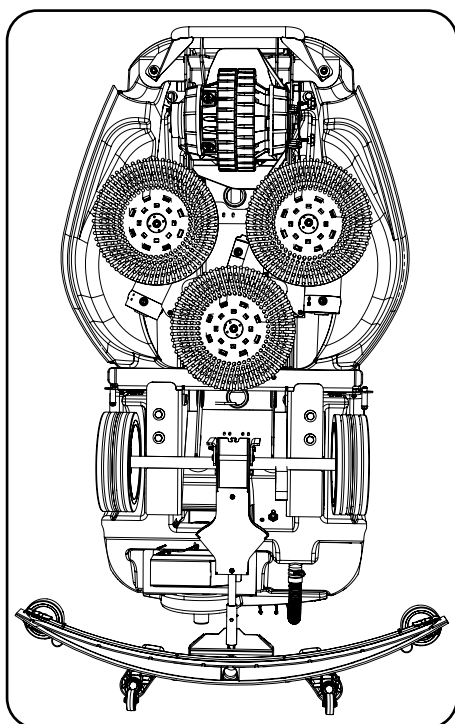
Machine Set-up Guide

Setting the Width Adjustment

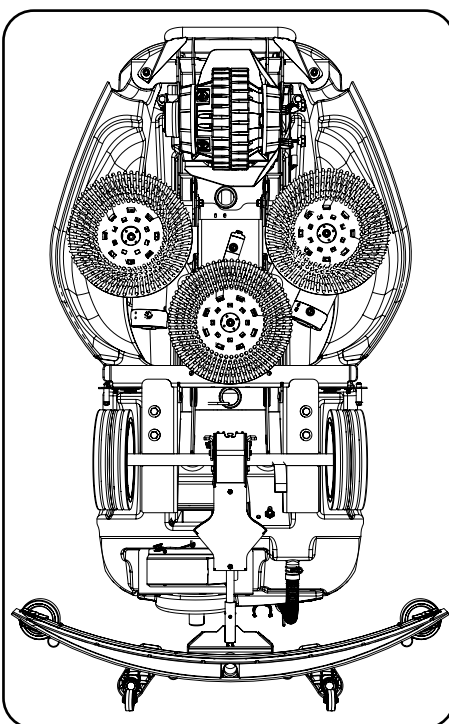
Owning the TVL850 ride-on scrubber dryer is like having 3 machines in one. With three width-settings the operator can quickly adapt the machine to any cleaning situation; without the need for any tools. The machine can be set to clean anything from a narrow corridor to a large warehouse. The TVL850 is a totally versatile machine.



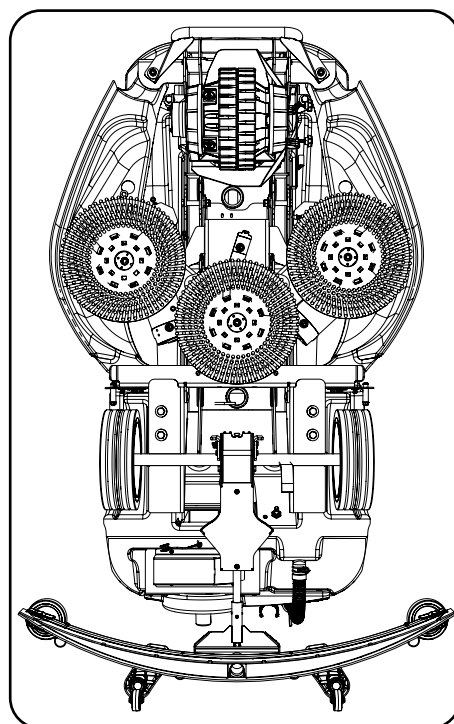
First push the side pod in, then pull the side pod adjustment lever and set it to one of the three width-settings. Repeat the operation on both sides.



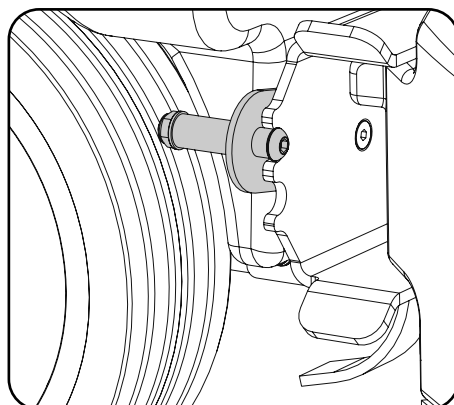
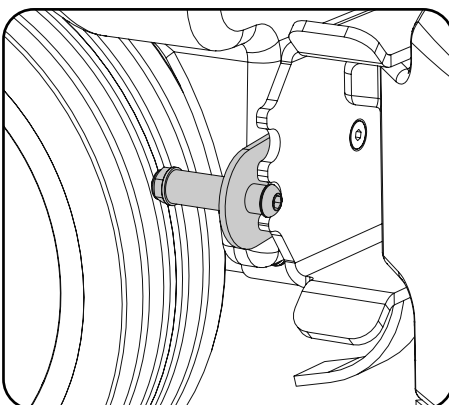
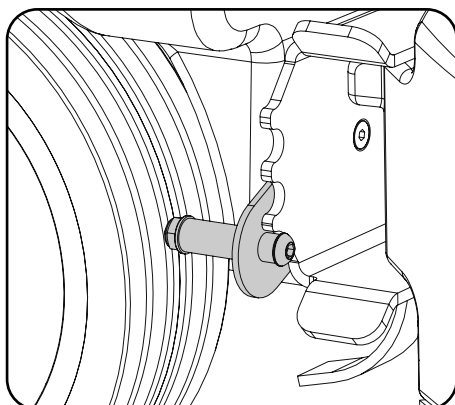
650mm



750mm



850mm



Machine Set-up Guide

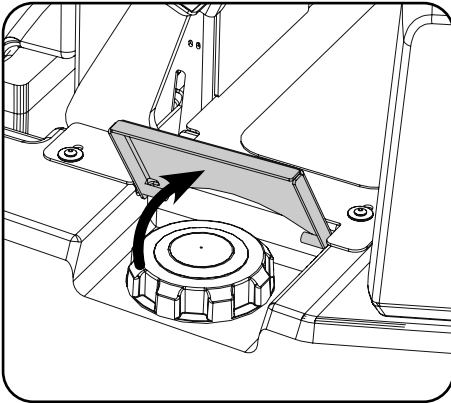


ALWAYS ENSURE THAT THE MACHINE IS SWITCHED OFF BEFORE MAKING ANY ADJUSTMENTS.

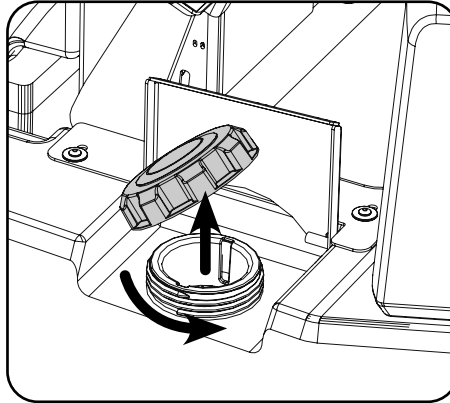


Filling the Clean Water Tank

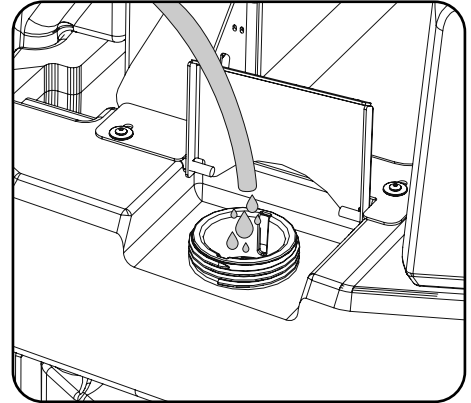
The TVL850 is equipped with a large capacity 120 litre clean water tank, allowing for large areas to be covered in a single fill.



To fill clean water tank, lift cover flap.



Unscrew and remove filler cap.



Fill tank using a hose or other preferred method.

Add cleaning chemicals to the tank following the manufacturers guidelines.

Note: A filter basket ensures that contaminants (i.e. leaves, hair, dirt, etc.) are not allowed to enter the clean water tank during the filling process. Periodically inspect and clean if necessary.



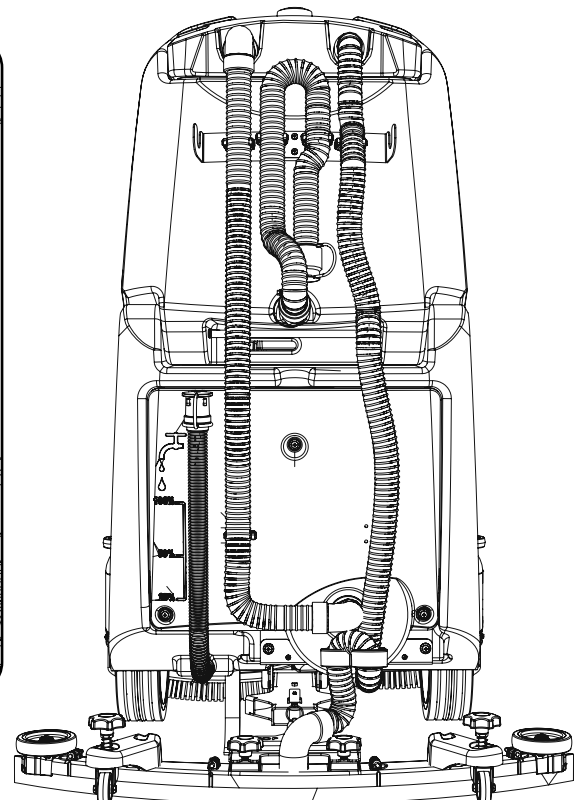
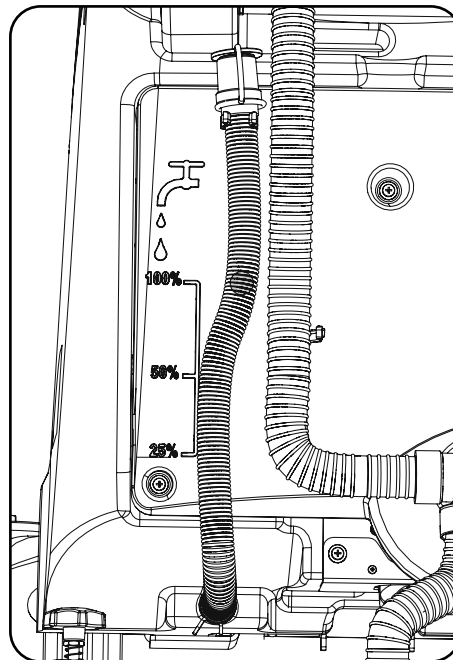
WHEN HANDLING AND MIXING CHEMICALS
Always ensure that chemical manufacturer's safety guidelines are followed.



Fill-Level Indicator

The water level in the clean water tank can be measured using the visible float inside the clean water dump hose located on the rear of the machine.

Do not overfill the clean water tank.



Machine Set-up Guide

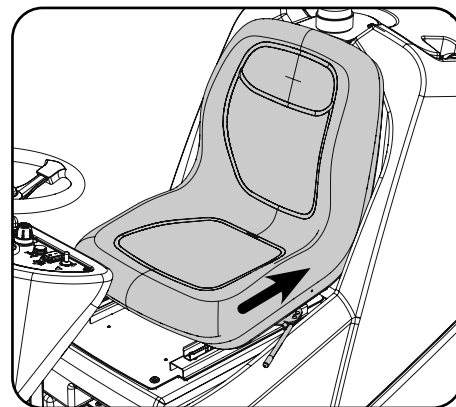
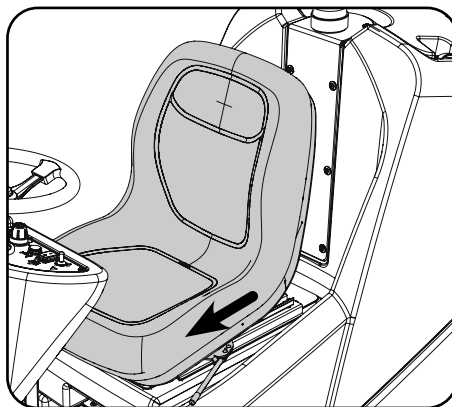
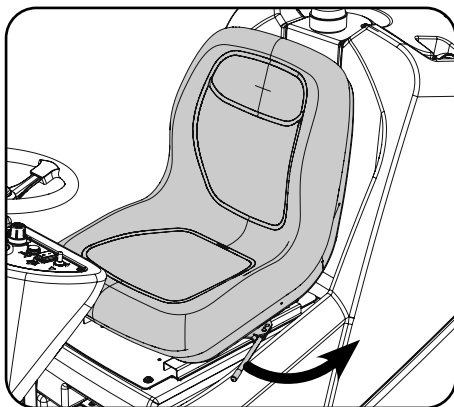


IMPORTANT
Do not operate machine unless the operator manual has been read and fully understood.



Adjusting the Seat

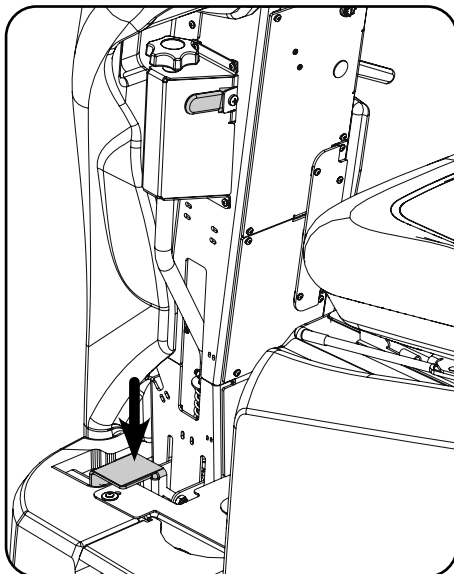
Sitting in the driving position, adjust the seat forwards or backwards as necessary by using the lever found on the left-hand side.



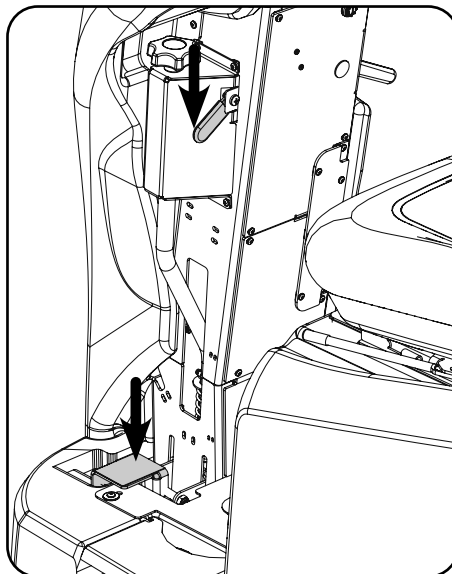
Note: The seat is fitted with a pressure sensor that disables the machine until an operator is seated.

Raise/ Lower Brush Deck

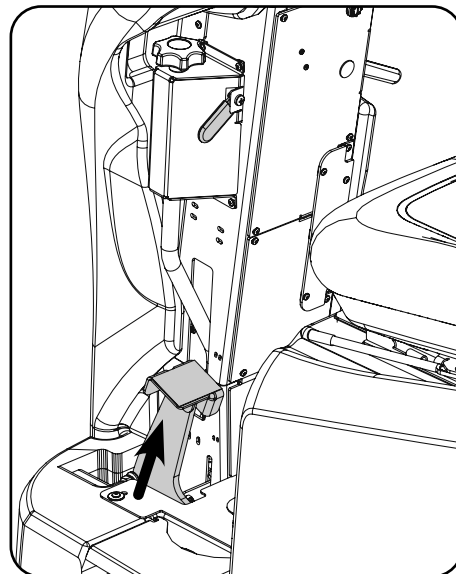
After preparing the floor, we are now ready to set the controls to suit the cleaning conditions. Before any settings can be applied, ensure the brush deck is lowered.



Depress left-hand pedal



While depressing left-hand foot pedal
press down the release lever



Gently release the foot pedal to lower the
brush deck

Machine Operation



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

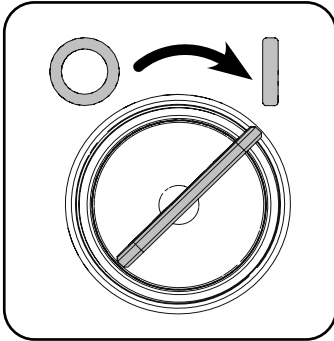


Drive the machine to the cleaning site.

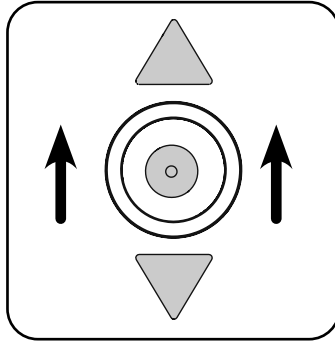
Before cleaning operation, place out appropriate warning signs and sweep or dust-mop the floor.

When ready for cleaning lower the floor tool (page 6) and the brush deck (page 10).

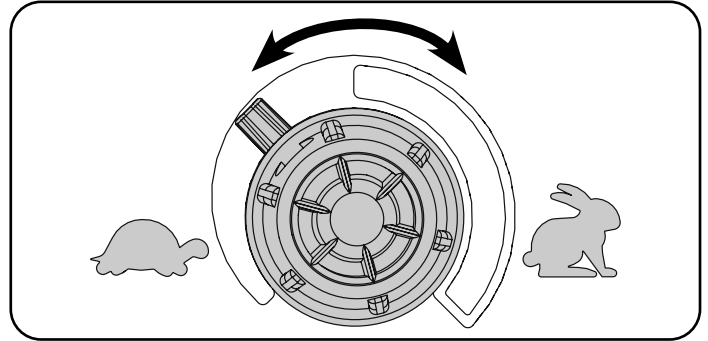
Setting the Cleaning Controls



Insert the Ignition key and switch the machine on.



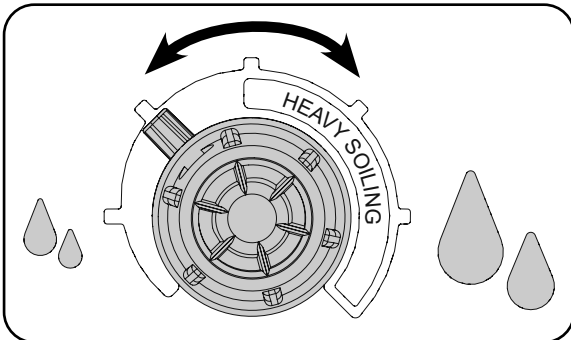
Set direction switch to forward.



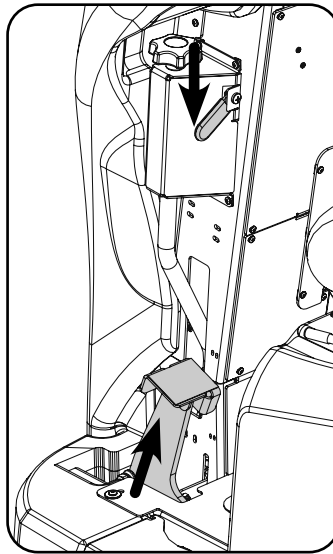
Turn speed dial to set desired cleaning speed.



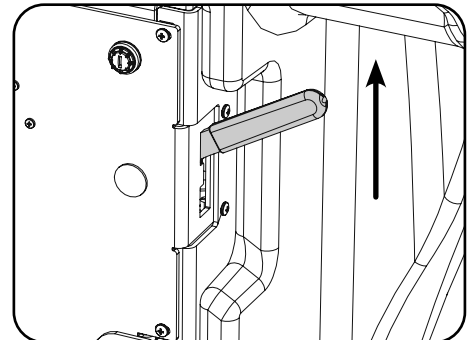
NOTE: MACHINE WILL NOT REVERSE WITH FLOOR TOOL IN LOWERED POSITION



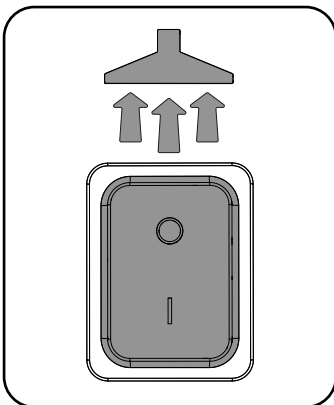
Turn dial to set desired water flow.



Lower brush deck by pushing down on the left pedal, lower handle and raise foot pedal.



Lower floor tool by lifting lever



Press the vacuum switch to the on position to turn on suction.

The machine is now set up ready to start cleaning, depress the accelerator pedal to start cleaning process.

Adjust waterflow and speed according to floor type and level of soiling

Machine Operation

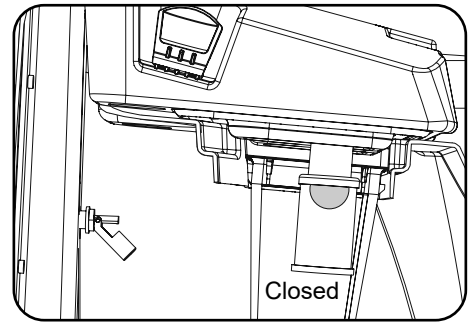
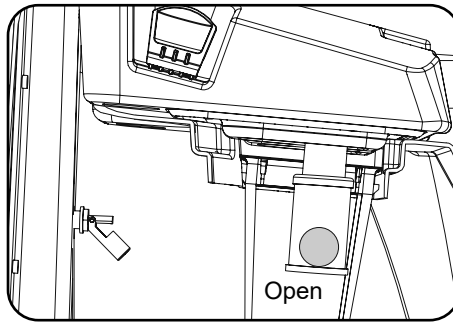
Waste Water Tank Full

The vacuum shut off system stops the airflow when the top waste water tank is full. A float ball rises as the water level rises, when the waste water tank is full the float ball blocks the vacuum hole to prevent any liquid entry. The vacuum motor will continue to run, there is an audible difference in the sound when the waste water tank is full.

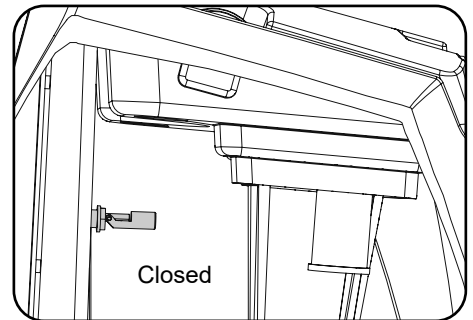
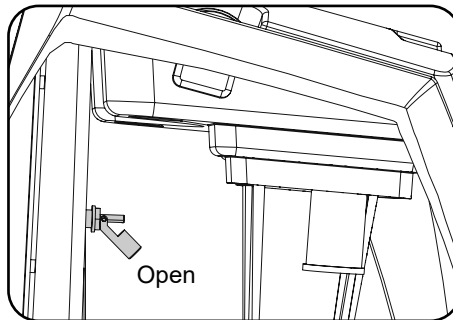
A secondary shut off will engage if the water exceeds the float ball shutting off the vacuum until the water level is lowered.

Located in your waste-water (top) tank is a full tank switch, this stops your machine from working once the waste-water reaches its maximum limit.

Sometimes the switch gets clogged and blocked, clean to ensure correct operation.

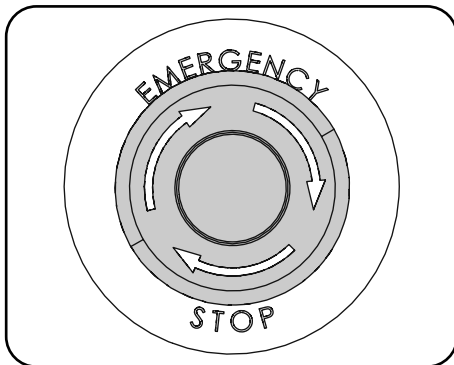


Float Ball Shut Off

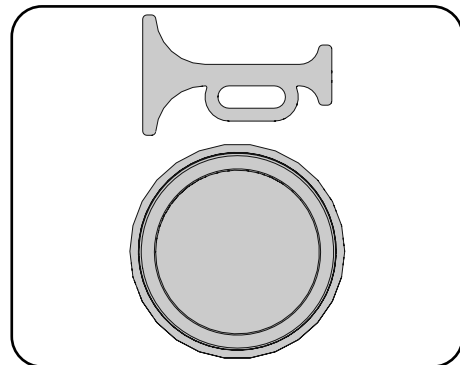


Full Tank Switch

Emergency Stop Button/ Horn



In an emergency, strike the emergency stop to disable the machine.



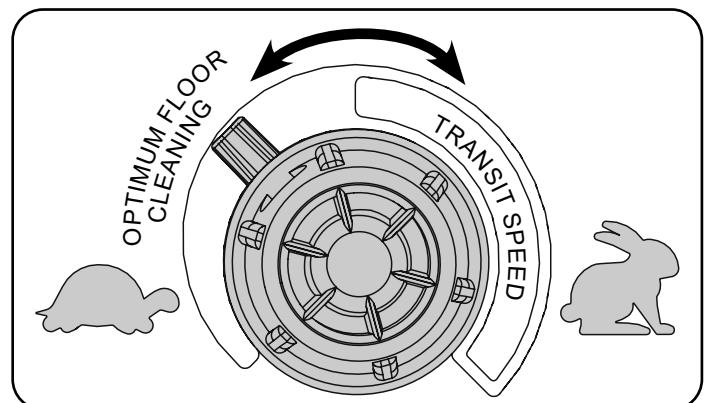
Horn button - for sounding a warning signal

Note: After the Emergency Stop button has been pressed the Traction LED will flash 7 times, pause and repeat until the Emergency Stop button has been reset and the machine switched off / on.

Maximum Speed Control

Set desired traction speed as required, depending on floor type and level of soiling.

Once the Max speed has been set using the control knob on the control panel, fine adjustments can be made using the variable control speed pedal located on the right side of the footplate.



Machine Operation

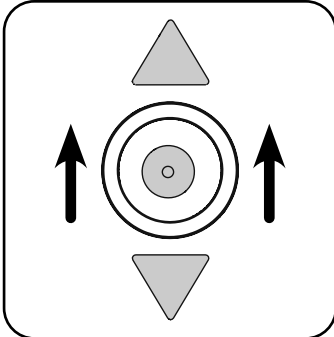


DO NOT OPERATE THE MACHINE ON INCLINES THAT EXCEED 11%.



Machine in Use

To operate, select forward and depress the accelerator pedal.



Set lever to forward.

Vacuum pick-up and water flow will turn on if selected and providing the brush and floor tool are in the lowered position, the machine will move forward.

Clean water is dispersed evenly via 'THRU- FEED' scrubbing brushes. The waste water is then retrieved by the suction floor tool. Overlap each scrubbing path by 10cm to ensure an even clean.

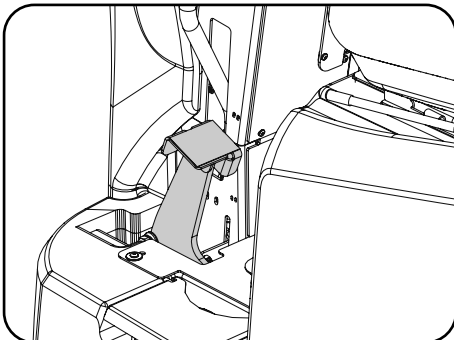
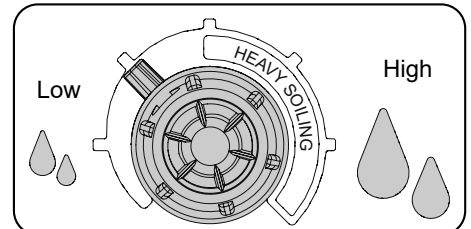
After stopping, let the vacuum motor run for 10 seconds to collect any water left in the vacuum hose, then switch the vacuum motor off.

On heavily soiled floors use a 'double scrub' technique. First pre-scrub the floor with the floor tool in the raised position, allow the chemicals time to work, then scrub the area a second time with the floor tool lowered.

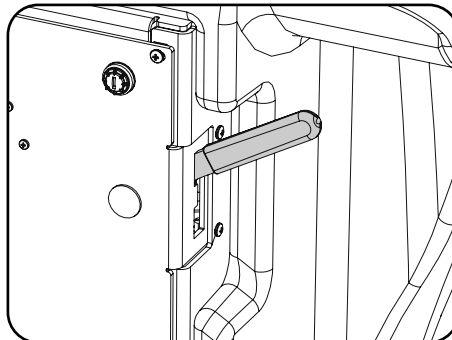
If your machine leaves streaks on the cleaned floor, either clean the floor tool blade or adjust blade height for optimum performance.



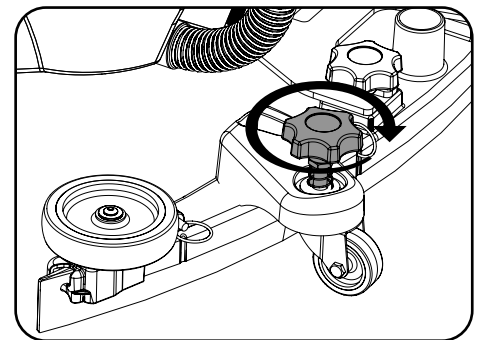
NOTE: MACHINE WILL NOT REVERSE WITH FLOOR TOOL IN THE LOWERED POSITION



Brush deck in lowered position.



Floor tool lever in lowered position.



Adjusting the blade height.

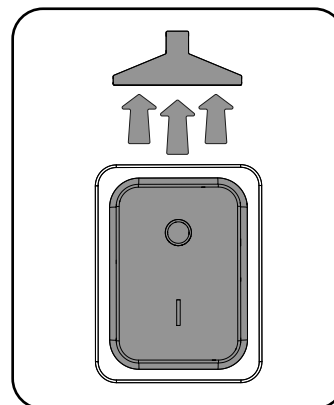
Off-aisle Cleaning Kit (Optional Extra Accessory) 606182

The optional off-aisle cleaning kit gives added flexibility to the operator.

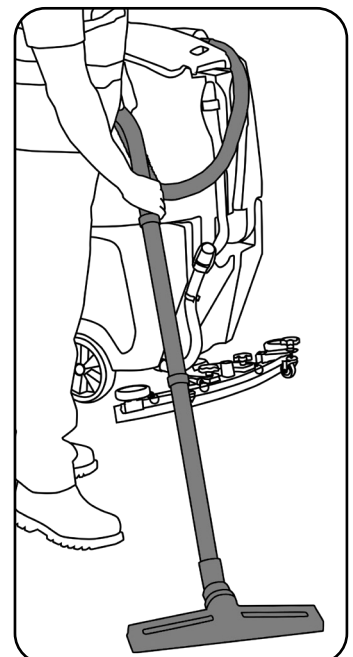
The kit can be used to clean hard to reach / inaccessible areas. Remove the vacuum hose from the floor tool and attach to the off-aisle kit.

To operate the vacuum, press the vacuum switch on.

Note: Return the hose to the floor tool once finished using the off-aisle facility.



Vacuum switch.



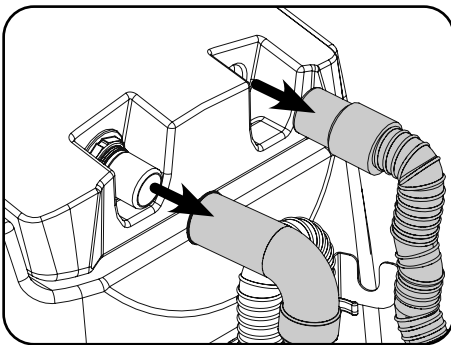
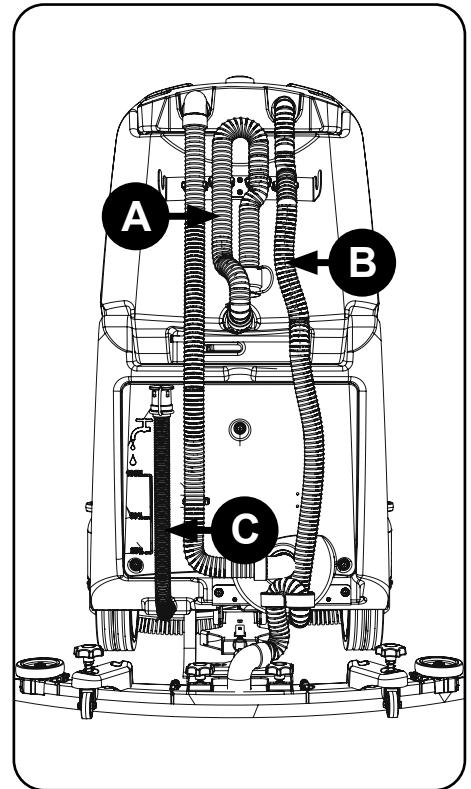
Machine Cleaning



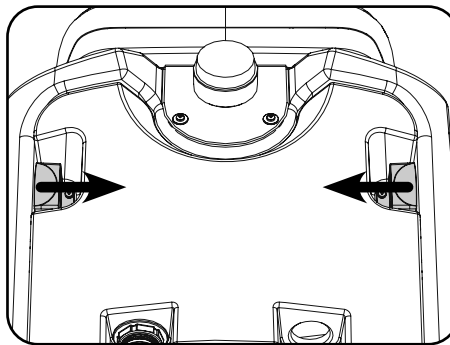
ALWAYS ENSURE THAT THE MACHINE IS SWITCHED OFF PRIOR TO ANY MAINTENANCE.



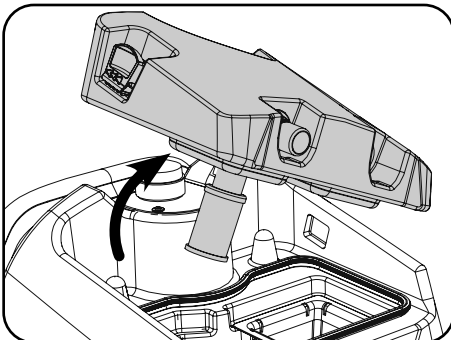
- A** After use, empty waste water tank using emptying hose and flush out with clean water.
- B** Remove floor tool vacuum hose ensuring you remove the U-bend clip and flush out with clean water.
- C** Empty clean water tank, using emptying hose and flush out with clean water.



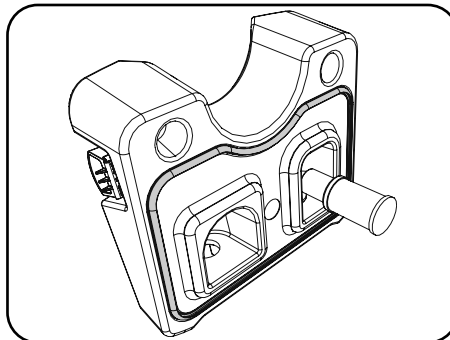
Remove hoses



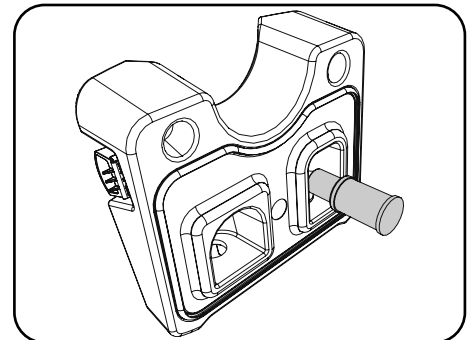
Press in the 2 retaining handles of the separator



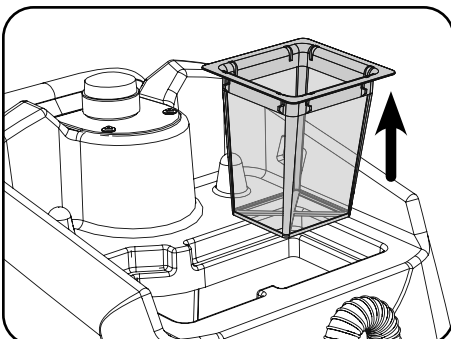
Hold the handles and lift the separator away from the machine



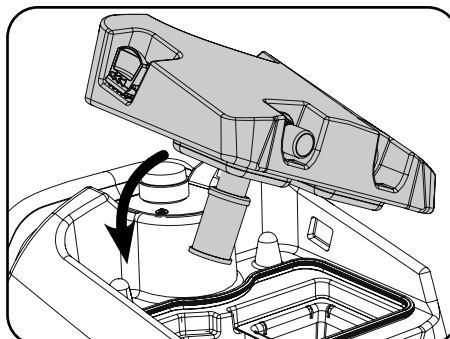
Clean and examine rubber seal during each clean



Remove and clean vacuum shut off filter



Hold the handles and lift the separator away from the machine



Clean and examine rubber seal during each clean

Located in your waste water top tank is a vacuum shut off system, this prevents suction when the waste water tank is full.

It also prevents foam created by high-foaming detergents from entering the motor.

Sometimes the float vents get clogged and blocked, clean to ensure correct operation. Remove debris basket filter and rinse using clean water, and refit. Refit both of the vacuum hoses.



IMPORTANT: IF THE DEBRIS BASKET IS ALLOWED TO BECOME CLOGGED, VACUUM PERFORMANCE CAN DETERIORATE.



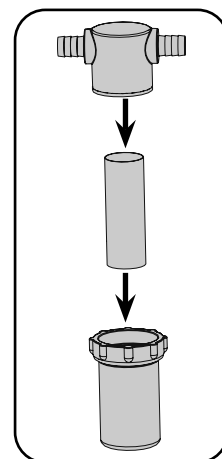
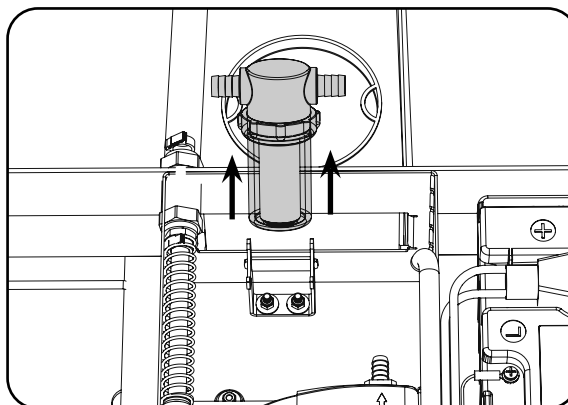
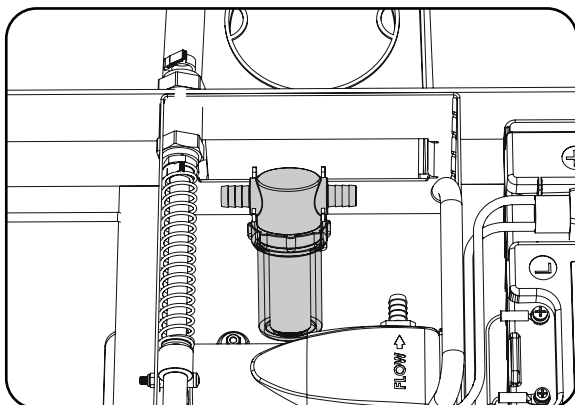
Machine Cleaning



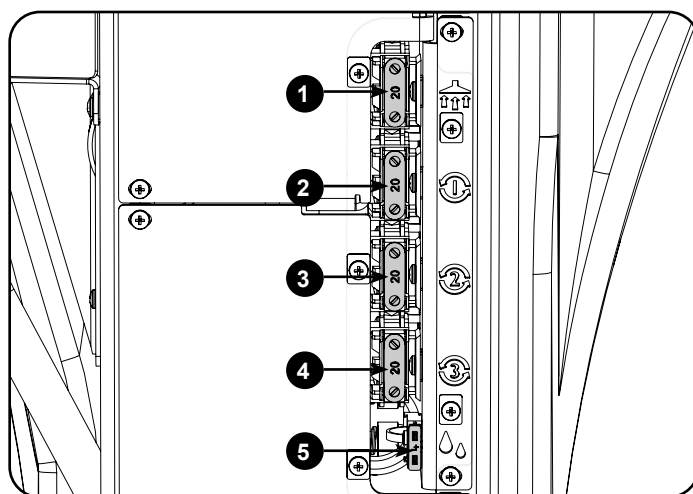
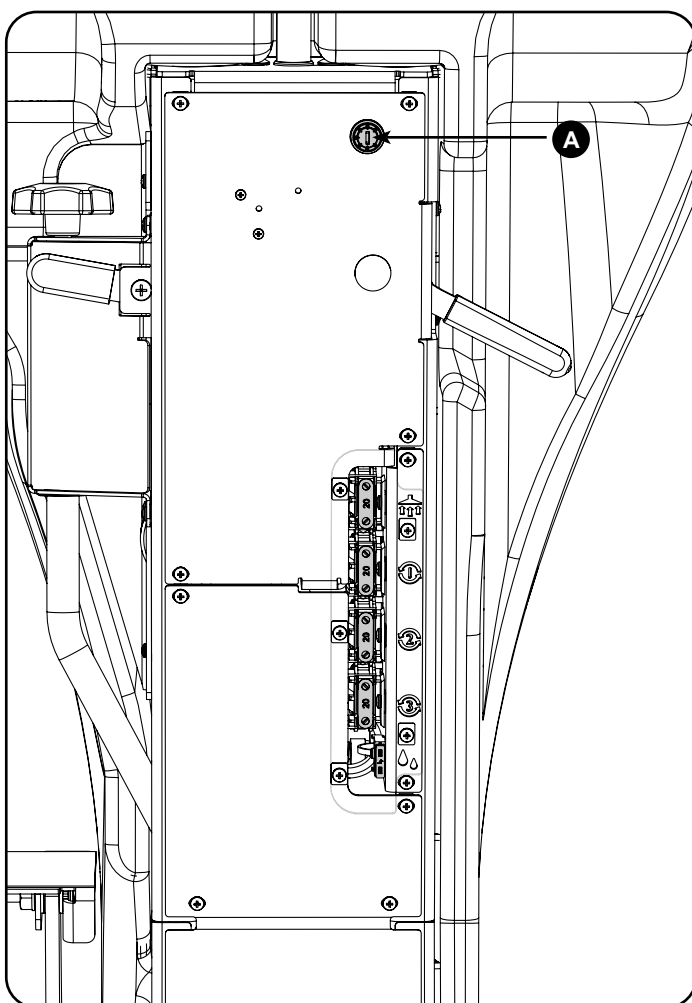
ALWAYS ENSURE THAT THE MACHINE IS SWITCHED OFF PRIOR TO ANY MAINTENANCE.



The clean water pump filter is located to the rear of the battery compartment, and should be checked before each use. Lift the filter off of the cradle, unscrew the bottom and remove, taking care not to spill any liquid on to the batteries. Rinse using clean water and refit, refitting is reversal of removal.
NOTE: Any spills should be wiped up before tank is lowered.



Fuses



Located on the inside of the steering column is the machines fuse box containing the fuses.
To the right of the fuses are the symbols identifying what the fuse links to.

Fuses in order:

A - 2.5 Amp safety fuse

1 - 20 Amp fuse for Vacuum Motor

2 - 20 Amp fuse for Brush Motor 1

3 - 20 Amp fuse for Brush Motor

4 - 20 Amp fuse for Brush Motor

5 - 4 Amp fuse for Water Pump.

Changing the Floor Tool Blades

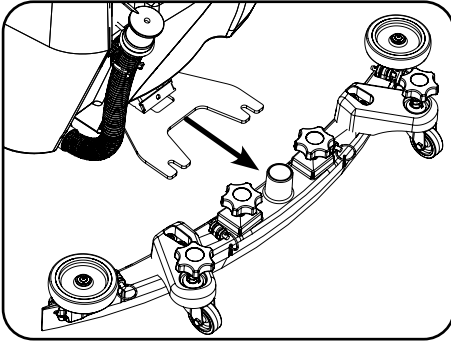


ALWAYS ENSURE THAT THE MACHINE IS SWITCHED OFF PRIOR TO MAINTENANCE.

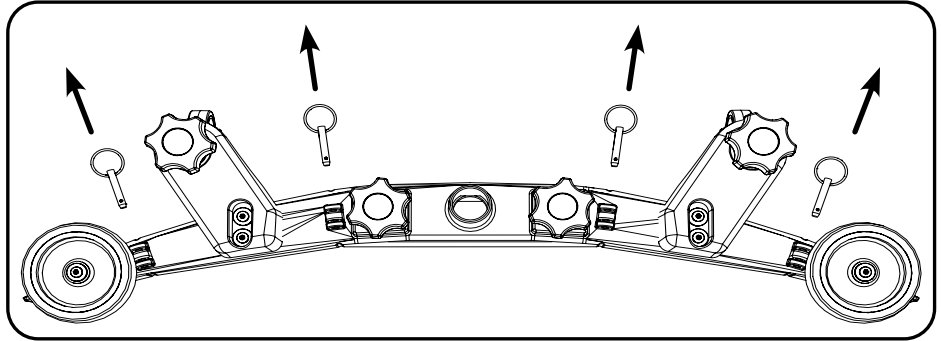


Lower the floor tool then unscrew the retaining knobs and slide it off the holding bracket.

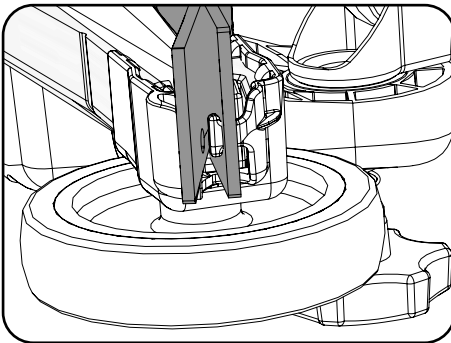
Rinse the floor tool assembly with clean water and refit.



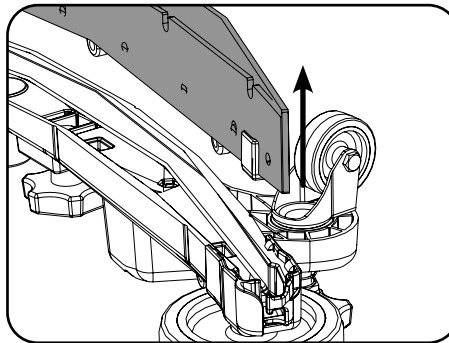
Remove floor tool.



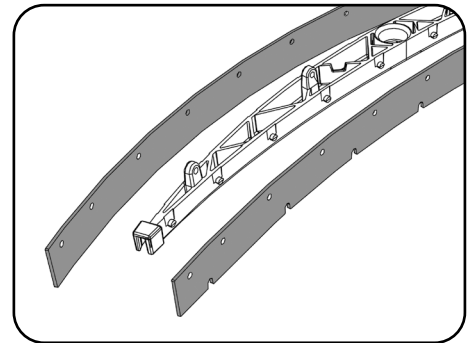
Remove four retaining pins.



Turn the floor tool over.



Separate the blade from the carrier.



Peel away blades.

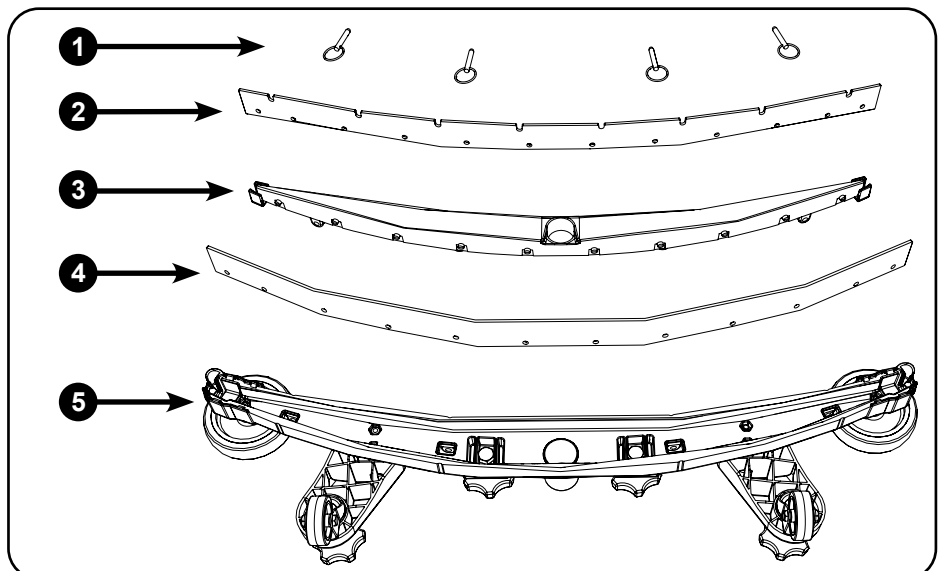
Periodically the floor tool blades should be examined and checked for wear and damage.

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

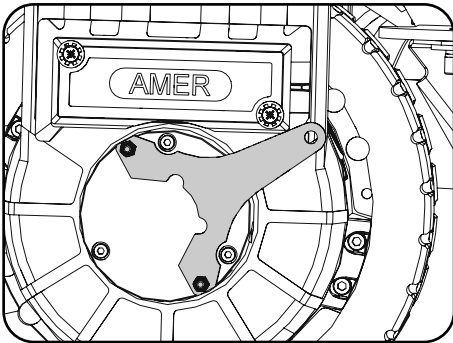
Note: The blades are designed to be reversible, thus extending their useful working life.



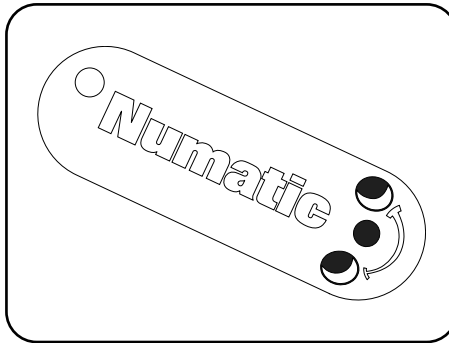
Free Wheel and Towing



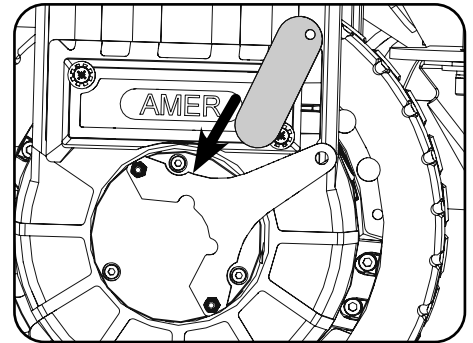
ALWAYS ENSURE THAT THE MACHINE IS ON LEVEL GROUND BEFORE DISENGAGING BRAKE ARM. NEVER DISENGAGE THE BRAKE WHEN THE MACHINE IS ON A SLOPE / GRADIENT. NEVER TOW THE MACHINE WITH THE BRAKE ENGAGED AND POWER PLUG CONNECTED! REMOVE BATTERY FUSES



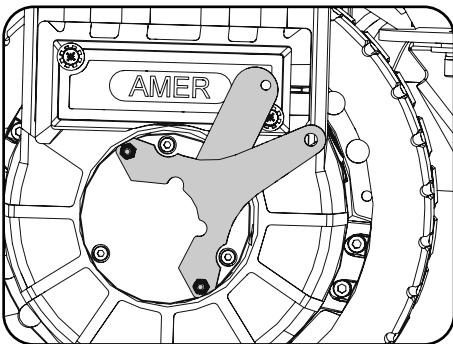
The TVL850 is equipped with a free wheel function that will enable the operator to move / tow the machine. The motor brake is disengaged by opening the brake arm on the side of the drive wheel.



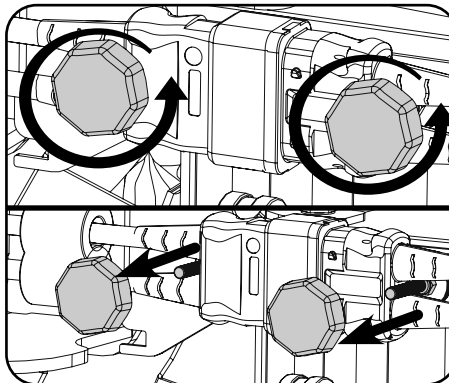
Your start-up kit includes a brake drive disengage key (329945).



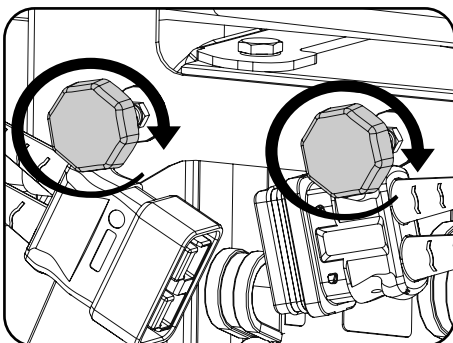
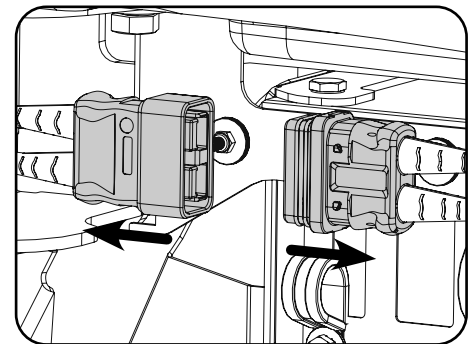
Insert the disengage key between the brake arm and drive housing.



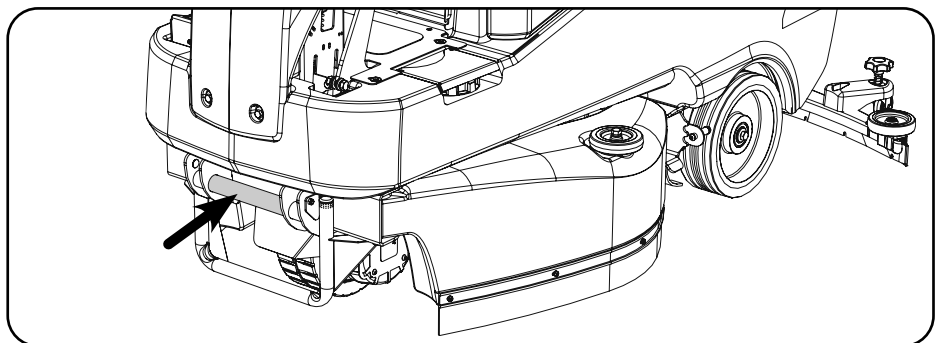
Once the key has been inserted the motor brake will be fully disengaged. The machine will now be in full free wheel mode.



Undo and remove the two retaining knobs. Pull the power connector block apart.



Refit the retaining knobs.



Care must be taken when towing; WHEN TOWING DO NOT EXCEED AVERAGE SPEED OF 3 KPH. The machine can be towed from the front bar as indicated.

When destination place reached, remove brake disengage key, connect power plug.



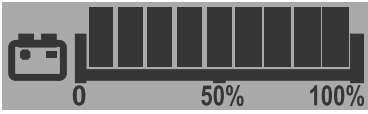
WARNING!
WHEN THE BRAKE IS DISENGAGED AND POWER PLUG IS DISCONNECTED THE MACHINE IS IN FREE WHEEL MODE AND HAS NO BRAKE FACILITY, WHEN TOWING THE MACHINE ENSURE THAT A SUITABLE TOW BAR IS USED.



Remember to remove the brake disengage key when you reach your final destination / before using the machine. NOT FOLLOWING DESCRIBED METHOD COULD DAMAGE MAIN CONTROL UNIT AND VOID THE WARRANTY.

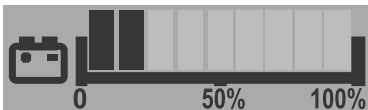
Machine Charging

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



1

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 one or two lights / bars remain illuminated, the operator must consider charging the machine.



2

The LFP batteries are sealed for life and are totally maintenance free.

The on-board charger automatically monitors the charging process and will switch to float charge mode when the batteries are fully charged. Float charge mode allows to maintain LFP batteries at the right level of health. The machine should be left on float charge overnight or over the weekend at least once per month or more frequently if needed.

Insert the charging lead required for your country into the charging point.

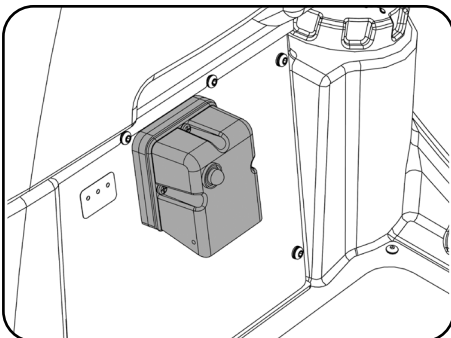
The machine charging point is located to the rear of the machine under the control panel.

Connect to a suitable power supply.

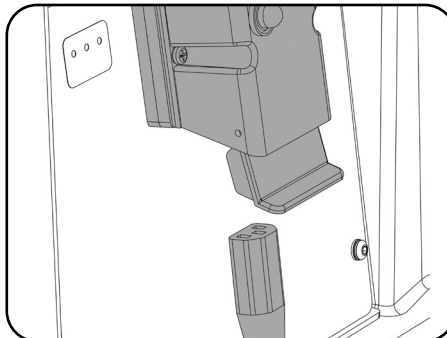
Once mains power is connected the red charging indicator will illuminate.

To ensure a full charge, from an empty state, the machine should be left for a period of 8 hrs.

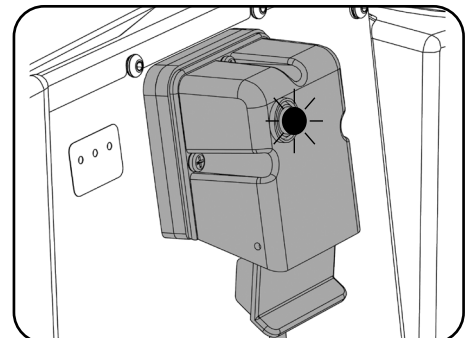
Once fully charged, disconnect the charging lead from both the power supply and the machine.



Machine charging point, above footplate.



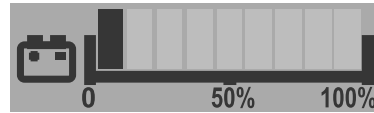
Insert country specific charging lead.



Red charging indicator illuminates when charging.

! ALWAYS ENSURE THAT THE MACHINE IS SWITCHED OFF PRIOR TO CHARGING. !

When the machine is getting close to empty the last light starts to flash, the operator should then take the machine to a suitable charging point. When the battery icon starts flashing, the vacuum and brush motors will be disabled and the user should charge the machine.

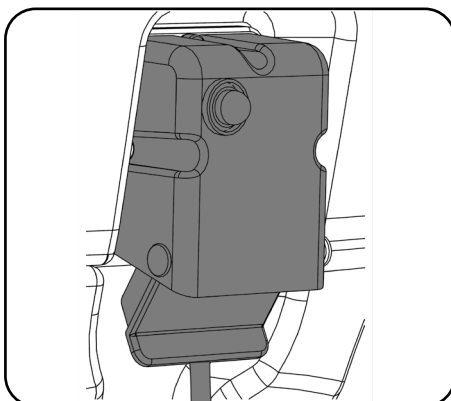


3

Alternative Display
When the last red light starts flashing, the vacuum and brush motors will be disabled and the user should charge the machine.

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.

It is recommended to leave the machine connected to power grid overnight, at least once a month. If the user does not disconnect the cable after full charge it is not an issue.

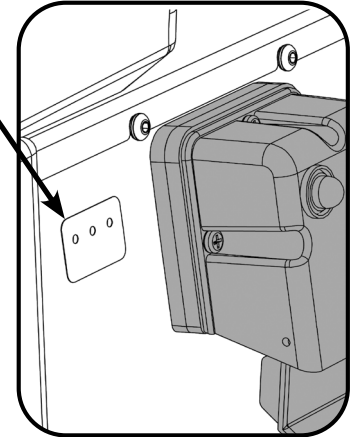
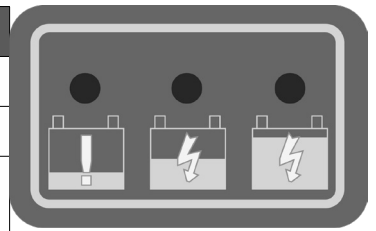
Do not leave the machine in a discharged state.

Periodically inspect the battery connections for tightness and corrosion.



Charging Light Sequence

Signal (LED)	Meaning																	
Red LED on	First Phase (Constant Current Mode).																	
Orange LED on	Second Phase (Constant Voltage Mode).																	
Green LED on	Third Phase (Constant Voltage Mode) Charge Complete. However, after full re-charge, leaving the charger connected moves to float-charge mode to help to maintain a healthy balance between batteries.																	
Red LED flashing followed by Pause	Cooling Fan Locked > 1 flash between pause. Over Voltage Protection / Output Short Circuit / Battery Reverse Polarity > 2 flashes between pause. Over Temperature Protection > 3 flashes between pause. Charge Time has exceeded 16 hrs during phase 1 or 2 > 4 flashes between pause.																	
	<table><tr><th>Condition</th><th>RED LED</th><th>YELLOW LED</th><th>GREEN LED</th></tr><tr><td>Pre-charge Timeout</td><td rowspan="4">Flashing 4 Times</td><td></td><td>O</td></tr><tr><td>CC Timeout</td><td>O</td><td></td></tr><tr><td>CV Timeout</td><td>O</td><td>O</td></tr><tr><td>Battery Disconnection</td><td></td><td></td></tr></table>	Condition	RED LED	YELLOW LED	GREEN LED	Pre-charge Timeout	Flashing 4 Times		O	CC Timeout	O		CV Timeout	O	O	Battery Disconnection		
	Condition	RED LED	YELLOW LED	GREEN LED														
	Pre-charge Timeout	Flashing 4 Times		O														
	CC Timeout		O															
	CV Timeout		O	O														
Battery Disconnection																		
Note: O means illuminates continuously																		



Note: 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:

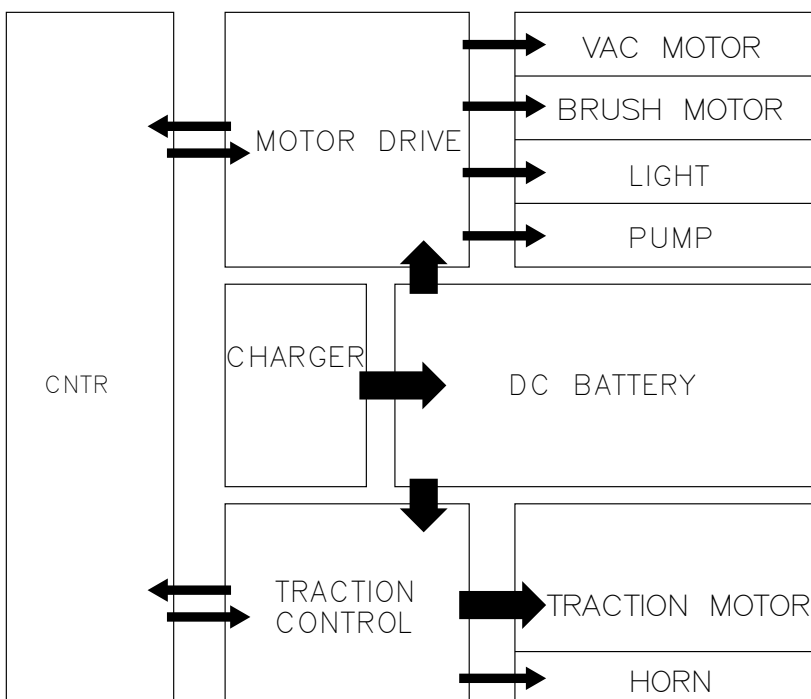
Float charge mode allows to maintenance LFP batteries at the right level of health.

The machine should be left on float charge overnight or over the weekend at least once per month.

Charge fully the day before you start using the machine again.



Schematic Diagram



Specifications

Model - TVL850								
(Empty) Net Weight	RTU / Gross Weight + 75Kg Operator	Brush Weight	Brush Width	Brush Pressure	Pad Width	Pad Pressure	Cleaning Area	
150Ah - 287.6 kg	482.6 kg	31 kg	3 X 300mm	20.6 G/cm ²	3 X 300mm	16 G/cm ²	4250m ² @ 5 Km/Hr	
200Ah - 298.4 kg	493.4 kg							
250Ah - 309.2 kg	504.2 kg							
300Ah - 320 kg	515 kg							
Transaxle	Run Time	Total Battery Weight		Charge Times		Height	Length	Width
24 V / 700 W	150Ah = 3 Hrs 5 Min	32.4 kg		7.5 Hrs		1425 mm	1580 mm (1676 mm)	740 mm (1054 mm)
	200Ah = 4 Hrs 10 Mins	43.2 kg		10 Hrs				
	250Ah = 5 Hrs 15 Mins	54 kg		12.5 Hrs				
	300Ah = 6 Hrs 20 Mins	64.8 kg		15 Hrs				
Brush Speed	Airflow	Transit Speed	Capacity	Brush Motor	Vac Motor	Water Flow Rate		Sound Pressure
212 r/min	26.6 L/sec Suction: 178 mbar	0-6.5 km/h	120L / 120L	3 X 400 W	24 V 600 W	0 - 4 L/min		≤ 70 dB (A) (ISO 11201 grade 2)
Hand Arm Vibration		Whole Body Vibration			Max Gradient			
ah≤2.5m/s ²		aw≤0.5m/s ²			11%			

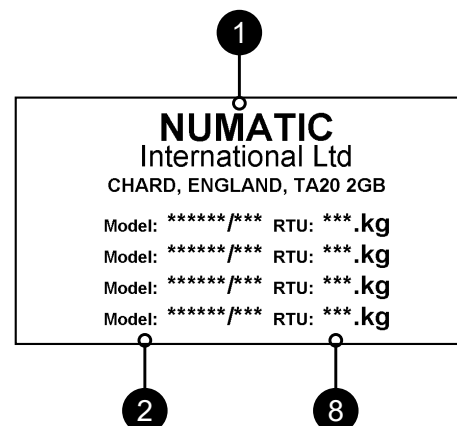
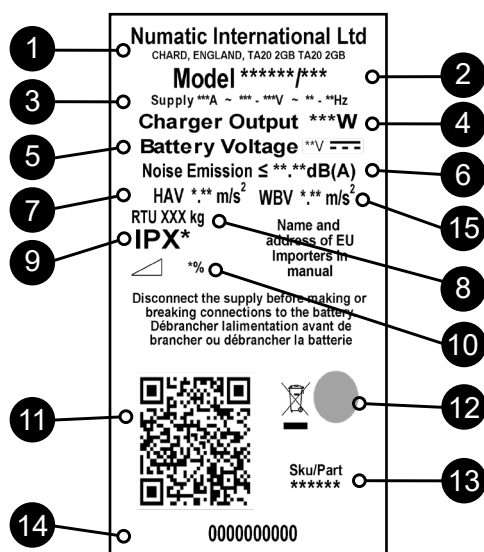
Make	Voltage	Capacity/Energy	Weight	Battery Size
NX1K Battery	25.6 V	50Ah / 1280 Wh	10.8 kg	315mm (L) x 132mm (W) x 185mm (H)

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	
		Possible bad connection between batteries, controller, charger or fuses caused by loose connections, damaged wiring, water ingress		Switch OFF the machine : Remove Fuses 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 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		

Contact Service Agent

About the Machine

Rating Label	
1	Company Name & Address
2	Machine Description
3	Supply Current / Voltage / Alternating Current / Frequency
4	Charger Output
5	Battery Voltage
6	Noise Rating
7	Hand Arm Vibration
8	Weight (ready to use)
9	Ingress Protection Rating
10	Max Gradient
11	QR Code
12	WEEE Logo / Approvals Mark
13	SKU / Part
14	Machine yr/wk Serial number
15	Whole Body Vibration



WEEE (Waste, Electrical and Electronic Equipment)

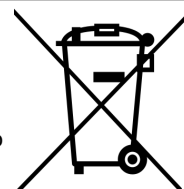
Scrubber dryer Accessories and packaging should be sorted for environmentally-friendly recycling.

Only for UK & 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: 100V-240V (50-60Hz)

DC Output: 25.6VDC, 20A

CAUTION



**No HOT drinks
when operating
this machine.**

Information for Scrubber Dryer



READ MANUAL BEFORE USE

COMPONENT	INTERVAL	INSPECT FOR
Charging 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. Operators shall be adequately instructed on the use of these machines.

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.

Do not use on cleaning surfaces having a gradient exceeding that marked on the machine. While on ramps or inclines, avoid sudden stops. Avoid sharp turns. Use low speed down ramps. Clean only while descending (driving down) the ramp.

This machine is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge.

Children should be supervised to ensure that they do not play with the appliance.

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

The use of other brushes may impair safety.

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

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

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

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

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

When cleaning, servicing or maintaining the machine, replacing parts or converting to another function the battery should be removed.

Mains operated machines shall be disconnected by removing the power plug, and battery operated machines shall be disconnected by using top ON/OFF button on the battery.

Machines left unattended shall be secured against unintentional movement.

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



CAUTION

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

This machine is not to be stored outdoors or in wet conditions.

This machine is for indoor use only.

NOTES: This machine is intended for commercial use, for example in hotels, schools, hospitals, factories, shops, offices and rental businesses.

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



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.
- Allow any inexperienced repairs. Call the experts.
- 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.
- Lift or pull the machine by any of the operating triggers, use the main handle.
- Allow water solutions to ingress to the battery.
- Remove the handle from the machine except for service and repair.

Information for Scrubber Dryer

READ MANUAL BEFORE USE



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 using the button that is placed on the battery top. 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, as according to local government guidelines.
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 22.5 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 Lithium-ion (Li-ion), Lithium Iron phosphate (LFP) type.
The fitting of any other type of battery may cause a safety hazard.
15. Switch off the battery using top ON/OFF button before cleaning or maintenance.

Battery Care

1. Battery Storage:
 - a. Batteries must be stored in a dry, level and clean location not exceeding a temperature range of 15°C ~ 25°C.
 - b. Batteries must be fully charged every 6 months when on-the-shelf or if the battery voltage reduces to 25V.
 - 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) - ZP19006F YYW W0 0001
- Serial number
Week of Production
Year of Production
- d. If a battery does not want to switch ON and the green LED on the top is not illuminating, 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.
 - ii. Do not leave batteries dormant for more than 6 months.

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 the elevated 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.

Batteries

Always re-charge the batteries after use.
Charge for a minimum of 4 hours. Leave the battery on charge overnight, at least once per month.
After it has been fully charged, this will prolong battery life.

Twin Tec
Maintenance

Spare Parts

PART NO.	BRUSHES	PART NO.	SIDE SKIRTS
918292	300MM TEN-TEC "OCTO" BRUSH - CODE RED	206947	SPLASH SKIRT
606151	300MM OCTO NYLOSCRUB BRUSH	PART NO.	HOSES
606153	300MM OCTO LONGLIFE BRUSH (GREEN)	908990	DUMP HOSE 1100MM X Ø38MM (TOP TANK)
606327	300MM OCTO LONGLIFE BRUSH (RED)	900901	HOSE CLOSURE REPLACEMENT (35MM-38MM STRETCH HOSE)
606406	300MM PADLOC OCTO DRIVE BOARD	908821	SUCTION HOSE 1700MM X Ø38MM
900719	300MM NULOC OCTO DRIVE BOARD	237718	HOSE GUIDE
PART NO.	FLOOR TOOL	213060	VAC HOSE 1060MM X Ø38MM
904694	850 TWINTEC ALUMINIUM FLOOR TOOL (38MM HOSE, RED TRIM, SERILOR BLADES)	903977	DUMP HOSE ASSEMBLY C/W RED HOSE CAP (BOTTOM TANK)
900520	ALUMINIUM 850 FLOOR TOOL. REPLACEMENT SERILOR GREEN POLYURETHANE BLADES	237754	35-38MM BLACK HOSE CLIP
PART NO.	KEYS	901916	28MM HOSE CLIP
907208	SPARE SET OF KEYS (010K95, FOR 020SCA1/907149)	PART NO.	GENERAL
PART NO.	FUSES	908342	TANK FILTER (RED)
916942	TVL SPARE FUSE PACK	904197	RED BOTTOM TANK FILLING FILTER
PART NO.	SEAT COVER	904198	RED FILLER CAP
280001	RIDE-ON SEAT COVER	206953	FLOOR TOOL DETENT PIN
PART NO.	STRAINER/FILTER	909396	FLOAT BASKET FILTER
208888	EXTENDED STRAINER	PART NO.	CHARGING LEAD
208890	EXTENDED STRAINER CLEAR BOWL	221079	YELLOW CABLE EURO TYPE CHARGING LEAD
208830	STRAINER GASKET	220386	UK TYPE CHARGING LEAD
208889	EXTENDED STRAINER 50 MESH SCREEN		

Numatic Lithium-ion Rechargeable Battery

25.6V | 50Ah | 1280Wh | LFP26148129

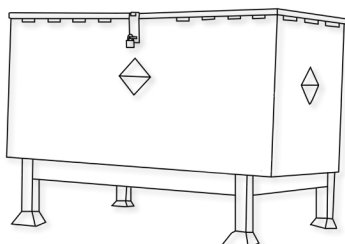


It is important that you observe the following information and warnings!

Emergency Contact Information		
Address:	Shenzhen ACE Battery Co.,Ltd Room 201, BAK Technology Building, No. 9 Keyan Road, Maling Community, Yuehai Street, Nanshan District, Shenzhen, Guangdong Province 518054, P.R. China	NUMATIC INTERNATIONAL LTD Millfield Road, Chard, Somerset, TA20 2GB, UK
Tel:	0086-755-83283710	0044-146-068600
Fax	0086-755-8328649	0044-146-068458
www.numatic.com www.numatic.de www.numatic.ch www.numatic.fr www.numatic.nl www.numatic.co.za www.numatic.pt www.numatic.es www.numatic.it www.numatic.dk		

1. DEFECTIVE BATTERIES

1. If a customer wishes to return a battery to a supplier after removing from product, then collection of the battery must be arranged by the supplier; however, **Faulty batteries must not be returned through the postal system or by courier.**
2. If on return to a supplier, OR at a customer base, a suspected defective battery shows any signs of impact damage, distortion, blistering, loose parts or leakage then on no account should it be offered for condition checking. It must be considered defective and the procedures described from item 6 below should be followed.
3. If, on return to a supplier, OR at a customer base, a suspected defective battery, that shows No signs of impact damage, distortion, blistering, loose parts or leakage, may be offered for condition checking with an appropriate battery condition checking device operated by a competent person.
4. If checking shows the battery to be defective then the procedures described from item 6 below should be followed.
5. **On no account must any further attempt to recharge be made. A defective battery should not be stored inside buildings on any account.**
6. The defective battery must be switched off, and all electrical terminals sufficiently insulated to remove risk of short circuit. The defective battery can then be stored in a locked battery waste container which should be plastic or plastic lined and placed away from buildings and combustible materials and clearly signed as a defective battery container with appropriate warnings. Defective batteries should be sent for waste disposal / recycling according to your country waste regulations.



An example of a waste battery storage bin well away from buildings.

2. HANDLING AND STORAGE

DANGER!

Improper handling can lead to an explosion or ignite a fire!
Store batteries out of reach of children.

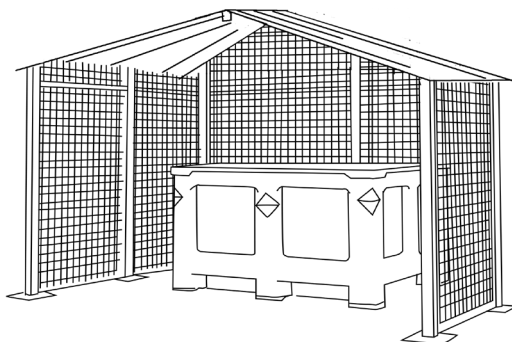
- Only trained staff can fix the battery in the machine.
- Storage temperature range: -10°C~40°C.
- Temperatures must not exceed 40°C.
- Relative humidity range: 20% to 80%.
- Optimum preservation of functionality: 15°C~25°C.

WARNING:

- Do not open the battery, disassemble it or allow it to fall from a substantial height.
- Protect the battery against short-circuiting – danger of explosion!
- Protect the battery against rain, do not immerse in liquids – danger of short-circuiting.
- Protect the battery against direct sunlight, heat and fire.
- Do not incinerate the battery – danger of explosion!
- Do not use defective or deformed batteries.
- Use only original Numatic specific appliances to charge and discharge batteries.
- Use only an external supply with the following specifications: 100-240V AC / 6.8A

STORAGE:

- Good batteries should be stored in a protected area away from sources of direct heat and sunlight and should be kept dry.
- The temperature should not exceed 40°C but preferably not be above 25°C to maintain good battery performance.
- Storage area should be of low humidity, non dusty and a non corrosive atmosphere.



- An example of a well protected area with a cage to protect against accidental impact damage and with the batteries stored in a protective container to protect from heat, impact and accidental spillage of liquids.
- Care when handling / moving with forklift trucks or pallet trucks is needed at all times to avoid any physical damage to the batteries.
- If a good battery at any time is mishandled or subjected to any conditions that may damage it, as described in the battery instruction manual supplied, it must then be considered as defective and procedures followed from Item 1 of this document overleaf.

3. HAZARDS IDENTIFICATION

- Electrolyte may escape from damaged batteries. Avoid contact.
- Contact can cause skin irritation, burns and chemical burns.
- If liquid comes into contact with eyes, seek medical attention.
- Avoid inhaling any vapours formed or released from the battery – Contains caustic alkaline electrolytes.
- Warning - Risk of fire - This battery contains No user serviceable parts.

4. FIRST AID MEASURES

In the event of contact with released electrolyte or electrolyte vapours:

- Eye contact – flush eyes for at least 15 minutes with plenty of clean water without rubbing and seek medical attention.
- Skin contact – wash affected areas of skin with plenty of water and soap; if irritation persists, seek medical attention.
- Inhalation – provide fresh air or administer oxygen immediately and seek medical attention.
- Ingestion – if electrolyte has been ingested, seek medical attention immediately.

Information for physicians:

- Contains caustic alkaline electrolytes in cells with Lithium Iron Phosphate – NO LITHIUM METAL OR LITHIUM ALLOYS.

5. FIRE FIGHTING MEASURES

- In case of fire – Keep clear of vapours and gases generated, take wind direction into consideration. If possible without danger, remove batteries from the vicinity of the fire. In principle, cooling or extinguishing with water is possible, but should only be done by trained personnel with sufficiently large quantities of water.
- If the hazard situation is unclear, extinguish only with ABC powder extinguishers (Class D extinguishers for fires involving metals are especially suitable).
- Fire fighters should only approach the fire wearing protective clothing and self-contained breathing apparatus.
- Once the fire has been extinguished, as a rule, the area should be monitored (fire watch) and cleaned up by trained and appropriately equipped personnel; fire residue should be contained and disposed of properly.

6. EXPOSURE CONTROLS, PERSONAL PROTECTION

Respiratory Protection:

- In case of battery venting, providing as much ventilation as possible. Avoid confined areas with venting batteries.
- Respiratory Protection is not necessary under conditions of normal use.

Ventilation:

- Not necessary under conditions of normal use.

Protective Gloves:

- Not necessary under conditions of normal use.

Other Protective Clothing or Equipment:

- Not necessary under conditions of normal use.
- Personal Protection is recommended for venting batteries: Respiratory Protection, Protective Gloves, Protective Clothing and safety glass with side shields.

7. ACCIDENTAL RELEASE

Disposal – Wear protective clothing and equipment, wipe up with absorbent textile and dispose of as hazardous waste at collection points for hazardous waste according to national regulations.

8. DO

- Use NUMATIC batteries only with NUMATIC appliances and charge them only using NUMATIC chargers.
- Charge battery before use.
- Store the battery out of the reach of children.
- Protect from rain – do not immerse in fluids.
- Protect from direct sunlight, heat, and open flames.
- Keep a battery that is not in use away from metal objects, (e.g. nails, coins, jewellery).
- Follow the disposal advice of the manufacturer and any internal waste management guidance.
- Use and store the battery with-in temperature range (as shown in Temperature Range Table).
- Always switch off the battery using the button by holding it for 6 seconds, before disconnection and handling.
- To activate / turn ON the battery please hold the top button for 6 seconds **or alternatively** charge the battery using original Numatic specific chargers.
- Be aware of the risk of terminals of the battery-operated appliance or battery being shortcircuited by metal objects.



Warning: The battery must only be charged by the Numatic Charger supplied with the product and under NO circumstances should an alternative non Numatic charger be used as there is a risk of severe damage and fire could result.

Note* "If batteries are subjected to temperatures beyond normal operating limits automatic shutdown will occur. Under these conditions allow the batteries to acclimatise at room temperature (18°C – 22°C) for several hours to allow the battery to wake up".

Temperature Range Table	
CHARGING	5°C~35°C
DISCHARGING	-10°C~35°C
STORAGE OPTIMUM	15°C~25°C
STORAGE LIMIT	-10°C~40°C

9. DO NOT

- Throw battery into fire – risk of explosion!
- Charge or use a defective, damaged or deformed battery.
- Open, damage or drop the battery.
- Expose the battery to microwaves or high pressure.
- Bridge (short circuit) the battery terminals with metallic objects since this may damage the battery.
- Use metal containers for transporting batteries.
- Expose the batteries to high temperatures including direct sunlight.
- Crush, break open or physically abuse the batteries or the equipment that contains them.

10. DISTRIBUTOR TAKE-BACK / DISPOSAL



- On the basis of the Battery Directive, the manufacturers take responsibility for financing collection, treatment and recycling of batteries used in devices.
- The NX1K lithium battery is classed as an industrial battery under UK battery regulations. As such, It should not be disposed of in normal battery recycling routes. Numatic International is obliged to collect the battery at end of life free of charge.
Please email: BatteryRecycling@numatic.co.uk
- We will then facilitate the removal of the battery from your premises and ensure that the battery is recycled and treated correctly.
- Only applicable to GB mainland
- For all other areas batteries must be handed over for disposal to the collection systems established for this under national law.

11. CHARGING BATTERIES

- The charger is intended for use only in the machine where it has been installed. The charger is intended for use with the detachable power cord supplied, the power unit is capable of operating at different voltages without user adjustment. If the charger is damaged or does not charge anymore, please return to service centre.

CAUTION!

- Check the mains cord regularly for any sign of damage.
- Do not use damaged devices.
- If the mains cord of the charger is damaged, it must be replaced by an original NUMATIC mains cord available from the manufacturer or service agent.

12. WARRANTY

Lithium-Ion Battery Warranty

Warranty: Commercial Use

- Batteries are warranted for (3 Years) as standard, providing all battery care rules are followed. *Note Numatic dealerships outside of the UK may provide longer warranty periods. Please confirm with your local Numatic dealership on purchase of your product.
- To claim warranty the following details must be supplied
 - Serial number of the machine
 - Battery date code
 - Date purchased
 - Proof of Purchase
 - Maintenance history and charging regime

ZP19006-01FYYWW00001

Failure to use the correct Numatic charger will void your warranty.



Serial number
Week of production
Year of production

Trouble Shooting

PROBLEM	CAUSE	SOLUTION
Machine will not operate	Low battery charge Machine is connected and charging Waste tank full switch stuck or clogged Key is off or missing Handle safety fuse blown	Charge batteries (page 18/19) Take off charge Inspect & clean switch inside tank (page 12) Insert key & turn to operating position Replace fuse (or contact service engineer)
Vacuum will not operate	Missing or blown fuse Waste tank full switch stuck or clogged Vacuum switch not engaged Waste water tank full	Fit or replace fuse (page 5/15) Inspect & clean switch inside tank (page 12) Press switch (page 11) Empty waste water tank (page 14)
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 Floor tool incorrectly adjusted	Empty waste water tank (page 14) Remove and clean (page 14) Push tight connections (page 14) Remove and clean (page 14) Remove and clean (Page 14) Clean and refit (page 14) Renew (contact service dept) Renew (contact service dept) Renew (contact service dept) Re-charge batteries (page 18/19) Adjust floor tool
No brush / scrub function	No brushes fitted Brush deck raised Missing or blown fuses	Check and fit (page 7) Lower brush deck (page 10) Fit or replace fuse (page 5/15)
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 9) Remove and clean (15) Switch on water flow (Page 11) Lower brush deck (page 10)
Machine just 'stops' during operating	Brush motor fuse blown due to high load	Replace fuse & reduce load (page 5/15)

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

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.

Using non Numatic dustbags can be detrimental to both machine performance and life and may invalidate the Warranty.

- 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

Numatic International Limited. Chard, Somerset, TA20 2GB

Telephone: 01460 68600 Fax: 01460 68458

© Numatic International Limited

UKCA Declaration of Conformity

Manufacturer:

Product:

Description:

Numatic International Limited
Chard
Somerset
TA20 2GB
www.numatic.co.uk

TRG, TRL, TVL.

Floor Treatment – Ride On – Commercial

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 + A15:2021

S.I. 2016: 1091

EMC Regulations

EN55014-1:2017 + A11:2020
EN55014-2:1997 + A1:2001 + A2:2008
EN61000-3-2:2014
EN61000-3-3:2013

S.I. 2012: 3032

RoHS Regulations

EU, EC, EL, UE, ES:
Declaration of Conformity
Prohlášení o shodě
Overensstemmelseserklæring
Declaración de conformidad
Vastavusdeklaratsioon
Declaração de conformidade

Декларация за съответствие
Δηλώση συμμόρφωσης
Megfelelőségi nyilatkozat
Dichiarazione di conformità
Atiškies deklaracija
Conformiteitsverklaring
Samsvarserklæring
Declaração de conformidade

Декларация згодності
Declarație de conformitate
Декларация о соответствии
Förskran om överensstämmelse
Izjava o skladnosti
Vaatumustenmukaisuusvakuutus

Manufacturer: / Výrobce / Hersteller / Fabrikant / Fabricante / Tootja
/ Fabricant / произво̀дствен / Котролеу̀р / Gyártó / Fabricante
/ Gamintojas / Fabrikant / Produzent / Fabricante / Producent /
Producător / произво̀дствен / Tilveikare / Proizvajalec / Valmistaja:
www.numatic.co.uk

Chard
Somerset
TA20 2GB
www.numatic.co.uk

TRG, TRL, TVL

Product: / Produkt / Трѣмѣк / Producto / Productos / Тoodet, Produkt /
Продукт / Προϊόν / Termék / Prodotto / Productos / Artikel / Produkt
/ Produtos / Produkt / Produe / Товар / Produkt / Izdelek / Tuote:
Description: / Popis / Beschreibung / Beskrivelse / Descripción /
Kijeldus / La description / Описание / Περιγραφή / Leiras /
Descrição / Apibudinimas / Omschrijving / Beskrivelse / Descrição /
Opis / Descrere / Описание / Beskrivning / Opis / Kuvasus:

Numatic International Limited
Chard
Somerset
TA20 2GB
www.numatic.co.uk

Floor Treatment – Ride On – Commercial

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

EN

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

Вне, Numatic C настоящю декларираме на своя лична отговорност, че посочените no-rope продукты е в съответствие със следните директиви и стандарти.

CS

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

Вир, Numatic екіларем н алейнгер Verantwortung, dass das oben genannte Produkt den folgenden Richtlinien und Normen entspricht.

DA

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

ET

Meie, Numatic klassiõuaga kinnitame ja kanname aluskiusult vastutust, et eespool nimetatud toode on kooskõlas järgmistele direktiivide ja normidega.

FR

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

IT

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

LT

Mes, "Numatic pareiškiu vienaiškos 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 diretivas 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

Мы, Нингическ овим изъавляем под пичом одгворности, да наведем произвед, је у складу са следећим директивима и стандардима.

SV

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

SL

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

FI

Me, Numatic täten vakuumamme 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 + A15:2021
EN60335-2-72:2012
EN62233:2008

2014/30/EU

EMC Directive


EN55014-1:2017 + A11:2020
EN55014-2:1997 + A1:2001 + A2:2008
EN61000-3-2:2014
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: 

Date: 1st February 2024

DEC-056 V2.3

For declaration of conformity for model TVL850. TM see supplement sheet part no 920001

DEC-056 V3.4

31

This Machine Has Been Packed
With The Following

Brush / Pad

☐

Floor Tool

☐

Charging Lead

☐

Battery

☐

Fuse Pack

☐

Signed

Distributed by:

Numatic

numatic.com

Numatic International Limited (Head Office)

Chard, Somerset TA20 2GB, UNITED KINGDOM

Tel: 01460 68600 numatic.com

Numatic International GmbH

Fränkische Straße 15-19, 30455 Hannover, DEUTSCHLAND

Tel: +49 (0) 511 984 2160 numatic.de

Numatic International Denmark

Fränkische Straße 15-19, 30455 Hannover, DEUTSCHLAND

Tel: +45 (0) 316 40808 numatic-online.dk

Numatic International S.A.S

13/17 rue du Valengelier, EAE la Tuilerie, 77500 Chelles, FRANCE

Tel: +33 (0) 164 726 161 numatic.fr

Numatic International BV

Vennootsweg 15, 2404 CG, Alphen aan den Rijn, NEDERLAND

Tel: +31 (0) 172 467 999 numatic.nl

Numatic International Schweiz AG.

Sihlbruggstrasse 3A, 6340 Baar, SCHWEIZ

Tel: +41 (0) 41 768 0760 numatic.ch

Numatic International (PTY) Ltd.

Cnr. 16th & Pharmaceutical Road, Randjes Park, Midrand 1685, SOUTH AFRICA

Tel: +27 (0) 861 686 284 numatic.co.za

Numatic International ULDA

Rua Francisco da Silva Duarte, nº79,

4475-269 Santa Maria de Avioso, Castêlo da Maia, PORTUGAL

Tel: +351 220 047 700 numatic.pt

Numatic International Spain, S.L.U.

Av. Baix Llobregat, 5-7, Oficina bajos 1 (Parc Negocis Mas Blau II)

08820 El Prat de Llobregat (Barcelona), SPAIN

Tel: +34 93 647 22 22 numatic.es

Numatic International Italy S.R.L

Via Luigi Galvani, 2, Z.I. Talponedo, 33080 Porcia (PN), ITALY

Tel: +39 (0) 434 046 211 numatic.it

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