

Owner Instructions

Original instructions
Warning! Read instructions before using the machine



TTB 4045/100

TTB 4055/100

ETB 4045/60



TTB 4055/100

ETB 4045/60

TTB 4045/100



www.numatic.com





Before continuing, please refer to Quick Set Up Guide on Page 8

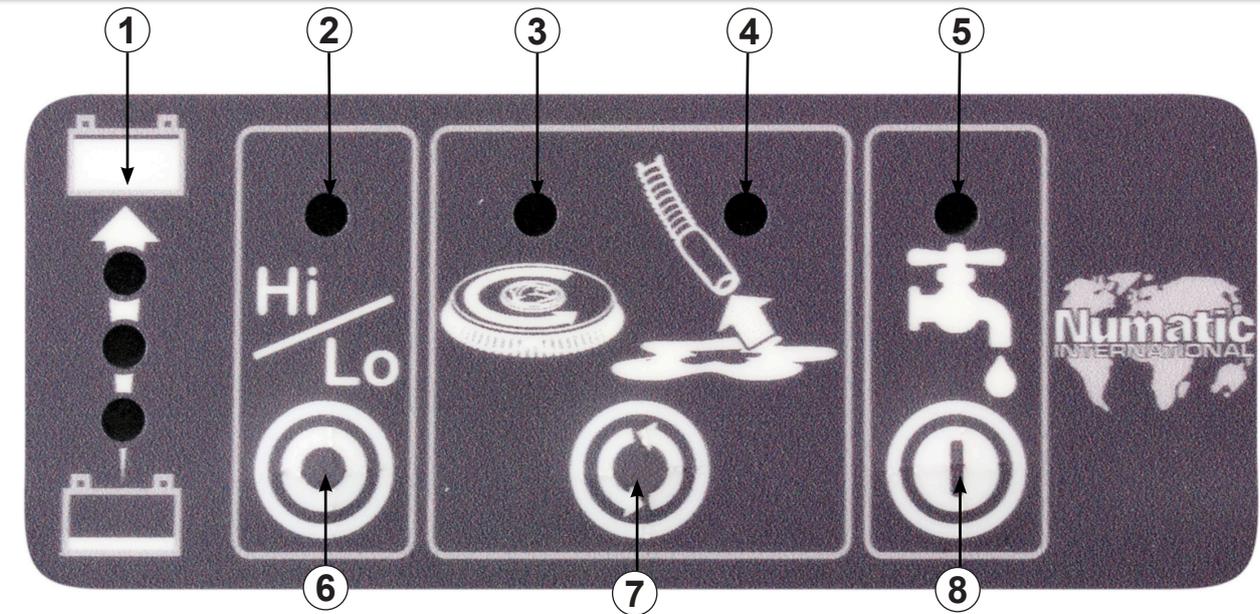
Index	Page 2
Machine overview	Page 3
Control panel overview	Page 4
Rating label / Personal Protective Equipment / Recycling	Page 5
Safety Precautions	Page 6 / 7
Quick set-up guide	Page 8
Machine set-up	
Fitting the brushes	Page 10
Tipping the brush deck	Page 10
Fitting and lowering the floor-tool	Page 10
Filling the clean-water tank	Page 11
Control of Substances Hazardous to Health (COSHH)	Page 11
Machine Operation	
Pre-cleaning advice	Page 12
Pre-scrub mode	Page 12
Floor-tool in use	Page 12
Break away floor-tool feature	Page 12
Setting the cleaning controls	Page 13
Brush overload (Over Current)	Page 13
Regular Maintenance	
Cleaning Tanks and Filters	Page 14
Separator removal and cleaning	Page 14
Cleaning the bottom tank and filter	Page 14
Changing the floor-tool blades	Page 15
Machine Charging	
Battery care	Page 16
Hour meter	Page 17
Trouble shooting	Page 18
Recommended spare parts	Page 18
Specifications	Page 19
Wiring diagrams	Page 20
Declaration document	Page 22
Warranty	Page 23
Company addresses	Page 24

Machine Overview



- | | |
|--|--|
| 1. Fuse | 12. Floor-tool vacuum hose |
| 2. Waste-water tank | 13. Vacuum hose |
| 3. Clean-water tank | 14. Isolator Key |
| 4. Brush deck | 15. Floor-tool Lifting Lever |
| 5. Clean Water Filter | 16. Hour Meter - TTB machines only (Not ETB Range) |
| 6. Rear moving wheels | 17. Floor-tool retaining knobs |
| 7. Clean water On / Off tap | 18. Squeegee blades |
| 8. Separator | 19. Deck Locking Mechanism |
| 9. Clean-water emptying hose | |
| 10. Top tank (waste water) drainage hose | |
| 11. Clean-water filler cap and hose | |

Control Panel Overview

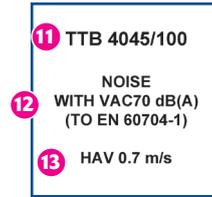
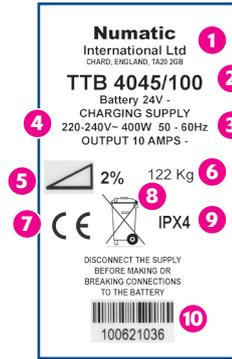


- | | | | |
|----------|----------------------------------|-----------|----------------------------|
| 1 | Battery Charge Level Indicator | 7 | Cycle sequence button |
| 2 | Hi / Lo Indicator | 8 | Water Flow On / Off Button |
| 3 | Brush Operation / Load Indicator | 9 | Handle Position Lever |
| 4 | Vacuum Indicator | 10 | On / Off Switch |
| 5 | Water Flow Indicator | 11 | On / Off Triggers |
| 6 | Hi / Lo Button | 12 | Charging Point |

For full easy to follow
Instructions on control panel set up and use, see Setting the cleaning controls, page 13.

Rating Label

- 1 Company Name & Address
- 2 Machine Description
- 3 Voltage Frequency
- 4 Power Rating
- 5 Max Gradient
- 6 Weight (ready to use)
- 7 CE Mark
- 8 WEEE Logo
- 9 Splash Proof Rating
- 10 Machine yr/wk Serial number



- 11 Machine Description
- 12 Noise Rating
- 13 Hand Arm Vibration

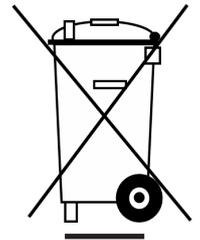
WEEE (Waste, Electrical and Electronic Equipment)

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 2002/96/EC on waste electrical electronic equipment and its incorporation into national law.

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



PPE

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

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

Note:

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

Safety Critical Component

Charging Lead: H05VV-F x 1.0 mm² x 3 core

Battery Charger: 220 - 240 Volt (50/60 Hz)

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



ORIGINAL INSTRUCTIONS
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.

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

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

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

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

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



CAUTION

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 for other than normal housekeeping purposes.



DO

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



DON'T

- Use steam cleaners or pressure washers to clean the machine or use in the rain.
- Attempt machine maintenance or cleaning unless the power plug has been removed from the supply outlet.
- Allow any inexperienced repairs. 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.
- Lift or pull the machine by any of the operating triggers, use the main handle.
- Remove the handle from the machine except for service and repair.
- Use on surfaces having a gradient exceeding that marked on the machine.



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 switching off the isolating key.

Machines left unattended shall be secured against unintentional movement.

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

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. The batteries are to be disposed of safely and in accordance with the battery directive.
9. Only use genuine Numatic replacement batteries.
10. Do not allow the batteries to become fully discharged; it may not be possible to recharge them. Batteries should not be discharged below 9.5 volts with 10 amps flowing.
11. Do not allow one battery to be discharged separately to the other.
12. Do not mix batteries from different machines.
13. 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. Always recharge the batteries after use. This can be done at any time its not necessary to wait until they are fully discharged; they do not develop a "memory".
2. Leaving the charger to operate for a minimum of 4 hours after the green light has come on, at least weekly, will prolong battery life.
3. Do not store the machine with the batteries discharged.

Daily

Keep the machine clean

Ensure brushes/ pads/ squeegee/ filters are in good condition

Check for any worn or damaged parts and replace immediately

Drain and rinse dirty water tank after every use

Store machine with brush deck secured in tilted position

Weekly – as daily and –

Check brush or pad and skirt and rinse

Check floor tool blades for wear and wipe clean

Clean separator assembly including filter and check condition of seal

Flush out system with clean water and clean filters

Do not steam clean or pressure wash

Batteries

Always recharge the batteries after use

Charge for a minimum of 4 hours after the green light has come on as this will prolong battery life

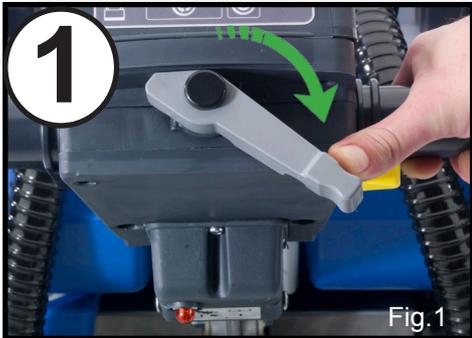
Twin Tec
Maintenance

Quick Set-Up Guide

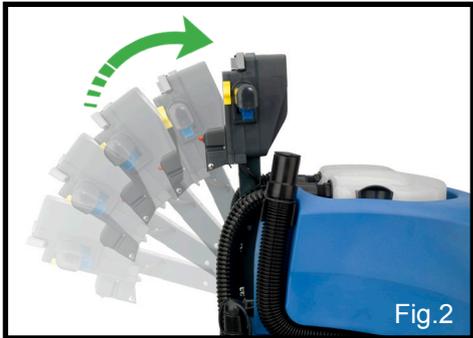


PLEASE READ BEFORE COMMENCING ANY OPERATION.

After the removal of all the packaging, carefully open and check the contents.
Ensure the Batteries are charged before use.



Using the handle position lever (Fig.1), move the handle into the upright position (Fig.2).



Place 50 amp fuse (supplied in the accessory kit) into the fuse holder using the Maxi Fuse puller provided (Fig.3).

(Fig.4) Shows 50 amp fuse.



Place the top tank (waste water) into the machine (Fig.5) and connect the vacuum and floor-tool hose to the separator (Fig.6).



Fit the isolator key and switch the machine on (Fig.7).



Fill the bottom tank (Clean Water) from a tap or hose pipe using the Flexi-Fill pipe fitted to the filler cap (Fig.8). Add non-foaming cleaning fluid as required (See page 11).
The TTB 4045 / TTB 4055 and the ETB 4045 all have a water capacity of 40 Litres.



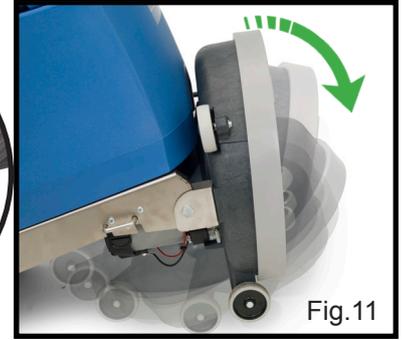
Note:
Great care must be taken to ensure that contaminants (leaves, hair, dirt, etc.) are not allowed to enter the clean-water tank during the filling process.

If using a bucket or similar, ensure it is always clean and free from debris.

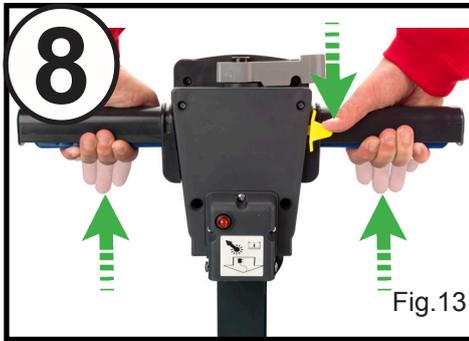
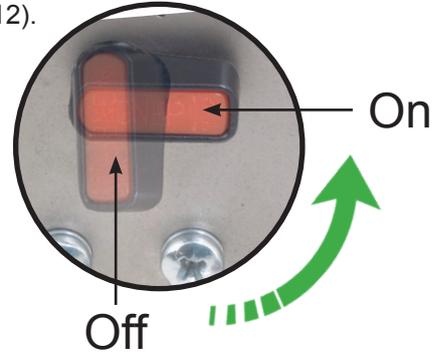


Fit the Brush / Pad (Fig.9).

Push in the deck locking pin (Fig.10) and rotate the brush deck into the operating position (Fig.11).



Turn on the clean water tap (Fig.12).



To start: hold either trigger and press the yellow start button once (Fig.13).

Brush, vacuum and water settings can be controlled by the control panel (See Page 13).

Fill the clean-water to a Max of 40 litres (see page 11)
For operation and cleaning controls (see page 13)

Notes:

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

ALWAYS ENSURE THAT THE BATTERY IS DISCONNECTED BEFORE MAKING ANY ADJUSTMENTS

Fitting the brushes

Featuring the Nulock brush system.

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

The Pad is retained using Numatic's own PadLoc system (ask your supplier for details).

Only use manufacturer supplied brushes / pads.

TTB 4045 / ETB 4045 requires a 450mm brush or a 400mm pad.

TTB 4055 requires a 550mm brush or a 500mm pad.



Fig.14

Fit the brush / pad to the drive chuck, twist to lock the brush (Fig.14) / pad in place (Fig.15).



Fig.15

Safety gloves are recommended for the changing of used brushes.

Tipping the Brush Deck



Fig.16

To tip the deck into the down position (Operating mode) Press in the brush deck locking bar (Fig.16) and rotate the brush deck (Fig.17).

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

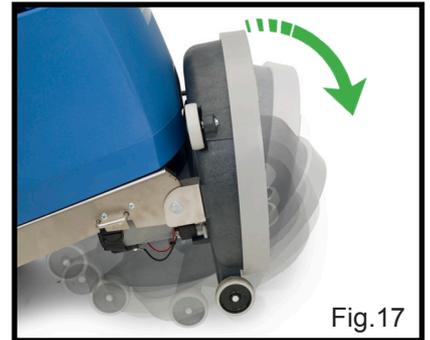


Fig.17

Fitting and lowering 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.



Fig.18

Fit the floor-tool and retain using the detent pin (Fig.18).

The lifting strap is held by a detent pin (Fig.19).



Fig.19

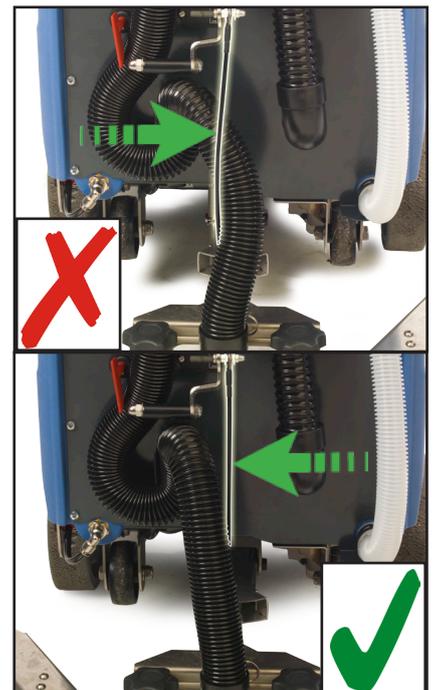
Raise the floor-tool for transit or lower for cleaning operation using the lifting handle fitted to the back of the machine (Fig.20).

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.



Fig.20



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.

Filling the clean-water tank

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



Fig.21

To fill the clean-water tank, use the 1 meter FLEXI - FILL pipe from either a tap or hose pipe (Fig.21).

The large cap can also be unscrewed for filling from a bucket or suitable container.

Fill the clean-water tank to a maximum of 40 litres, 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.

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.

Visit <http://www.hse.gov.uk/> for UK information.



WHEN HANDLING AND MIXING CHEMICALS.

Always ensure that chemical manufacturers 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.



Pre-cleaning advice

Before performing the cleaning operation, place out appropriate warning signs and sweep or dust-mop the floor (Fig.22).



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



Fig.22

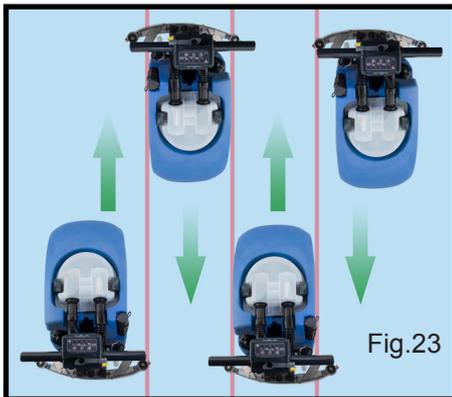
Pre-scrub mode

The TTB / ETB Range has been designed to cope with a variety of floor types and different levels of soiling. On heavily soiled floors use a 'double scrub' technique.

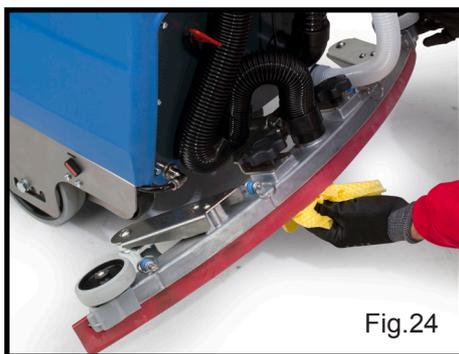
First pre-scrub the floor with the floor-tool in the raised position, allow the chemical time to work, then scrub the area a second time with the floor-tool lowered.

Refer to (Fig.18) to raise and lower the floor-tool.

Floor tool in use



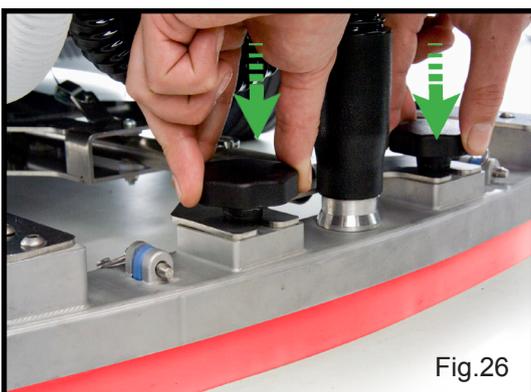
The clean-water / chemical mix is dispersed via the 'THRU-FEED' system. The waste water is then retrieved by the floor-tool. Overlap the scrubbing path by 10cm to ensure an even clean (Fig.23).



If streaking occurs, wipe the floor-tool blades clean (Fig.24).



Breakaway floor-tool



The floor-tool design incorporates a breakaway feature.

Allowing it to safely disengage from its mounting should it become caught on an obstruction, during forward machine movement (See Fig.26).

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.

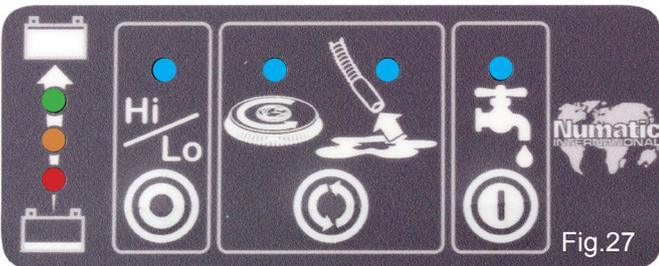
Note: Care must be taken to reduce speed when cornering or when manoeuvring around obstacles.

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

Setting the cleaning controls



To activate the machine from SLEEP MODE press either trigger once.



Hi / Lo speed can only be toggled when the machine is in STAND-BY MODE.

Water On / Off can only be toggled when in ACTIVE MODE.

Brush / Vac Switch  can be cycled in both STAND-BY and ACTIVE MODE.

STAND-BY

- Stage 1. Brush and Vac
- Stage 2. Brush only
- Stage 3. Vac only

ACTIVE

- Stage 1. Brush and Vac
- Stage 2. Brush

When the triggers are released the brush motor and the cleaning solution pump will switch off, the vacuum motor will continue for 10 seconds (this is to clear any fluid residue in the hose).

The panel if unused will automatically enter SLEEP MODE after 60 seconds.



Brush overload.

The brush LED light will flash if the brush motor has been overloaded (Fig.28).

Releasing the handle triggers will allow the machine to stop and reset.

If the brush motor keeps overloading consider using a different type of brush.
Or move the transit wheels to obtain different brush pressures,
Heavy brush load decreases the available battery run time.

Regular Maintenance



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



Fig.29

The TTB / ETB Range has been designed with ease of use in mind, this included easy stripping-down and cleaning.

After use, empty waste-water tank using emptying hose (A) and flush out with clean water (Fig.29).



Fig.30

Fig.31

Remove the two hoses to disconnect the separator from the machine (Fig.30).

Lift off the separator. The separator has a sealing-rubber which should be examined at every clean-down (Fig.31). Rinse using clean water.



Fig.32

Fig.33



Fig.34



Fig.35

Remove the filter fitted into the separator and flush with clean water (Fig.32)(Fig.33).

Placed into the top tank is grey filter basket, clean and flush with clean water (Fig.34) (Fig.35).



Fig.36

The Bottom (Clean Water) tank is attached to the chassis and should only be removed by a competent service engineer (Fig.36).

Clean by flushing with clean water if required.

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

Located under the left hand side is a clean water filter, ensure the clean water tap is turned off before removing this filter (Fig.37).

Clean and flush with clean water if required.



Fig.37

Changing the Floor Tool Blades



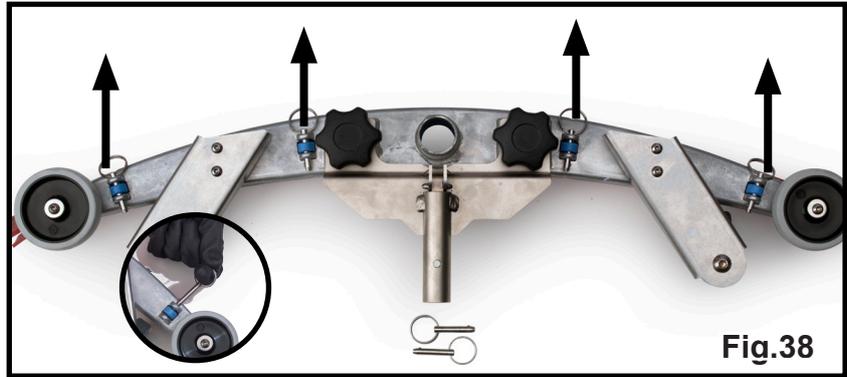
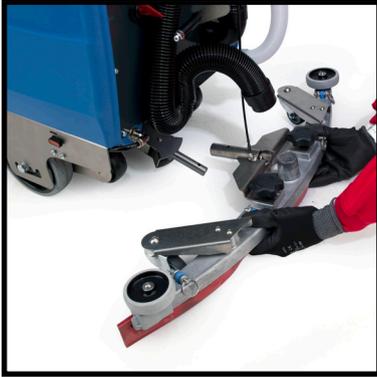
ALWAYS ENSURE THAT THE BATTERY IS DISCONNECTED PRIOR TO ANY MAINTENANCE



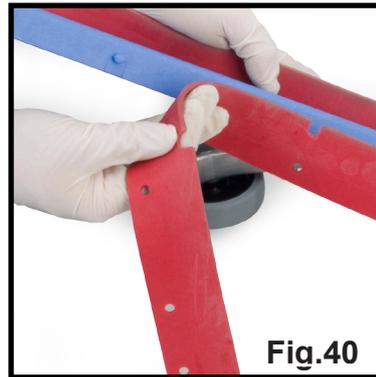
The floor-tool

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

The ETB range is provided with the Eco Range floor-tool.



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



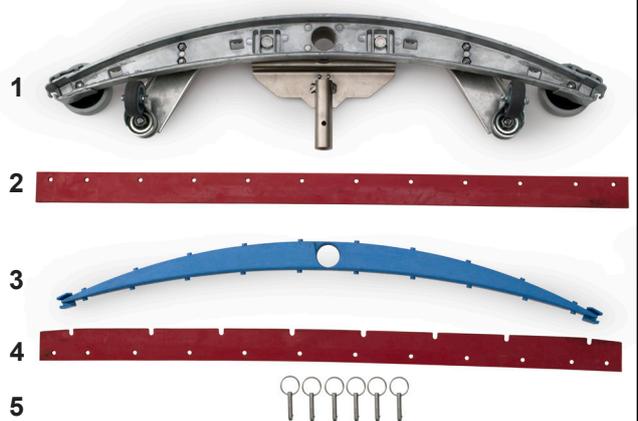
Periodically the floor-tool blades should be examined and checked for wear and damage.

The blade removal is easy. Simply start by removing the four retaining pins (see Fig.38), turn the floor-tool over and separate the blade carrier from the body (see Fig.39). Peel away the blades from their locating lugs (see Fig.40) and examine or renew as required.

Replacement is a reversal of the removal process.

Floor-tool overview

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

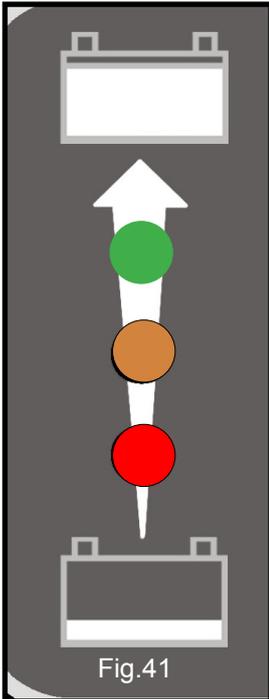


Note:

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

Machine Charging

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



The battery meter displays the charge level of the batteries; when fully charged, all meter lights are illuminated (Fig.41).

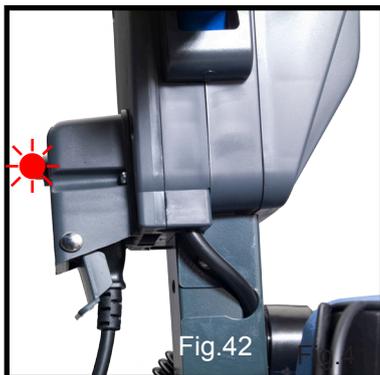
As the machine is used and the batteries are discharged, the meter lights will go out from top to bottom.

If the battery-charge level is allowed to discharge to the point that only one red light remains illuminated, the operator should either replace or charge the battery.

The battery pack must be fully discharged and recharged over a few cycles and brushes need to be worn in to achieve maximum efficiency.

Charge time is approximately 8 hours for the TTB Range and approximately 6 hours for the ETB Range.

Spare replacement batteries are available from your supplier.



Under normal daily usage:

Recharge batteries after each use, regardless of machine operation time (Fig.41).

Connect the charger unit to the battery (Fig.42) and plug the charger into a suitable power supply (Fig.43).

Recharge the machine fully after its last use.



Do not leave the machine in a discharged state.



Remove the top tank to view the charging light panel located on the pump housing plate.



Viewing panel for charging-light sequence (Fig.44).

Signal (LED)		Meaning
	Red LED on	First phase of charge in progress
	Yellow LED on	Second phase of charge in progress
	Green LED on	End of charge or maintenance phase Disconnect from power supply Switch power supply, OFF then ON, to restart the charging cycle
	Red LED flashing	Unsuitable battery or charging malfunction Safety timer exceeded Internal short circuit Disconnect from power supply Switch power supply, OFF then ON, to restart the charging cycle
	Yellow LED flashing	Battery not connected
INITIAL TEST		
	Green LED with 2 flashes	Battery charger configured for recharging Gel or AGM batteries
	Red LED with 2 flashes	Battery charger configured for recharging Lead-acid (Wet) traction batteries



Under abnormal use: i.e. leaving the machine without charging for a period of time - we advise that you follow these steps:

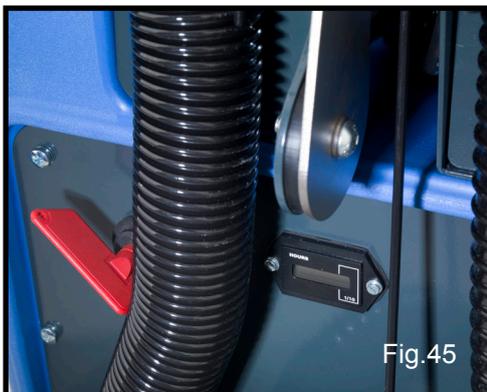
If fuse requires replacing use only Numatic approved part (221107).
50 Amp fuse

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

Note:

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

Hours Meter



Fitted to the TTB Range is an hour meter allowing you to monitor the usage of your machine and batteries (Fig.45).

Note: The ETB range of machine does not have an hour meter fitted.

Trouble Shooting

PROBLEM	CAUSE	SOLUTION
Machine will not operate	Missing or blown fuses Battery not connected Low battery charge	Fit or replace fuse (page 8) Connect battery (page 8) Charge batteries (page 16)
Vacuum will not operate	Vacuum not turned on	Turn on vacuum (page 13)
Poor water pick up	Waste-water tank full Clogged / blocked vacuum hose Loose hose connections Debris basket filter clogged / blocked Separator filter clogged / blocked Poor separator seal Damaged separator seal Damaged / split vacuum hose Damaged floor-tool blades Low battery charge	Empty waste-water tank (page 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) Recharge batteries (page 16)
No brush / scrub function	No brushes fitted Brush overloaded	Check and fit (page 10) Reset machine (page 13)
Little or no water flow	Clean-water tank empty Clean-water tank filter blocked / clogged Clean water tap not turned on	Fill clean-water tank (page 11) Remove and clean (page 14) Turn on clean water tap (page 9)
Machine just 'stops' while operating	Too much load on the brush system Blown fuse in Battery pack	Reset the machine and decrease the brush load to best suit the floor type (page 13) Replace 50 Amp fuse (page 8)

ETB 4045/60

<i>Brush Motor</i>	<i>Vac Motor</i>	<i>Brush Sizes</i>	<i>Pad sizes</i>	<i>Weight</i>	<i>Protection Class</i>	<i>Power</i>
400W	400W	450mm	400mm	103Kg	IPX4	2 x 12V (24V) 60Ah
<i>Fluid Flow</i>	<i>Speed</i>	<i>Recharge time</i>	<i>Cleaning Speed</i>	<i>Hand Arm Vibration</i>	<i>Noise</i>	<i>Size</i>
0-2L/Min	100 rpm	6 hrs	0-5kph	0.54 m/s²	Hi-69 dB(A) Lo-67 dB(A)	Width - 470mm Length - 1030mm Height - 1160mm

577877	Top Tank - Red	208638	Wheel
577878	Bottom Tank - Red	577898	Deck
577839	Separator	577892	Handle
206265	Barrel Filter	321686	Vac Motor
207000	Basket Filter	220386	Charger Cable UK
208588	Vac Hose	221079	Charger Cable Euro
208624	Floor Tool Hose	220622	Charger Cable Switzerland
213047	Dump Hose Top	221107	50 Amp Fuse (Batteries)
303641	Dump Hose Bottom	221037	20 Amp Fuse (Charger)
577931	Floor Tool	206813	Isolator Pin \ Key
606203	450mm Polyscrub Brush	229295	Floor Tool Retaining Pin
606204	450mm Nyloscrub Brush	606306	450mm Long Life Brush
606401	410mm Padloc Drive Board	606202	450mm Union Mix Brush
606037	Recommended floor tool Blade Set	606071	Optional Polyurethane Floor Tool Blade Set

TTB 4045/100

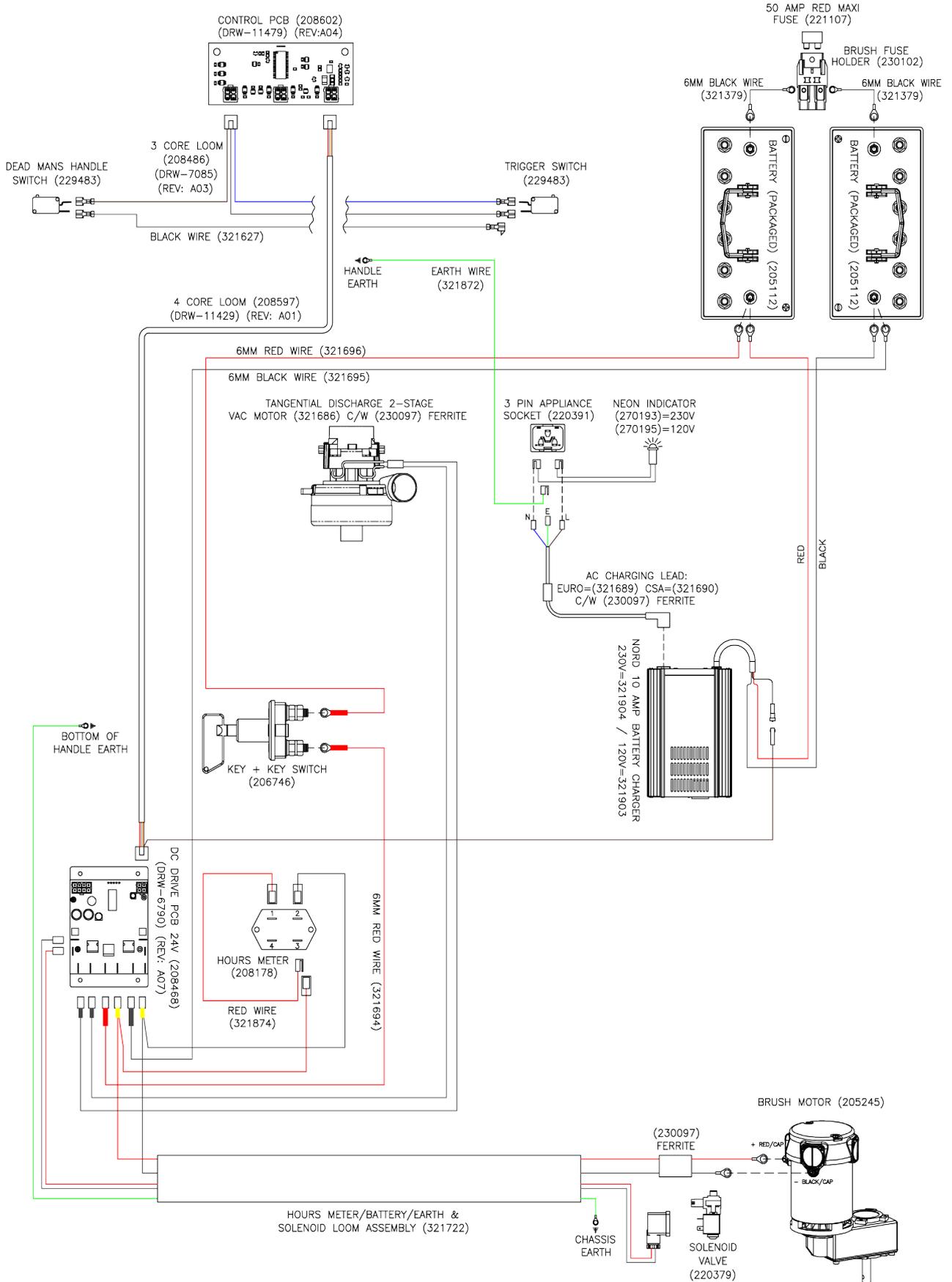
Brush Motor		Vac Motor		Brush Sizes	Pad sizes	Weight	Protection Class	Power	
400W		400W		450mm	400mm	126Kg	IPX4	2 x 12V (24V) 100Ah	
Fluid Flow	Speed	Recharge time		Cleaning Speed	Hand Arm Vibration		Noise	Size	
0-2L/Min	100 rpm	8 hrs		0-5kph	0.54 m/s²		Hi-69 dB(A) Lo-67 dB(A)	Width - 470mm Length - 1030mm Height - 1160mm	
577810	Top Tank - Blue				208638	Wheel			
577811	Bottom Tank - Blue				577812	Deck			
577839	Separator				577888	Handle			
206265	Barrel Filter				321686	Vac Motor			
207000	Basket Filter				220386	Charger Cable UK			
208588	Vac Hose				221079	Charger Cable Euro			
208624	Floor Tool Hose				220622	Charger Cable Switzerland			
213047	Dump Hose Top				221107	50 Amp Fuse (Batteries)			
303641	Dump Hose Bottom				221037	20 Amp Fuse (Charger)			
577856	Floor Tool				206813	Isolator Pin \ Key			
606203	450mm Polyscrub Brush				206953	Detent Pin			
606204	450mm Nyloscrub Brush				606306	450mm Long Life Brush			
606401	410mm Padloc Drive Board				606202	450mm Union Mix Brush			
606196	Recommended floor tool Blade Set				606157	Optional Polyurethane Floor Tool Blade Set			

TTB 4055/100

Brush Motor		Vac Motor		Brush Sizes	Pad sizes	Weight	Protection Class	Power	
400W		400W		550mm	500mm	128Kg	IPX4	2 x 12V (24V) 100Ah	
Fluid Flow	Speed	Recharge time		Cleaning Speed	Hand Arm Vibration		Noise	Size	
0-2L/Min	100 rpm	8 hrs		0-5kph	0.57 m/s²		Hi-69 dB(A) Lo-67 dB(A)	Width - 560mm Length - 1060mm Height - 1160mm	

577810	Top Tank - Blue				208638	Wheel			
577811	Bottom Tank - Blue				577812	Deck			
577839	Separator				577888	Handle			
206265	Barrel Filter				321686	Vac Motor			
207000	Basket Filter				220386	Charger Cable UK			
208588	Vac Hose				221079	Charger Cable Euro			
208624	Floor Tool Hose				220622	Charger Cable Switzerland			
213047	Dump Hose Top				221107	50 Amp Fuse (Batteries)			
303641	Dump Hose Bottom				221037	20 Amp Fuse (Charger)			
577922	Floor Tool				206813	Isolator Pin \ Key			
606028	550mm Polyscrub Brush				206953	Detent Pin			
606550	550mm Nyloscrub Brush				606551	550mm Long Life Brush			
606403	500mm Padloc Drive Board								
606295	Recommended floor tool Blade Set				606296	Optional Polyurethane Floor Tool Blade Set			

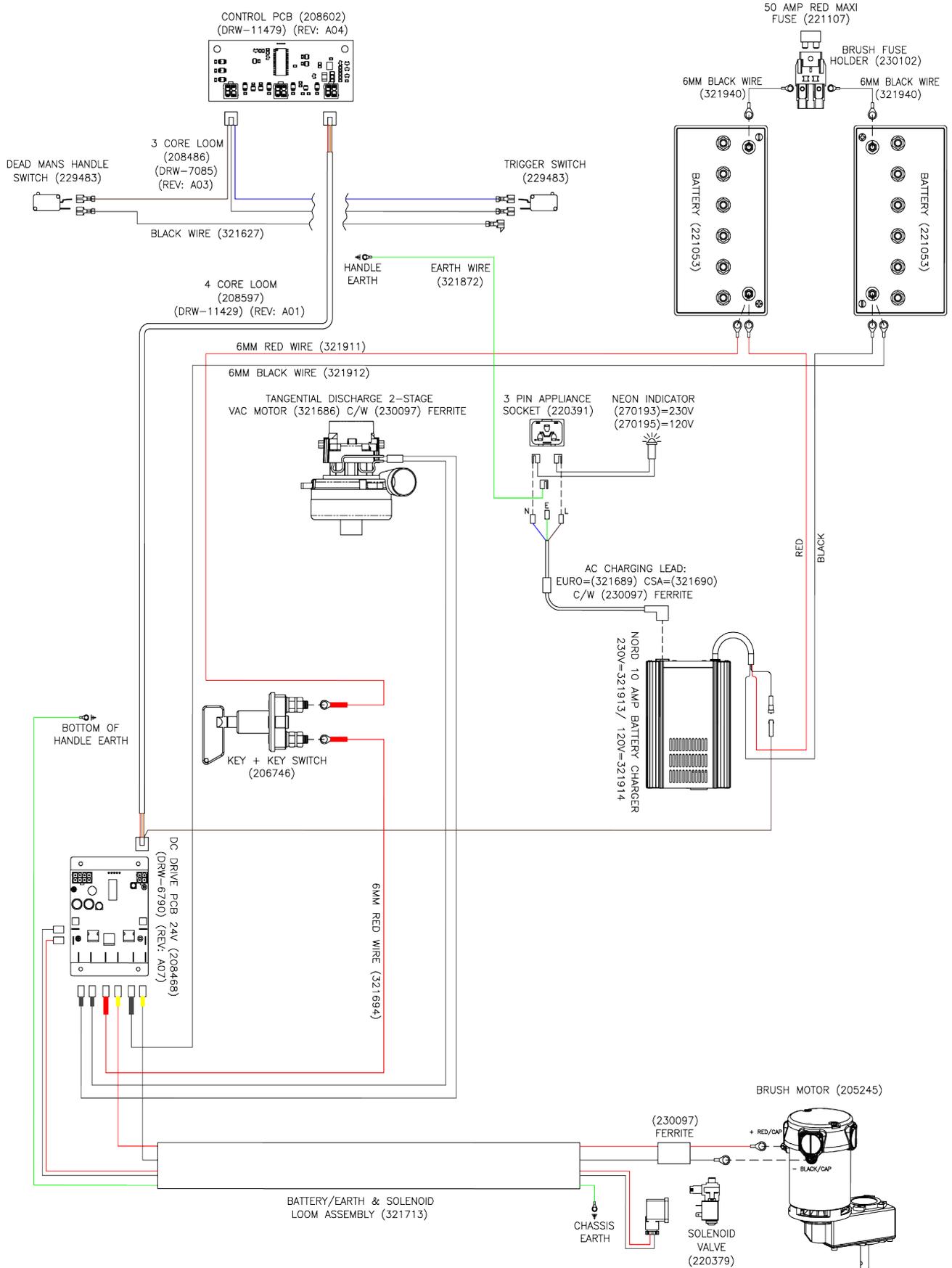
Wiring Diagram



TTB-4045 / 100S & TTB 4055 / 100S

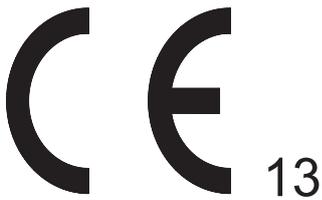
DRW-11379 (A05) 06:11:2012

Wiring Diagram



ETB-4045 / 60S

DRW- 12220 (A07) 19:02:2013



EU DECLARATION OF CONFORMITY

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

Machinery Directive 2006/42/EC

EMC Directive 2004/108/EC

RoHS Directive 2011/65/EU

**Machine Description:
Type: TTB, ETB series**

Scrubber Dryer

Manufactured by: Numatic International Limited

Relevant standards upon which conformity is declared include:

IEC 60335-1:2010

IEC 60335-2-72:2002 +A1

EN 55014-1:2006

EN 55014-2:1997/A2:2007

IEC 62233:2005

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

Name: Allyn Boyes

Position: Technical Manager

Signed:

Date: 01 /01/2013



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

GB

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
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This machine has been packed with the following:

Charging Lead

Brush / Pad

Floor Tool

Fuses

Isolator Pin

Hose Hook

38mm / 32mm Adaptor

Signed



Distributed by



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

www.numatic.co.uk

Subject to change without prior notice.

244064 / 02/13 (A08)