

# Owner Instructions Mode d'emploi



*Original Instructions*

*Warning! Read instructions before using the machine.*

*Attention*

*Lisez la notice avant d'utiliser la machine.*

**TT 516**  
(TT 1840)



**NACECARE**



1. Operator control panel
2. On / Off Lever
3. Waste water tank
4. Clean water tank
5. Brush deck
6. Squeegee blades
7. Floor-tool retaining knobs
8. Clean-water on / off tap
9. Clean-water emptying cap
10. Rear moving wheels
11. Floor-tool vacuum hose

12. Vacuum hose
13. Separator
14. Clean-water filler cap
15. Clean-water level indicator
16. Clean-water tank fill point
17. Top tank (waste water) drainage hose
18. On / Off Switch
19. Vacuum Switch
20. Pump Switch
21. Power Light
22. Handle Position lever

# Quick Set-Up Guide



**Please read before commencing any operation.**

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



Fig 1

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



Tip the machine.  
(see Page 4)



Fig 2

Fit the Brush / Pad (Fig 2).



Fig 3

Swing the floor-tool carrier from behind the brush. (Fig 3).



Fig 4

Use the two locking knobs fitted to the floor-tool, secure to the floor-tool to the floor-tool carrier. (Fig 4).



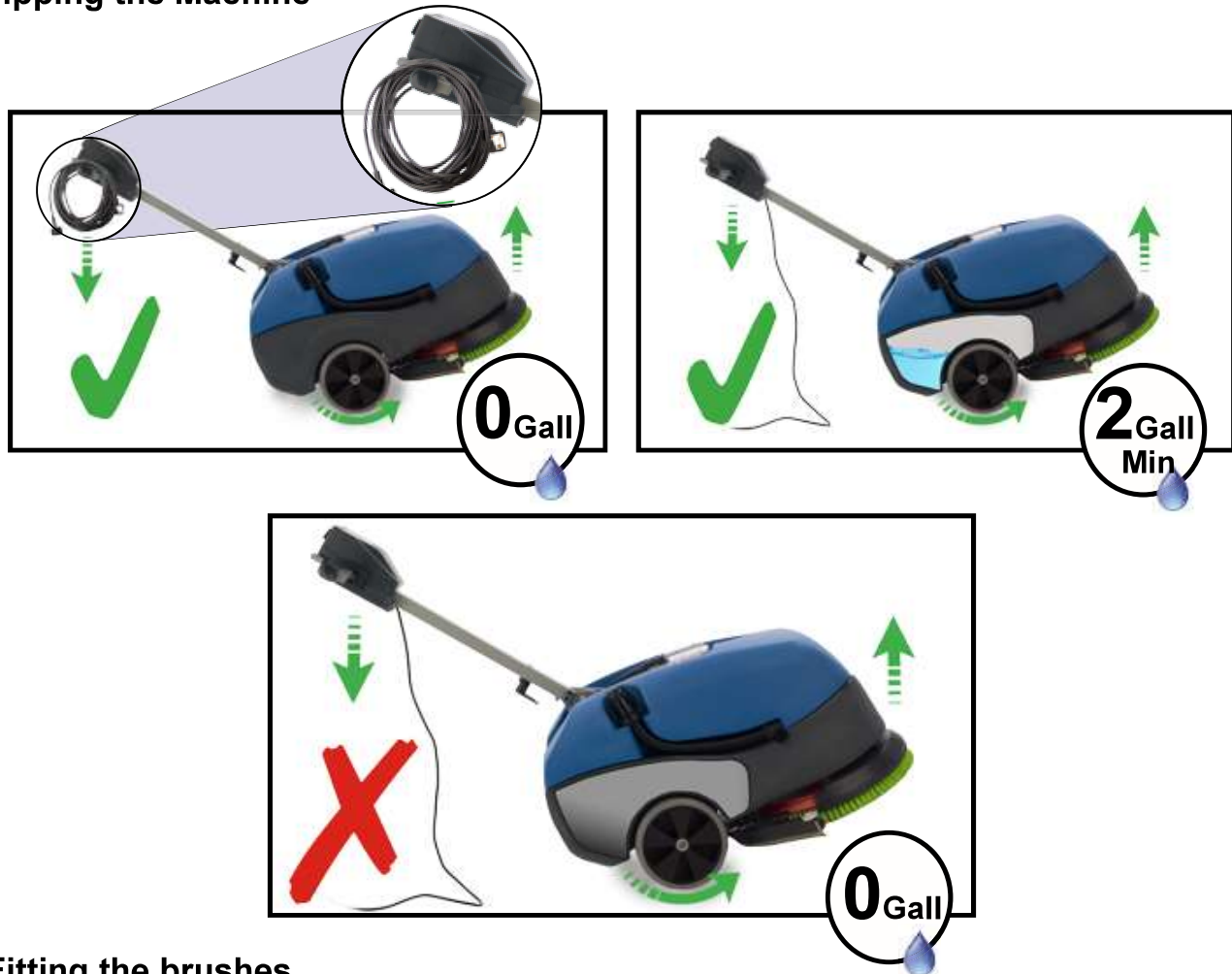
Fig 5

Fill using a hose, bucket or a suitable container. (Fig 5).

Fill the clean-water tank to a Max of 5 Gall  
(see page 6)

For operation and cleaning controls  
(see page 9)

## Tipping the Machine



## Fitting the brushes

Featuring the Nulock brush system.

The brush is fitted simply by pushing and twisting to lock in place, making fitting and removal a simple process.

Only use manufacturer supplied brushes.

This machine requires a 16" brush or a 16" pad.



Slide the brush / pad under the brush deck (Fig 6).



Fit the brush / pad onto the Nulock drive chuck, twist to lock the brush / pad in place (Fig 7).

Safety gloves are recommended for the changing of used brushes.



### Fitting the Floor Tool

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

**Note** The lever moves upward and backward motion to lock the floortool in the raised position.



The floor tool carrier can be raised and locked from moving by operating the locking lever, upwards and backwards. this lever can be found next to the lower section of the handle. Unlock and swing the floor-tool carrier to the side of the machine (Fig 8).



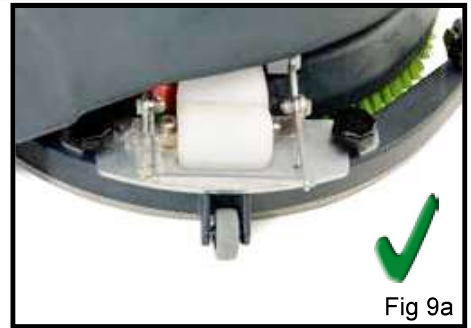
**Note:**

*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.*



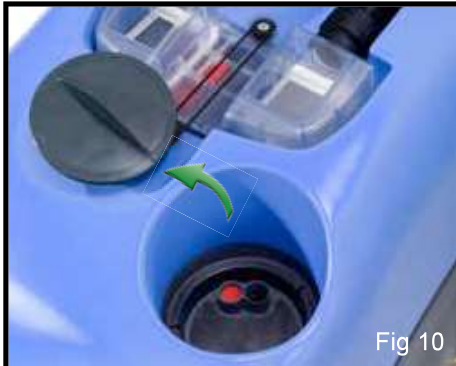
Secure to the carrier using the two knobs fitted to the floor-tool carrier (Fig 9) - (Fig 9a).

Do not over tighten the retaining knobs.



### Filling the clean-water tank

The TT 516 is equipped with a large 5 gall clean-water tank allowing large areas to be cleaning in a single fill.



To fill the clean-water tank, remove the filler cap (Fig 10).



Fill using a hose, bucket or a suitable container. (Fig 11).

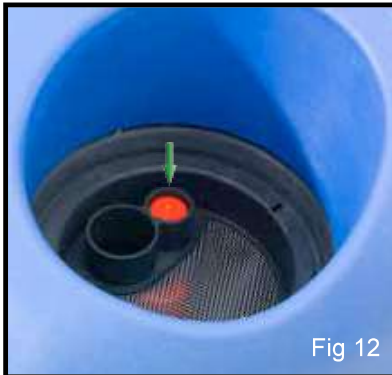
**Note.**

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.

## Fill Level Indicator

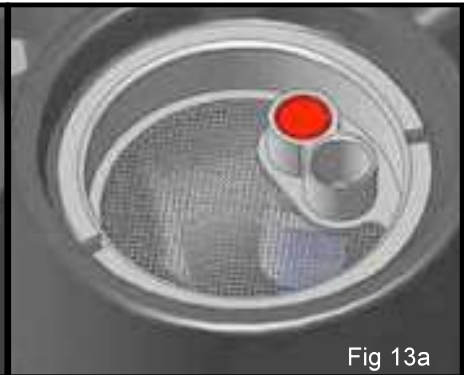
Fill the clean water tank to a maximum of 5 gall, including cleaning chemicals if required.  
Follow chemical manufacturing guide lines.



Use the fill indicator  
(Fig 12).



Showing the clean-water tank empty  
(Fig 13).



Showing the clean-water tank full  
(Fig 13a).

### WHEN HANDLING AND MIXING CHEMICALS.

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

## Control of Substances Hazardous to Health (COSHH)

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



## Water Flow Adjustment



Fig 14

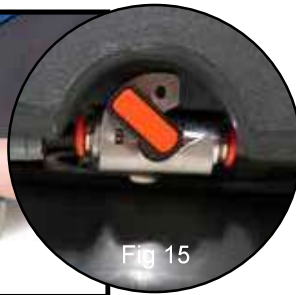


Fig 15

Located on the left of the machine is the On / Off water tap  
(Fig 14 / 15).

## Pre-cleaning advice.

Before performing the cleaning operation, place out appropriate warning signs and sweep or dust-mop the floor  
(Fig 16).

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



Fig 16



### Important

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





### Caution

When moving or lifting the TT 516, follow the national safety guidelines on lifting.



### Moving the machine



Fig 17

Transport the machine by tilting back on to the main transit wheels (Fig 17).



Fig 18

When the top tank (waste water) is full the machine can be tilted to a maximum of  $10^{\circ}$  for transporting to dumping area (Fig 18).



Fig 19

When the bottom tank (clean water) is full the machine can be tilted to a maximum of  $45^{\circ}$  (Fig 19).



Fig 20

Weight of empty machine 38.5Kg (85 lbs) fig 20.



### Caution:

Ensure both tanks are empty before attempting to lift the machine.



## Pre-scrub mode

The TT 516 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 (Fig 21), allow the chemical time to work, then scrub the area a second time with the floor-tool lowered.

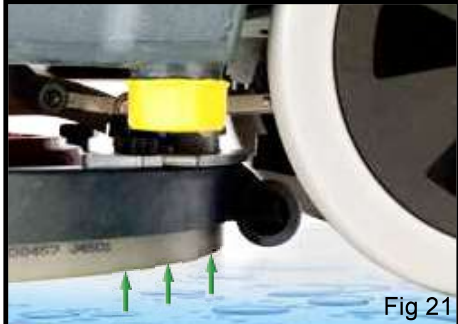


Fig 21

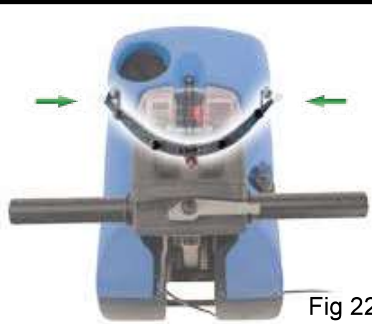


Fig 22



Fig 23

To raise the floor-tool, ensure the floor-tool carrier is central to the machine (Fig 22).

Lift the lever near the base of the handle and lock into position (Fig 23).

**Note** The lever moves upward and backward motion to lock the floortool in the raised position.

## Floor tool in use

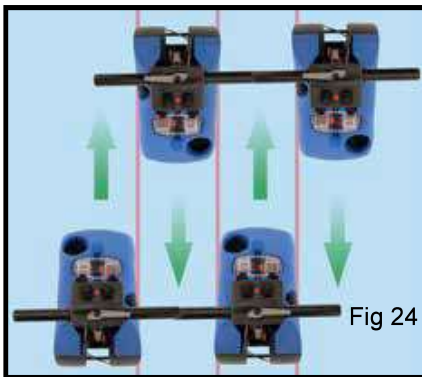


Fig 24

The clean-water / chemical mix is deposited via 'THRU-FEED' system. The waste water is then retrieved by the floor-tool

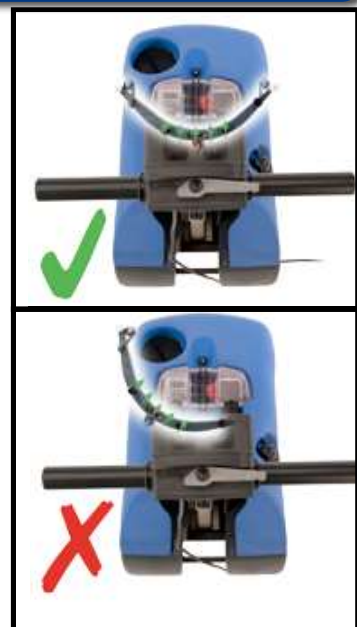
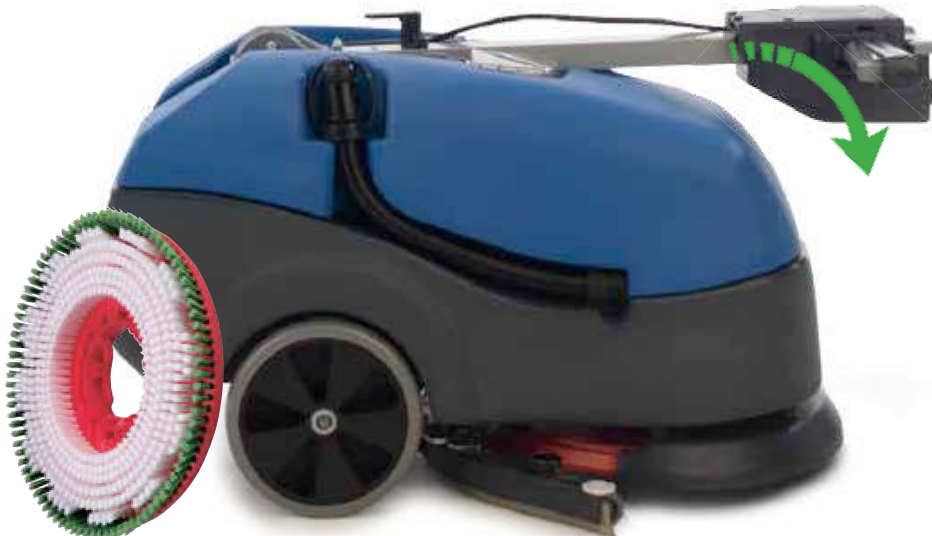
Overlap the scrubbing path by 10cm to ensure an even clean (Fig 24).



Fig 25

If streaking occurs, wipe the floor-tool blades clean (Fig 25).

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

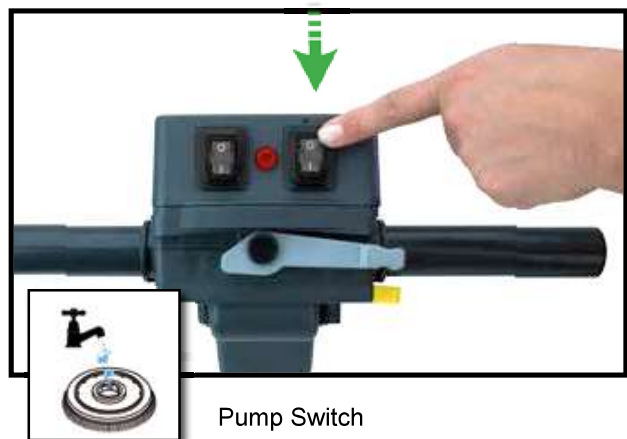
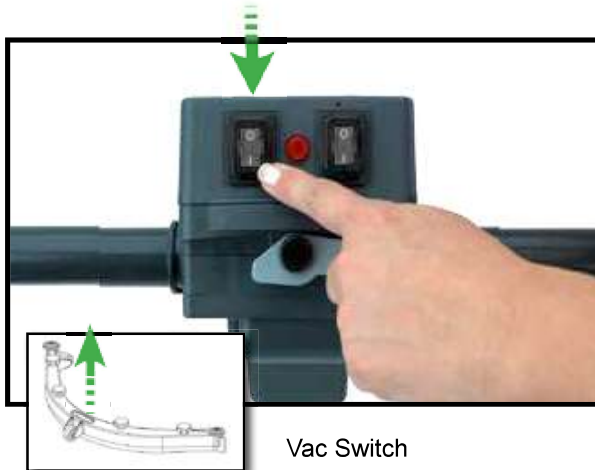




## Setting the cleaning controls

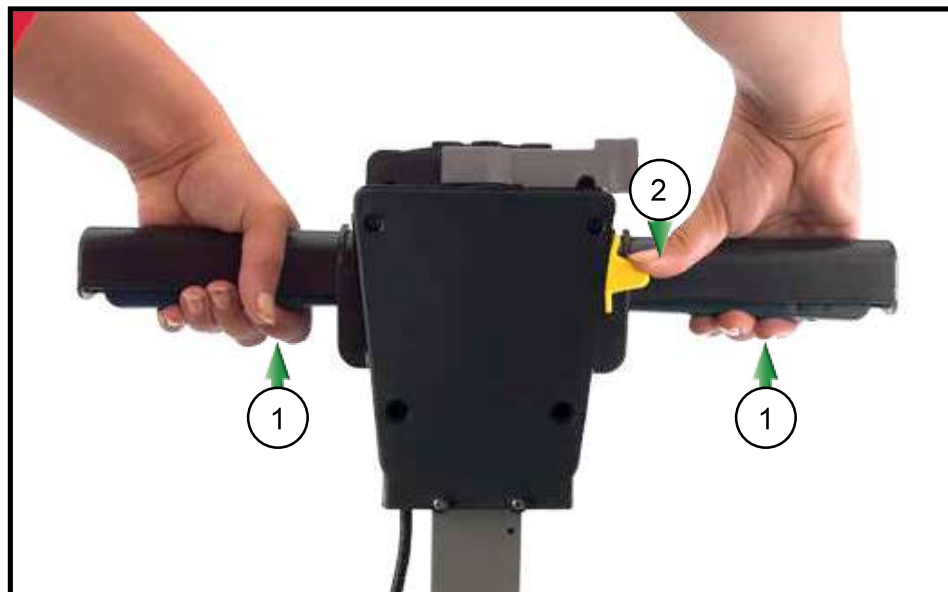
Ensure your TT 516 machine has been plugged into a suitable power supply.

Select the desired function using the ON / OFF switches fitted to the handle.



**Note:**

The Pump Switch will only function when the Brush is in operation.



To start: hold down either trigger and press the yellow start button once

# Regular Maintenance



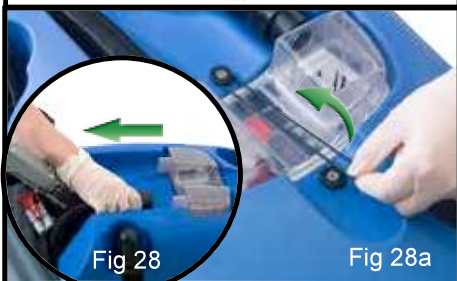
**ALWAYS ENSURE THAT THE POWER SUPPLY IS DISCONNECTED,  
PRIOR TO ANY MAINTENANCE OPERATION.**



The TT 516 has been designed with ease of use in mind, this included easy stripping-down and cleaning.



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



Remove the two hoses and disconnect the separator from the machine (Fig 28). Undo the separator restraining strap (Fig 28a) and lift off the separator. The separator has a sealing-rubber which should be examined at every clean-down (Fig 29). Rinse using clean water.



Fig 30



Fig 30a



Fig 31



Fig 32

Remove the two filters clipped into the separator and flush with clean water (Fig 30)(Fig 30a). Replace by fitting the rear of the filter first then clipping the front to lock in place (Fig 31) (Fig 32).



Fig 33

Once emptied the top waste-water tank can simply be lifted off. (Fig 33).

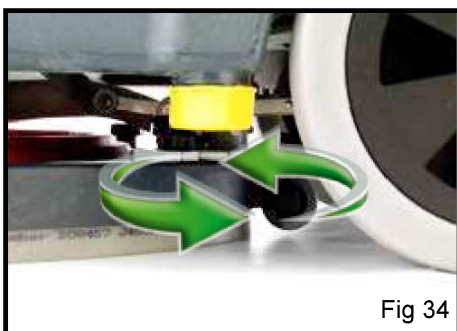


Fig 34

The clean-water tank can be drained via the yellow cap fitted to the left hand side of the machine. The cap has a rubber seal and might require a spanner to remove. (Fig 34).

## NOTE:

Avoid over tightening the clean water draining cap.

## Replacing the Waste Water Tank



Fig 39



Fig 39a

Place the suction hose as shown (Fig 39).

Place the tank onto the machine  
(Fig 39a).



Fig 40

Refit the separator and reconnect the vacuum and suction hose (Fig 40).

Refit the separator restraining strap (Fig 40a).



Fig 40a

Notes:

[illegible]

# Changing the Floor-Tool Blades



**ALWAYS ENSURE THAT THE POWER SUPPLY IS DISCONNECTED PRIOR TO ANY MAINTENANCE.**



Fig 41

To change the floor-tool, firstly swing the floor-tool clear of the machine (Fig 41).

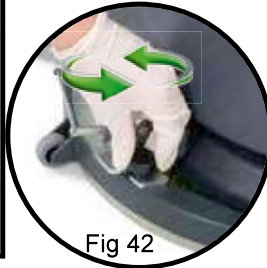


Fig 42

Undo the two floor-tool retaining knobs (Fig 42).



Fig 43



Fig 44

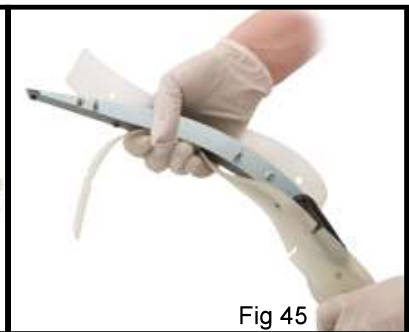


Fig 45

Unscrew the four knobs securing the blade holder (Fig 43).

Remove the blade holder (Fig 44).

Replace the Squeegee blades using (606261) replacement blade set (Fig 45), fitting the blades on to the moulded location lugs.

## Refitting the Floor Tool Blades

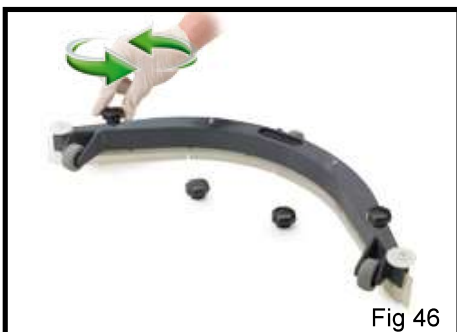


Fig 46

Refit the blade holder, retain using the two outer knobs (Fig 46)

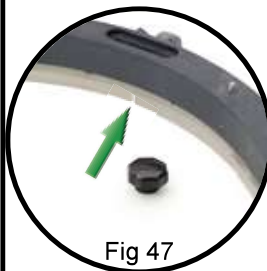


Fig 47

Ensure the slotted blade goes to the front of the floor-tool (Fig 47).

**Note:**

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

Refit the floor-tool using the two central knobs to the floor-tool.

*Refer to Page 5 for fitting instructions.*

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

Use Genuine NUMATIC spare parts.  
use  
Replacement Blade Set (606261)

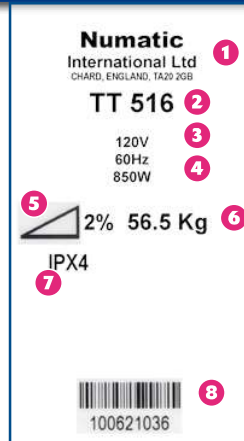




## About the Machine

### Rating Label

- 1 Company Name & Address
- 2 Machine Description
- 3 Voltage Frequency
- 4 Power rating
- 5 Max Gradient
- 6 Weight (ready to use)
- 7 Rating
- 8 Machine yr/wk Serial number



### Safety Critical Component

Mains lead:  
SJTW 20m x 16 AWG x 3 core

### 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.

### 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

Twin Tec  
Maintenance

# Information for Scrubber Dryer



ORIGINAL INSTRUCTIONS  
READ MANUAL BEFORE USE

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



## WARNING

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

Failure to carry out maintenance as necessary, including the replacement of parts to the correct standard could render this equipment unsafe and the manufacturer can accept no responsibility or liability in this respect.  
When ordering spare parts always quote the Model Number / Serial Number specified on the Rating Plate.

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

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

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 CSA / CAN 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.

## WARNING

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 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.

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

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

## Data

Brush Motor	Vac Motor	Power	Noise	Speed	Brush	Dimensions
400 W	300 W	120v 60Hz	71 dB(A)	50Hz = 150rpm	16"	Width - 20.5" Length - 35" Height - 44.6"
Gross Weight Full	Protection Class	Hand Arm Vibration	Pad	Net Weight	Cleaning Range	Water Capacity
122.6 lbs	IPX 4	1.4 +/- 0.06ms <sup>2</sup>	16"	85 lbs	42 m	5 gall
Fluid Flow tap @40°	Brush / Pad Pressure	Cleaning Speed	TT 516			
0.35 LPM	27.4 / 26.2 G/ cm <sup>2</sup>	0 - 2.6 mph				

## Trouble-Shooting

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