

SO 4500



**Nilfisk
ALTO**
Why Compromise

Operating Instructions

English

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Modified January 2010

Components

1. Cold Water Tank
2. Steam Control
3. Steam Hose Socket
4. Caster with Brake
5. Caster No Brake
6. Serial Number

Diagram A

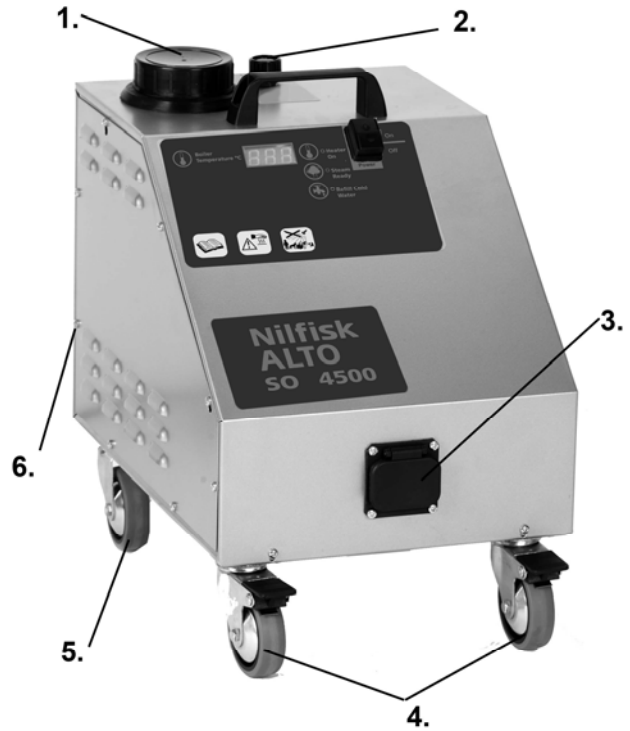
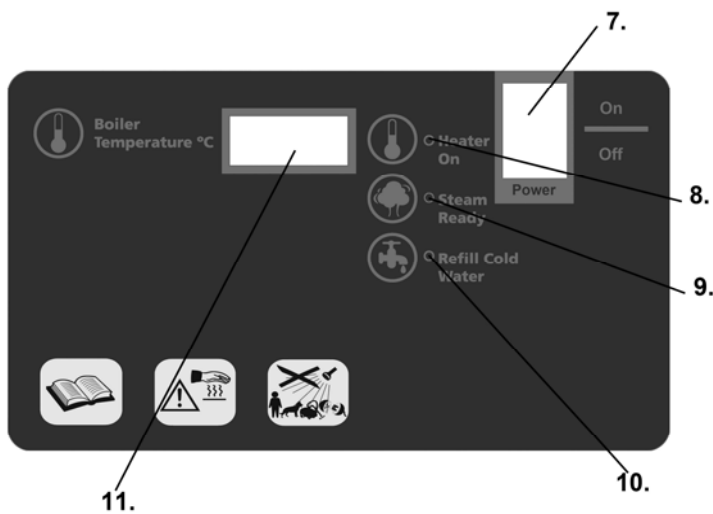


Diagram B



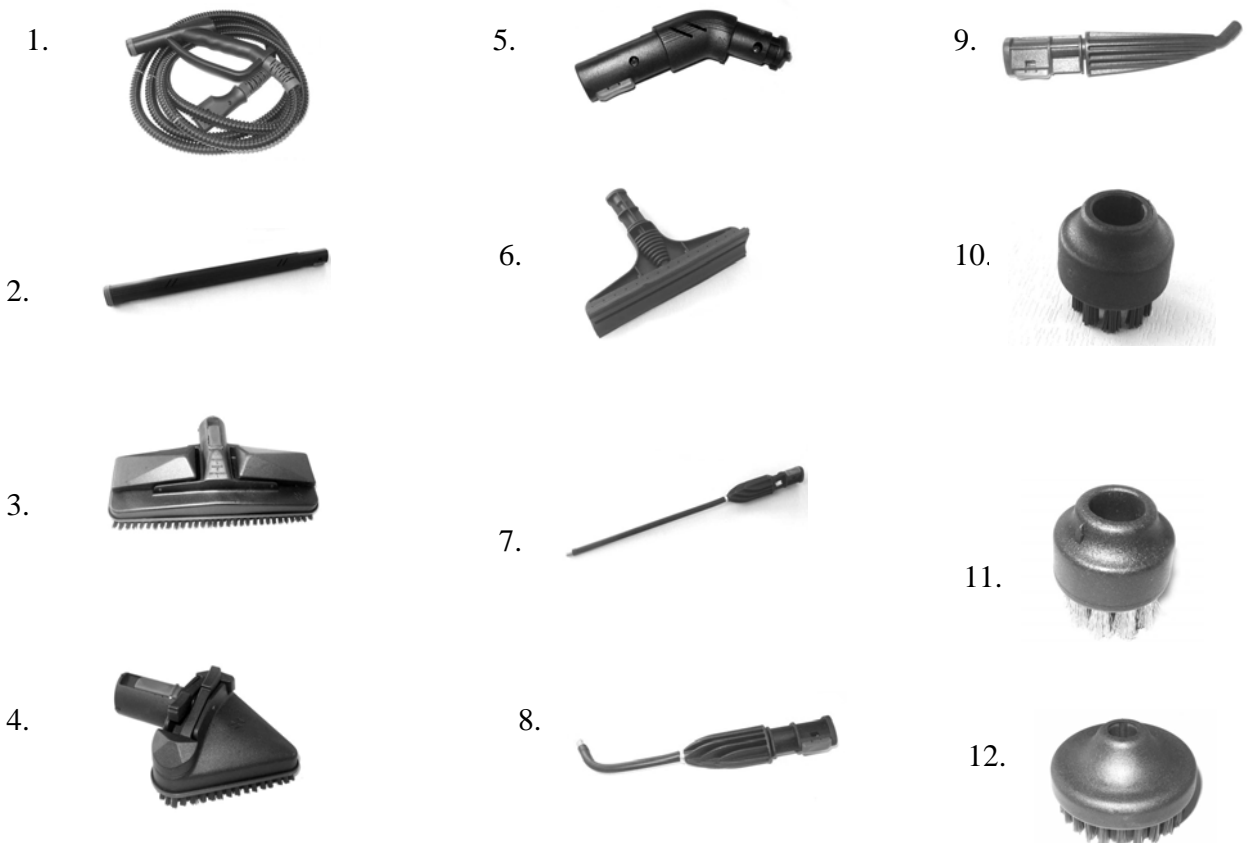
7. On/Off Switch
8. Heater On LED
9. Steam Ready LED
10. Cold Water Refill LED
11. Temperature Display LED

Attachments

These Parts were carefully packed at Nilfisk ALTO. Please check all accessories on receipt. If any parts are missing or damaged please contact the company in which you purchased this machine, within 7 days of purchase quoting your serial number on the back of the machine.

- | | |
|----------------------------|----------------------------|
| 1. 4 Metre Steam Only Hose | 2. Extension Tube x 2 |
| 3. Floor Brush | 4. Triangular Brush |
| 5. Large Brush Elbow | 6. Window Squeegee |
| 7. Large Nozzle | 8. Curved Nozzle |
| 9. Detail Brush Nozzle | 10. Detail Nylon Brush x 5 |
| 11. Detail Brass Brush x 5 | 12. 55mm Round Brush |

Diagram C



Guidance

Congratulations

.....

We would like to take this opportunity to thank you for your purchase of the Nilfisk ALTO steam only cleaner.

The SO4500 is manufactured in the EU to the highest quality Standards

This instruction manual contains all of the necessary information to operate and maintain this machine. Please read this instruction manual carefully before you start using or carrying out any maintenance on the machine.

If you use this machine correctly as stated in this instruction manual this machine will fulfil all your steam cleaning needs.

- This machine is intended for use in a commercial cleaning environment. If you do not follow the instructions contained in this manual, situations may arise which may be dangerous or harmful to the machine or the person operating the machine. Read this manual carefully so that you know when such situations can arise.
- Ensure that all operators of this machine are fully trained on how it works.
- Report any problems or damage to the machine immediately to the supplier or a Nilfisk ALTO approved supplier for this product. **Do not** operate the machine until the problem or damage has been resolved.

Getting the Best Results

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- Operate the machine in accordance with the instruction manual
- Maintain the machine in accordance with instruction manual
- Use only parts supplied by Nilfisk ALTO approved distributors
- Use only detergents and cleaning products in the solution tank which have been approved by Nilfisk ALTO

Keep this manual in a safe place for future reference and ordering of spare parts

Installation



- Lift the machine out of the box.
- Check all accessories are present in the box as shown in *Diagram C*

Warnings

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This machine has been designed with your safety in mind, however it is important that you observe the following points for safe operation during the operating procedure

- This is an electrical product – Do not use in wet weather or allow the machine to get wet.
- Do not discharge steam towards people, danger of scolding. Or towards equipment containing electrical components
- Never allow children to play with this appliance.
- Do not use the machine for other purposes that it was built for.
- Please remember that the steam cleaner operates at temperatures in excess of 170°C. Never use it on objects, which cannot resist the temperature (delicate materials, fabrics, plastics, wood etc). Where any doubt exists check carefully on a part of the material where minor marks will not matter.
- Do not operate the machine or carry out any maintenance out on it
 - Unless you are trained and authorised to do so
 - Unless you have read and thoroughly understand this instruction manual.

Operating Procedure

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1. Fill the cold water tank (*Number 1 Diagram A*) with **clean cold** water only.

!! Anything other than clean cold water used in the Water tank will void the manufacturer's warranty.

2. Connect the Steam Hose (*Number 1 Diagram C*) to the front of the machine (*Number 3 Diagram A*) ensuring it is pushed in all the way and the pin on the flap locks into the hole on the hose.

!! Grease "O" rings on steam pin before connecting.

!! To release the steam hose, lift the flap and pull.

Operating Procedure cont....

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3. Plug the power cable into a 240 Volt supply.

!! Inspect the electric cable before every use. If the cable becomes damaged at anytime the complete cable must be replaced by a Nilfisk ALTO approved distributor.

!! Never touch the power cable or plug with wet hands

!! Always unplug the machine when

- i. The machine is not in use**
- ii. Cleaning the machine**
- iii. Any maintenance work is being carried out**

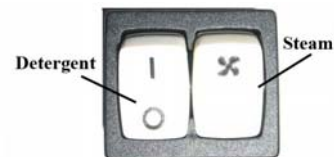
8. Switch the On/Off switch (*Number 7 Diagram B*) to the ON position. The Heater On light LED (*Number 8 Diagram B*) will illuminate.

9. Allow approximately 5 minutes for the boiler to heat the water

10. When the Steam Ready LED (*Number 9 Diagram B*) illuminates the machine is ready to be used.

11. The handle controls are now active.

- The fan switch on the hose handle will release steam when pressed.
- Pressing the detergent switch located on the top of the handle will activate the detergent pump. Hold the switch as long as you need to dispense the detergent. Releasing the switch will stop the detergent supply.



12. The steam output can be adjusted by the steam control knob (*Number 2 Diagram A*)

13. Choose and fit the required accessory (*Diagram C*) to the hose handle.

!! When changing accessories during use please note these will be hot.

During Use

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Cold Water Tank Empty(Number 1 Diagram A)

1. Refill the cold water tank when the refill cold water LED (*Number 11 Diagram B*) is illuminated. A buzzer will sound and the steam will no longer come out of the nozzle when the steam switch on the handle is pressed.
2. The pumps will not work when the cold-water tank is empty.
3. Once the cold water refill LED is illuminated the boiler heater will remain on for 30 minutes. If the cold-water tank is not refilled within 30 minutes and the machine is left powered on the boiler heater will switch off.

Safety Precautions

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This machine is to be used by trained operatives only

DO

- Check the cable and plug are safe and intact before plugging the machine in.
- Place cleaning in progress signs where necessary
- Point the steam nozzle away from your body during use
- Clean machine after each use

DON'T

- Use the machine near people, children or animals
- Point steam at electrical apparatus
- Use the machine to clean the machine down
- Do not use on Velvet, satin or leather
- Leave the machine unattended

Maintenance

Warning: Disconnect the machine from the mains before cleaning or carrying out any maintenance work.

Daily Maintenance

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To be carried out every day or every 8 hours of operation.

1. Grease “O” rings on the steam pin in the steam hose.
2. Wipe down the body of the machine with a clean damp cloth
3. Always wash the accessories in hot soapy water
DO NOT IMMERSE THE MACHINE OR HOSE IN WATER
8. Wrap the power cable around the handle before storage.

Weekly Maintenance

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To be carried out every week or every 50 hours of operation.

As for daily maintenance plus the following:

1. Inspect the power cable for any signs of damage. If damaged do not repair, contact the supplier of this product. Do not use until repaired.
2. Inspect the hose assembly for any signs of damage. If damaged do not repair, contact the supplier of this product. Do not use until repaired.
3. Inspect castors and wheels to ensure all securing bolts are fully tightened.

Service & Guarantee

Service

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If you require a service or advice on using or maintaining your machine please contact your Nilfisk ALTO approved distributor

Guarantee

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Nilfisk ALTO guarantees that if within 12 months from the date of purchase this appliance, or any parts thereof, is proved to be defective by reason of faulty workmanship or materials, we will at our option repair or replace the same free of charge for labour and materials, provided that:

- The appliance has been installed and used in accordance with our operating and servicing instructions.
- If the appliance has been serviced, maintained, repaired, modified taken apart or tampered with by any person not authorised by us, then we will not be liable under this guarantee for any fault arising from their defective workmanship.
- We shall not be liable under this guarantee for any fault in the appliance arising from the use of spare parts not supplied and recommended by us.
- Excluded from this guarantee are parts that need replacement due to normal wear and tear such as hoses, nozzles and accessories.

Technical

Technical Information

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Boiler

Wattage:	1950W
Type:	Powder Coated
Capacity:	1.8 Litres
Continuous Fill	Yes
Steam Pressure	4.5 Bar
Steam at source:	135°C >

Electrical

Voltage	230V ~ single phase
Low Voltage Controls	5V
Cord length	10m

Capacities

Boiler	1.8 Litres
Cold Water Tank	5 Litres (easy fill)
Weight	12kg

Trouble Shooting

Symptom	Possible cause	Action
No power	Not connected / Faulty socket	Check connection to wall socket and socket switch. Try in another wall socket
	On / Off switch not on	Press On / Off switch which will illuminate when on
	Fuse blown	Replace fuse with approved 13A fuse
No steam	Unknown	Call for service
	Steam Control turned down fully clockwise	Turn the control to half way
	Steamer not ready	Wait for the "Ready to steam" light to illuminate
	Clean water tank is low (beeping sound & "refill" light is lit)	Pour water into the clean water tank until the beeper stops. The steam handle will work again.
No steam, Just water	Unknown	Call for service
	Steamer not ready	Wait for the "Ready to steam " light to illuminate
	Boiler at pressure and not heating (temperature less than 110°C)	Hold the steam switch on for approximately one minute, even if just water is coming out. This will result in the heater coming back on
Steam Leaking from front socket	Unknown	Call for service
	"O" Rings split	Change and re grease "O" Rings. To avoid this happening ensure "o" rings are grease before every use.
	"O" rings worn	Change and re grease "O" Rings. To avoid this happening ensure "o" rings are grease before every use.
	Unknown	Call for service

English

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