

STIHL SE 100

For Commercial Use

**Safety Precautions
Assembling
Operating Instructions
Maintenance**



Warning:
Always follow safety precautions in
Owner's Manual – improper use
can cause serious injury!

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This manual contains operating and safety instructions for your STIHL SE 100 vacuum cleaner. Please read and make sure you understand this manual **before operating** your vacuum for the first time. Allow only persons who understand this manual to operate your vacuum cleaner.

Pay special attention to the safety instructions outlined on pages 2 and 3. You should read these instructions carefully even if you are already familiar with the operation of an electric vacuum cleaner.

STIHL's philosophy is to continually improve all of its products. We therefore reserve the right to modify the design, engineering and equipment without prior notice. You will appreciate that no claims can be derived from the data and illustrations in this manual.

Contact your STIHL dealer if you do not understand any of the instructions in this manual.

STIHL®

IMPORTANT SAFETY INSTRUCTIONS

When using an electrical appliance, basic precautions should always be followed, including the following:

READ ALL INSTRUCTIONS BEFORE USING THIS APPLIANCE

WARNING!

To reduce the risk of fire, electric shock, or injury:



The following safety precautions must be observed.

Careless or improper use of any vacuum cleaner may cause serious or even fatal injury.



Read the owner's manual and the safety precautions **periodically**.

It is important that you read, fully understand and observe the following safety precautions and warnings. Have your STIHL dealer show you how to operate your vacuum cleaner. Observe all applicable local safety regulations, standards and ordinances.

Warning!

Do not allow to be used as a toy. Close attention is necessary when used by or near children. Minors should never be allowed to use the vacuum cleaner. Never let the vacuum cleaner run unattended.

Do not leave the vacuum cleaner when plugged in. Always unplug from outlet when not in use.

Do not lend or rent your vacuum cleaner without the owner's manual. Be sure that anyone using your vacuum cleaner understands the information contained in this manual.

Most of these safety precautions and warnings apply to the use of all STIHL vacuum cleaners. Different models may have different parts and controls. See the appropriate section of your owner's manual for a description of the controls and function of the parts of your model vacuum cleaner.

Safe use of a vacuum cleaner involves

1. the operator;
2. the vacuum cleaner; and
3. the use of the vacuum cleaner.

Warning!

Never modify your vacuum cleaner in any way as this could be extremely dangerous. Only attachments supplied by STIHL or expressly approved by STIHL for use with the specific STIHL vacuum cleaner model are authorized.

Preparation for the use of the vacuum cleaner

Before starting work, check that your vacuum cleaner is operating correctly and in good condition. Pay special attention to the power supply cord and plug.

Electrical Precautions

Warning!

The electrical power voltage must agree with the voltage specified on the machine's nameplate. Improper connection will damage the machine and may cause personal injury.

Avoid damage to the power supply cord, do not roll over, crush or pull it. Do not pull the cord around sharp edges or corners. Keep away from heated surfaces. Never pull the power supply cord to disconnect the plug from the wall outlet. To unplug, grasp the plug not the cord.

Warning!

Inspect the power supply cord and plug before and after each use for signs of damage or aging.

In order to reduce the risk of serious injury from electrocution, never use your machine if the power supply cord or plug is cut, cracked, worn or damaged. Turn off power at source and have dealer replace the power supply cord or plug. If your vacuum cleaner is not working as it should, has been dropped, damaged, left outdoors, or dropped into water, return it to your STIHL dealer.

Warning!

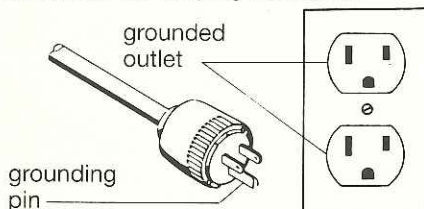
To avoid electric shock do not expose to rain. Store indoors. To reduce the risk of electric shock do not handle the plug or the unit with wet hands.

Grounding Instructions

This appliance must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This appliance is equipped with a cord having an equipment-grounding conductor and grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

WARNING!

Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded. Do not modify the plug provided with the appliance – if it will not fit the outlet, have a proper outlet installed by a qualified electrician. This appliance is for use on a nominal 120 Volt circuit and has a ground plug that looks like the plug illustrated.



Make sure that the appliance is connected to an outlet having the same configuration as the plug. No adapter should be used with this appliance.

Working conditions

Warning!



To reduce the risk of serious injury, never attempt to pick up flammable materials (hot ashes, glowing cigarettes, etc.) or combustible fluids (gasoline, paint, thinners, etc.) as they represent a fire hazard and might cause an explosion.



Never attempt to use a vacuum cleaner in locations where there is potential for explosive or flammable atmospheres.

Never attempt to pick up toxic materials. In order to reduce the amount of dust resulting from the use of the vacuum cleaner, do not use the vacuum cleaner without filter element or with a damaged filter element. Inhaling dust or toxic materials in the air may cause an allergic reaction or serious or fatal injury.

Always remove the paper filter bag before using your vacuum cleaner for wet pickup.

In order to reduce the risk of loss of control and falling, use extra care when using the vacuum on stairs or an incline. To reduce the risk of serious or fatal injury, do not put any object into openings. Do not use with any opening blocked; keep free of dust, lint, hair, and anything, that may reduce air flow.

Keep hair, loose clothing and all parts of your body away from openings.

Maintenance and repairs

Always disconnect the plug from the power supply before cleaning or servicing the unit, replacing parts or performing any other work on the unit. Turn off all controls before unplugging.

Only authorized personnel may repair or replace the power supply cord. A damaged power supply cord must be replaced by one of the same type and rating as specified by the manufacturer.

Only carry out the maintenance operations and repairs described in this manual. Other work should be performed by your STIHL servicing dealer.

Only use original replacement parts for maintenance and repair. Use of parts manufactured by others may cause serious or fatal injury.

All plugs and connectors must be splashproof.

The vacuum cleaner must be protected by a 10A automatic circuit-breaker or 15A fuse.

SAVE THESE INSTRUCTIONS!

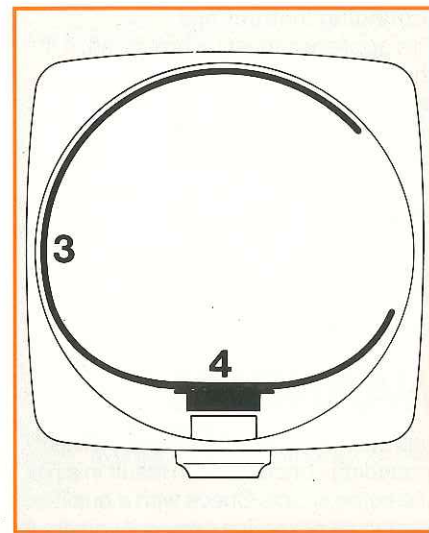
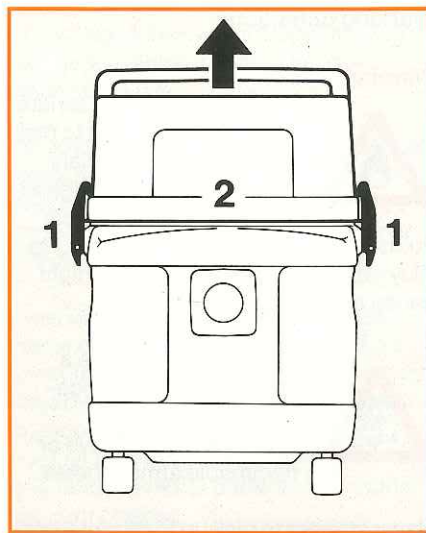
Applications

The STIHL SE 100 is an industrial vacuum designed to pick up dry, non-inflammable dusts. An extensive range of optional accessories is available for contract cleaners, craftsmen and various areas of industry.

The use of filter bags permits hygienic and dust-free disposal.

STIHL Series 4709 vacuums are also suitable for picking up non-combustible fluids. The filter bag must be removed from the unit for such applications.

Startup



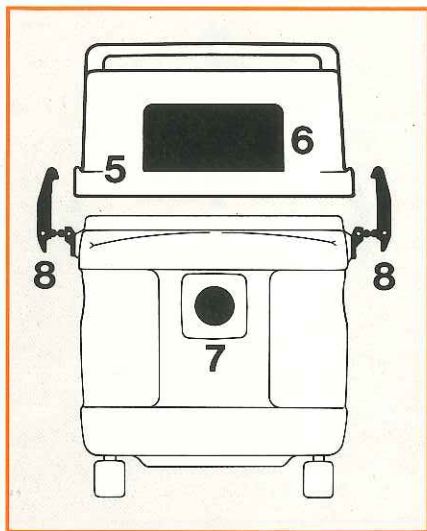
A factory-new vac comes with its accessories and one filter bag packed loosely in the container. Remove these parts before using the vac for the first time.

You must connect the filter bag to the air intake before using the vac for dry pickup.

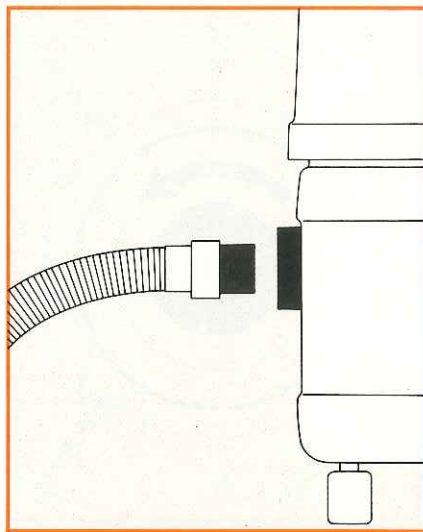
- 1 = Open the catches and
- 2 = lift off the motor head vertically.
- Remove accessories from the container.

3 = Place the filter bag in the container and

4 = fit the filter bag sleeve.



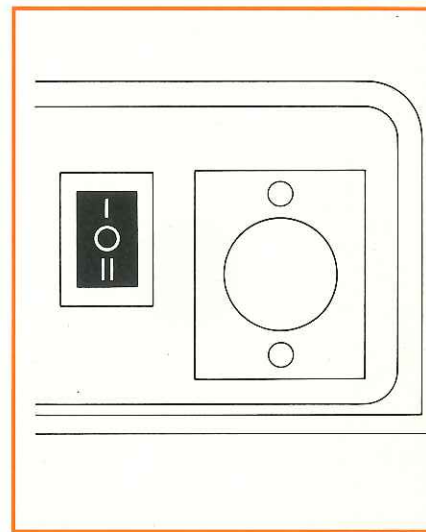
- 5 = Position the motor head on the container so that the
- 6 = switch panel points in the same direction as the
- 7 = air intake fitting.
- 8 = Engage and close the catches.



Check that voltage specified on vac nameplate agrees with that of your power supply.

- Connect power supply cord plug to grounding-type outlet protected by a suitable fuse.
- Push end of suction hose into air intake fitting.

Select accessories required for cleanup job (extension tube, floor tool, etc.).



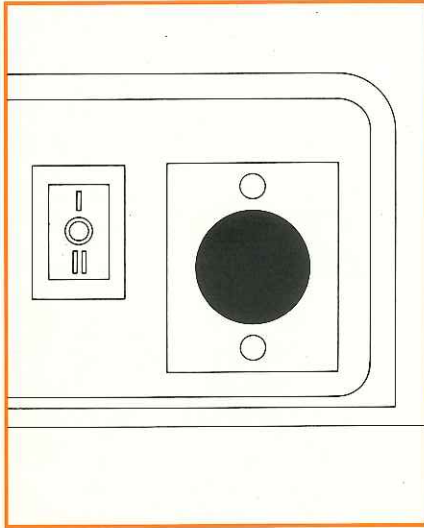
Switch Positions

- 0 = Vac off.
- I = Low setting for reduced suction power.
- II = Normal setting for maximum suction power.

(110–120 V models have a single-stage switch.)

Vacuuming

Maintenance/Cleaning



The outlet on the vacuum's switch panel is intended for the connection of power accessories (e. g. electric brush beater-bar head). It can be used when the vac is connected to the power supply, regardless of the vac's switch position. Maximum connected load must not exceed 800 W.

(Not applicable in the U.S.)

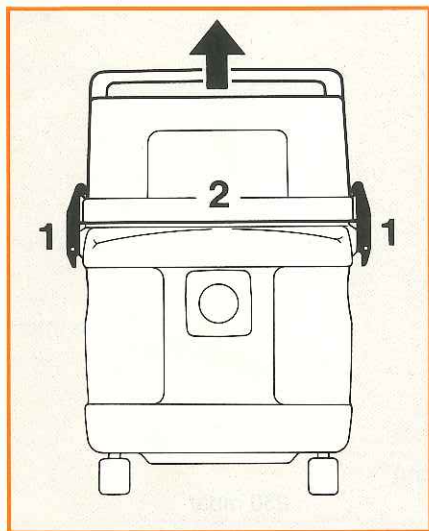
During **dry pickup** the suction power will decrease after a while. The filter element should be cleaned and/or the tank emptied when suction efficiency is unsatisfactory.

During **wet pickup** (always without filter bag) the built-in float cuts off suction completely when the tank is full and needs emptying.

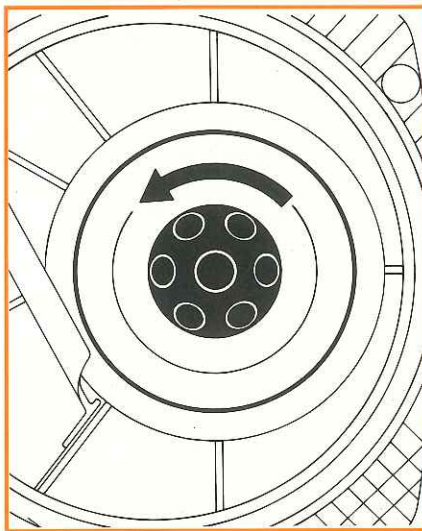
Only the maintenance operations described below may be carried out on the vacuum. Other servicing work and repairs must be performed by your STIHL servicing dealer.

The vacuum cleaner should always be stored in dry conditions after it is cleaned, and ensuring that it is inaccessible to unauthorized persons. The unit should not be stored in a hazardous area.

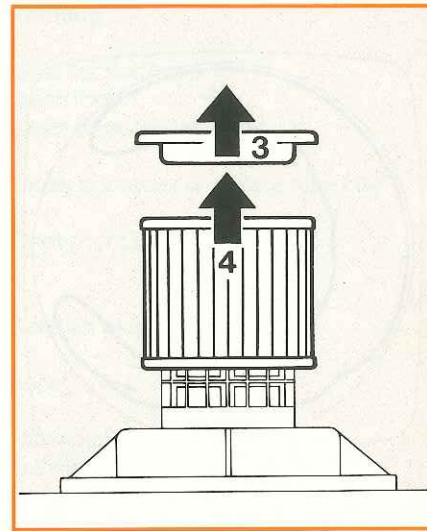
Cleaning/ Replacing Filter Element



1 = Open the catches and
2 = lift off the motor head vertically.



● Unscrew the filter clamp nut.



3 = Remove the filter retainer.
4 = Pull off filter element vertically.

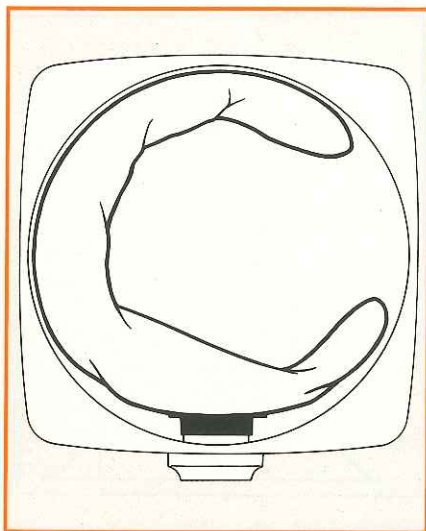
A dirty filter element can be cleaned with a soft brush or under a jet of water (do not use a high-pressure cleaner).

● If you wet-clean the filter element, allow it to dry before re-installing.

A filter element damaged by frequent cleaning or hard tools must be replaced.

● Install (new) filter element.

Emptying the Container



If you have been using a filter bag for dry pickup:

- Pull off the filter bag sleeve.
- Seal the filter bag with the attached cover and carefully remove it from the container.

After wet or dry pickup without filter bag:

- Empty the container and ensure safe disposal.

Specifications

Performance Data

Voltage	110 ... 120 V	220 ... 240 V
Frequency	60 Hz	50 Hz
Power consumption	1000 W	1000 W
Nominal current	8 A	4 A
Fuse	15 A ¹⁾	16 A
Protection class	I	I
Type of enclosure	IP 54*	IP 54*

* Splash-proof

Max. intake capacity		
- Air	204 m ³ /h (120 cft/min)	204 m ³ /h
- Water	13 m ³ /h (5 3/4 US gpm)	13 m ³ /h
Max. negative pressure	230 mbar	230 mbar
Noise pressure level at a distance of 1 m	60 dB(A)	60 dB(A)

Weight and Dimensions

Depth, approx.	425 mm (16 3/4 in)
Width, approx.	430 mm (17 in)
Height, approx.	610 mm (24 in)
Total weight	14 kg (30.8 lb)
Intake hose	
- Length	3 m (10 ft)
- Diameter	36 mm (1 7/16 in)
Container capacity	38 l (10 USgal)
Filter area	3150 cm ² (3 1/2 sq.ft)

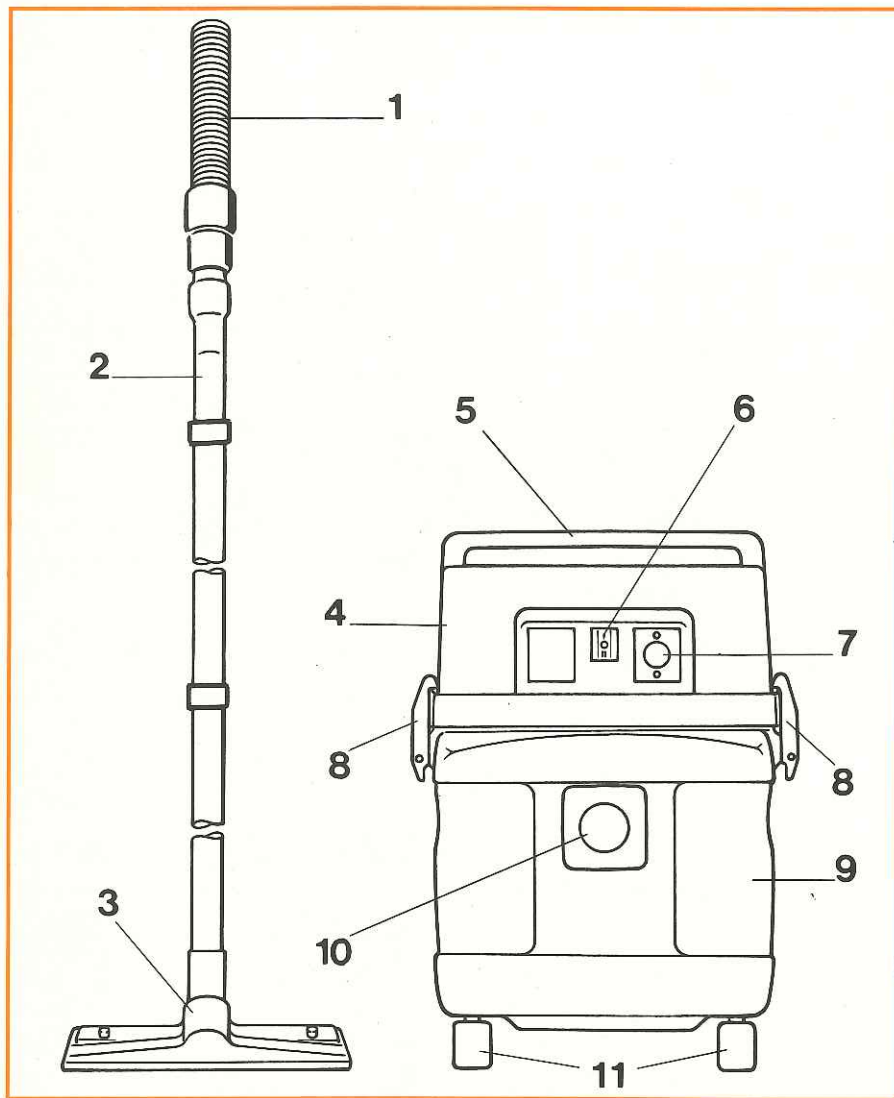
Refer to nameplate for electrical data

¹⁾ USA: 10 A
GB, R-IRL, N-IRL: 13 A

Troubleshooting Chart

Fault	Cause	Remedy
Low suction	Suction hose blocked Tool blocked Filter element dirty	Clear suction hose. Clean tool Clean or replace element.
	Container or filter bag full	Empty container or replace filter bag.
No suction during wet pickup	Container full (float has cut off suction)	Empty container.
Motor does not run	Plug disconnected	Connect plug to outlet.
	Circuit breaker has cut out	Reset
	Overload cutout has tripped	Allow motor to cool down for up to 5 minutes. If power is not restored automatically, contact STIHL dealer for assistance.

Main Parts



- 1 Suction hose
- 2 Extension tube (3-part)
- 3 Floor tool
- 4 Motor head
- 5 Handle
- 6 On/Off switch
- 7 Power tool outlet
(not applicable in the U.S.)
- 8 Catches
- 9 Air intake fitting
- 10 Container
- 11 Casters

Certificate of conformity

This Certificate of Conformity applies only
in the countries of the European Union.

Certificate of conformity
(Clause 8 of Directive 89/392/EEC)

I, the undersigned

Andreas Stihl
Badstr. 115

D-71336 Waiblingen

certify that the new machine
described below

Category:	Vacuum cleaner
Make:	STIHL
Model:	SE 100
Serial identification:	4709

conforms to the specifications
of Directive 89/392/EEC, 73/23/EEC and 89/336/EEC.

The product has been developed and manufactured
in compliance with the following standard:

EN 292; EN 60335-1, EN 60335-1A6, EN 60335-2,
EN 55014, EN 50082, EN 60555

Done at Waiblingen,
June 20, 1995

ANDREAS STIHL



Steinhauser

Director Group Product Management

Quality Certification



All STIHL products comply with the
highest quality standards.

An independent organization has
certified that all products manufactured
by STIHL meet the strict requirements of
the ISO 9001 standard for quality
management systems in terms of
product development, materials
purchasing, production, assembly,
documentation and customer service.

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