



390 Surface Prep Machine Operating Manual

Read before use and keep safe

Table of Contents

1.0	Technical Data	Page 2
2.0	Safety	Page 2
3.0	Safety Instructions	Page 2
4.0	Maintenance	Page 4
5.0	Use	Page 4
6.0	Trouble Shooting	Page 6
7.0	Schematics	Page 7



1.0 Technical data/technical description

Power supply	110V AC
Power consumption	1300W
No-load speed	154 / min.
Sound pressure level	54 dB(A)
Sound energy level	67 dB(A)
Hand/Arm-Vibration	4.5 m/s ²
Weight	100 lbs.
Comes with	Grinding Machine 390, tool kit, Operation Manual

2.0 Safety

The Sinclair Surface Prep 390 is state of the art designed and meets all standard safety requirements.

3.0 Safety Instructions

Disconnect the power supply before any maintenance is carried out.

Use only recommended mounting disc and brushes. The mounting disc must have a plain surface.

Use only genuine Sinclair disc and brushes. Other parts could affect the safety of the machine.

Only qualified personnel should undertake maintenance.

Use only genuine Sinclair spare parts.

Always remove the disc and brushes before transporting the machine.

Use only appropriate detergent liquids.

Check the power cord and the plug before starting. Both of them must be in perfect condition, the insulation must not be

CAUTION!!! Always wear ear and eye protectors! CAUTION!!!

Using this machine without ear and eye protectors may jeopardize or harm your health. It may harm especially your ears and increase the risk of an accident.

PLEASE READ DETAILED SAFETY INSTRUCTIONS ON COLORED SHEET BEFORE USING MACHINE!

3.1 Introduction

This operating manual should be used to get the most benefit from your 390 Surface Prep machine. Following these instructions will both extend the life of your machine and reduce repair costs.

Please make sure you are fully familiar with the operating instructions before using this machine.

3.2 Danger while working with the machine

The 390 Surface Prep is designed to the highest technical standards. Incorrect use can be dangerous!

Use this machine only

- **As instructed in this operating manual**
- **With the machine in perfect working order**

Disturbances that could impair safety have to be eliminated at once.

3.3 Restriction of use

The 390 Surface Prep Machine is exclusively for wet cleaning and polishing of resilient and textile floor coverings and for grinding pavement and leveling compounds in dry environments. It should not be held responsible for any damage or loss caused by incorrect use.

- To take care of all directions from the operating
- Manual and the execution of maintenance and services

3.4 Genuine Spare Parts

Spare parts and accessories are manufactured uniquely for the 390 Surface Prep Machine. It must be emphasized that parts obtained from unauthorized sources must not be used.

Sinclair Equipment Company cannot be held responsible for the performance of or any damage arising from the use of machines in which genuine spare parts have not been used.

This is particularly important with mounting discs, disc and brushes.

4.0 Maintenance

The grinding machine is virtually maintenance free.
The roller bearing and gearbox need not to be lubricated.

Mounting and changing the paper bags of the vacuum unit

The vacuum unit can be used with paper bags or with the enclosed textile bag.

- release and pull the cover of the vacuum unit upwards
- insert paper bag
- remount the cover
- mount the vacuum ring from the lower side of the machine
- connect the vacuum ring with the vacuum unit with the tubes
- connect the power cord of the vacuum unit with the grinding machine

5.0 Use

Getting started

The grinding machine is shipped in two separate boxes. Mount the handle with four screws, safety washers and nuts to the machine. Connect the power cord of the handle with the machine.

Note: Mount the handle with the cable entry (5) backwards (towards the user).
Otherwise the machine will not operate.

Assembly of mounting discs, pads and brushes

Lay the machine down on the handle. Thus the support of the discs is accessible.
Put the mounting disc on the actuation and lock it by turning anti-clockwise.

Assembly of the vacuum unit

Assemble the vacuum unit with two supports to the handle.

- insert lower connector into the plastic mounting
- lock the upper connector by shifting the upper plastic mounting down

The upper plastic mounting can be shifted by loosening the screws.

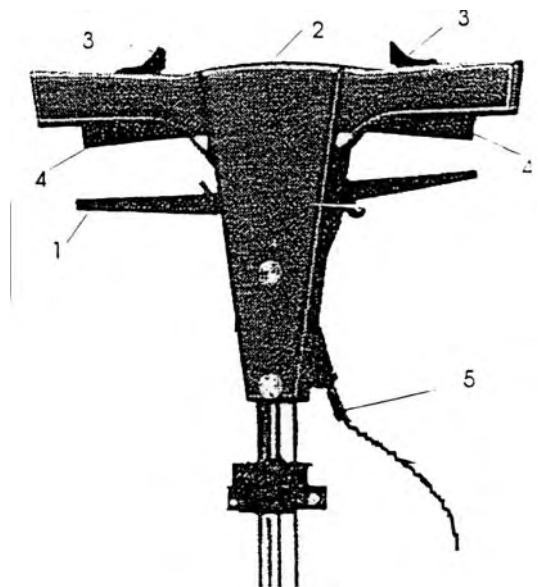
Mount discs and brushes as described in item

4.0.

Put the handle (2) in working position with the big, right lever (1). We recommend positioning the handgrip in the height of the user's hip.

Lift the handle slightly, to make sure the machine stands horizontally. Move the left or right safety lock (3) located onto the grip inwards. Switch on the machine with the respective lever (4).

Note: lever (4) can only be actuated, if the handle is not in vertical position. This is a safety



feature! The user cannot control the machine with vertical handle.

After switching on the machine, the handle will move shortly to the right.

Lifting or lowering the grip controls the direction, in which the machine moves. The more you lift or lower the grip, the faster the machine runs to the corresponding direction.

- **lifting the grip: machine runs to the right**
- **lowering the grip: Machine runs to the left**

If you feel unsafe or cannot control the machine just release lever (4). The machine will stop at once. If you have carried out some training, you will be able to operate the machine with one hand.

Always remove discs or brushes after work. Remove also the cleaning tank, if one has been used. Always disconnect the power cord after work or when leaving the machine.

Operation with vacuum cleaner

Note: the vacuum cleaner cannot – on technical grounds – remove the grinding dust from under the discs. It will always remove the fine dust. To clean the floor, use an industrial cylinder vacuum cleaner.

5.1 Operation with cleaning tank

Assemble the cleaning tank with 2 supports to the handle.

- insert lower connector into the plastic mounting
- lock the upper connector by shifting the upper plastic mounting down

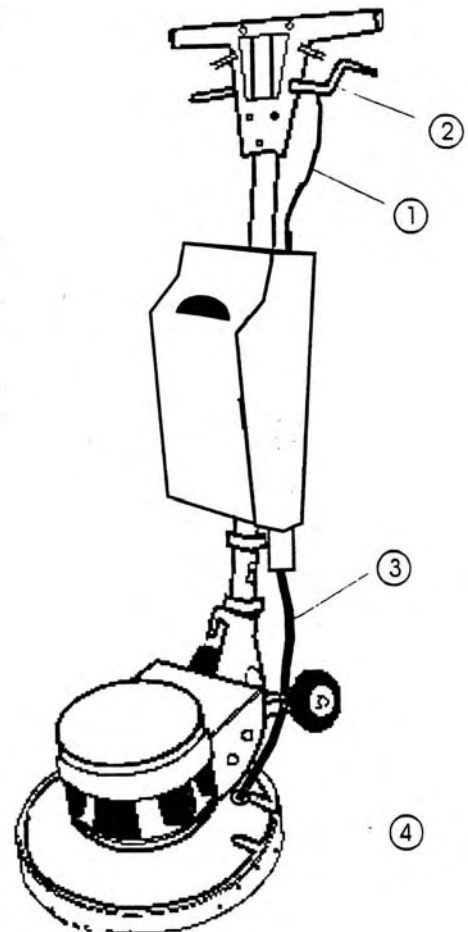
Loosening the screws can shift the upper plastic mounting.

Connect the chain (1) on top of the tank with lever (2). Connect the tube (3) of the tank with one of the 2 openings (4) on the right or left side of the machine. By pulling lever (2), detergent liquid pours onto the cleaning discs or brushes.

For cleaning works with grinding machine you will the following accessories:

- mounting disc for pads, Item-No. 526270
- pads
- brushes

For initial cleaning, maintenance or polishing various pads are available.



6.0 Trouble shooting

<u>Trouble</u>	<u>Eventual cause</u>	<u>Elimination</u>
Machine does not start	-Power supply Disconnected -blown fuse -defective cable or plug	Have machine repaired by a qualified electrician, resp. change parts
Switch-on lever (4) Cannot be actuated	Assembly of handle wrong Safety lever (4) can only be actuated, if handle not Vertical	Assemble handle like Described in item 5.0 Lower the handle of the machine

7.0 Schematics

Schematic #	Part #	Description
		MACHINE
1	SP015469	Cover
2	SP015470	Housing
3	SP014196	Base Link
4	SP015358	Rubber Washer
5	SP018416	Fastening Screw for Gear
6	SP015471	Balancing Weight
7	SP015472	Washer
8	SP015473	Fastening Screw for Weight
9	SP017116	Screw
10	SP017122	Tooth-Lock Washer M8
11	SP015474	Screw Nut
12	SP015475	Wheel Axle
13	SP015359	Wheel
14	SP018080	Washer
15	SP014849	Circlip Ring
16	SP015477	Fastening Screw for Housing
17	SP017283	Axle Retainer
18	SP017284	Screw
19	SP014830	Washer
20	SP015478	Screw nut for fan wheel
21	SP015479	Washer
22	SP015480	Fan Wheel
23	SP015481	Screw
24	SP015482	Washer
25	SP015483	Starter Switch
26	SP018417	Insulation Plate
27	SP015484	Stator Housing
28	SP015485	Insulation Washer
29	SP015487	Wavey Washer
30	SP015486	Bearing 6002
31	SP015488	Rotor
32	SP015489	Bearing E 20
33	SP015490	Insulation Washer
34	SP015491	Complete Gear Box Assy
35	SP015492	Base Part Brush Flange
36	SP015402	Spacer
37	SP015401	Flange

38	SP014760	Screw For Hub
----	----------	---------------

Schematic #	Part #	Description
		HANDLE
1	SP015439	Screw
2	SP014193	Front & Rear Pistol Stock
3	SP015440	Adjusting Lever for Shaft
4	SP015441	Lever for Right Switch
5	SP014814	Screw Nut
6	SP015442	Lever for Water Supply
7	SP015443	Split-Pin
8	SP015444	Spacer
9	SP015445	Lever for Left Switch
10	SP015446	Ball
11	SEE ITEM#2	
12	SP015447	Washer
13	SP015448	Screw for Handle Housing
14	SP015449	Screw for Handle
15	SP015450	Screw for Cover
16	SP015451	Screw Nut
17	SP014194	Safety Switch
18	SP015452	Spring
19	SP015453	Screw
20	SP015454	Rod for Handle
21	SP015455	Pull Rod for Shaft Adjustment
22	SP014731	Locking Screw for Joint
23	SP015457	Screw Nut
24	SP015458	Joint
26	SP015459	Attachment for Joint
27	SP015460	Shim
28	SP015461	Spring
29	SP015462	Piston For Gear Ring
30	SP015463	Gear Rim
31	SP015464	Fork-Shaped Piece For Attach.
32	SP014828	Washer
33	SP014825	Screw Nut
34	SP015467	Pin
35	SP015468	Screw for Retention Pin
	SP016242	Handle, Complete #1-35

	SP015351	Grip, Complete #1-18
	SP018400	Joint, Complete #22-24; 26-28

Schematic #	Part #	Description
		<i>ELECTRICAL INSTALLATION</i>
1	SP015493	Fastening Screw
2	SP015494	Washer
3	SP015495	Switch
4	SP018419	Screw For Floor Adjust.
5	SP018014	Screw for Fixed Link
6	SP018027	Screw for Cover
7	SP015496	Bolt
8	SP015497	Trigger Guard
9	SP015498	Protective Rubber Sleeve
10	SP015499	Main Power Cord 10m
11	SP014195	Handle Cord
12	SP015500	Cable Clip
14	SP015501	Spare Socket
15	SP015502	Socket
16	SP018332	Screw
17	SP018420	Screw Nut
18	SP015503	Starting Condenser 156MF
19	SP015504	Screw
20	SP015505	Motor Operating Capacitor
	SP015506	Bracket For Condenser
	SP018042	Screw
		<i>GEAR</i>
31	SP015507	Oil Seal Washer
32	SP018421	Top Cover
33	SP018422	O-Ring
34	SP018237	Washer
35	SP015489	Bearing E20
36	SP018424	Lay Shaft
37	SP018425	Bearing 16-004
38	SP018426	Bearing E15
39	SP015508	Gear Shaft
40	SP015509	Gear
41	SP018427	Gear Holder
42	SP018428	Bearing 16.001
43	SP018429	Planetary Box

44	SP015510	Oil Seal Washer
45	SP015511	Washer
46	SP018219	Grub Screw M4 x 10

STANDARD WARRANTY

SINCLAIR EQUIPMENT COMPANY'S tools are warranted to be free of defects in workmanship and materials for a period of one year from the date of original purchase. Should any trouble develop during this one year period, return the complete tool, freight prepaid, to SINCLAIR'S authorized Service Center. If inspection shows the trouble is caused by defective workmanship or materials, SINCLAIR EQUIPMENT COMPANY will repair, or, at its option, replace without charge.

- This warranty does not apply to malfunctions caused by damage, unreasonable use, faulty repairs made by others, or failure to provide recommended maintenance.
- The warranty is void if the product is altered by the original consumer purchaser, or if it is used in a manner not recommended by the manufacturer.
- The warranties do not cover consequential damages or transportation charges incurred with the replacement or repair of SINCLAIR EQUIPMENT COMPANY products.
- Not responsible for lost job or down time.

In no event shall SINCLAIR be liable for any indirect, incidental, or consequential damages from the sale or use of the product. This disclaimer applies both during and after the term of this warranty.

SINCLAIR EQUIPMENT COMPANY disclaims liability for any implied warranties, including implied warranties of "merchantability" and "fitness for a specific purpose", after the one year term of this warranty.

This warranty gives you specific legal rights, and you may have other rights which vary from state to state. Should you have any questions, contact SINCLAIR EQUIPMENT COMPANY at (530) 626-9386.

To obtain warranty service, deliver or send the complete tool, prepaid, to SINCLAIR EQUIPMENT COMPANY. Be sure to include the following information:

- Nature of failure;
- Name and address of distributor where tool was purchased;
- Application of tool when rendered defective; and
- Proof of purchase.

To obtain individual repair parts, contact SINCLAIR EQUIPMENT COMPANY with the following information:

- Tool model number;
- Item part number; and
- Description of part.

NOTES