



Instruktionsbok  
**Planslipmaskin**

Manual  
**Surface sander**

**BSG - 220**  
Code no. 19694 - 1504

## ENGLISH

Original instructions

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## 1. INTRODUCTION



For your own and others safety, please read these instructions carefully before using the machine. Keep the User Guide and the accompanying documentation with the machine for future use.

Surface sander BSG-220 is designed for dry sanding surfaces of wood, plastic and plaster as well as painted surfaces.

## 2. TECHNICAL DATA

Voltage .....	V	230
Frequency .....	Hz	50
Power input .....	W	220
Tool Class .....		II
No load speed .....	r/min	6 000-11 000
Abrasive paper .....	mm	90 × 187
Weight .....	kg	2.0
Lpa (sound pressure level) ..	dB (A)	83
Lwa (sound power level) ..	dB (A)	94
Vibration .....	m/s <sup>2</sup>	3.0

## 3. PACKAGE CONTENTS

- 1 Orbital sander
- 1 Abrasive paper (grit size 80)
- 1 Dust bag
- 1 User Guide
- 1 Safety instructions

## 4. PRODUCT INFORMATION

(Fig. 1)

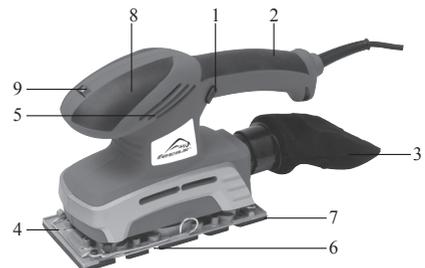


Fig. 1

- 1. On/off button
- 2. Handle (rear)
- 3. Dust bag
- 4. Abrasive paper clip
- 5. Ventilation openings
- 6. Abrasive paper
- 7. Sanding plate
- 8. Handle (front)
- 9. Adjuster wheel



## 5. SAFETY INSTRUCTIONS

### Symbol key



Read the instructions carefully



Conforms to applicable safety standards in European Directives



Machine class II – double insulated, earthed plug not needed.



Indicates that there is a risk of personal injury, death or risk of damage to the machine if the instructions in this User Guide are not followed.



Indicates a risk of electric shock.



The machine's stroke rate can be set electronically.



Remove the plug from the mains supply immediately if the power cord has been damaged and during machine maintenance.



Use a protective mask against dust



Always wear eye and ear protection



Damaged and/or discarded electrical and electronic equipment must be disposed of in accordance with applicable environmental regulations.

### 5.1 Specific safety instructions

- Contact with or inhalation of dust produced during sanding (e.g., surfaces painted with lead paint, wood and metal) can be harmful to the user and persons in the immediate vicinity. Always wear appropriate protective equipment, such as a facemask, and dust bag when sanding.
- Make sure the power switch is in the “ON” position before the machine is connected to the mains supply.
- Always keep the power cord away from the machine's moving parts.
- When working with the machine, always hold it with both hands and stand firmly.
- Wear eye protection, especially when sanding overhead.

### 5.2 Stop the machine immediately in the event

- Abnormal sparking from the collector brushes and rings is observed.
- The power cord or connectors show any defects such as damaged insulation.
- The power switch does not work as intended.
- Smoke or odour indicates burnt insulation.

### 5.3 Electrical safety

When using electrical tools, always follow local safety regulations that apply in connection with a fire hazard, danger of electric shocks or personal injury. In addition to the instructions below also read the separate safety regulations on the enclosed sheet. Store the instructions carefully!



Always check that the mains voltage corresponds with the data specified on the type plate.



Machine class II – double insulated, earthed plug not needed.

- Replacing cables or plugs  
If the power cord is damaged, it must be replaced with a special power cord available from the manufacturer or the manufacturer's customer service. Discard old cables or plugs immediately after replacing with new ones. It is dangerous to insert a plug with a detached power cord into a wall socket.
- When using extension cables  
Use only an approved extension cable suitable for the machine's output. The conductors must have a minimum diameter of 1.5 mm<sup>2</sup>. If the extension cable is supplied on a reel, unwind this fully.

## 6. ASSEMBLY

### 6.1 Dust collection (Fig. 2)

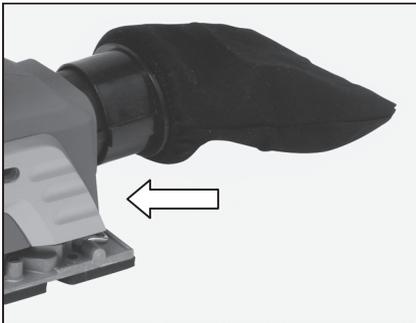


Fig. 2

The surface sander has a dust bag (3) that keeps the workspace clean. The dust bag should be fitted in the opening at the rear of the machine. The dust bag must be emptied regularly in order for the machine to work efficiently.

Empty the dust bag like this:

- Turn the dust bag a little and pull it away from the machine's adapter.
- Empty the dust bag in an appropriate location.
- Push the dust bag on the machine's adapter until it locks in place.



Remember that dust collection only works when perforated abrasive paper is used.

### 6.2 Replace worn abrasive paper



Always unplug the power cord from the mains power before fitting the abrasive paper.

Coarse abrasive paper (grit size 50) generally removes large parts of the material and fine sandpaper (120 grit) is used to finish.

The orbital sander has a rectangular sanding plate. Attaching the abrasive paper properly reduces rapid wear and extends its life:

- Open the rear abrasive paper clip (4).
- Install the abrasive paper under the clip. Place the abrasive paper in the centre of the sanding plate and check the perforations in the paper. These must correspond with the sanding plate so that the dust can be drawn up.
- Push the handle back to its original position.
- Secure the abrasive paper on the front section in the same way.
- Tension the abrasive paper as much as possible.

### 6.3 Replacing the sanding plate



Unplug the orbital sander from the mains supply before replacing the sanding plate.

- Remove the abrasive paper from the sanding plate.
- Remove any screws that secure the sanding plate on the orbital sander.
- Remove the sanding plate.
- Fit a new sanding plate on the orbital sander.
- Tighten the screws properly.

## 7. USE

### 7.1 Use

- Start the machine by pressing the on/off button (1).
- You can regulate the speed by turning the adjuster wheel (9).
- The ventilation openings (5) on the housing must be open so that the motor is cooled optimally.
- Move the orbital sander over the work piece surface.
- Stop the machine by releasing the on/off button.



Do not apply too much pressure while sanding. The machine will not sand faster by pressing on it, however, the machine and the abrasive paper will wear faster.

### 7.2 Handle

The orbital sander has two handles, one at the front and one at the rear.

Always hold the orbital sander's handles with both hands, so that you have as good control over the sanding process as possible. You also avoid the risk of coming into contact with moving parts.

### 7.3 Tip

- Move the orbital sander with long, smooth movements for the best results.
- The quality of the surface after sanding depends on the selected grit size.

## 8. SERVICE & MAINTENANCE



Make sure the machine is not live when performing maintenance work on the machine parts.

Ferax machines have been designed to operate without problems over a long period with a minimum of maintenance. By cleaning the machine regularly and handling it correctly,

you help to ensure your machine has a long service life.

### 8.1 Deficiencies

If the machine does not work, the following troubleshooting chart may be helpful:

• The electric motor gets hot.	• Clean the ventilation openings regularly.
• The dust is not extracted.	• The dust bag is full/ empty the dust bag
• Glue, paint or the like sticks to the abrasive paper.	• The paint or glue has not dried completely. • Some paints stick easier to abrasive paper than others/ clean the abrasive paper regularly.



Always follow the safety instructions and comply with applicable regulations.

### 8.2 Cleaning

Clean the machine casing regularly with a soft cloth, preferably after each use. Make sure the ventilation openings are free from dust and dirt. Use a soft cloth moistened with soapy water to remove stubborn dirt. Never use solvents such as petrol, alcohol, ammonia solution, etc. Such substances will damage the plastic parts.

### 8.3 Lubrication

The tool requires no additional lubrication.

### 8.4 Faults

Contact the service centre listed on the warranty card if a fault occurs, for example, if a part is worn. At the end of this User Guide is an exploded view of the parts that can be ordered.

### 8.5 Operating disturbances

The machine comes in as sturdy packaging as possible to prevent damage during transit. The package has been made from recyclable materials where possible. Therefore, take advantage of this opportunity to recycle the packaging.

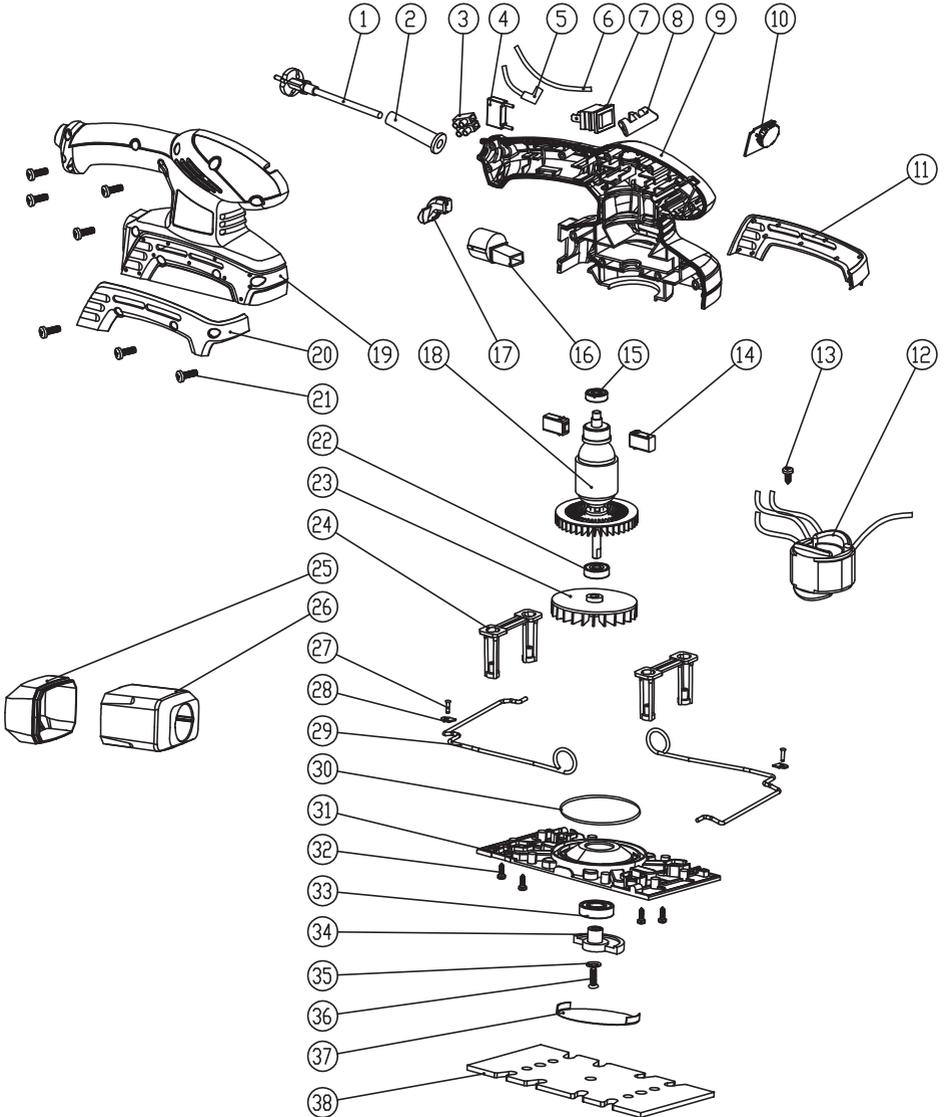


Damaged and/or discarded electrical and electronic equipment must be disposed of in accordance with current environmental regulations.

### 8.6 Warranty

Read the warranty conditions on the separately enclosed warranty card.

# BSG-220 DIAGRAM





## BSG-220 PART LIST

No.	Description	Specification	Qty	No.	Description	Specification	Qty
1	Cable		1	20	Right pinch		1
2	Cable protection sleeve		1	21	Screw	ST4×15	10
3	Terminal		1	22	Bearing	627RS	1
4	Capacitor		1	23	Plastic fan		1
5	Wire		1	24	Bracket		2
6	Wiring plate		1	25	Vacuum box cover		1
7	Switch		1	26	Vacuum box		1
8	Switch lever		1	27	Screw	ST4×8	2
9	Left housing		1	28	Plate		2
10	PCB board		1	29	Sanding paper clamping		2
11	Left pinch		1	30	Dust-proof ring		1
12	Stator		1	31	Aluminum plate		1
13	Screw	ST4×8	1	32	Screw	ST4×16	4
14	Carbon brush		2	33	Bearing	6001RS	1
15	Bearing	607Z	1	34	Eccentric block		1
16	Dust port		1	35	Washer		1
17	Plate		1	36	Screw	M4×12	1
18	Rotor		1	37	Aluminum cover		1
19	Right housing		1	38	Sanding plate		1



**Surface sander**

**BSG-220**

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