



**BS 180 / BS 280**  
**CONCRETE GRINDING MACHINE**  
*Operating Manual*

*Read before use and keep safe*

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## 1.0 Technical Data

Power supply	110V, 15A
Power consumption	1800 Watts
RPM	6000 r.p.m.
Working width	180 mm
Sound pressure level	90 dB(A)
Sound energy level	103 dB(A)
Hand/Arm – vibration	2,8 m/s <sup>2</sup>
Weight	BS 180 is 16 lbs./BS 280 44lbs.
Blade	Diamond Grinding Disc
Comes with:	BS 180/ BS 280 Concrete grinding machine, Diamond Grinding Disc, eye protection, carrying case, operation manual. BS 280 has a handle, wheels and additional weight.

## 2.0 Safety

The concrete grinding machine BS 180/BS 280 has Class 2 protective insulation. It meets the following safety specifications:

DIN VDE 0740, CENELEC HD 400,  
IEC 745, VBG 7J (National Spec)

The machine has radio interference suppression to the standards:  
76/889/EWG, 87/308 EWG  
EN 55014

### 2.1 Safety Instructions

Disconnect the power supply before any maintenance is carried out.

Use only recommended blades and ensure it is fastened before starting.

Only qualified personnel should undertake maintenance.

Use only genuine *SINCLAIR* parts.

### **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/or eyes and increase the risk of an accident.

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

### **3.0 Introduction**

This operating manual should be used to get the most benefit from your BS 180/BS 280 concrete grinding machine. Following these instructions will both extend the life of your machine and reduce repair costs.

Please ensure that any user of the machine is fully familiar with the operating instructions before allowing work to start.

### **3.1 Danger while working with the machine**

The BS 180/BS 280 concrete grinding machine 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 need to be eliminated at once.

### **3.2 Restriction of use**

A. The BS 180/BS 280 concrete grinding machine is exclusively for grinding sub floors and removing uneven sections in dry environments. It should not be used for any other purpose. *SINCLAIR* cannot be held responsible for any damage or loss caused by incorrect use. Correct use also includes:

- to take care of all directions from the operating manual and the execution of maintenance and service.

B. The BS 180/BS 280 concrete grinding machine is designed for EDGING ONLY and is not intended for constant floor grinding. Excessive use of the machine could result in electrical overload and would void the warranty.

### **3.3 Genuine Spare Parts**

Spare parts and accessories are manufactured uniquely for the BS 180/BS 280 concrete grinding machine. It must be emphasized that parts obtained from unauthorized sources must not be used.

*SINCLAIR* cannot be held responsible for the performance of or any damage arising from the use of machines in which genuine spare parts are not used. This is particularly important with replacement blades.

## 4.0 Maintenance

The BS 180/BS 280 concrete grinding machine is virtually maintenance-free. The roller bearings and gearbox need not be lubricated.

The air inlet and outlet should be blown out from time to time to avoid clogging. Failure to do so may result in stress being put on the machine by overheating.

### **!!CAUTION!!**

If the brushes are to be replaced, the motor housing may be opened only by qualified service-personnel. Subsequent mounting of the new brushes require specialist knowledge.

### **Changing the blade:**

NOTE: Always disconnect the power supply before changing the blade!

Unintended starting of the machine may cause injury, e.g. of your hands.

- Press spindle lock (on top of the machine) and turn the blade until it locks
- Loosen tension screw (1) with the fork wrench (note it is a standard clockwise thread).
- Remove blade
- Press spindle lock and fasten the flange.

NOTE: clean the flange and the blade before refitting the new blade. Dirt may cause vibrations and rough running.

Replacement Blades:

- 7" Single Row Diamond Grinding Disc, item # 10-5001
- 7" Double Row Diamond Grinding Disc, item #10-5002
- 7" Astra Diamond Grinding Disc, item #10-5003
- 7" Rigid Carbide Grinding Disc (Med.) item #10-5004
- 7" Rigid Carbide Grinding Disc (Coarse), item #10-5005

## 5.0 Use

Directions for Use:

- Hold and operate the machine always with 2 hands! Never operate with only 1 hand.
- Check the power cord and the plug before starting.
- Have damaged insulation repaired at once, before starting the machine.
- Use faultless blades only! Worn blades give poor results.
- A suitable vacuum cleaner may be connected with the machine.

Press the machine always with 2 hands towards the subfloor. The spring-loaded suction ring limits the pressure of the blade towards the ground and makes suction very efficient.

## 6.0 Troubleshooting

<b>Trouble</b>	<b>Eventual Cause</b>	<b>Elimination</b>
Machine does not start	<ul style="list-style-type: none"><li>- power supply disconnected</li><li>- blown fuse</li><li>- defective cable or plug</li><li>- excessive vibration</li></ul>	Have machine repaired by a qualified electrician, resp. change parts.
Undue force necessary or excessive vibration	Excessive vibration	Change blade



## 7.0

## Handle Assembly

Schematic#	Description	Part#
1	Motor	BS06405
N/A	Brush Set For Motor (Not Pictured)	BS0640583
N/A	Switch for Metabo Motor	BS34340621
6	Washer M4	BS017658
7	Washer M4	BS017452
8	Cap Nut M4	BR014825
9	Round Handle	BS017577
10	Cap Nut M8	BS014825
11	Handle Cover	BS014923
13	Two Hand Control Unit	BS015231
14	Screw M8x40	BS014776
15	Star Grip Screw	D014919
16	Clamping Lever	D014877
17	Head Screw M4x45	BS017733
18	Washer	D014863
19	Socket Head Screw 14x30	BS014746
20	Handle	D014916
21	Washer M8	D014860
22	Screw	BS017060
23	Handle Mount	D015227
24	Outer Tube	D015232
25	Inner Tube	D015226
26	Wing Nut	D014824
29	Cable Clamp	D014940
30	T-Head Bolt	D014768
31	Rubber Sleeves	D014932
32	T-Piece	D015434
33	Weight	D017822
34	Transport Wheel	BS017597
35	Support For Wheel	BS017866
36	Star Lock	BS017721
37	Axle	BS017895
38	Washer	BS014830
39	Socket Head Cap Screw M8x60	BS017622

## BS180/280 Head Assembly

Schematic #	Description	Part #
1	Motor (Metabo)	BS06405
N/A	Brush Set For Motor (Not Pictured)	BS0640583
2	Flange	BS017868
3	Connecting Piece	BS015387
5	Cyl. Screw	T014721
6	Circlip	BS017645
7	Cover	BS020746
8	Spring	BS016938
9	Brush Long	BS017397
10	See Catalog For Disc	
12	Handle With Grip Cover	BS047580110
13	Grip Cover Only	BS014923
14	Countersunk Screw	BS014756
15	Bracket	BS015388
16	Safety Washer	D014863
17	Screw	D016139
18	Countersunk Screw	BS393061
19	Straight Pin	BS016873
20	Pressure Spring	BS017557
21	Brush Short	BS017395
	Head Assembly Complete	BS016158

## 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