



SASE SHG 270

SINGLE HEAD 110 VOLT / 20 AMP FLOOR GRINDER
SAFETY AND OPERATION MANUAL



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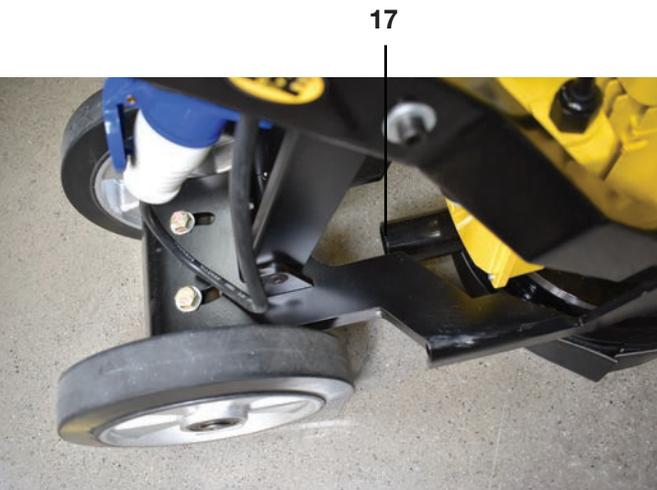
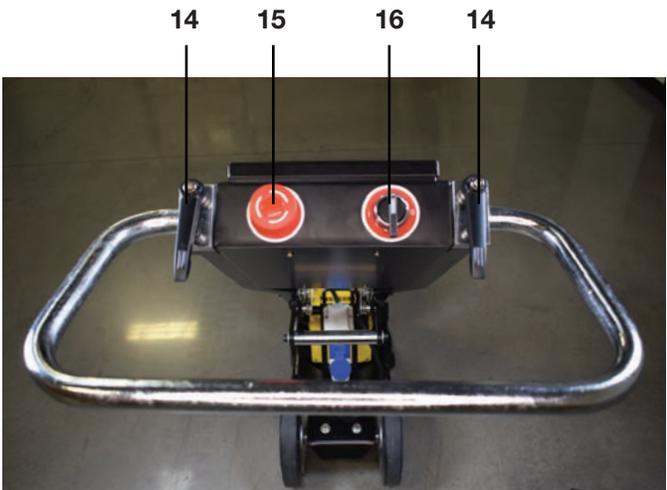
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Parts Diagram



Key	
Handle Bar	1
Electrical Box	2
Connector for Motor Cable	3
Handle for Angle Joint	4
Plug	5
Rubber Wheels	6
Attachment Pin for Motor / Head	7
Compartment for Edge Grinding	8
Lifting Handle on Frame	9
Lifting Handle on Motor	10
Electrical Motor	11
Floating Cover	12
Velcro Shroud	13
Locking Levers for Handle Bar	14
Emergency Stop	15
Stop / Start Switch	16
Vacuum Hose Connection	17



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Specifications

Product Name	SGH 270
Power Output	1.5kw / 2 HP
Voltage	110v
Frequency	60 HZ
Required Circuit	20 amp
Grinding Width	11" (270mm)
Grinding Pressure	90 lbs (41kg)
Machine Weight	155 lbs (70kg)
Additional Weight	N/A
Head Speed	1440 rpm
Number of Heads	1
Diamond Tool Holders	6
L x H x W	27 x 16 x 43 in (710 x 420 x 1100mm)
Dust Extractor Port Size	2" (50mm)



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Safety Instructions

1. Don't use the machine without reading and understanding the contents of this operation manual.
2. Check that the main voltage corresponds with that stated on the rating plate of the machine.
3. Always shut down the machine before disconnecting from the power source.
4. Never drag the machine by means of the cord and never disconnect plug by pulling the cord.
5. Never operate the machine in rain or when heavy moisture is present.
6. Check that the cables are intact and in good condition. Never use the machine if any cable is damaged.
7. Wear personal protective equipment like hearing protection, eye protection, OSHA approved respirator, gloves, and boots. Be careful to not get loose clothing or hair etc. get caught in moving parts.
8. Never leave the machine unsupervised when motor is running.
9. Do not modify machine in any way. Only use genuine SASE parts and accessories.
10. Do not modify safety equipment. Check regularly that they function as they should. The machine must not be run with defective or disassembled safety equipment.
11. Repairs should be only performed by a qualified service technician.
12. Machinery should only be started when grinding heads are set on the ground unless carrying out a testing procedure as outlined in this manual.
13. The machine should not be started without the shroud attached. The shroud works as a good seal between machine and the floor, especially when operating when dry grinding. Do not use a damaged dust shroud.
14. During grinding, the machine must be connected to a dust extractor.
15. When changing diamond tooling, make sure the machine is disconnected from power.
16. Always remove diamond tooling from the grinding head after each grinding operation.
17. The tool plate continues to rotate for a while after the motor has stopped. Maintain grinding action until the fan has completely stopped. Make sure the tool plate has stopped rotating before lifting up the machine.
18. The machine is only used for floor surface.
19. Don't lend or rent machine without the operation manual. The power cord should be never in contact with the grinding head or other moving parts of the machine.

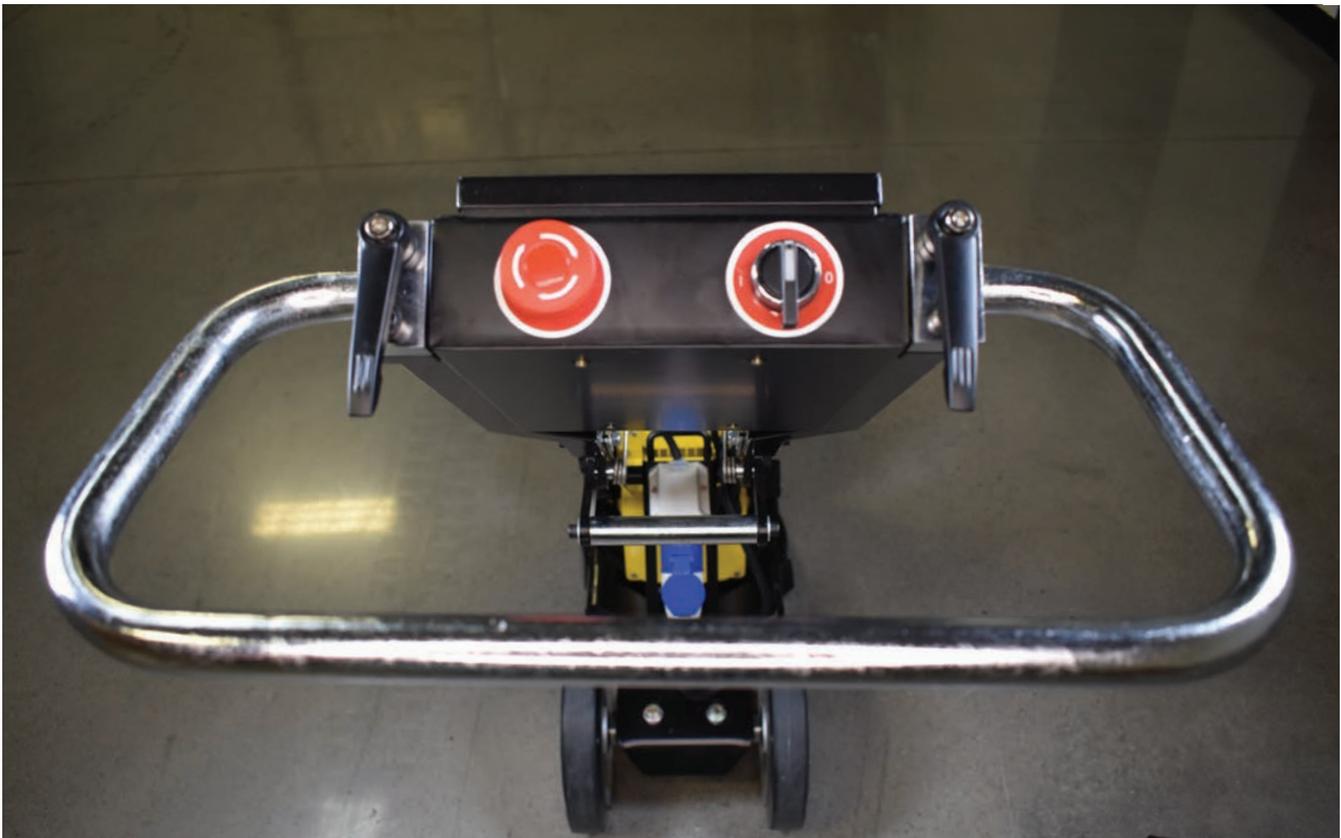
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Operation Instructions - The Electrical Equipment

1. The Start / Stop switch is used to start and stop the machine.
2. Check the emergency stop or machine stop button are not pressed by turning it clockwise.
3. Start the machine by turning 0/1 knob to position '1'(drive). The machine will start smoothly and accelerate the speed within 5 seconds.
4. Turn the 0/1 knob to position '0'(stop) to stop the machine.
5. The emergency stop is used to switch off the motor quickly.
6. When starting the machine, push down the handle, but don't lift the machine from the floor, so in this way, the pressure between grinding disc and floor will be reduced.



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Operation Instructions - Machine Positions

Various machine modes:



Operating Position



Transportation Position



Tilting Position



Changing Diamond Tooling Position



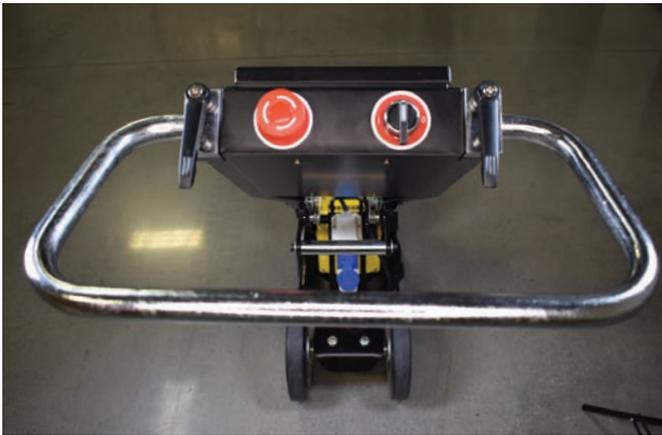
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Operation Instructions - Handlebar Adjustment

1. The handle can be adjusted.
2. Loose the handle lock could adjust the position of handle.
3. When handle position is fixed. tighten the handle lock.



Connect to Dust Extractor

1. Connect the dust extractor to the machine. The hole is 2" (50mm). Pay attention to dust during operation!



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Operation Instructions - Change Diamond Tooling

1. Shut down the power and disconnect the power plug.
2. Pull back the handle to lift the grinding heads off the ground.
3. Lay machine back on the ground.
4. Wear a set of gloves, as the diamond tools get very hot.
5. Use a dead blow hammer or similar tool to remove diamond tools.
6. Attach new diamond tooling on the grinding discs.
7. Once new diamond tools have been attached, reverse the procedure to lower machine to ground.



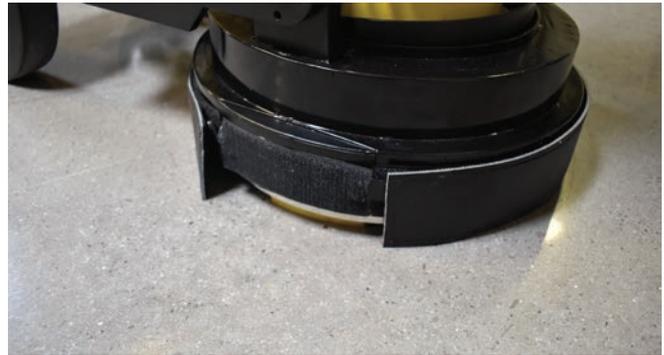
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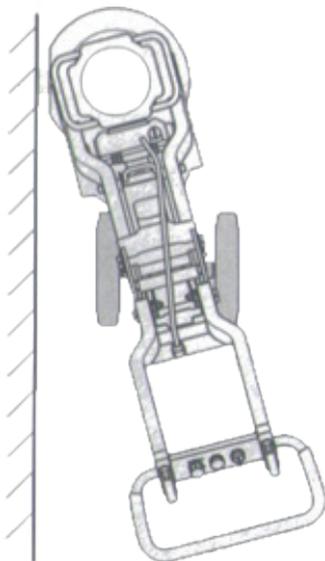


Operation Instructions - Edge Grinding

The machine can be converted into an edge grinder easily by removing the Velcro dust skirt and removing the compartment underneath. There is access on both sides of the grinding head to adjust the machine in either direction.



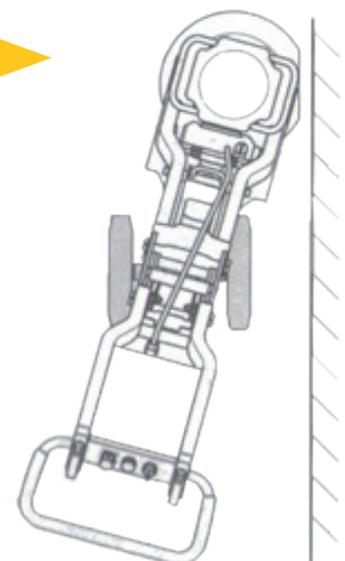
Once head has been converted, loosen the bolts on the rear of the machine. Move the wheels in the desired position and retighten the bolts ensuring they are secure enough to run the machine.



When grinding an edge on the right side, the grinding head must be directed to the right.



When grinding an edge on the left side, the grinding head must be directed to the left.



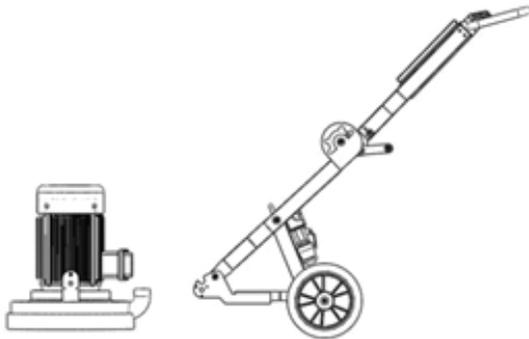
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Transportation

The frame of the machine can fold over for easy transportation. The head and motor can also be detached from the frame by removing the screws above the dust shroud. Using the handles shown, loosen the grinding head and motor away from the frame.



Storage

Secure the machine in a lockable area so that it is out of reach of children or unauthorized persons. The machine should always be stored in a dry place when not in use.

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Troubleshooting

The doesn't run

1. Check the power supply and cables.
2. Check the emergency stop button is not pressed by turning it clockwise.

The machine is hard to hold onto

1. Too few diamonds are under the machine or the wrong type for the floor.

The machine is jumping around

1. Diamond tooling may not be fitted correctly or have different height. Check to ensure all diamonds are fitted correctly and are the same height.

The machine stops after just a while

1. The machine is overloaded and the overload protection has been released. Reduce load.
2. Power cord is too small in capacity and too long. Upgrade the power cord to one that is thicker gauge and shorter in length.

The machine stops during start-up

1. Motor is overloaded. Give the machine one or two minutes to reset and start again. If this does not fix the issue, contact SASE service department @ 1 (800) 522-2606
2. Ensure any power cords are not under stress.

ATTENTION! Motor should be used on proper voltage. Power cords that are too long or too small in capacity will result in reduced power of the motor under load.

Maintenance

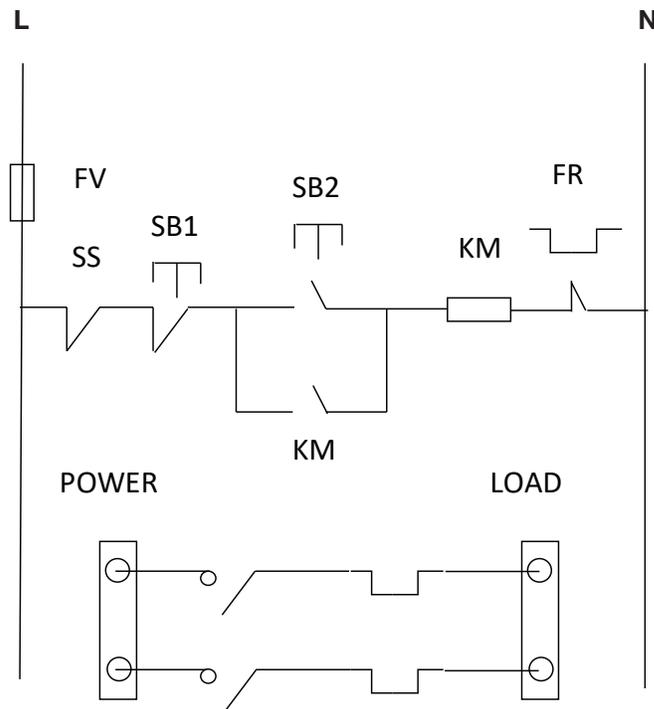
1. Any maintenance should be carried out when the motor is switched off and the plug is disconnected.
2. Use correctly, the machine is extremely low maintenance and extremely reliable.
3. Never use a damage power lead, check it every time before operation.
4. Always clean the machine at the at the end of each work day.
5. Make sure the dust shroud reaches the floor.

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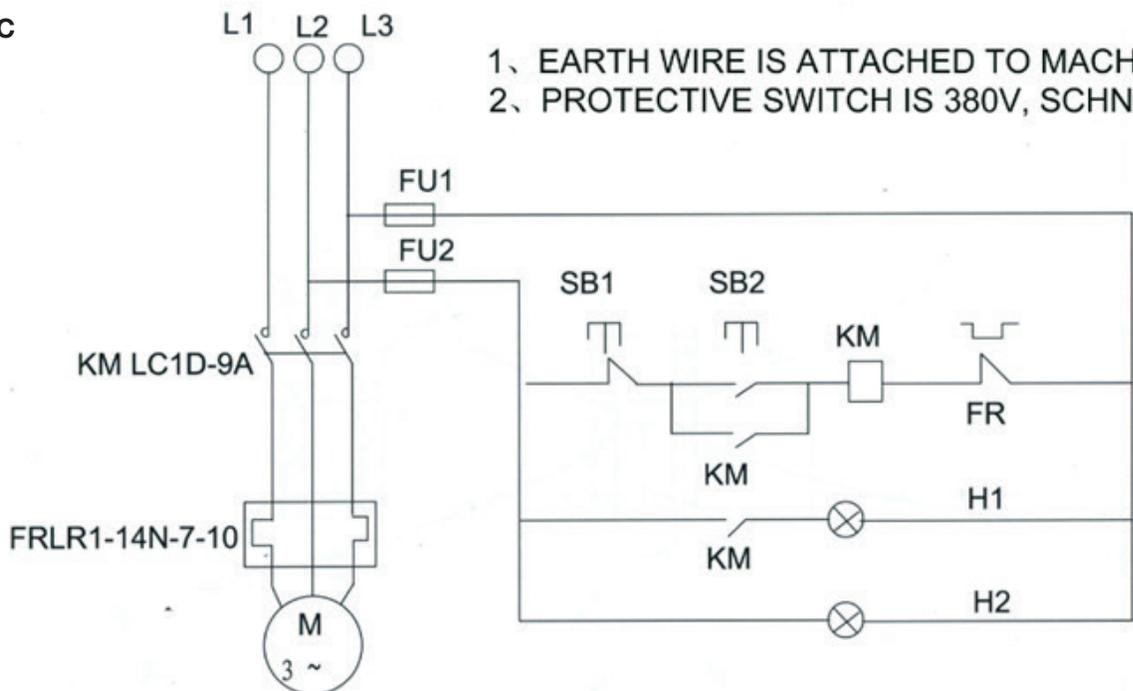
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Wiring Diagram



c



1. EARTH WIRE IS ATTACHED TO MACHINE:
2. PROTECTIVE SWITCH IS 380V, SCHNEIDER:



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