

**surcare**

*adding the finishing touch*

## **SANDER & MICROFINISHER SMF-200-R2**



**BEFORE YOU START OPERATING YOUR MACHINE  
BE SURE TO READ AND UNDERSTAND THE  
INFORMATION ENCLOSED ON THE SAFE AND  
PROPER USE OF THIS MACHINE**

**SAFETY INSTRUCTIONS  
AND  
SPECIFICATIONS**

## **STOP NOW! IMPORTANT! READ THIS:**

Please note this machine has been designed to finish **horizontal surfaces only**.

This machine works on a counterweight moving from one side to the other in all directions.

When using this machine it is important that the surface you are about to finish is secure. **Please ensure the table/stand/boxes/trestles etc that support your work are level and stable.**

If your table/stands/boxes/trestles etc are not secure then this puts great strain on the bearing. Failure to secure surfaces being finished will significantly reduce the life of your main bearing.

## **BEFORE STARTING THE MACHINE BE SURE:**

1. The surface to be finished is firmly secure.
2. The machine is in a central position so that the machine is not hanging over the edge of the surface you are about to finish.
3. Vacuum is attached to vacuum port. As well as removing debris, the vacuum system also assists in keeping the work surface cool.
4. Hold the handle of the machine firmly and switch the machine on.
5. Ensure power switch is off before removing machine from the work surface. Do not lift the Surcare SMF-200 off the work surface until the machine has come to a complete standstill.

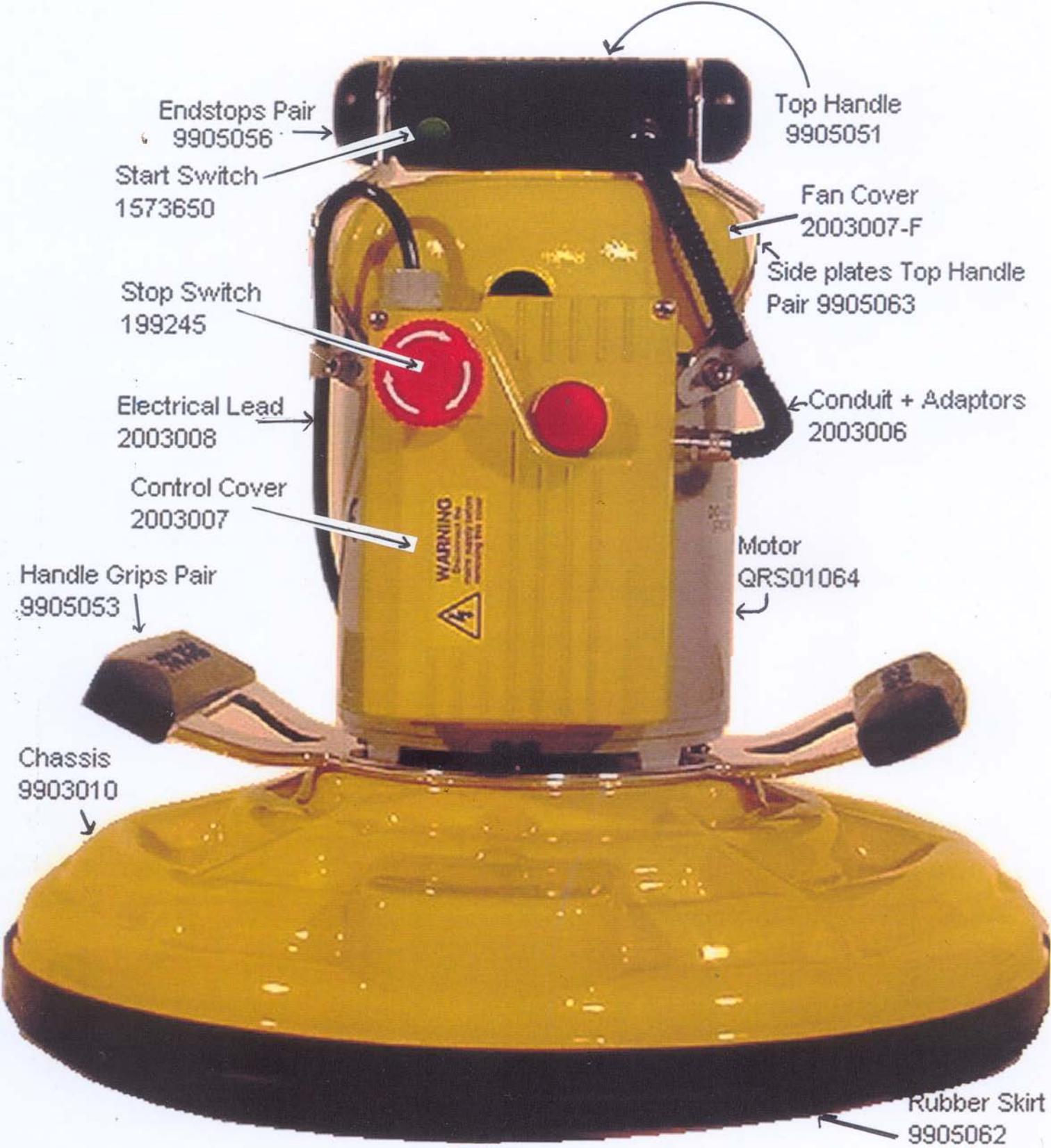
**Surcare recommends that you run your SMF-200 for ½ hour to 1 hour (on for example MDF board) utilising 320 grit before commencing use on work surface to be finished, remembering always to have vacuum connected. This process assists the user to get used to operating the machine, helps run the machine in and loosens up the bearing.**

## **PLEASE NOTE:**

This machine has moving parts that wear. Relative parts such as bearings, worn cords & sockets should be checked and replaced as needed.

These checks should be done as a matter of safety as well as a matter of obtaining maximum performance and long machine life.

It is recommended that a scheduled service be put in place (if not already) for the SMF-200.



Endstops Pair  
9905056

Start Switch  
1573650

Stop Switch  
199245

Electrical Lead  
2003008

Control Cover  
2003007

Handle Grips Pair  
9905053

Chassis  
9903010

Top Handle  
9905051

Fan Cover  
2003007-F

Side plates Top Handle  
Pair 9905063

Conduit + Adaptors  
2003006

Motor  
QRS01064

Rubber Skirt  
9905062

WARNING  
Do not touch the  
power supply surface  
during the run

# **SURCARE SMF-200 SPECIFICATIONS**

**DISC SIZE:** 4 x 6" (4 x 150mm)  
(15" OVERALL)

**VOLTAGE:** 240V

**HORSEPOWER:** ¾

**HEIGHT:** 420mm

**ORBITS PER MINUTE:** 1450

**ORBIT STROKE SIZE:** 19mm

**CENTRAL VAC READY**

**WEIGHT:** 20 KGS

This machine has been designed for sanding and microfinishing and will give a consistent surface finish.

The SMF-200 may be used on almost any horizontal surface, providing the appropriate abrasive discs are used for the particular surface to be sanded or micro-finished. The type of material being sanded and the finish required will determine which abrasive to be used on the surface.

Be sure to have the appropriate abrasive discs attached and align pads in the correct manner. Please discuss the abrasive requirements needed to sand and micro-finish that particular surface with your supplier.

If you have any other surface queries contact  
**SURCARE AUSTRALIA.**

Be sure to check all sanding accessories are properly adhered to the surface they were designed to adhere to. When releasing discs from velcro mounts be careful not to pull on the velcro mounts as this will cause dust to enter between the foam pad and the mounts and deteriorate contact.

For gloss finishes on solid surfaces you will need to use a microfinishing process.

The SMF-200 has been designed with a very efficient dust extraction system. This dust extraction system enables material that has been removed by the SMF-200 from the surface being worked to be collected safely and disposed of appropriately. The vacuum system also assists in keeping the work surface cool.

Vacuum system attachment for dust extraction should preferably be 1000 watts or more and the vacuum hose must have an inside diameter no less than the outside diameter of the vacuum port (approx 38mm to 40mm) (1" 9/16).

# PLEASE TAKE THE TIME TO READ THIS PAPER BEFORE STARTING YOUR MACHINE

Remove the SMF-200 from its box and stand in an upright position. Check to see that there has been no damage to the SMF-200 in transit. If there is damage to the SMF-200, contact supplier for replacement. **Do not use machine that is damaged in any way.**

Roll machine over onto its side. **(FIGURE 1) Do not roll machine onto its front or back.** The SMF-200 is designed to rest on the side butterfly handles and the end stops on the top handle either to the right or to the left.

**(FIG 1)**

Remove the Styrene disc from the drive plate and replace it with a sanding accessory pad (Nieva) or a microfinishing accessory pad (Eneva). Apply the required grit size to the accessory pad.



**IMPORTANT** – **Do not store machine resting on accessory pads.** Either store with the styrene disc or rest the machine on its side. Also remove accessory pads from SMF-200 when transporting.

Your SMF-200 is fitted with a solid state relay switching device. This in effect means you can plug the lead into the power outlet regardless of what position the switches are in and the machine will not start. If at any time during operation of the SMF-200, there is an interruption to the power supply to the machine, the SMF-200 will shut down and will have to be manually restarted. (GREEN START BUTTON) - this avoids many obvious accidents or damage.

**Do not use SMF-200 without vacuum.** The SMF-200 is fitted with a very effective vacuum system which also assists in keeping the work surface cool. However, the vacuum machine used must also be efficient and the vacuum hose must have an inside diameter no less than the outside diameter of the vacuum port (approx 38mm-40mm) (1" <sup>9</sup>/<sub>16</sub>) **(SEE FIGURE 1)**

Starting the SMF-200 is shown here in **(FIGURE 2)**—holding the SMF-200 securely with both hands, press on the green start button located on the top handle. When machine has started, the left hand can then hold the vacuum hose and power cord **(FIGURE 3).**

**Do not run machine holding both butterfly handles** – these are for lifting the machine and will not control the machine.

**FIG 2**



**FIG 3**



# QUICK GRIT CHANGE SYSTEM

The **SMF-200** has a Quick Grit Change System (patent pending), which allows the operator to change 4 abrasive pads simultaneously. This can be achieved in one of two ways:

1. Removing the 4 abrasive discs from the pad and replacing with another 4 discs of a different grade grit onto the same clover shaped disc pad.
2. Removing the clover shaped disc pad that contains the 4 abrasive discs and replacing it with another clover shaped disc pad with the 4 abrasive discs of a different grade grit.

The **SMF-200** is abrasive friendly and can take a variety of brands of abrasive discs, which can be purchased through your local suppliers or **Surcare Australia**.

The Quick Grit Change System operates on a Hook and Loop System. If the user requires abrasives that do not operate on a Hook and Loop System, interface pads can be utilised between the pad and the abrasive disc. Interface pads can be purchased from abrasive suppliers.

**Figure 1** shows the **Tetrad** resting on its side, ready for the clover shaped accessory pad to be removed and replaced with another. Note that the machine rests on the rubber handle grip and the rubber grommets around the fan cowl. Resting the **Tetrad** on its side in this way protects the capacitor box and start and stop switches.

**Figures 2 and 3** show removing the clover shaped accessory pad from the mounting plate.

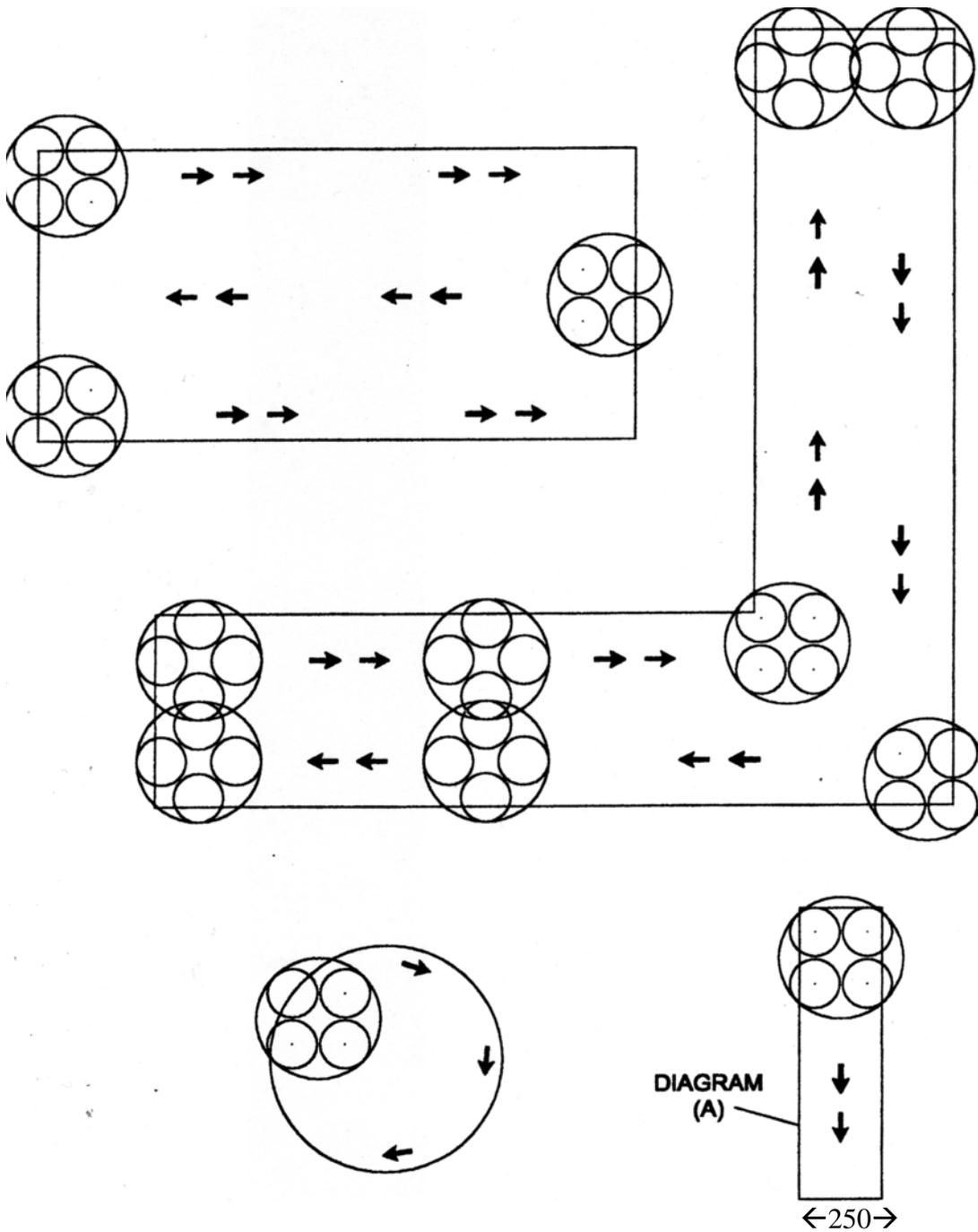
**Figure 4** shows the mounting pad with accessory pad completely removed.

**Figure 5** shows replacing one accessory pad with another.

**NOTE: All Surcare machines feature Quick Grit Change System however diagrams shown portray Surcare SMF-TETRAD machine. Principle of the Quick Grit Change System is same for all machines**



# OPERATIONAL DIRECTIONAL DIAGRAM



SUGGESTED DIRECTIONAL METHOD OF USING THE SURCARE SMF-200 ON THE HORIZONTAL SURFACE BEING FINISHED. PLEASE NOTE SUGGESTED MINIMUM WIDTH OF SURFACE MATERIAL (DIAGRAM A).

# OPERATIONAL SAFETY PROCEDURES

1. Keep operational area clean and free of unnecessary clutter.
2. Be sure the work environment around you is well-lit and free from materials that are combustible, such as paint thinners, lacquer thinners, adhesive solvents, petrol fumes, gas, and other materials which are or may be combustible. This is an electrical unit and like any other electrical power tool may produce electrical sparks when **on/off switch** is used, and during operation. These sparks have the potential to ignite flammable agents which could cause injury to operator, others around the operator and the immediate surroundings.
3. Prevent electric shock by ensuring no body contact with grounded surfaces.
4. Keep hands and motor dry.
5. Keep out of reach of children please.
6. Wear appropriate attire. Loose clothing, long hair or jewellery may get caught in the machine causing bodily injury.
7. Wear appropriate safety gear, such as eye, ear and respiratory protection.
8. Provide adequate ventilation and dust extraction.
9. Before turning on your machine make sure the surface you are about to sand and/or finish is clear of anything that could cause a bodily injury or damage the underparts of the machine. (For example - protruding nails and/or screws and/or splinters of material are able to cause both bodily injury and machine damage).
10. The surface to be finished should be flat, firmly secure and ready for sanding.
11. Never mistreat the electrical cord by exposing it to heat, sharp edges, oil, corrosive material, or any other potential hazard likely to damage the electrical insulations and so render it unsafe.
12. Never yank the electrical plug from the electrical power outlet nor try to carry the machine by the electrical cord.
13. Don't move the machine to another location without ensuring that the switch is in the **off** position. Make sure switch is off before plugging into electrical outlet.
14. When machine is used outdoors, use only extension cords intended for use outdoors and so marked.
15. Maintain machine with care. Keep machine in good condition and clean for better performance and longer life. Inspect machine periodically and if damaged have it repaired by an authorised service facility. Inspect extension cords periodically and replace if damaged. Keep handles dry, clean and free from oil and grease.

# OPERATIONAL SAFETY PROCEDURES CONTINUED

16. Store machine sensibly. When machine not in use store in a dry secure place out of reach of children.
17. Don't use machine for purpose not intended, use only for applications specified in the handling instructions.
18. Use the machine at the rate intended for the job. This way you will achieve a safer and better finish and a longer life of your investment.
19. Disconnect machine when not in use, before servicing and when changing accessories.
20. Remove adjusting keys and wrenches from machine before turning it on.
21. Don't overreach. Move around work surface if need be, keeping secure footing and balance at all times.
22. When lifting machine ensure it is carried by the two butterfly winged handles at sides. Do not attempt to carry machine by overhead operating handle.
23. Check damaged parts. Before further use of the machine, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting and any other conditions that may affect the machines operation. A guard or other part that is damaged should be properly repaired or replaced by an authorised service centre unless otherwise indicated elsewhere in this instruction manual. Have defective switches replaced by an authorised service centre. Do not use machine if switch does not turn it on and off.
24. Do not wipe parts with solvent as this may damage and crack parts. To clean machine blow down with air stream and fine cleaning brush.
25. Only use authorised service facilities to repair your machine. The manufacturer will not be responsible for any damages or injuries caused by repair by unauthorised persons or by mishandling of the machine.
26. Use only original **Surcare** replacement parts, accessories and attachments to ensure they have been tested for performance and safety.
27. Do not touch movable parts or accessories unless machine has been disconnected from power source.
28. Stay alert. Do not use this machine when tired. Use common sense.
29. In the event of a power failure whilst using the machine turn switch to off position immediately. Do not walk away from machine without ensuring the machine is turned off. Keep machine switched off until power is resumed.



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Please contact us if you have any questions or comments.

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