INSTRUCTIONS FOR:

1/4" VARIABLE SPEED ROUTER

MODEL No: **SR1000**

Thank you for purchasing a Sealey router. Manufactured to a high standard this product will, if used according to these instructions and properly maintained, give you years of trouble free performance.

IMPORTANT: **PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS AND CAUTIONS. USE THIS PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. PLEASE KEEP INSTRUCTIONS SAFE FOR FUTURE USE.**

1. SAFETY INSTRUCTIONS

1.1. Electrical Safety

❒ **WARNING!** It is the responsibility of the owner and the operator to read, understand and comply with the following:
You must check all electrical products, before use, to ensure that they are safe. You must inspect power cables, plugs, sockets and any other connectors for wear or damage. You must ensure that the risk of electric shock is minimised by the installation of appropriate safety devices. A Residual Current Circuit Breaker (RCCB) should be incorporated in the main distribution board. We also recommend that a Residual Current Device (RCD) is used. It is particularly important to use an RCD with portable products that are plugged into a supply which is not protected by an RCCB. If in any doubt consult a qualified electrician. You may obtain a Residual Current Device by contacting your Sealey dealer.
You must also read and understand the following instructions concerning electrical safety.

1.1.1. The **Electricity at Work Act 1989** requires that all portable electrical appliances, if used on business premises, are tested by a qualified electrician, using a Portable Appliance Tester (PAT), at least once a year.

1.1.2. The **Health & Safety at Work Act 1974** makes owners of electrical appliances responsible for the safe condition of those appliances and the safety of the appliance operators. **If in any doubt about electrical safety, contact a qualified electrician.**

1.1.3. Ensure that the insulation on all cables and on the appliance is safe before connecting it to the power supply. See 1.1.1. and 1.1.2. and use a Portable Appliance Tester.

1.1.4. Ensure that cables are always protected against short circuit and overload.

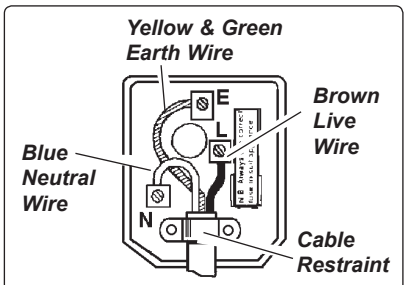
1.1.5. Regularly inspect power supply cables and plugs for wear or damage and check all connections to ensure that none is loose.

1.1.6. **Important:** Ensure that the voltage marked on the appliance matches the power supply to be used and that the plug is fitted with the correct fuse - see fuse rating at right.

1.1.7. **DO NOT** pull or carry the appliance by the power cable.

1.1.8. **DO NOT** pull the plug from the socket by the cable.

1.1.9. **DO NOT** use worn or damaged cables, plugs or connectors. Immediately have any faulty item repaired or replaced by a qualified electrician. When a BS 1363/A UK 3 pin plug is damaged, cut the cable just above the plug and **dispose of the plug safely.**
Fit a new plug according to the following instructions (UK only).
a) Connect the GREEN/YELLOW earth wire to the earth terminal 'E'.
b) Connect the BROWN live wire to the live terminal 'L'.
c) Connect the BLUE neutral wire to the neutral terminal 'N'.
d) After wiring, check that there are no bare wires, that all wires have been correctly connected, that the cable outer insulation extends beyond the cable restraint and that the restraint is tight.
Double insulated products, which are always marked with this symbol ⧈, are fitted with live (brown) and neutral (blue) wires only. To rewire, connect the wires as indicated above - **DO NOT** connect either wire to the earth terminal.



FUSE RATING 13 AMP

1.1.10. Products which require more than 13 amps are supplied without a plug. In this case you must contact a qualified electrician to ensure that a suitably rated supply is available. We recommend that you discuss the installation of an industrial round pin plug and socket with your electrician.

1.1.11. If an extension reel is used it should be fully unwound before connection. A reel with an RCD fitted is preferred since any appliance plugged into it will be protected. The cable core section is important and should be at least 1.5mm², but to be absolutely sure that the capacity of the reel is suitable for this product and for others which may be used in the other output sockets, we recommend the use of 2.5mm² section cable.

1.2. General Safety

❒ **WARNING!** Disconnect the router from the mains power before changing accessories, servicing or performing any maintenance.
✓ Locate the router in a suitable work area. Keep the area clean and tidy and free from unrelated materials and ensure that there is adequate lighting.
✓ Maintain the router in good condition (use an authorised service agent).
✓ Replace or repair damaged parts. *Use genuine parts only. Unauthorised parts may be dangerous and will invalidate the warranty.*
✓ Keep the router clean for best and safest performance and check moving parts alignment regularly.
✓ Keep router tool bits clean and sharp and ensure bit in use is secured correctly in the chuck. If worn or damaged replace immediately.
✓ Remove adjusting keys and wrenches from the router and its vicinity before turning it on.
✓ Wear approved eye safety protection.
✓ Handle loose tool bits with gloves or cloth as they are very sharp, but **DO** remove gloves and/or cloth before operating the router. Keep your hands and fingers away from the tool bit when operating.
✓ Remove ill fitting clothing. Remove ties, watches, rings and other loose jewellery and contain long hair.
✓ Maintain correct balance and footing. Ensure that the floor is not slippery and wear non-slip shoes.
✓ Secure workpiece by resting against the back stop and top holding clamp.
✓ Ensure that there are no foreign objects in the workpiece i.e. nails or screws.
✓ Use the depth stop for accuracy and to avoid drilling into the work table.
✓ Avoid unintentional starting.
✗ **DO NOT** start the router with the tool bit resting against the workpiece. Always bring the operating bit to the workpiece.
✗ **DO NOT** use the router for a task it is not designed to perform.
✗ **DO NOT** allow untrained persons to operate the router and keep children and unauthorised persons away from the work area.
✗ **DO NOT** get the router wet or use in damp or wet locations or areas where there is condensation.
✗ **DO NOT** use router where there are flammable liquids, solids or gases such as paint solvents, waste wiping or cleaning rags etc.
✗ **DO NOT** operate the router if any parts are damaged or missing as this may cause failure and/or personal injury.
✗ **DO NOT** leave the router operating unattended.
✗ **DO NOT** operate the router when you are tired or under the influence of alcohol, drugs or intoxicating medication.
✓ When not in use switch off the router and remove plug from the power supply.

2. INTRODUCTION & SPECIFICATION

Powerful 1000 watt motor delivers a variable speed of 10,000 to 30,000rpm. Supplied with full accessories, including collets, copy follower, parallel guide and vacuum dust tube. Fitted with 3mtr cable and BS approved non-rewirable plug.

Power 1000W	Collets. . . . . 6mm, 8mm & 1/4”
Power Supply . . . . . 230V - 4.3A	Plunge Depth 44mm
No-Load Speed Range. . 10,000-30,000rpm	Weight 3.2kg

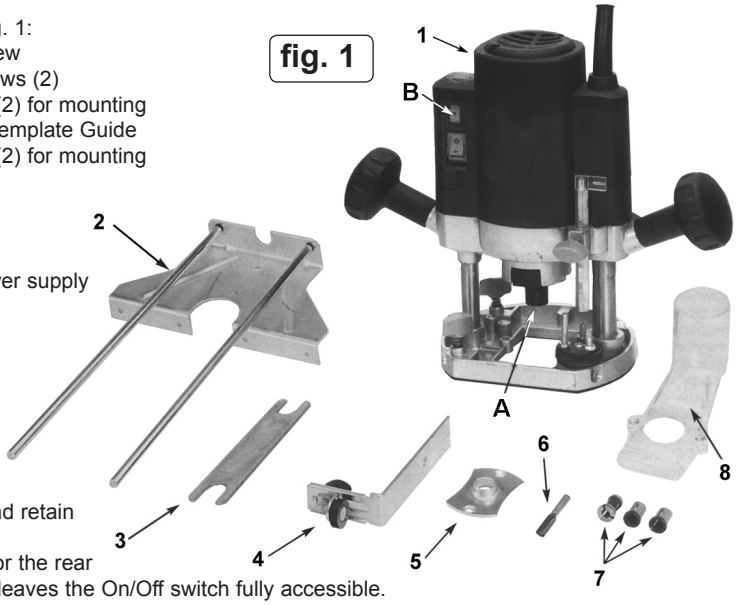
3. CONTENTS & ASSEMBLY

3.1. CONTENTS

Unpack the router and check contents against fig. 1 and the list. If there are any damaged or missing parts contact your supplier immediately.

1. Router
2. Fence
3. Spanner
4. Circular Guide
5. Template Guide
6. Router Bit
7. Collets (3)
8. Extraction Duct

Items not shown in fig. 1:
Centre Point and Screw
Base Fence and Screws (2)
Screws (2) and Nuts (2) for mounting Extraction Duct and Template Guide
Screws (2) and Nuts (2) for mounting Circular Guide



3.2. ASSEMBLY

❒ **WARNING! DO NOT** plug the router into the mains power supply until it is ready to be used.

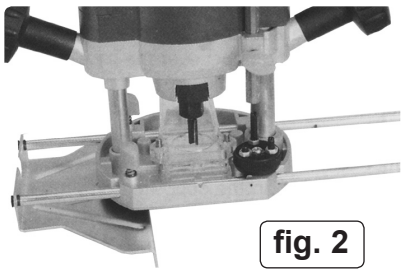
3.2.1. Fence

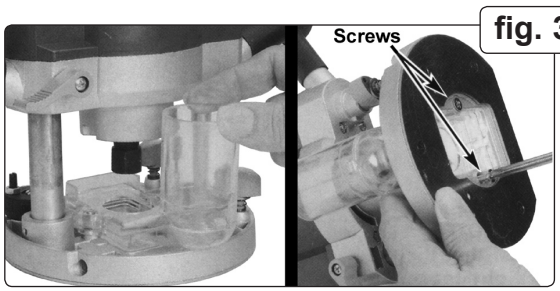
1. Fit the two rods to the fence plate using the screws and washers supplied.
2. Mount the fence on the router by sliding the rods through the holes in the base and retain by tightening the locking knobs. See fig. 2.

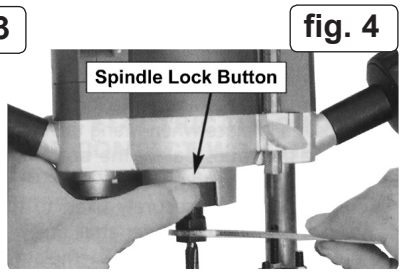
3.2.2. Dust Extraction Duct

1. Fit the duct to the upper side of the router base plate and retain with the two screws and nuts supplied. See fig. 3.

Note: The duct can be fitted with the outlet either to the front or the rear of the router. Positioned to the rear is preferred since it leaves the On/Off switch fully accessible.







4. SET-UP

4.1. Router Bits

❒ **WARNING! ROUTER BITS MUST BE CAPABLE OF AT LEAST 30,000RPM.**

4.1.1. Ensure that the collet matches the router to be used. To change collets, remove the collet nut (fig. 1.A) from the router shaft, replace any existing collet with the required collet and refit the nut.

4.1.2. Insert the router bit shaft into the collet, ensuring engagement of at least two diameters, and finger tighten the collet nut to hold the bit in place.

4.1.3. Press and hold in the spindle lock button while tightening the collet nut with the spanner provided. See fig. 4.

Note: DO NOT tighten the collet nut if there is no bit in place as this will damage the collet.

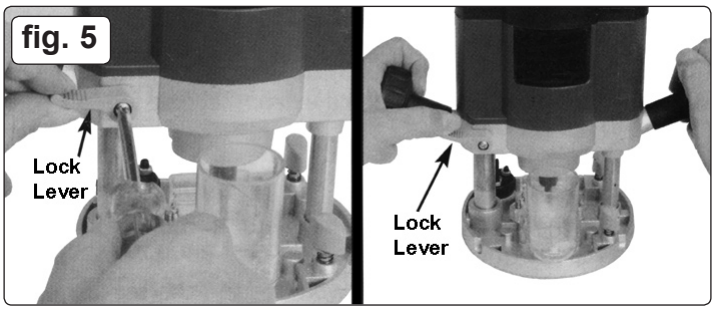
4.1.4. Remove the spanner and then run the router for a few moments to check for vibration or bit wobble which would indicate a damaged or incorrectly fitted bit.

4.1.5. Disconnect from the power supply.

❒ **WARNING! ROUTER BITS ARE EXTREMELY SHARP - TAKE CARE DURING FITTING/REMOVAL, WHEN CHECKING AS IN 4.1.4. ABOVE AND WHEN IN USE.**

4.2. Lock Lever

4.2.1. The lock lever locks the router body at any given height and its position is adjustable to suit the user. To reposition the lever remove the retaining screw, pull the lever off the shaft, replace it at the desired angle and retain with the screw. See fig. 5.



4.3. Setting Cut Depth

4.3.1. Stand the router on a flat surface and, with the router bit in place, slacken the depth stop wing screw (fig. 6) and the lock lever (fig. 5).

4.3.2. Press the router down until the end of the bit just touches the surface and tighten the lock lever.

4.3.3. Raise the depth stop and lift and rotate the depth stop block to a suitable position.

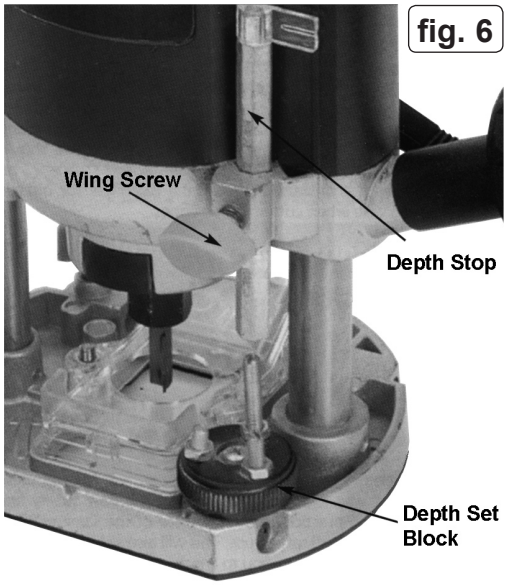
4.3.4. Allow the depth stop to rest on the threaded stud of the depth stop block and read the scale.

4.3.5. Add the required cut depth (in mm) to the reading and raise the depth stop to this point on the scale. Lock the depth stop with the wing screw. Release the lock lever.

4.3.6. Having set the dept of cut, **check the setting** on a piece of scrap timber before cutting the workpiece.

Notes: a) When routing, as soon as the bit has cut into the workpiece to the full cut depth the lock lever (fig. 5) must be firmly locked. If this is not done the depth of cut may well change as the router bit is moved through the workpiece.

b) If making a deep cut, it is advisable to make a number of passes at progressively deeper settings in order to prevent motor overload, excessive strain on the bit and a poor quality cut. This is best achieved using the depth set block. Set the final cut depth as above with the depth stop resting on the **lowest** stud on the block. Then the first pass is made with the **highest** stud under the stop, the second pass with the middle stud under the stop and the final pass with the lowest stud under the stop. Note that the studs are height adjustable, so equal cut increments can be achieved.



4.4. Speed Control

The speed control (fig. 1.B) can be used to adjust the rotational speed of the bit to suit the bit size and the type of timber or board to be cut.

DO NOT run the router at low speed for extended periods without occasionally running it at full speed (without load) to cool the motor.

5. USING THE ROUTER

❒ **WARNING! Ensure that you read, understand and apply the safety instructions in Section 1 before using the router.**

5.1. Routing

Before routing the workpiece always do a test cut on a waste piece of similar material to check depth of cut, bit rotational speed and router speed. Adjust as necessary to achieve a satisfactory cut and then proceed to the workpiece.

5.1.1. Always ensure that the workpiece is secure.

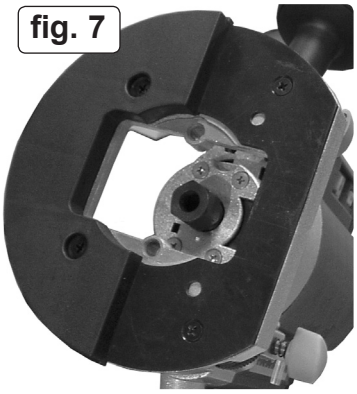
5.1.2. With the bit fitted and depth of cut set (see Section 4), position the router on the workpiece over the start point of the cut.

5.1.3. Plug in and start the router and allow it to run up to speed.

5.1.4. Plunge the bit down into the workpiece to the set depth and then tighten the lock lever (see Section 4) so that the depth setting will not alter.

5.1.5. Hold the router firmly with both hands and move it steadily along the cut path.

5.1.6. When the cut is finished, switch off the router and then release the lock lever and allow the bit to rise, under control, out of the workpiece.



Notes: a) The router bit revolves in a clockwise direction (when viewed from above) and so the router itself has a tendency to rotate anticlockwise when in use. Therefore it must be held firmly at all times.
The bit rotation is used to clear the blades of waste material and for this to work efficiently the router should be moved from left to right, as you face the workpiece. When cutting edges, move the router anticlockwise for outside edges and clockwise for inside edges.

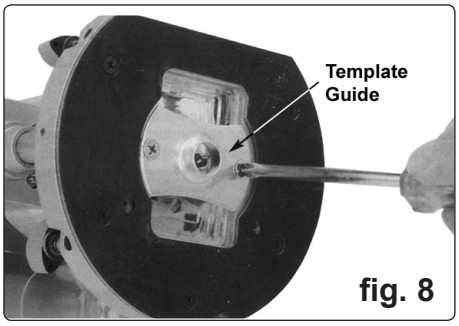
b) The rate at which the router is advanced has a significant effect on the quality of the cut and the life of the router and bit.
Moving the router too fast overloads the router and the bit and will also produce a rough, uneven cut.
Moving the router too slowly will burn the workpiece and overheat the bit.

5.2. Guides

5.2.1. Straight cuts can be achieved using the fence (see 3.2.1.) if the workpiece has a suitable straight edge to follow.
If there is no suitable edge then a straight edge (a length of timber, or similar) can be clamped to the workpiece for the flat section of the router base to follow.

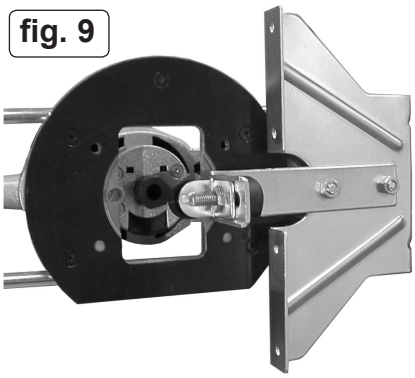
5.2.2. Straight edges can be routed using the edge guide which is attached to the base with the screws provided. See fig. 7.

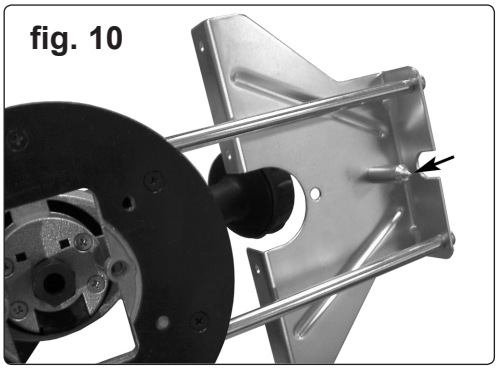
5.2.3. Curves can be cut accurately using the template guide which is attached to the base using the dust extraction duct screws, see fig. 8.
The template must be cut from material of at least 5mm thickness so that the guide does not contact the workpiece. Note that, when cutting the template, allowance must be made for the distance between the cutting edge of the bit and the outside edge of the guide.



5.2.4. Curved edges can be routed using the circular guide attached to the fence, as shown in fig. 9. The guide wheel rim should align with the bit centre line.

5.2.5. Circles or arcs of circles can be routed using the centre point attached to the fence as shown in fig. 10. Note that the fence is inverted in this application. The centre point can be located at the centre of the required circle and the router rotated about it.



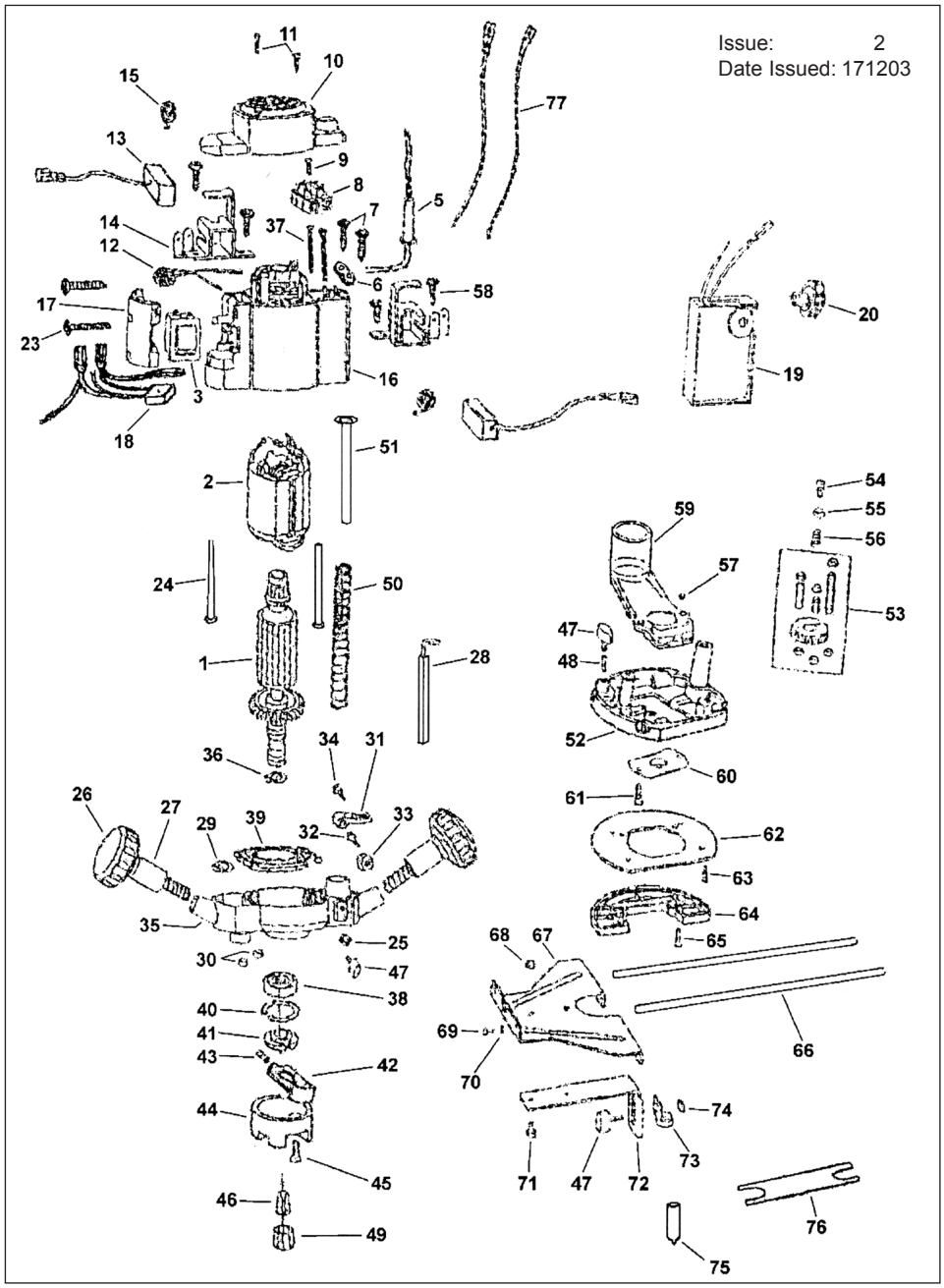


PARTS LIST FOR:

1/4” VARIABLE SPEED ROUTER

MODEL No: **SR1000**

ITEM	PART NO.	DESCRIPTION
1	SR1000/01	Armature
2	SR1000/02	Field
3	SR1000/03	Switch
5	SR1000/05	Cord Protector
6	SR1000/06	Cord Clamp
7	SR1000/07	Self-tapping Screw
8	SR1000/08	Connection Pole
9	SR1000/09	Self-tapping Screw
10	SR1000/10	Rear Housing
11	SR1000/11	Self-tapping Screw
12	SR1000/12	Inductor
13	SR1000/13	Brush
14	SR1000/14	Brush Holder
15	SR1000/15	Brush Spring
16	SR1000/16	Motor Housing
17	SR1000/17	Flank Cover
18	SR1000/18	Capacitor
19	SR1000/19	Speed Control
20	SR1000/20	Knob
23	SR1000/23	Self-tapping Screw
24	SR1000/24	Self-tapping Screw
25	SR1000/25	Nut
26	SR1000/26	Handle
27	SR1000/27	Sleeve
28	SR1000/28	Depth Stop
29	SR1000/29	Ring
30	SR1000/30	Nut
31	SR1000/31	Lever
32	SR1000/32	Screw
33	SR1000/33	Nut
34	SR1000/34	Screw
35	SR1000/35	Lower Bracket Asm.
36	SR1000/36	Ring
37	SR1000/37	Screw
38	SR1000/38	Bearing
39	SR1000/39	Baffle
40	SR1000/40	Ring
41	SR1000/41	Nut
42	SR1000/42	Spindle Lock Button
43	SR1000/43	Spring
44	SR1000/44	Cover
45	SR1000/45	Screw
46	SR1000/46-1	Collet, 6mm
46	SR1000/46-2	Collet, 8mm
46	SR1000/46-3	Collet, 1/4”
47	SR1000/47	Knob
48	SR1000/48	Spring
49	SR1000/49	Nut
50	SR1000/50	Spring
51	SR1000/51	Spring Core
52	SR1000/52	Base
53	SR1000/53	Adjustor, Depth
54	SR1000/54	Screw
55	SR1000/55	Washer
56	SR1000/56	Spring
57	SR1000/57	Nut
58	SR1000/58	Self-tapping Screw
59	SR1000/59	Dust Extractor
60	SR1000/60	Guide Bush
61	SR1000/61	Screw
62	SR1000/62	Plate
63	SR1000/63	Screw
64	SR1000/64	Base
65	SR1000/65	Screw
66	SR1000/66	Guide Rod



ITEM	PART NO.	DESCRIPTION
67	SR1000/67	Guide Fence
68	SR1000/68	Nut
69	SR1000/69	Screw
70	SR1000/70	Washer
71	SR1000/71	Screw
72	SR1000/72	Guide Support

ITEM	PART NO.	DESCRIPTION
73	SR1000/73	Guide Wheel
74	SR1000/74	Nut
75	SR1000/75	Centre
76	SR1000/76	Spanner
77	SR1000/77	Internal Wires

NOTE: *It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.*
IMPORTANT: No liability is accepted for incorrect use of this product.
WARRANTY: Guarantee is 12 months from purchase date, proof of which will be required for any claim.
INFORMATION: For a copy of our latest catalogue and promotions call us on 01284 757525 and leave your full name and address, including postcode.

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