

Thank you for purchasing a Sealey product. 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.

1.1 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.

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 SM1314 from the mains power before changing accessories, servicing or performing any maintenance.

✓ Locate the machine in a suitable working area. Locate the stand on a strong, flat floor. Keep area clean and tidy and free from unrelated materials and ensure there is adequate lighting.

✓ Maintain 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 SM1314 clean for best and safest performance and check moving parts alignment regularly.

✓ Wear approved eye safety protection.

✓ Handle loose blades with gloves or cloth as they are very sharp, but DO remove gloves and/or cloth before operating the SM1314.

✓ Keep your hands and fingers away from the blade when operating.

✓ Remove ill fitting clothing. Remove ties, watches, rings and other loose jewellery, and contain long hair.

✓ Maintain correct balance and footing. Ensure the floor is not slippery and wear non-slip shoes.

✓ Ensure there are no foreign objects in the workpiece i.e. nails or screws.

x DO NOT start machine with the workpiece touching the blade.

x DO NOT use the SM1314 for a task it is not designed to perform.

x DO NOT allow untrained persons to operate the SM1314, keep children and unauthorised persons away from the working area.

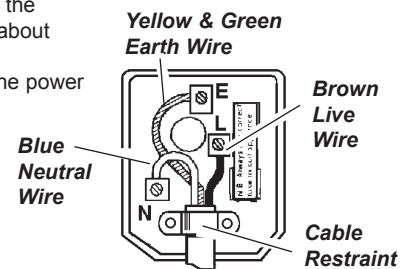
x DO NOT get the SM1314 wet or use in damp or wet locations or areas where there is condensation.

x DO NOT use SM1314 where there are flammable liquids, solids or gases such as paint solvents, waste wiping or cleaning rags etc.

x DO NOT operate if any parts are damaged or missing as this may cause failure and/or possible personal injury.

x DO NOT leave the SM1314 operating unattended.

x DO NOT operate the SM1314 when you are tired or under the influence of alcohol, drugs or intoxicating medication.



FUSE RATING
 THIS PRODUCT MUST BE FITTED
 WITH A **13 AMP FUSE**

- x DO NOT use without the appropriate guard in place and ensure it is correctly adjusted.
- x DO NOT use blades which are blunt as this increases the danger of kickback.
- ✓ Any portion of the cutter block not being used for planing shall be guarded.
- ✓ When planing or thicknessing short workpieces, a push-stick should be used.
- ✓ Check for alignment of moving parts, binding of moving parts, mounting and any other conditions that may affect operation.
- ✓ If a guard or other part is damaged it should be properly repaired or replaced by an authorized service centre unless otherwise indicated in this instruction manual.
- ✓ **Stay alert** - Watch what you are doing, use common sense and do not operate the tool when you are tired.
- ✓ When not in use switch off the SM1314 and remove plug from the power supply.

2. APPLICATION & SPECIFICATION

Three-bladed cutter capable of handling timber up to 250mm wide. Quick and easy conversion between planer and thicknesser modes, with micro switches to prevent incorrect set-up. Fully automatic material feed with anti kick-back when thicknessing. Large tables fully polished to aid smooth feed of timber. No-volt release switch prevents uncontrolled re-start after power interruption. Dust extraction port. Suitable for high capacity planing and thicknessing operations, providing quality surface finish. Mounted on stand with lockable storage facility.

Motor	1500W, 230V 50Hz.
Maximum Thicknessing Capacity	150mm
Maximum Cut (Width x Depth)	250 x 3mm
Thicknesser Feed Rate	4.6mtr/min
Cutter-head Speed	5200rpm
Fence Angle	45-90°
Working Table Size	1060 x 340mm
Weight	103kg

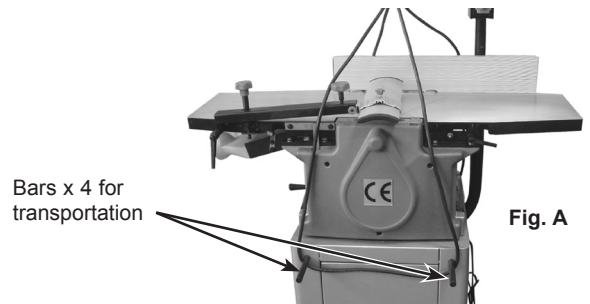


Fig. A

3. ASSEMBLY

- ❑ **WARNING! DO NOT plug the SM1314 into the mains power supply until completely assembled.**

NOTE! Pull out handle bars when you need to move the machine (Fig. A). This unit is heavy and requires more than one person to move it.

NOTE! The SM1314 is secured to the base of the packing crate by four bolts, undo the bolts to remove machine from crate. With assistance tip the machine onto its side and screw the four rubber feet to the bolt holes that were used to bolt the machine to the crate base.

3.1 FITTING THE POWER SWITCH COLUMN.

- 3.1.1 The power switch column is attached by one bolt for shipping.
- 3.1.2 Remove the single bolt holding the column to the SM1314.
- 3.1.3 Turn the column so that it is upright and align the three mounting holes on the column with those on the base.
- 3.1.4 Using the three bolts supplied securely attach the column to the base.
- 3.1.5 Unlock the lockscrew on the column and raise the power switch to the desired height and position, tighten the lockscrew.

NOTE! When raising the power switch column have an assistant feed the wires through from inside the machine to prevent them from snagging.

NOTE: The unit is fitted with a no-volt On/Off switch which automatically switches off if the supply is interrupted (power cut, socket switched off etc.) thereby preventing unexpected, and therefore dangerous, start-up when the supply is reconnected.

3.2. SETTING ANGLE FENCE (fig. 1).

- 3.2.1 Assemble the fence mount using two M6 bolts (Fig.1).
- 3.2.2 Attach the fence bracket to mount using the locking lever (Fig.2).
- 3.2.3 Remove one plastic end cap from the fence and slide the groove on the rear of the fence over the two screws on the fence bracket. Tighten the two screws to secure the fence to the bracket.
- 3.2.4 Adjust the height of the fence bracket as desired, the fence base should just contact the feeding table at 90°. You may set the fence between 90° and 45°.
- 3.2.5 Use a set square between the table and fence to determine 90° and use the set bolts to ensure the fence stops at 90° & 45°.

3.3 ATTACHING BLADE GUARD.

- 3.3.1 Loosely bolt the blade guard onto the planing table using the locking lever (Fig.3).
- 3.3.2 Insert the height adjusting screw ensuring that the washer and spring are on the underside of the guard arm. Ensure the washer is uppermost.
- 3.3.3 The locking lever need only be firmly tightened when the machine is in use, any workpiece should be a firm sliding fit under the guard.

Fig.1



Fig.2

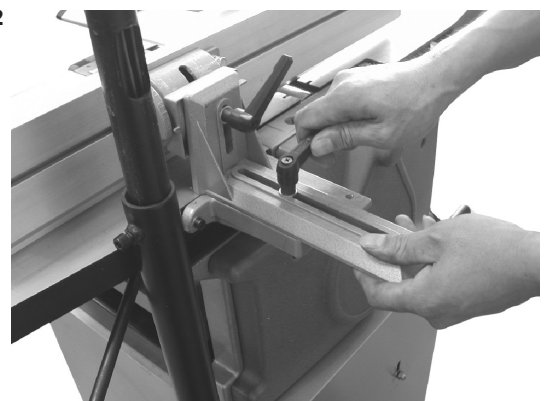
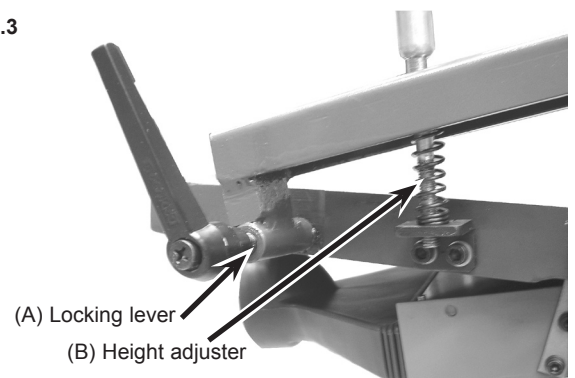


Fig.3

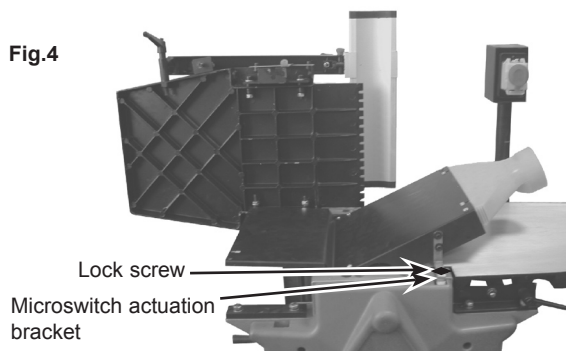


4. CHIP EXTRACTION

The chip chute is positioned on the topside of the SM1314 for thickening operations and on the underside for planing operations.

- 4.1 For thickening operations the chute must be in the correct position (uppermost) Fig.4. It is fitted with a bracket that actuates a microswitch and allows the machine to run in thickening mode.
- 4.2 When in this position use the lock screw to screw the microswitch bracket to the SM1314 to prevent the chute from moving (Fig.4).
- 4.3 Attach a vacuum extractor to the chute nozzle and turn on before operating the SM1314.
- 4.4 For planing operations the chute will be on the underside of the planing table and the planing table will actuate the other microswitch.

Fig.4

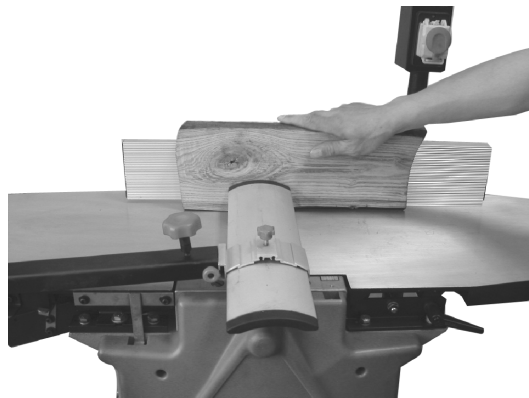


5. GUARD ADJUSTMENT

- 5.1 To adjust the height of the guard, loosen lock lever Fig.3A, raise or lower the guard using height adjusting screw (Fig.3B), until it is a firm sliding fit with the workpiece. Tighten knob A.
- 5.2 After adjusting the guard height it can be adjusted sideways to set the required stock width (As in Fig.5)

WARNING! Always ensure any part of the blade that is to be unused is covered by the blade guard at all times.

Fig.5



6. OPERATING INSTRUCTIONS

- WARNING!** Ensure you read, understand and apply Section 1 safety instructions before use.
- WARNING!** When planing, the workpiece must not be less than 6mm thick. It must be wider than 20mm and longer than 200mm. **We recommend** the use of a push paddle to avoid injury. **We recommend** you check the alignment of cutting blades before use. See section 7.4 on blade replacement and alignment.

6.1 PLANING

- 6.1.1 The cutting depth is set by raising or lowering the height adjustment handle (Fig.6A). Use the front table plate in conjunction with the scale on the side of the machine body for the cutting depth. A cutting depth of between 0.5 and 1.5 mm (1/64"~1/16") will produce the best results.
- WARNING: The part of the blades not used, must to be covered by the blade guard.**

NOTE: Attach a suitable dust extractor to the dust chute. This reduces the amount of airborne dust and health risks associated with inhalation of particles.

- 6.1.2 Take up a working position so that you are always on one side of the machine away from the area directly in front of or behind the cutterhead.

- 6.1.3 Lift STOP cover and push the start button.

NOTE! The STOP button cover is also the Emergency Stop button. In case of emergency hit the STOP button cover, it will lock into place to prevent the start button being activated again. The stop button will require unclipping in order to gain access to the start button.

- 6.1.4 Place both hands on the workpiece. Do not hold the workpiece with your fingers anywhere near the blades.

NOTE! Only plane workpieces which rest firmly on the planer and can be safely guided.

- 6.1.5 Introduce the workpiece from the feed (right-hand) side. Gently guide the workpiece over the blades. Do not force the workpiece but allow the machine to do the work.

Fig.6

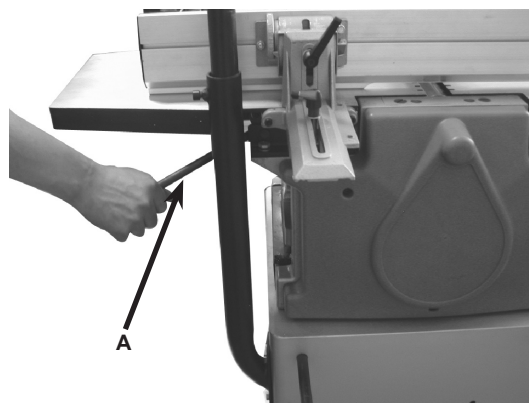
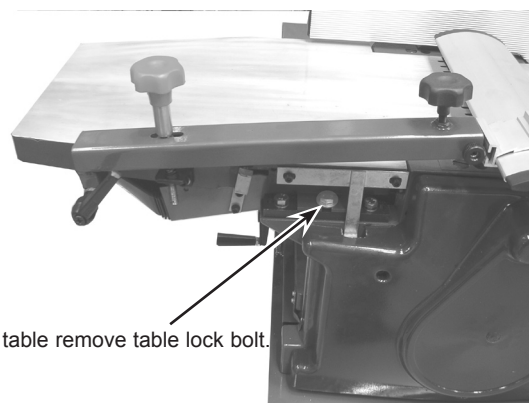


Fig.7



- WARNING!** Ensure you read, understand and apply Section 1 safety instructions before use.

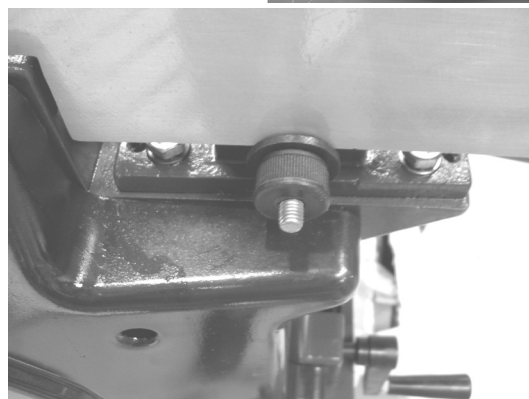
6.2 PREPARING SM1314 FOR THICKENING OPERATION

- 6.2.1 Remove table lock bolt (Fig.7).
- 6.2.2 Lift table complete with blade guard until it is upright.
- 6.2.3 Lock the table in the upright position using the knurled knob (Fig.8).
- 6.2.4 Lower table as far as it will go.
- 6.2.5 Lift the chip chute upwards until it is lying flat on the planing table and in contact with the microswitch (Fig.9).
- 6.2.6 Lock the chip chute into position using the lock screw (Fig.9A).
- 6.2.7 Attach a chip extractor to the chip chute.

6.3 THICKENING

- 6.3.1 Set the desired height by turning the height adjustment handle using the graduated scale as a reference.

Fig.8



- 6.3.2 One complete turn of the handle is equal to approx 2mm as indicated on the scale next to the feed port.
It is better to use a cutting depth of between 0.5 and 1.5 mm (1/64"~1/16") for best results. Trying to remove excessive amounts on a single pass will result in motor overload and dull the blades.
- 6.3.3 Introduce the workpiece from the feed (left-hand) side. Gently guide the workpiece through the SM1314. Do not force the workpiece but allow the machine to do the work.

NOTE: When thickening it is recommended to keep the feed table clean and free of sap. Apply a small amount of penetration spray and wipe over with a cloth.

- ❑ **WARNING!** Do not remove chips or dust from the table while the machine is running, always disconnect from the mains supply before attempting any kind of maintenance. Do not attempt to thickness short pieces of wood.

7. MAINTENANCE

- ❑ **WARNING!** Prior to doing any maintenance work, always disconnect from the mains. Any protective guards which have been removed must be mounted again after the maintenance work.

7.1 BELT TENSION

- 7.1.1 After the first 5 hours of operation check the belt tension.
- 7.1.2 Remove the front outer plastic cover by removing three Allen bolts.
- 7.1.3 Check tension by pushing against the belt. The play should be about 15-20mm.
- 7.1.4 If loose, slacken the four motor mount bolts and adjust the height of the motor until the correct belt tension is achieved (Fig.10). Tighten the motor bolts and re-check the belt tension. Replace belt cover.

- ❑ **WARNING!** Never run the SM1314 without the covers fitted.

7.2 GENERAL MAINTENANCE

- 7.2.1 Regularly clean thickening table and oil threaded spindles for the height adjustment of the thickening table.
- 7.2.2 Regularly clean the SM1314 drive gear, using a brush or compressed air to remove dust. Lubricate all bearing points, gears, chain wheels and chains with a few drops of engine oil. Keep flat bell and wheel free of grease (Fig.11 & 12).
- 7.2.3 The table surface should always be kept free of resin.
- 7.2.4 In order to prevent the motor from overheating, regularly check that no dust has accumulated on the ventilation apertures of the motor. After a prolonged period of operation, users are recommended to have the machine checked by an authorised service agent.

7.3 TOOL CARE

The cutter head, clamping devices, blade supports and blades used on the machine must be kept free from resin build up as a clean tool improves the cutting quality. This can be done by soaking the blade supports and blades for 24 hours in paraffin, white spirit or commercially available resin remover.

7.4 REPLACING BLADES

- ❑ **WARNING!** Disconnect from power before servicing!
- 7.4.1 Unplug the planer from power source.
- 7.4.2 Loosen the four blade lock screws. (Fig.13)
- 7.4.3 Lift blade and blade clamp from cutterhead.

NOTE: Do not lose the two small blade support springs mounted in the cutter block under the blade.

- 7.4.4 Clean any sawdust and resin build up from cutterhead and blade clamp.
- 7.4.5 Place blade clamp against the replacement blade and replace in cutterhead.
- 7.4.6 Secure blade and blade clamp using four blade lock screws. Do not over-tighten.

NOTE: Check blade height and alignment.

- 7.4.7 To check blade alignment, set the table to the (0) position. Use a straight edge i.e metal ruler or set square and position it across the two tables. The blade should make friction contact with the ruler, check at either end of the blade and in the middle to ensure the blade is level. Loosen the blade lock screws and adjust height accordingly using the blade adjustment grub screws (Fig.14).
- 7.4.8 Repeat the procedure to replace the other blades.
- 7.4.9 Make sure all the blade lock screws are tight, do not overtighten, if any of the threads are stripped replace immediately.

Fig.9

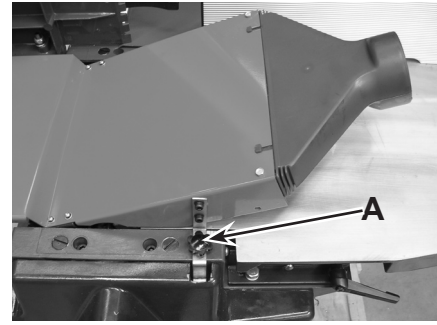


Fig.10

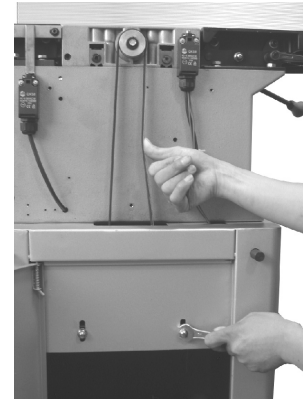


Fig.11

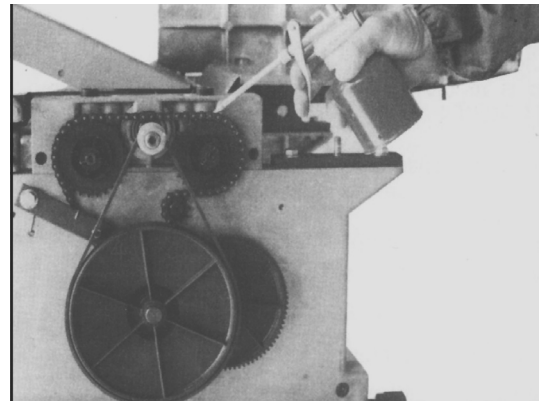


Fig.12

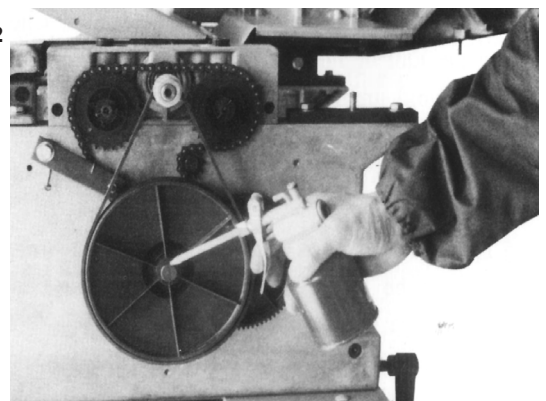


Fig.13

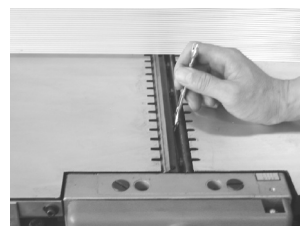
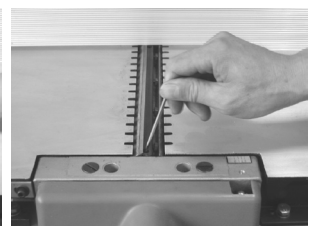


Fig.14



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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