

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 & CAUTIONS. USE THE 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).

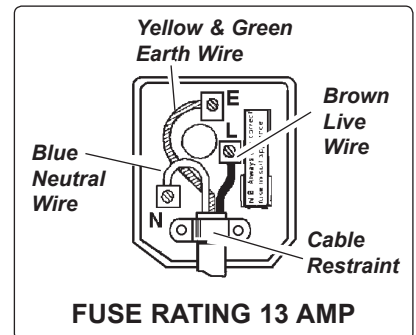
- a) **Connect the GREEN/YELLOW earth wire to the earth terminal 'E'.**
- b) **Connect the BROWN live wire to the live terminal 'L'.**
- c) **Connect the BLUE neutral wire to the neutral terminal 'N'.**
- d) **After wiring, check that there are no bare wires, that all wires have been correctly connected, 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.

- 1.1.10. 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

- ✓ Disconnect the saw from the mains before changing blades, servicing or performing any maintenance.
- ✓ Maintain the saw in good condition. Check moving parts alignment on a regular basis.
- ✓ Replace or repair damaged parts. *Use an authorised service agent and use recommended parts only. Unauthorised parts may be dangerous and will invalidate the warranty.*
- ✓ Keep the saw clean, and the blade sharp for best and safest performance.
- ✓ Wear approved safety eye protection (standard spectacles are not adequate) and dust mask.
- ✓ Maintain correct balance and footing. Ensure the floor is not slippery and wear non-slip shoes.
- ✓ Keep children and unauthorised persons away from the working area.
- ✓ Remove ill fitting clothing. Remove ties, watches, rings and other loose jewellery and contain long hair.
- ✓ Use in a suitable work area. Keep area clean, tidy and free from unrelated materials. Ensure there is adequate lighting.
- ✓ Ensure adjusting/locking hex. key and wrench are removed before starting saw.
- ✓ When not in use store in a safe, dry, childproof area .



- X **DO NOT** use the saw where there are flammable liquids, solids or gases such as paint solvents, etc.
- X **DO NOT** allow children to operate the saw.
- X **DO NOT** operate the saw if any parts are missing as this may cause failure and/or personal injury.
- X **DO NOT** leave the saw operating unattended.
- X **DO NOT** carry the saw with your finger on the power switch.
- X **DO NOT** use the saw for a task it is not designed to perform.
- X **DO NOT** use a blade which is damaged, cracked, distorted or has missing teeth.
- X **DO NOT** tamper with, or remove, blade guard.
- X **DO NOT** operate the saw when you are tired, under the influence of alcohol, drugs or intoxicating medication.
- X **DO NOT** get the saw wet or use in damp or wet locations.
- X **DO NOT** hold unsecured workpiece in your hand whilst cutting.
- ✓ Secure non-stable workpiece with a clamp, vice or other adequate holding device.
- ✓ Avoid unintentional starting.
- ✓ Before making a cut ensure that all accessories and adjustment fixings are fully tightened.
- ✓ Only use saw blades that are specifically designed for use with this machine.
- ✓ Always use the side fence supplied or a securely fixed straight edge guide when doing a rip cut (along the length of the grain).
- X **DO NOT** force the saw to cut but allow it to operate at its normal working speed.
- X **DO NOT** attempt to carry the saw by its power cable.
- X **DO NOT** bring the power cable into contact with sharp objects (such as the blade) or edges or sources of heat.
- X **DO NOT** attempt to unplug the power cable by pulling on the cable itself.
- X **DO NOT** use the saw with any other manufacturers accessories.
- X **DO NOT** reach under the workpiece whilst the blade is cutting. Keep hands away from the cutting area and do not attempt to remove cut material whilst the blade is still turning.
- X **DO NOT** wedge the blade guard open. If the unit is accidentally knocked or dropped check that the blade guard still operates easily and smoothly. If the blade guard is damaged stop using the saw until the guard is repaired or replaced.
- X **DO NOT** fit or use a saw blade that is intended to cut metal. Always ensure that the saw is fitted with the correct wood cutting blade.
- X **DO NOT** substitute an abrasive wheel for the saw blade.
- ✓ Evaluate your work area before using the saw e.g. partitions may conceal electric cables or water piping.
- X **DO NOT** allow the blade to come into contact with nails or other steel fixings used in old timber or existing timber structures. Inspect the workpiece before commencing cutting and remove any potential hazards.
- X **DO NOT** attempt to stop the saw by pressing on the side of the blade.
- X **DO NOT** start the saw with the blade in contact with the workpiece. Allow the blade to run up to speed before proceeding to cut.

2. INTRODUCTION & SPECIFICATION

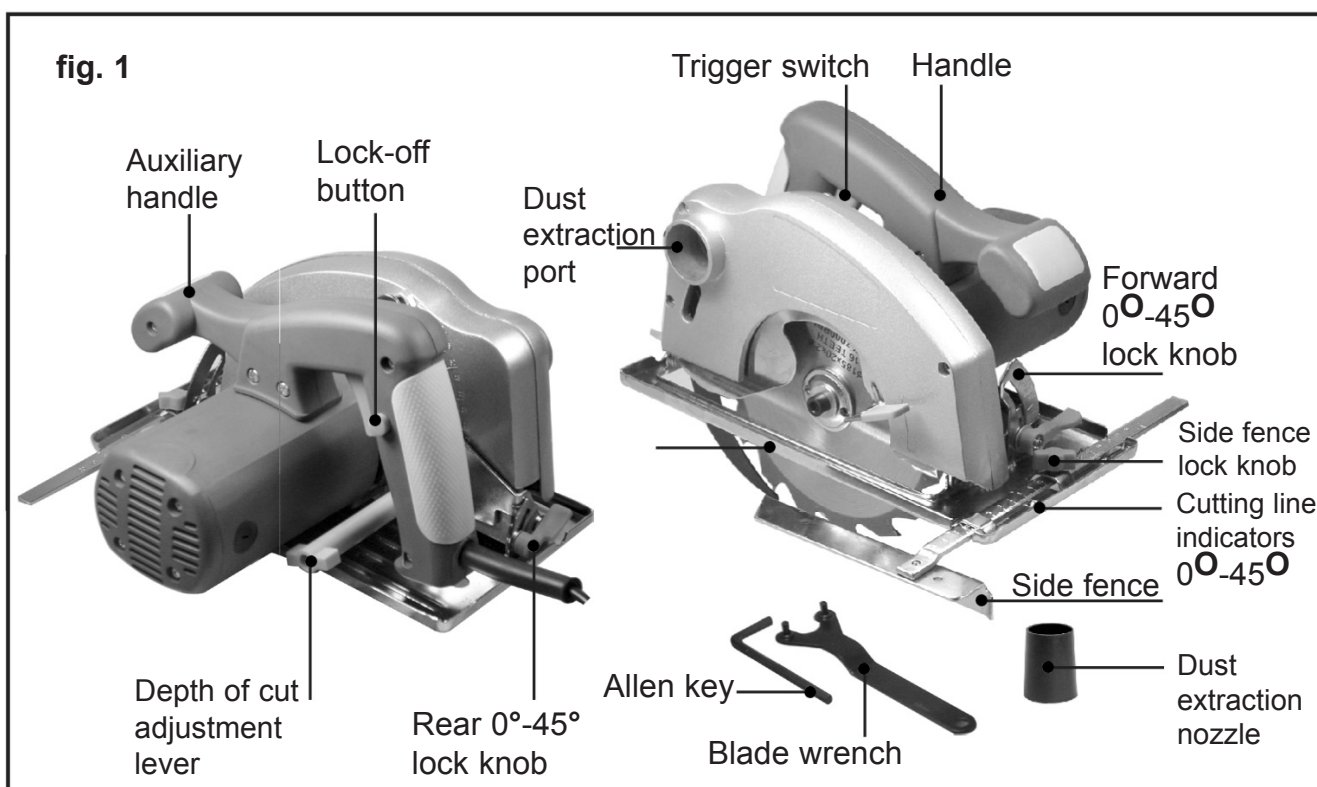
The SCS1400 circular saw is intended for cutting all types of timber products including solid timber, plywood and reconstituted sheet material such as chipboard and MDF. It is adjustable for depth of cut and angle of cut up to 45° and features a safety lock off button to reduce the risk of unintentional starting. The saw also has a dust extraction port and a directed flow of air keeps the cut line visible.

Specification.

Power supply	230V	Cutting depth - 0°	64mm
Input power.	1400W	Cutting depth - 45°	45mm
No load blade speed	4500rpm	Acoustic pressure.	94dB(A)
Blade size.	Ø184mm x 20 x 2.6	Acoustic power.	107dB(A)
Blade arbor.	Ø20mm	Typical weighted vibration	4.6m/s ²

Items packed in carton:

1. Circular saw unit.
2. Side fence sawing guide.
3. Allen key for blade changing.
4. Wrench for blade changing.
5. Dust extraction nozzle.



3. SETTING UP THE SAW

- 3.1.1 **Condition of saw blade.** The best of saw blades will not cut efficiently if they are not kept clean, sharp and properly set. Using a dull blade will place a heavy load on your saw and increase the danger of 'kickback' (refer to section 4.1). It is good practice to keep extra blades on hand so that sharp blades are always available. Gum and pitch that has hardened on blades will slow the saw down. To remove gum and pitch accumulations first remove the saw blade as described below and use a gum and pitch remover, hot water or kerosene.
- 3.1.2 Remove any dust, rust preventative etc. and fit using only the supplied flanges, washer and bolt.
- 3.1.3 Do not use a blade which is damaged, cracked, distorted or has missing teeth. Do not use saw blades that are intended to cut steel.
- 3.1.4 **Blade size - Ø184mm x 20 x 2.6 (24 teeth)** The correct size and type of blade must be fitted. The blade must not exceed 2.8mm in thickness as this may prevent the outer blade washer from aligning with the flats on the spindle which could in turn result in serious personal injury.
- 3.1.5 Unplug the saw from the mains power before changing the blade or performing any maintenance.

3.1.6 CHANGING THE BLADE.

- 3.1.7 Place the blade wrench onto the outer flange nut to prevent the blade turning then insert the hex key into the blade bolt and loosen it by rotating the key anticlockwise as shown in fig.2.
- 3.1.8 Remove the bolt and washer together with the outer flange. Using the black tag provided rotate the blade guard up into the blade housing and hold it there whilst removing the blade with the other hand.
- 3.1.9 Fit new blade, ensuring that the teeth point in the same direction as the arrow on the blade guard. Refit the flanges, washer and blade bolt, as shown in fig.3, and tighten blade bolt using the hex key and wrench.

❑ Important

- ✓ Maintain original teeth angles when sharpening the blade.
- ✓ After fitting a new blade start saw and allow to run for a few seconds. Watch for blade wobble or vibration that would indicate incorrect installation or a poorly balanced or damaged blade. Hold saw so that blade path is away from body during this test.

3.2 DEPTH OF CUT ADJUSTMENT.

- 3.2.1 When setting the depth of cut the blade should not protrude more than 6mm below the thickness of the material being cut. If the blade protrudes more than 6mm the cut will be rough and there is an increased chance of 'kickback' occurring. (Read section 4.1 regarding kickback.)
- 3.2.2 Before making an adjustment to the blade depth disconnect the saw from the mains power.
- 3.2.3 Ensure that the workpiece to be cut is firmly held and cannot move.
- 3.2.4 To adjust the depth of cut take hold of the main handle of the saw and rest the front edge of the saw base onto the workpiece so that the blade and blade guard overhang the edge as shown in fig.5. (Do not allow the blade guard to operate)
- 3.2.5 Keeping hold of the main handle loosen the depth of cut adjustment knob (see fig.4-A). Hold the base of the saw still as in fig.5 and move the whole saw unit up or down through the fixed quadrant until the blade protrudes below the saw base by the desired amount.
- 3.2.6 The depth of cut can be set by using the scale marked on the side of the aluminium blade housing. The scale is marked from 0 to 65mm depth in increments of 5mm. The markings on the housing should be aligned with the step on the fixed quadrant where its width changes from broad to narrow. (See fig.4-B)
- 3.2.7 When the desired depth of cut is set tighten the adjustment knob.

3.3 ANGLE OF CUT ADJUSTMENT.

- 3.3.1 The saw can be set to cut at any angle from 0° to 45°. As the blade angle changes the line of cut in relation to the base changes. At the front edge of the saw base there are two triangular notches stamped out of the metal. One notch is marked 0° and indicates the line of cut when the blade is vertical. The other notch is marked 45° and indicates the line of cut when the blade angle is adjusted to 45°. (See fig.10) If you wish to cut at any angle between 0° and 45° the line of cut in relation to the base assembly of the saw will vary. For this reason you should do a trial cut on a scrap piece of material to establish the distance from the line of cut to your guidance line.
- 3.3.2 Before adjusting the angle of cut disconnect the saw from the mains power supply.
- 3.3.3 To adjust the angle of cut loosen the forward and rear locking knobs as indicated in fig.1. Lift the motor housing in relation to the base until the desired angle is achieved as indicated on the scale stamped onto the forward locking knob quadrant. (See fig.6). Tighten the forward and rear locking knobs.

3.4 DUST EXTRACTION.

- 3.4.1 In normal use the dust is discharged from the extraction port as indicated in fig.1. Where a vacuum extraction system is available the dust extraction nozzle shown in fig.1 should be inserted into the extraction port provided and this can then be connected to the vacuum extraction system.

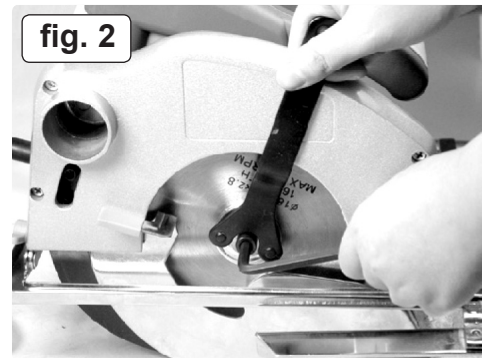


fig. 2

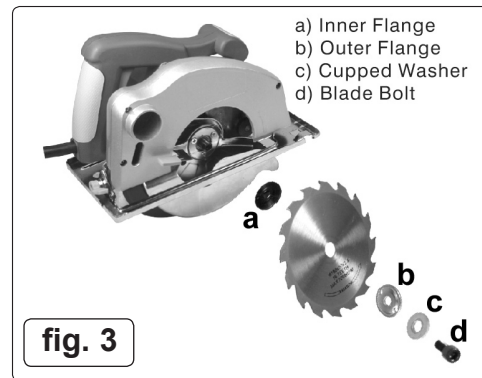


fig. 3

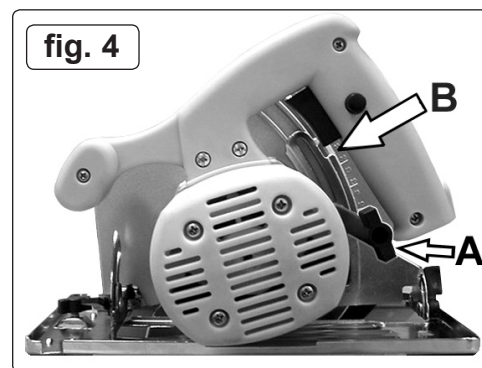


fig. 4

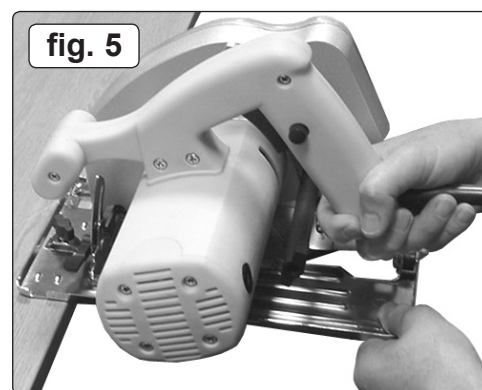


fig. 5

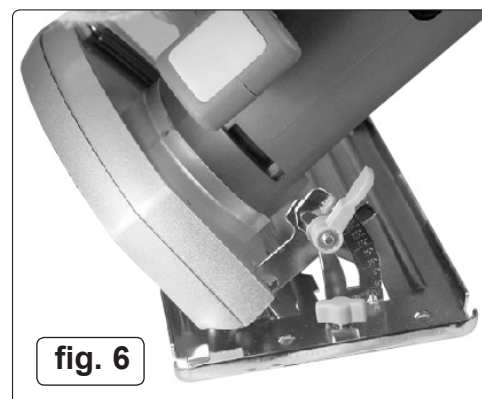


fig. 6

3.5. USE OF THE SIDE FENCE SAWING GUIDE.

- 3.5.1 Where a suitable straight edge exists on the workpiece the side fence guide may be used.
- 3.5.2 Disconnect the saw from the mains power before fitting the guide.
- 3.5.3 Slide the side fence with the measuring scale upwards into the pressed metal guides in the base plate as shown in fig.7. If necessary loosen the clamp knob to allow the guide to pass through. Set the guide at the required width and tighten the clamping knob.
- 3.5.4 To avoid the blade binding in the cut and causing kickback keep the face of the fence guide pressed firmly against the edge of the workpiece when making a cut.

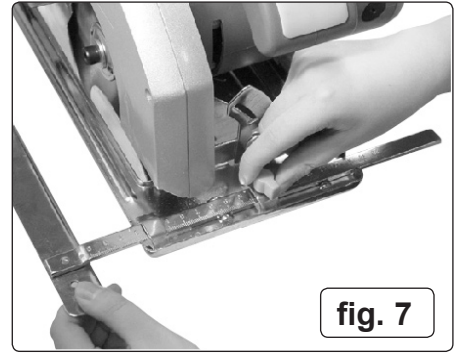


fig. 7

4. OPERATING THE SAW

4.0 BLADE GUARD SYSTEM.

The saw is fitted with a lower blade guard system which automatically opens as you feed the saw into the workpiece and automatically closes as the saw is withdrawn from the workpiece. This guide is there for your protection and should not be tampered with or modified in any way. Do not wedge the blade guard open. If the unit is accidentally knocked or dropped check that the blade guard still operates easily and smoothly. If the blade guard is damaged stop using the saw until the guard is repaired or replaced.

WARNING! When the saw is cutting, the portion of blade that is protruding underneath the workpiece is not covered. Do not reach underneath the workpiece whilst the blade is cutting. Keep hands away from the cutting area and do not attempt to remove cut material whilst the blade is still turning.

4.1 KICKBACK.

Kickback is caused by any action which pinches or jams the blade during the cutting process. If the blade stalls rapidly the saw will be driven back towards you.

WARNING! If kickback occurs release the switch immediately. Kickback could cause you to lose control of the saw leading to serious injury. For this reason it is important to hold the saw firmly and correctly with both hands as indicated in fig.8. The main causes of 'kickback' are listed below and in general relate to bad workshop practice and poor technique.

- 4.1.1
- Incorrect blade depth setting.
 - Twisting the blade whilst making a cut.
 - Forcing the saw to cut.
 - Using a dull, gummed up or incorrectly set blade.
 - Sawing into nails or knots in the wood.
 - Workpiece not adequately supported.
 - Cutting warped or wet timber.
 - Saw blade incorrectly fitted.
 - Damage to the saw through misuse.
- 4.1.2 **The incidence of kickback can be greatly reduced by observing the following points:**
- 4.1.3 Always ensure that the blade is set at the correct depth. The blade should not protrude more than 6mm below the material being cut.
- 4.1.4 Inspect the workpiece for knots, nails, screws and other metal fixings before cutting. This is particularly important when reusing timber that has previously been used for some form of construction or when modifying an existing structure.
- 4.1.5 Always use a straight edge guide when rip cutting (along the grain of the timber). This helps to avoid twisting the blade in the cut.
- 4.1.6 Always use clean, sharp and properly set blades. Avoid making cuts with dull blades.
- 4.1.7 When making a cut use steady, even pressure. Do not force the saw to cut.
- 4.1.8 Do not cut wet or warped timber.
- 4.1.9 To avoid pinching the blade, all parts of the work piece must be fully supported.
- 4.1.10 Hold the saw firmly with both hands keeping your body in a balanced position to counteract the force of a kickback should it occur.



fig. 8

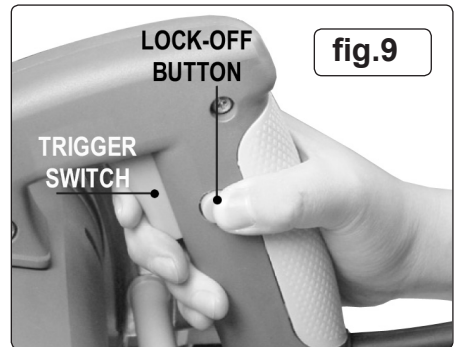


fig.9

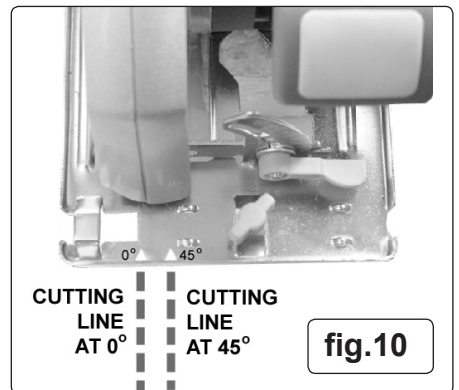


fig.10

4.2 MAKING A CUT.

- 4.2.1 The workpiece must be fully supported and marked out prior to commencing the cut.
- 4.2.2 Ensure that the saw is correctly set up for the cut you wish to make and that there is a suitable edge guide to achieve a straight cut.
- 4.2.3 It is advisable to test the cut on a suitable piece of scrap material first to test the accuracy of your set up.
- 4.2.4 The saw has a safety lock-off button to prevent accidental operation.
- 4.2.5 To start the saw, press and hold the safety lock-off button and then squeeze and hold the trigger switch (fig.9). The saw will start. (When the trigger switch is depressed it is not necessary to go on holding the safety lock off button.)
- 4.2.6 To stop the saw release the trigger switch, which will then automatically lock-off for safety.
- 4.2.7 With the saw switched off, place the front of the saw base onto the workpiece, with the blade guard behind the edge where the cut is to start. (If necessary use the alignment notches on the front edge of the saw base to align the blade with the line of cut. See fig.10) Switch on the saw and allow the blade to run up to speed. Move the saw forward slowly and smoothly. As the blade guard moves out of the way the saw will commence cutting.

DO NOT attempt to start the saw with the blade in contact with the workpiece.

- 4.2.8 When the cut is complete release the trigger and allow the blade to come to a complete stop before removing the saw from the workpiece.
- WARNING!** The trigger switch and the lock-off button are not to be removed or tampered with, e.g. by tying down the trigger switch to the handle, or the saw will not switch off automatically, or will not lock-off, and there will be a high risk of personal injury.
- Important!** Wear safety goggles and a mask to prevent eye injury and dust inhalation.

5. CLEANING & MAINTENANCE

- 5.1 Always ensure that the saw is switched off and unplugged before commencing any maintenance.
- 5.2 To prolong the useful life of the circular saw always clean it thoroughly after use and protect blade with a rust preventative. **Important!** Do not clean the plastic parts with any solvents as they may attack the plastic material. Clean the saw with a dry cloth. Remove sawdust from ventilation slots.
- 5.3 Lubrication. The bearings are lubricated for the life of the product and require no further maintenance.



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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