

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. 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 all portable electrical appliances, if used on business premises, to be 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 an ASTA/BS approved 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'.**

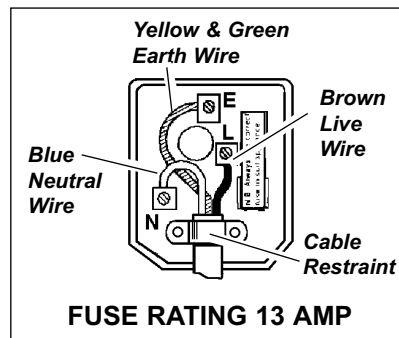
c) **Connect the BLUE neutral wire to the neutral terminal 'N'.**

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. If extension reel is to be used outdoors, ensure it is marked for outdoor use.



1.2 GENERAL SAFETY

WARNING! Disconnect the saw from the mains power, and ensure the cutting blade is at a complete standstill before attempting to change accessories, service or perform any maintenance.

✓ Maintain the saw in good condition (use an authorised service agent).

✓ Replace or repair damaged parts. *Use recommended parts only. Unauthorised parts may be dangerous and will invalidate the warranty.*

✓ Locate the saw in an adequate working area for its function. Ensure the surface is flat and firm. Keep area clean and tidy and free from unrelated materials, and ensure there is adequate lighting.

✓ Keep the saw clean for best and safest performance and check moving parts alignment regularly.

WARNING! Before each use check that blade is secure and that it is not worn or damaged. *If worn or damaged replace immediately.*

WARNING! Keep guard and holding screws in place, tight and in good working order. Check regularly for damaged parts.

A guard, or any other part, that is damaged should be replaced with a new one, to ensure that it operates properly and performs its intended function, before the tool is used. The safety guard is a mandatory fitting where saw is used in premises covered by the Health & Safety at Work Act.

✓ Remove adjusting keys and wrenches from the machine and its vicinity before turning it on.

WARNING! Wear approved safety eye protection, ear defenders, and gauntlets, and, if dust is generated, respiratory protection.

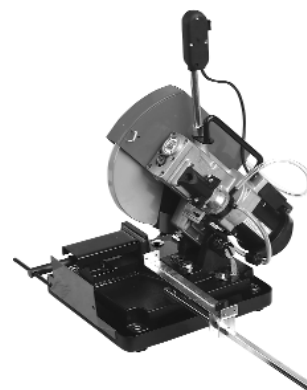
✓ Remove ill fitting clothing. Remove ties, watches, rings and other loose jewellery and contain long hair.

✓ Keep hands and body clear of the work table when operating the saw and position your body in line with the blade whilst cutting.

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

✓ Always clamp workpiece in the base vice. NEVER hold a work piece by hand.

✓ Keep children and unauthorised persons away from the working area.



- ✓ Avoid subjecting blade to excessive strain, always ease blade down against workpiece (a harsh downward impact may break the blade or teeth). Do not apply undue force on the handle in order to cut workpiece. Maintain a controlled cutting speed through the workpiece.
- ❑ **WARNING!** DO NOT switch the saw on whilst the blade is in contact with the workpiece. Bring the rotating blade to the workpiece. and avoid un-intentional starting of the saw.
- ✗ DO NOT hold the workpiece by hand. Use base vice to secure the workpiece.
- ✗ DO NOT force the saw to achieve a task it was not designed to perform.
- ✗ DO NOT allow untrained persons to operate the saw.
- ✗ DO NOT get the saw wet or use in damp or wet locations or areas where there is condensation.
- ❑ **WARNING!** DO NOT use saw where there are flammable liquids, solids or gases such as petrol, paint solvents, waste wiping rags etc.
- ✗ DO NOT operate the saw if any parts are missing or damaged as this may cause failure and/or possible personal injury.
- ✗ DO NOT remove the safety guard whilst in use.
- ✗ DO NOT attempt to remove a workpiece until the blade has come to a complete standstill..
- ✗ DO NOT touch the workpiece close to the cut as it will be very hot. Allow to cool.
- ✗ DO NOT leave the saw operating whilst unattended.
- ✗ DO NOT operate the saw when you are tired, under the influence of alcohol, drugs or intoxicating medication.
- ✓ When not in use switch the saw off and isolate from the power supply.

2. APPLICATION & SPECIFICATIONS

Lightweight, heavy duty cut-off saw suitable for cutting steel and aluminium tube, bar and box section. Supplied with 230mm HSS blade, mitring vice, cut adjuster and coolant pump. Trigger operated, 1100 watt motor with hardened steel worm drive.

Specifications:

Blade size	.225 X 32 mm	Motor	.1100 W 230V AC
Blade pitch	.180tpu	Oil (gear box)	.EP90
Capacity - Tube	.Ø65mm @ 90°, Ø60mm @ 45°	Weight	.21 kg
Capacity - Bar	.Ø45mm @ 90° & 45°	Sound pressure level	.91 dB (A)
Capacity - RHS	.70 x 45mm @ 90°, 60 x 40mm @ 45°	Sound power level	.98 dB (A)
Capacity - Box	.55mm @ 90°, 50mm @ 45°		

3. CONTENTS & ASSEMBLY

3.1. Contents

3.1.1. Unpack the product and check that all components and tools are present and undamaged. If any problem is noted contact your supplier immediately.

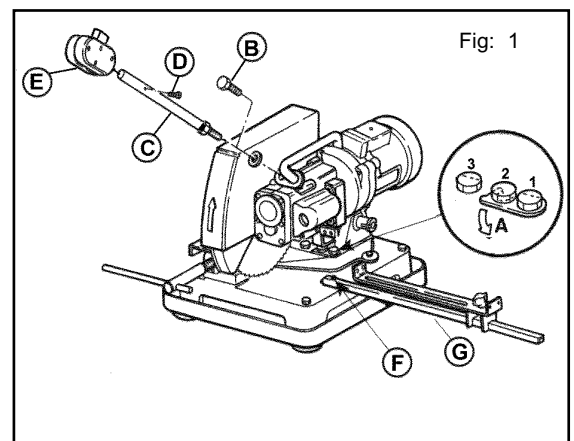
Contents: Saw assembly Spanner wrench 17 - 19mm Adjustable cutting guide Splash guard Handle with fixing nut and bolt

3.2. Assembly

- 3.2.1. Lift the saw from the box using the handle located on its upper side and site on a flat, stable work bench, or surface strong enough to support the saw and any workpiece.
- 3.2.2. Release the operating head by undoing the coupling plate retaining bolt, fig 1.A.1. and turning the coupling plate located at the machine base.
- 3.2.3. Connect the suction tube to the pump.
- 3.2.4. Remove the handle securing bolt, fig.1.B, transfer the washer to the threaded section of the handle, fig.1.C, and screw the handle in tight ensuring that the control switch securing nut and bolt, fig.1.D, are horizontal.
- 3.2.5. Loosen the screws in the control switch assembly, fig.1.E, slide the control switch onto the handle and secure with the nut and bolt provided ensuring that the control switch is facing upwards.
- 3.2.6. Fit the splash guard supplied to the front of the operator position on the saw tank.

3.3. Mounting the Adjustable Cutting Guide

- 3.3.1. Remove the securing bolt, fig.1.F, position the adjustable cutting guide, fig.1.G, onto the base and secure using the bolt previously removed.



4. OPERATING INSTRUCTIONS

❑ **WARNING!** Before sawing ensure you wear approved safety goggles, ear defenders, appropriate dust mask if saw generates dust and safety gloves, and ensure that all other safety instructions in chapter 1 are followed carefully.

Note: Numbers shown in brackets refer to item numbers on the parts diagram.

4.1. Checks and adjustments.

- 4.1.1. Before operating the saw check the oil level using the level inspection window on the front of the head. Refill as necessary as described in paragraph 6.2.
- 4.1.2. If required, the 0° and 45° stops can be set by aligning the swivel head with the scale plate and adjusting the eccentric washers.
- 4.1.3. Ensure there is a minimum of 10mm of coolant (oil and water mix) in the base tray. The lubrication pump is self priming.
- 4.1.4. The maximum and minimum blade heights can be adjusted if required, by means of stop bolts and locking nuts.
- 4.1.5. Ensure the blade securing bolt (8) is tight.

4.2. Securing workpiece.

- 4.2.1. Ensure the saw is switched off at the main switch and raise the operating head and secure workpiece in the base vice. We recommend that you place a block of wood (slightly narrower than the work piece) in the vice below the item to be cut to act as a support.
- 4.2.2. When cutting a long workpiece use additional supports along the length.

4.3. Operating.

❑ **WARNING!** DO NOT switch the saw on whilst the blade is in contact with the work piece. Bring the rotating blade to the workpiece.

- 4.3.1. The blade must be running at maximum speed and coolant flowing before attempting to lower the cutting edge onto workpiece.

Note: If the coolant fails to flow, refer to paragraph 6.3.

- 4.3.2. Press the switch (3), the push button (73) and lower the blade slowly and smoothly towards the workpiece (avoid jerky movements).
- 4.3.3. Exert adequate downward pressure on the handle to allow cutting according to the type and size of the material you are working with. Avoid subjecting the blade to excessive strain, always ease the blade down against workpiece (a harsh downward impact may break the blade or damage the teeth). Do not apply undue force on the handle in order to cut workpiece. Maintain a controlled cutting speed through the workpiece.
- 4.3.4. When cutting heavy material, move the blade intermittently through the workpiece with steady progression.
- 4.4. Completing the cut.**
- 4.4.1. When cutting is completed, carefully raise the blade clear of the workpiece and release the button.
- 4.4.2. Continue to raise the blade to its full extent and wait until the blade has fully stopped before attempting to remove the workpiece.
- 4.5. Mitre cutting.**
- 4.5.1. To cut the workpiece at an angle the saw head must be adjusted.
- 4.5.2. To effect an angled cut, loosen the central bolt, fig 1.A.3 which secures the rotating support at the tool base. Rotate the saw/motor assembly to the required angle, reading the graduated scale, up to a maximum of 45°.
- 4.5.3. Re-tighten the central bolt and make the cut.
- 4.6. Safety clutch.**
- 4.6.1. The saw is fitted with a mechanical safety clutch to prevent the blade from breaking and to protect the motor from overloading.
- 4.6.2. If the clutch is activated too frequently the blade will become loose and the blade securing bolt (8) needs to be tightened.

5. CHANGING SAW BLADE.

▲ DANGER! The use of damaged blades is dangerous and may cause personal injury.

☐ **WARNING!** Ensure the saw is isolated from the mains power supply before attempting to change the blade.

IMPORTANT! Saw blades used with this machine shall be of the specified diameter and thickness, with an adequate speed rating and suitable for the material being cut.

Before using a saw blade check that it is undamaged, undistorted and the teeth are sharp.

5.1. Removing blade

- 5.1.1. Place saw head in the up position.
- 5.1.2. Press in the release button, (73) and move the blade guard (13) towards the back of the tool thereby freeing the blade.
- 5.1.3. Undo the blade retaining bolt (8), using the 19mm open ended spanner provided, remove the bolt and the clutch washer (9).
- 5.1.4. Remove the outer clutch cover (10) and the blade.
- 5.1.5. Clean parts before re-assembly.

5.2. Fitting blade

- 5.2.1. Fit a new blade ensuring that the tooth inclination runs in the same direction as the arrow on the body.
- 5.2.2. Fit outer clutch cover, clutch washer and blade retaining bolt. Tighten bolt.
- 5.2.3. Before reconnecting to the mains power supply, move the saw head to the lowered position to ensure the head moves smoothly and that the end stop is correctly set.

6. MAINTENANCE

☐ **WARNING!** Ensure the saw is isolated from the mains power supply before attempting any maintenance.

6.1. Cleaning.

- 6.1.1. Regularly clean the dust which accumulates inside the protective guard and on the external parts.

6.2. Refilling with oil.

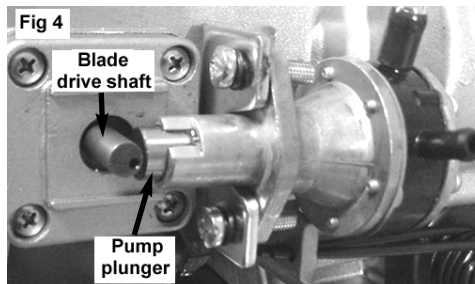
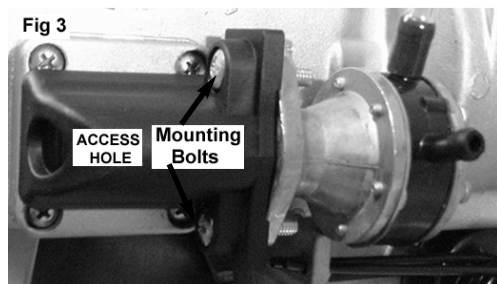
- 6.2.1. With the head in the lowered position, loosen the lower screw in the grip (1) and remove the grip from the lever (4).
- 6.2.2. Undo the lever retaining nut (6) and remove the lever (4).
- 6.2.3. Pour the oil (EP90 gearbox oil) into this opening.
- 6.2.4. Refit the lever and tighten the nut.
- 6.2.5. Refit the grip and tighten the screw.

6.3. Pump priming.

- 6.3.1. If the automatic starting for the pump fails, it may be necessary to activate the pump plunger.
- 6.3.2. Unscrew and remove the two mounting bolts, lock washers and nuts fig.3 and remove the plastic cover.
- 6.3.3. Exercise the pump plunger fig.4 in and out to ensure there is no stiction.
- 6.3.4. Grease the plunger and the blade drive shaft fig...
- 6.3.5. Refit the cover and secure using the two bolts, lock washers and nuts removed in para 6.3.2.

6.4. Shaft greasing.

- 6.4.1. Regularly grease the pump plunger and blade drive shaft. This can be done via the access hole fig.3 without removing the plastic cover.



Declaration of Conformity

We, the sole importer into the UK, declare that the products listed here are in conformity with the following EEC standards and directives

Steel Bladed Cut-Off Saw Model SM11.V2

73/23/EEC Low Voltage Directive
98/37/EEC Machinery Directive
93/68/EEC CE Marking Directive

The construction files for these products are held by the Manufacturer and may be inspected, by a national authority, upon request to Jack Sealey Ltd.



Signed by Mark Sweetman

1st August 2002

For Jack Sealey Ltd. Sole importer into the UK of Sealey Quality Machinery

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 equipment.

WARRANTY: Guarantee is 12 months from purchase date, proof of which will be required for any claim.

INFORMATION: For a copy of our catalogue and latest promotions, call us on 01284 757525 and leave your full name, address and postcode.



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