

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.

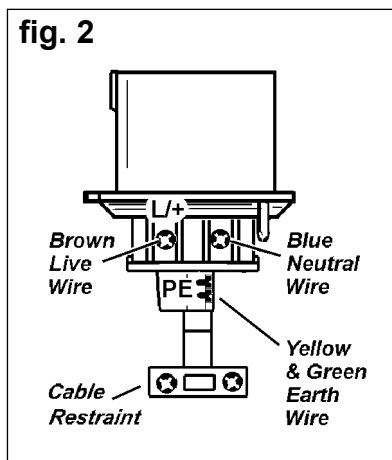
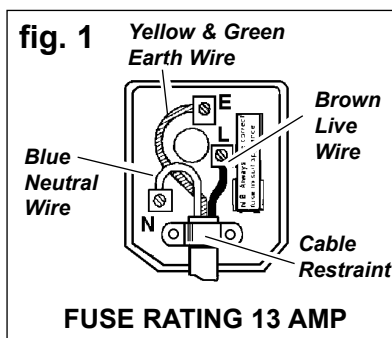
1. SAFETY INSTRUCTIONS

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, fig. 1.
- 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.
Fit a new plug according to the following instructions (UK only):
MG314/230V - fig. 1
MG314/110V - fig. 2
 - a) Connect the **GREEN/YELLOW** earth wire to the earth terminal 'E' or .
 - 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.
- 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

- ⚠ WARNING!** Disconnect the saw from the mains power, and ensure that the cutting disc 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 a suitable work area. Ensure that the surface is flat and firm. Keep the area clean and tidy and free from unrelated materials, and ensure that 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 the cutting disc is secure and that it is not worn or damaged.
NOTE: Only persons qualified under the "Abrasive Wheels Regulations" holding a current grinding wheel certificate may change discs (wheels).
- ✓ Ensure that replacement discs are not damaged in any way - cracks, deformations or splinters etc. Also check the mounting flanges to ensure that they are not deformed, burred or chipped. Damaged flanges must not be used as they may cause uneven pressure on the disc which may cause the disc to break. **DO NOT** over tighten a disc and never tamper with a disc in order to adapt it to a different size holder.
- ✓ Always use a disc suitable for the material being cut. Ensure that the cutting discs specified maximum speed is equal to, or higher than, that indicated on the machine data plate. Once mounted on the saw, test the disc before use by facing the grinder in a safe direction (point disc away from yourself, others and vulnerable items) and running it for a short time.
- ⚠ 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 must be repaired or replaced before next use. The safety guard is a mandatory fitting when the saw is used on 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, 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 worktable when operating the saw, and DO NOT position your body in line with the abrasive wheel.
- ✓ Maintain correct balance and footing. Ensure the floor is not slippery and wear non-slip shoes.
- ✓ Keep children and unauthorised persons away from the work area.
- ✓ Avoid subjecting disc to excessive strain, always ease disc down against workpiece (a harsh downward impact may break the disc). 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 on the saw whilst the disc is in contact with the workpiece. Bring the rotating disc to the workpiece. Avoid un-intentional starting of the saw.
- x DO NOT hold the workpiece by hand. Use base vice to secure the workpiece.
- x DO NOT use the saw for a task it is not designed to perform.
- x DO NOT allow untrained persons to operate the saw.
- x DO NOT get the saw wet, or use in damp or wet locations or areas where there is condensation.
- ❑ **WARNING!** DO NOT use the saw where there are flammable liquids, solids or gases such as paint solvents and including waste wiping rags etc.
- x DO NOT operate the saw if any parts are missing or damaged as this may cause failure and/or personal injury.
- x DO NOT remove the safety guard whilst the saw is in use.
- x DO NOT attempt to remove a workpiece until the disc has stopped rotating.
- x DO NOT touch the workpiece close to the cut as it will be very hot. Allow to cool. The cut edge of the workpiece will also be very sharp.
- x DO NOT leave the saw operating unattended.
- x DO NOT operate the saw when you are tired or under the influence of alcohol, drugs or intoxicating medication.
- ✓ When not in use switch off the saw and remove the plug from the power supply.
- ✓ To move the saw, lock the machine head with the locking plate and lift by the handle.

2. APPLICATION & SPECIFICATIONS

General purpose abrasive saw suitable for site use. Supplied with abrasive disc suitable for metal-cutting but will cut concrete with correct blade fitted. Available in 110 and 230Volt versions.

Specifications:

Size of disc	355 x 3.5 x 25.4mm	Maximum vice opening	210mm	Mitre angles	0 - 45°
Disc Part No.	PTC/355C	Motor	1700W (12A start-up 230V)	Weight . . . . .	.19kg
Cutting capacity (bar) . . . . .	.35mm		1700W (19A start-up 110V)	Sound pressure level . . . . .	.98dB(A)
Cutting capacity (pipe) . . . . .	.80mm	No-load speed	3770rpm	Sound power level	111dB(A)LWA

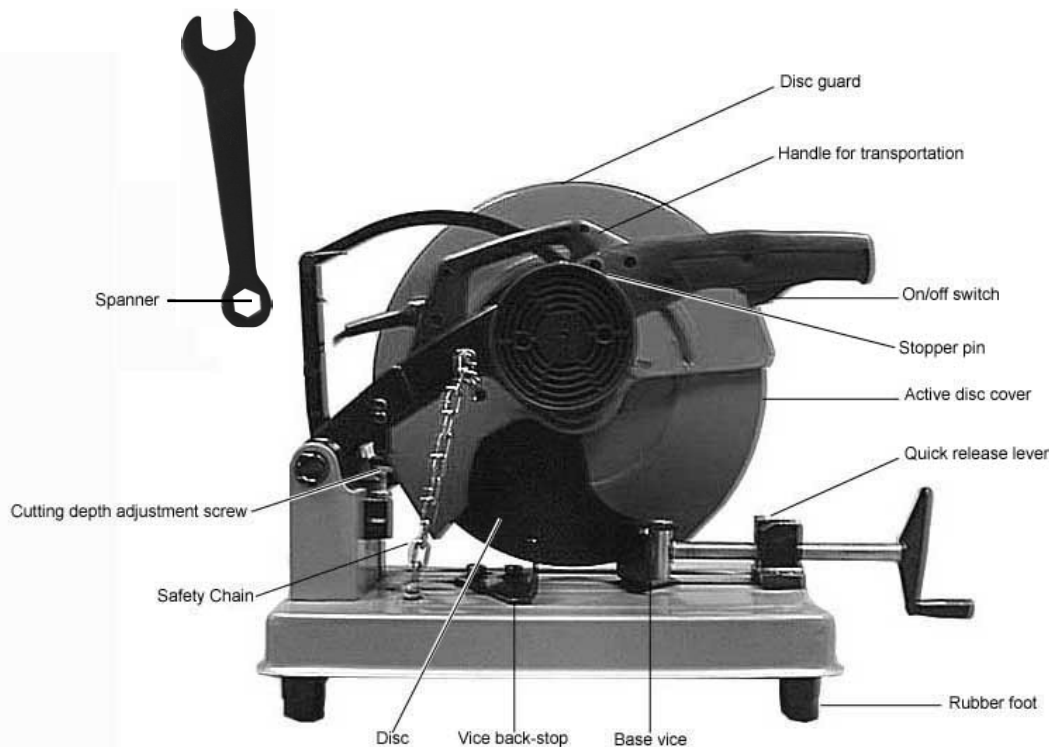
3. CONTENTS & ASSEMBLY

Unpack the product and check the contents.

Ensure that there is no damage. If any problem is noted, contact your supplier immediately.

IMPORTANT: Abrasive disc MUST only be fitted by a qualified person.

Fig 1

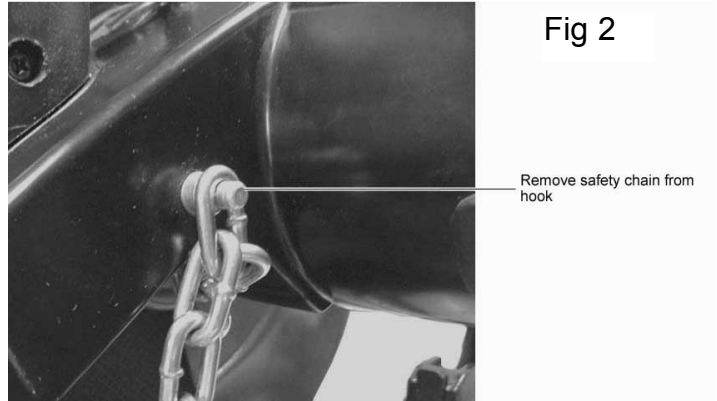


4. OPERATING INSTRUCTIONS

- ❑ **WARNING!** Before cutting ensure that you wear approved safety goggles, ear defenders, appropriate dust mask if cutting generates dust, and safety gloves. All safety instructions in Section 1 must be followed.

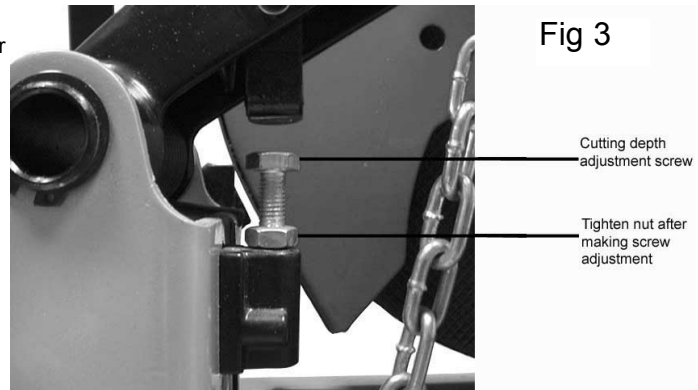
4.1. Using the safety chain

- 4.1.1. The MG314 is fitted with a safety chain which locks the handle/disk assembly down for ease of transport and storage. The chain can be released by pushing the handle down and pulling the chain from the hook. To lock the unit down again, press down on the handle and replace the chain on the hook.



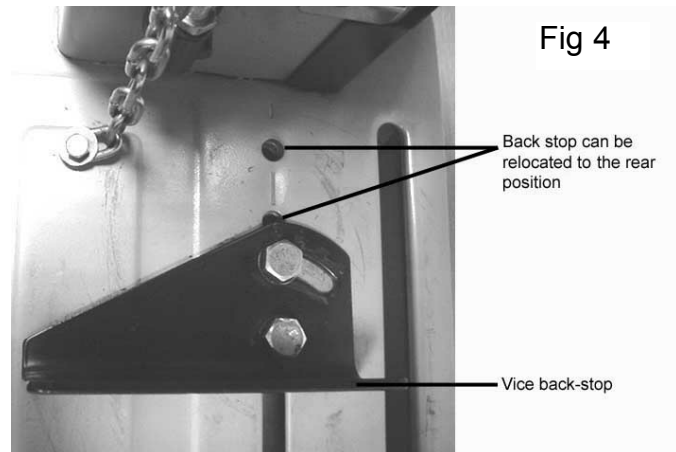
4.2. Adjusting the cutting depth

- 4.2.1. The cutting depth adjustment screw can be moved, in order to change the cutting depth.
- 4.2.2. To change the cutting depth, turn the depth adjustment screw: Clockwise for a depth increase, anticlockwise for a depth decrease. Be sure to tighten the nut afterwards in order to lock the cutting depth adjustment screw in place.



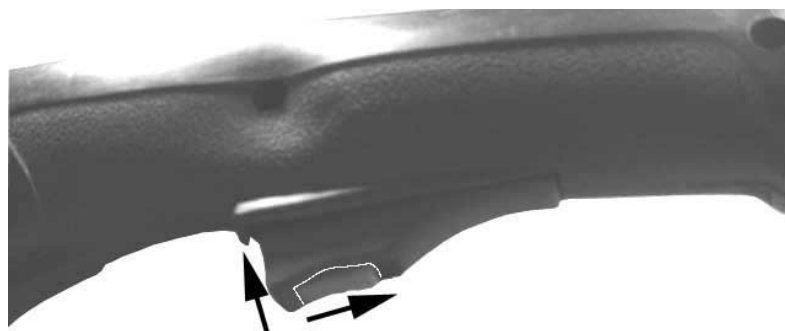
4.3. Securing workpiece

- 4.3.1. Ensure that the saw is unplugged from the power supply and then secure the workpiece in the base vice. We recommend that you place a block of wood (slightly narrower than the workpiece) in the vice below the item to be cut to act as a support.
- 4.3.2. For additional cutting capacity relocate the vice back stop (Fig 4) in the rear vice holes and fully secure.
- 4.3.3. When cutting long workpieces use additional supports along the length.



4.4. On/Off switch

Plug the saw into the power supply and start the saw by depressing the power switch located on the handgrip (Fig 5). Release the switch to stop the saw.



Pull the red safety switch towards the end of the handle.
Now depress the main switch.

4.5. Operation

☐ **WARNING! DO NOT switch on the saw whilst the disc is in contact with the workpiece. Bring the rotating disc to the workpiece.**

4.5.1. The cutting disc must be running at maximum speed before attempting to lower the cutting edge onto the workpiece.

4.5.2. Lower the cutting disc slowly and smoothly down toward the workpiece (avoid jerky movements).

4.5.3. Avoid subjecting the disc to excessive strain. Always ease the disc down against workpiece (a harsh downward impact may cause disc failure) and do not apply undue force on the handle when cutting the workpiece. Maintain a controlled cutting speed.

4.6. Completing the cut

4.6.1. When cutting is complete, fully raise the cutting disc and release the On/Off switch.

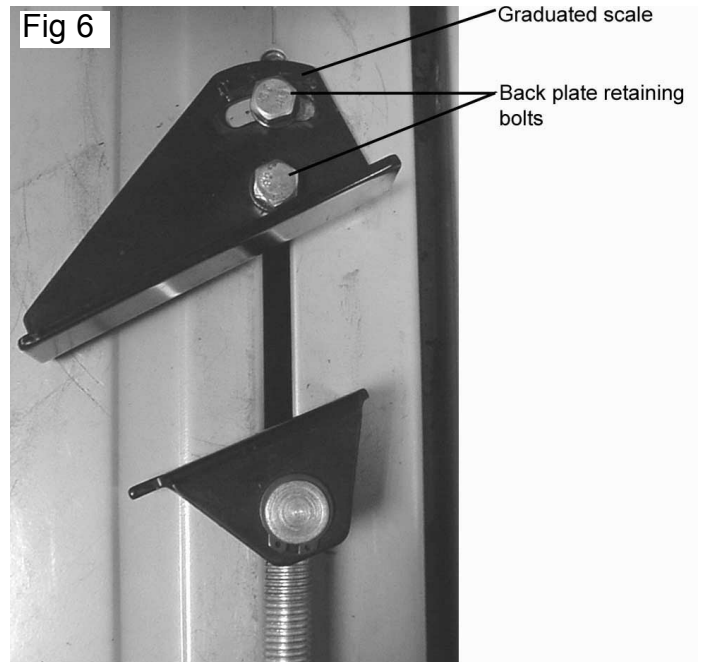
4.6.2. Wait until the disc has stopped rotating before attempting to remove the workpiece.

4.7. Mitre cutting

To cut the workpiece at an angle, the vice on the saw must be adjusted.

4.7.1. To make an angled cut, loosen the vice back plate retaining bolts (Fig 6) and turn the back plate to the required angle, reading the graduated scale around the perimeter of the vice back plate.

4.7.2. Relocate then tighten the retaining bolts and make the cut.



5. CHANGING CUTTING DISC

▲ **DANGER! The use of damaged discs is dangerous and may cause injury.**

☐ **WARNING! Ensure that the saw is unplugged from the power supply before attempting to change the cutting disc.**

Before using a cutting disc ensure that there are no fissures or cracks in it. Once mounted on the saw, test the disc before use by facing the saw in a safe direction (turned away from yourself, others and vulnerable items) and run it for a short time.

IMPORTANT! Cutting discs used with this machine shall be of an adequate speed rating and suitable for the task in hand. Only persons qualified under the "Abrasive Wheels Regulations" and holding a current grinding wheel certificate are to change cutting discs.

5.1. Removing and installing cutting discs

5.1.1. Release safety chain (as described in 4.1.1.)

5.1.2. Undo the butterfly nut and revolve outer disc cover until the holding area becomes visible.

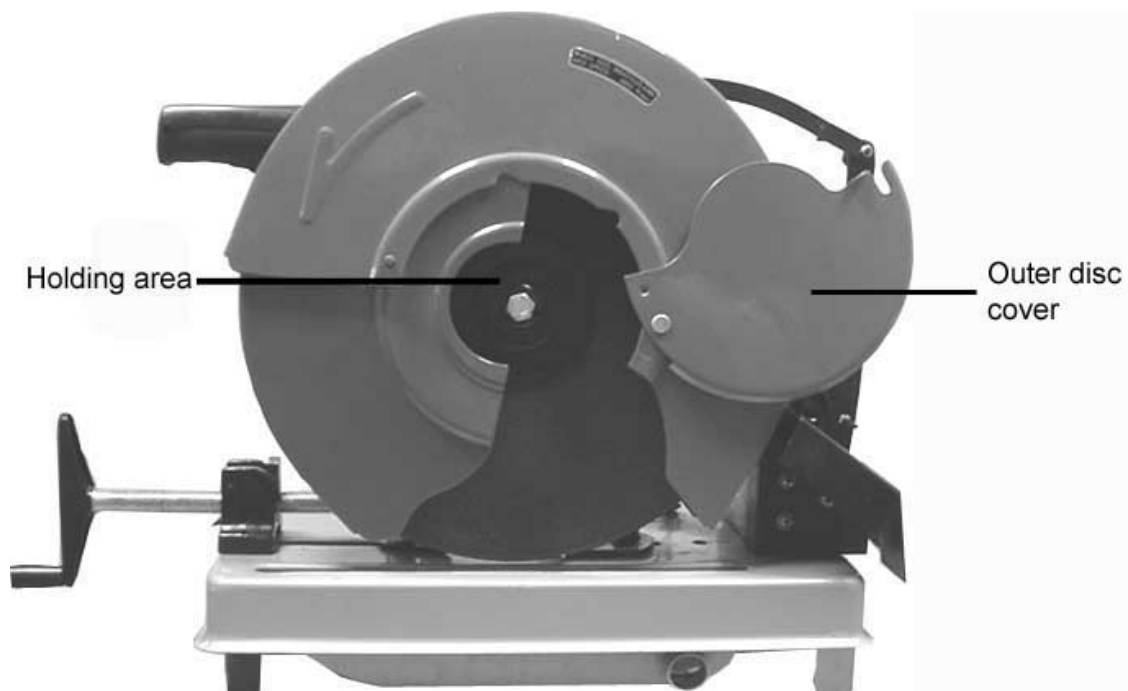
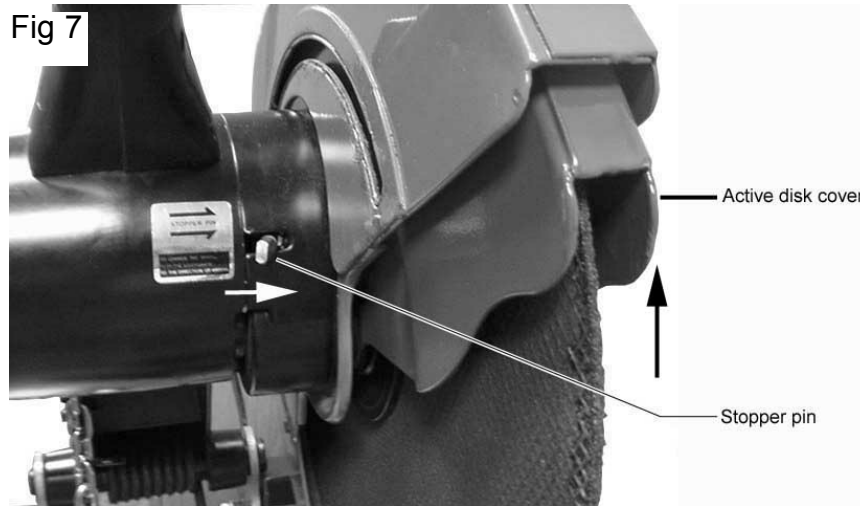


Fig 7

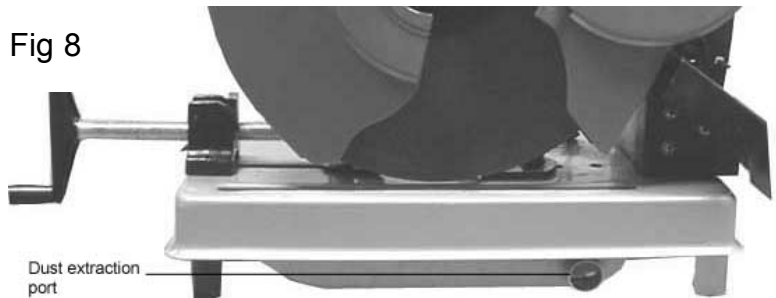


- 5.1.3. Push the active disk cover upwards and into the main section of the safety guard before engaging the stopper pin. Whilst continuing to press on the stopper pin, rotate the disc until the pin is fully engaged and the disk becomes locked in position.
- 5.1.4. Remove the hexagonal screw holding the disc (using the spanner provided), the lock washer, the flat washer, the outer flange, the collar and the disc (if present).
- 5.1.5. Inspect the two disk flanges to ensure they are in good condition. Remove any dirt.
- 5.1.6. Install the inner flange, the disk, the outer flange, the collar, the flat washer, the lock washer and the hexagonal screw. Tighten the hexagonal screw using the spanner provided.
- 5.1.7. Fully release the stopper pin and allow the active disk cover to revert to the closed position. Replace the outer disk cover and screw the butterfly nut back on to secure the cover.

6. DUST EXTRACTION

- 6.1. The MG314 cut off saw comes with a dust extraction port, situated at the base of the cutting table.
- 6.2. Attach dust extractor pipe (not included) to the port (Fig 8).
- 6.3. Activate dust extractor (not included), then activate cut off saw.

Fig 8



7. MAINTENANCE

- WARNING! Ensure that the saw is unplugged from the power supply before attempting any maintenance.**
- 7.1. Regularly clean the dust which accumulates inside the protective guard and on the external parts.
- 7.2. Periodically clean and oil the vice screw.
- 7.3. Change the abrasive disc when it is worn and/or does not operate efficiently.
- 7.4. Before each use, check for obvious signs of damage to the machine. Also check for loose screws and other moving parts, incorrectly mounted or misaligned parts and any other factors that might create an unsafe working environment.
- WARNING! Should excessive noise or vibration occur, cease use immediately. Turn off the machine and disconnect from power supply. Do not use the machine again until the problem has been fully resolved.**

8. DECLARATION OF CONFORMITY

Abrasive Disc Cut-Off Saws
Models MG314/230V & MG314/110V
 73/23/EEC Low Voltage Directive
 89/336/EEC EMC Directive
 98/37/EC Machinery Directive
 93/68/EEC CE Marking Directive

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



Signed by Mark Sweetman

6th March 2003

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.

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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