



CUT-OFF MACHINE Ø150MM 230V WITH DISC

MODEL NO: **SM150D**

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. KEEP THESE INSTRUCTIONS SAFE FOR FUTURE USE.



Refer to instructions



Wear eye protection



Wear protective gloves



Wear ear protection



Wear a mask

1. SAFETY

1.1. ELECTRICAL SAFETY

- ❑ **WARNING!** It is the user's responsibility to check the following:

Check all electrical equipment and appliances to ensure that they are safe before using. Inspect power supply leads, plugs and all electrical connections for wear and damage. Sealey recommend that an RCD (Residual Current Device) is used with all electrical products. You may obtain an RCD by contacting your local Sealey Stockist.

If the product is used in the course of business duties, it must be maintained in a safe condition and routinely PAT (Portable Appliance Test) tested.

Electrical safety information, it is important that the following information is read and understood.

- 1.1.1. Ensure that the insulation on all cables and on the appliance is safe before connecting it to the power supply.
- 1.1.2. Regularly inspect power supply cables and plugs for wear or damage and check all connections to ensure that they are secure.
- 1.1.3. **Important:** Ensure that the voltage rating on the appliance suits the power supply to be used and that the plug is fitted with the correct fuse - see fuse rating in these instructions.

- * **DO NOT** pull or carry the appliance by the power cable.
- * **DO NOT** pull the plug from the socket by the cable. Remove the plug from the socket by maintaining a firm grip on the plug.
- * **DO NOT** use worn or damaged cables, plugs or connectors. Ensure that any faulty item is repaired or replaced immediately by a qualified electrician.

- 1.1.4. This product is fitted with a BS1363/A 13 Amp 3 pin plug.

If the cable or plug is damaged during use, switch off the electricity supply and remove from use. Replace a damaged plug with a BS1363/A 13 Amp 3 pin plug. If in doubt contact a qualified electrician.

Class II products are wired with live (brown) and neutral (blue) only are marked with the Class II symbol;



A) Connect the BROWN live wire to the live terminal 'L'.

B) Connect the BLUE neutral wire to the neutral terminal 'N'.

C) After wiring, check that there are no bare wires and ensure that all wires have been correctly connected.

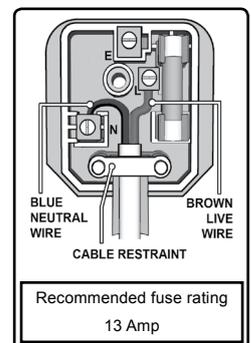
Ensure that the cable outer sheath extends inside the cable restraint and that the restraint is tight.

- * **DO NOT** connect either wire to the earth terminal.

Sealey recommend that repairs are carried out by a qualified electrician.

1.2. GENERAL SAFETY

- ❑ **WARNING!** Disconnect the cut-off machine 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 cut-off machine 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 cut-off machine 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 cut-off machine 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 competent persons should attempt to change cutting discs.
- ✓ Ensure that replacement discs are not damaged in any way - cracks or deformations etc. Also check the mounting flanges to check that they are not deformed, burred or chipped. **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 disc's specified maximum speed is equal to, or higher than, that indicated on the machine data plate. Once mounted on the cut-off machine, test the disc before use by facing the cut-off machine in a safe direction (point disc away from yourself, others and vulnerable items) by 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 cut-off machine 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 cut-off machine, and **DO NOT** position your body in line with the disc.



- ✓ 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 cut-off machine whilst the disc is in contact with the workpiece. Bring the rotating disc to the workpiece.
- ✓ Avoid un-intentional starting of the cut-off machine.
- ✗ **DO NOT** hold the workpiece by hand. Use base vice to secure the workpiece.
- ✗ **DO NOT** use the cut-off machine for a task it is not designed to perform.
- ✗ **DO NOT** allow untrained persons to operate the cut-off machine.
- ✗ **DO NOT** get the machine wet, or use in damp or wet locations or areas where there is condensation.
- ☐ **WARNING! DO NOT** use the cut-off machine where there are flammable liquids, solids or gases such as paint solvents and including waste wiping rags etc.
- ✗ **DO NOT** operate the cut-off machine if any parts are missing or damaged as this may cause failure and/or personal injury.
- ✗ **DO NOT** remove the safety guard whilst the cut-off machine is in use.
- ✗ **DO NOT** attempt to remove a workpiece until the disc has stopped rotating.
- ✗ **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.
- ✗ **DO NOT** leave the cut-off machine operating unattended.
- ✗ **DO NOT** operate the cut-off machine when you are tired or under the influence of alcohol, drugs or intoxicating medication.
- ✓ When not in use switch off the cut-off machine and remove the plug from the power supply.
- ✓ To move the cut-off machine, lock the machine head with the locking plate and lift by the handle.

2. INTRODUCTION

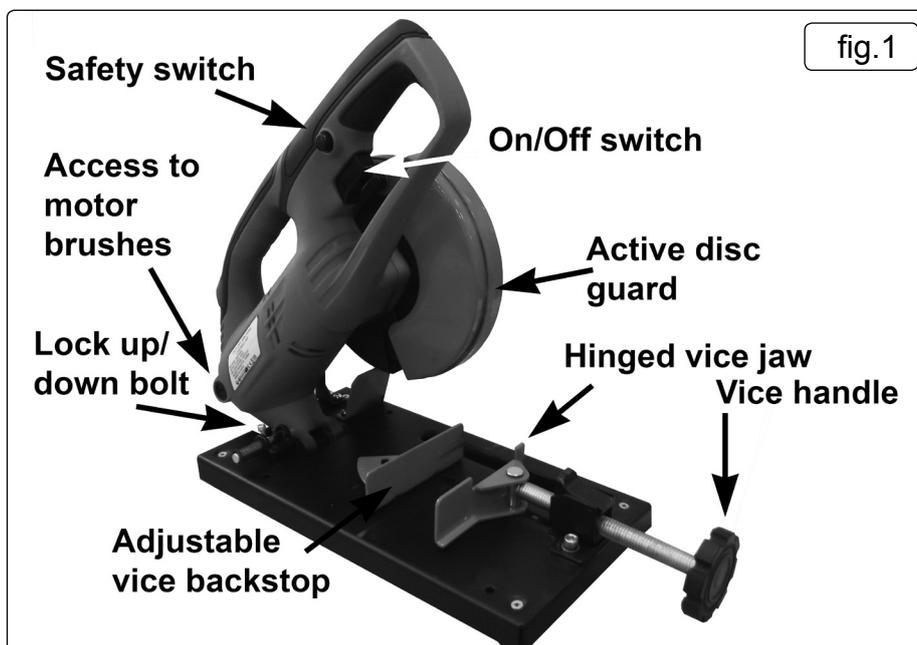
General purpose cut off saw suitable for semi-professional use or for the home enthusiast. Lightweight and easily transported with integral carry handle. Fitted with Ø150mm abrasive disc suitable for metal cutting. Powered by a 610W motor. Pressed steel base and saw arm with mitring vice. Fully guarded and fitted with dead man's trigger control to prevent accidental starting.

3. SPECIFICATION

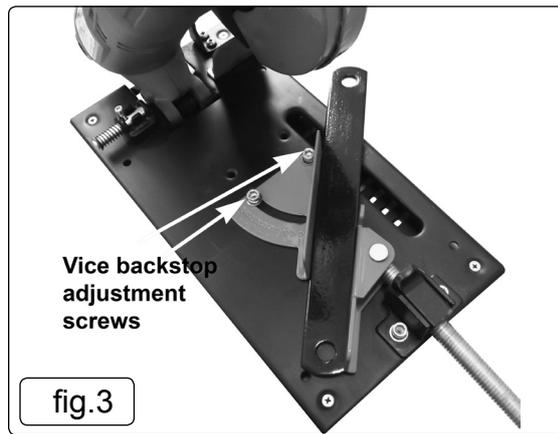
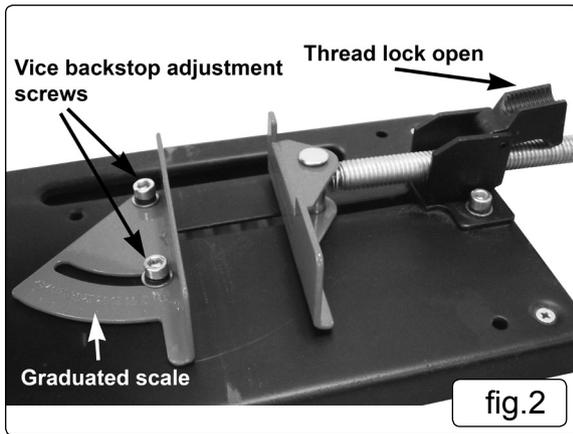
Model No:.....	SM150D
Consumable Parts:.....	PTC/150C - Cutting Disc
Cutting Capacity 45° (Angle):.....	21mm
Cutting Capacity 45° (Bar):.....	30mm
Cutting Capacity 45° (Box):.....	30 x 30mm
Cutting Capacity 45° (Pipe):.....	Ø32mm
Cutting Capacity 45° (Rectangle Box):.....	30 x 25mm
Cutting Capacity 90° (Angle):.....	25mm
Cutting Capacity 90° (Bar):.....	27mm
Cutting Capacity 90° (Box):.....	27 x 27mm
Cutting Capacity 90° (Pipe):.....	Ø32mm
Cutting Capacity 90° (Rectangle Box):.....	32 x 27mm
Disc Size:.....	Ø150mm
Motor Power:.....	610W
Nett Weight:.....	4.8kg
No Load Speed:.....	9000rpm
Supply:.....	230V

4. CONTENTS

Unpack the product and check the contents. Ensure that there is no damage. If any problem is noted, contact your supplier immediately.



5. OPERATION



- ❑ **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.

5.1. USING THE LOCK UP/DOWN BOLT. (REFER TO FIG.1)

- 5.1.1. When not in use or when being transported the cutting arm should always be locked down. To lock the arm down, pull it to its lowest position against the return spring pressure until it is solidly against the stop. Push the bolt in and turn through 90° to secure.

5.2. SECURING THE WORKPIECE.

- 5.2.1. Ensure that the saw is unplugged from the power supply.
- 5.2.2. Check that the back stop is at 90° to the cutting disc using a set square. Ensure the back stop fixings are tight using the hex key provided.
- 5.2.3. To move the other jaw up to the workpiece quickly, flip the thread lock open as shown in fig.2 and slide the jaw face up to the workpiece. Flip the thread lock back down and tighten the workpiece in the vice.
- 5.2.4. When cutting long workpieces use additional supports along the length.

5.3. MITRE CUTTING

- 5.3.1. To cut at an angle loosen the vice backstop screws (see fig.3), by turning them anticlockwise. Align to the desired angle using the graduated scale on the base plate shown in fig.3, and retighten the vice backstop adjustment screws. Place the workpiece against the backstop and move the other jaw up to it, and securely tighten.

5.4. ON/OFF SWITCH

(Refer to fig.1)

- 5.4.1. The On/Off switch is locked in the Off position. To turn on the saw you must press in the safety button with your thumb before pulling the switch upwards. The switch is spring loaded and must be held in the up position in order for the saw to continue running. As soon as the pressure on the switch is released the saw will turn off.

5.5. OPERATION

- ❑ **WARNING! DO NOT** switch on the cut-off machine whilst the cutting disc is in contact with the workpiece. Bring the rotating disc to the workpiece.
- 5.5.1. The cutting disc must be running at maximum speed before attempting to lower the cutting edge onto the workpiece.
- 5.5.2. Lower the cutting disc slowly and smoothly down towards the workpiece (avoid jerky movements).
- 5.5.3. Avoid subjecting the disc to excessive strain. Always ease the disc down against the 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.
- 5.5.4. When cutting is complete, fully raise the cutting disc and release the On/Off switch.
- 5.5.5. Wait until the disc has stopped rotating before attempting to remove the workpiece.

6. CHANGING THE DISCS

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

- ❑ **WARNING!** Ensure that the cut-off machine is unplugged from the power supply before attempting to change the cutting disc.

- 6.1. **IMPORTANT!** Cutting discs used with this machine shall be of an adequate speed rating and suitable for the task in hand. Order from your stockist quoting model no: SM150D.

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

6.2. REMOVING AND INSTALLING CUTTING DISCS (Refer to figs. 4,5 and 6).

NOTE: Removing and installing discs is to be undertaken by competent persons.

- 6.2.1. Lift the arm into the up position.
- 6.2.2. Remove three screws (fig.4/1) which hold the active disc guard in position. Note the orientation and relative positions of the spacer washer and mounting plate. Pull the active disc guard forward and then lay it behind the machine (fig.5/4). Remove the static disc guard screw (fig.4/2). Remove the active disc guard control rod screws fig.4/3) to allow the active disc guard to be removed completely.
- 6.2.3. Use the 12mm open ended spanner (fig.5/5) placed through the aperture (fig.5/6) in the casing of the machine to engage with the flats on the drive spindle.
- 6.2.4. Spin the static disc guard to its vertical position (fig.6/7). Use the clamping washer removal spanner (fig.6/8) to undo the washer and remove the cutting disc, whilst holding the drive spindle stationary.
- 6.2.5. Fit a new disc after having first inspected it for damage. **DO NOT** overtighten the clamping washer.

6.2.6. Refit and secure the static disc guard and the active disc guard. Refer to 6.1.1 for the testing procedure after fitting a new disc.

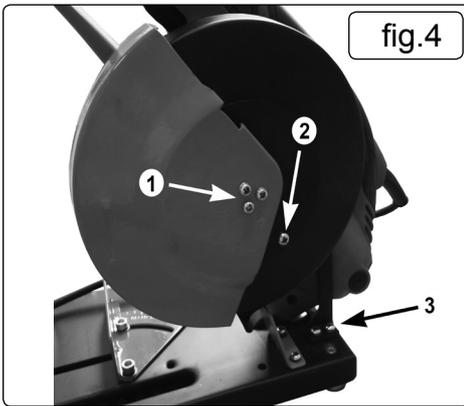


fig.4

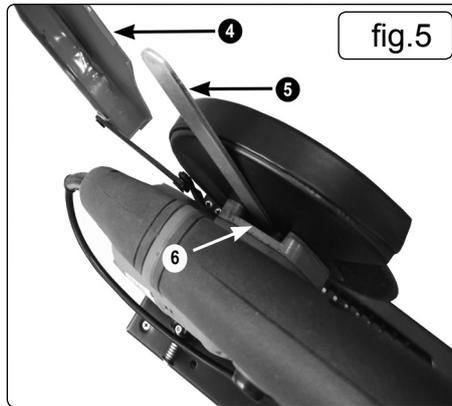


fig.5

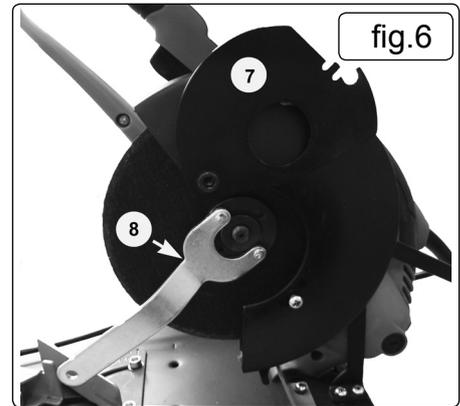


fig.6

7. MAINTENANCE

- ❑ **WARNING!** Ensure that the cut-off machine is unplugged from the power supply before attempting any maintenance.
- 7.1. Regularly clean the dust which accumulates inside the protective guards and on the external parts.
- 7.2. Periodically clean and oil the vice screw.
- 7.3. Change the cutting 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 machine and disconnect from power supply.
- ✘ **DO NOT** use the machine again until the problem has been fully resolved.
- 7.5. **CHANGING THE MOTOR BRUSHES.**
- 7.5.1. The motor brushes should be checked periodically for wear and renewed when worn down or pitted. The brushes can be accessed either side of the motor casing as seen in fig.1.
- 7.5.2. Unscrew the plastic covers and withdraw the brush assemblies for inspection.
- 7.5.3. Insert the new brush into the keyway. Place the plastic cap over the head of the brush assembly and press the spring downwards. Screw the caps back into position.



ENVIRONMENT PROTECTION

Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. When the product becomes completely unserviceable and requires disposal, drain any fluids (if applicable) into approved containers and dispose of the product and fluids according to local regulations.



WEEE REGULATIONS

Dispose of this product at the end of its working life in compliance with the EU Directive on Waste Electrical and Electronic Equipment (WEEE). When the product is no longer required, it must be disposed of in an environmentally protective way. Contact your local solid waste authority for recycling information.

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 is required for any claim.

Sealey Group, Kempson Way, Suffolk Business Park, Bury St Edmunds, Suffolk. IP32 7AR



01284 757500



01284 703534



sales@sealey.co.uk



www.sealey.co.uk



EC DECLARATION OF CONFORMITY

Description and Function: **Cut-Off Machine Ø150mm 230V with Disc**

Model/Type: **SM150D v1**

Manufacturing Date/Serial Number where applicable:

2014/30/EU EMC Directive

2006/42/EC Machinery Directive

2011/65/EU RoHS Directive

This declaration of conformity is issued under the sole responsibility of the manufacturer:

Jack Sealey Ltd, Kempson Way, Suffolk Business Park, Bury St Edmunds, Suffolk. IP32 7AR

Declaration of Conformity in accordance with the above Directive(s).

References to harmonised standard(s)

EN 55014-1:2006+A1:2009+A2:2011..... EN 61029-1:2009+A11:2010

EN 55014-2:2015 EN 61029-2-10:2010+A11:2013.....

EN 61000-3-2:2014

EN 61000-3-3:2013

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Technical file compiled by: **Jack Sealey Ltd**

Being the responsible person appointed by the manufacturer.

Signed *Steve Buckle*.....

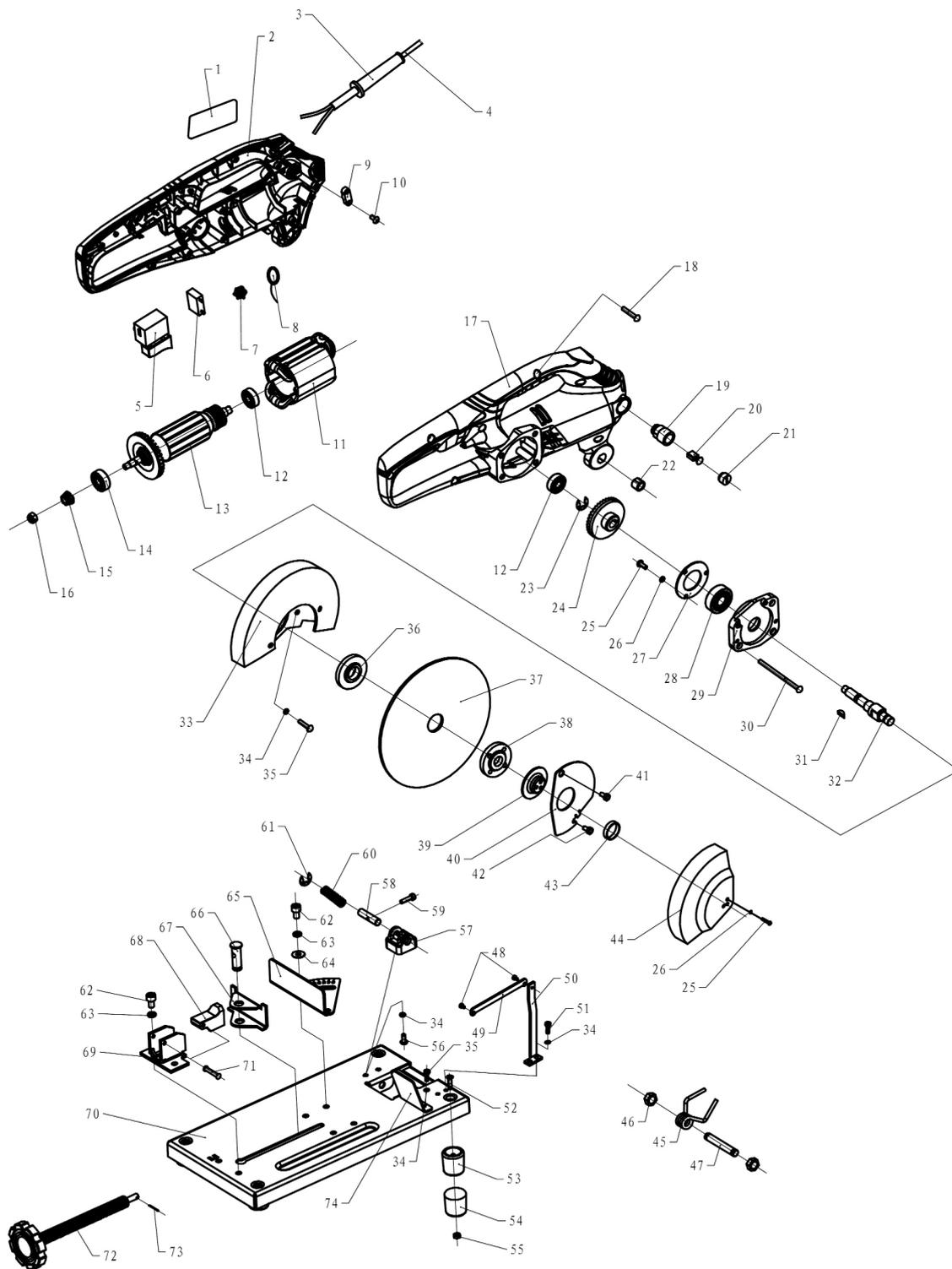
Date 26 November 2018.....

Name Steve Buckle.....

Position Marketing Director.....

Place: Bury St Edmunds

Sealey Group, Kempson Way, Suffolk Business Park, Bury St Edmunds, Suffolk. IP32 7AR
 01284 757500 01284 703534 sales@sealey.co.uk www.sealey.co.uk



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Parts Information: Cut-Off Machine Ø150mm 230V with Disc Model No: SM150D

Item	Part No.	Description
1	SM150D.01	LABEL
2	SM150D.02	HOUSING, LEFT
3	SM150D.03	CABLE SLEEVE
4	SM150D.04	CABLE
5	SM150D.05	SWITCH
6	SM150D.06	CAPACITOR (0.33uF)
7	SM150D.07	INDUCTANCE
8	SM150D.08	TENSION SPRING
9	SM150D.09	CABLE GRIP
10	SM150D.10	SCREW (ST4x14)
11	SM150D.11	STATOR
12	B/608ZZ	BEARING 608ZZ
13	SM150D.13	ROTOR
14	B/628ZZ	BEARING 628ZZ
15	SM150D.15	GEAR (SMALL)
16	SN6.S	STEEL NUT M6 ZINC DIN934 (SINGLE)
17	SM150D.17	HOUSING, RIGHT
18	SM150D.18	SCREW (ST4x16)
19	SM150D.19	BRUSH HOLDER
20	SM150D.20	CARBON BRUSH
21	SM150D.21	BRUSH HOLDER CAP
22	SM150D.22	BUSH (12x8x8)
23	SM150D.23	SPINDLE DEFLECTOR
24	SM150D.24	GEAR (BIG)
25	SM150D.25	SCREW (M4x12)
26	FWM4.S	FLAT WASHER M4 SINGLE
27	SM150D.27	BEARING COVER
28	B/6201ZZ	BEARING 6201ZZ
29	SM150D.29	FRONT COVER
30	SM150D.30	SCREW (ST4x45)
31	SM150D.31	WOODRUFF KEY
32	SM150D.32	SPINDLE
33	SM150D.33	GUARD
34	FWM5.S	FLAT WASHER M5 SINGLE
35	SM150D.35	SCREW (M5x10)
36	SM150D.36	INNER FLANGE DISC
37	PTC/150C	CUTTING DISC 150 x 1.6mm 22mm BORE
38	SM150D.38	OUTER FLANGE DISC

Item	Part No.	Description
39	SM150D.39	INTERMEDIATE COVER
40	SM150D.40	INTERMEDIATE PLATE
41	SM150D.41	SCREW (M6x10)
42	SM150D.42	SCREW (M5x12)
43	SM150D.43	LOCATING RING
44	SM150D.44	MOVEABLE GUARD
45	SM150D.45	SPRING
46	SN8.S	STEEL NUT M8 ZINC DIN934 (SINGLE)
47	SM150D.47	FIXED PIN
48	SM150D.48	RIVET
49	SM150D.49	MOVABLE ROD
50	SM150D.50	HOLDING ROD
51	MSP514.S	MACHINE SCREW PAN HEAD PHILLIPS M5x14mm
52	SM150D.52	CSK HEAD MACHINE SCREW M4X18
53	SM150D.53	RUBBER SUPPORT
54	SM150D.54	COVER FOR RUBBER SUPPORT
55	SN4.S	STEEL NUT M4 ZINC DIN934 (SINGLE)
56	SM150D.56	HEAD SCREW (M5x8)
57	SM150D.57	SELF LOCKING SUPPORT
58	SM150D.58	SELF LOCKING PIN
59	SM150D.59	SCREW (M4x14)
60	SM150D.60	SPRING
61	SM150D.61	SPINDLE DEFLECTOR
62	SM150D.62	SCREW (M6x12)
63	LS1050V.27	WASHER M6
64	LS1050V.27	WASHER M6
65	SM150D.65	SCALE PLATE
66	SM150D.66	PIN
67	SM150D.67	MOVABLE CLAMP
68	SM150D.68	NUT
69	SM150D.69	SUPPORT
70	SM150D.70	BASE
71	SM150D.71	RIVET
72	SM150D.72	CLAMPING SCREW
73	SM150D.73	SPLIT PIN (3x25)
74	SM150D.74	DUST GUARD
--	SG115.V2-53	PIN SPANNER (NOT SHOWN)

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sales@sealey.co.uk



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