

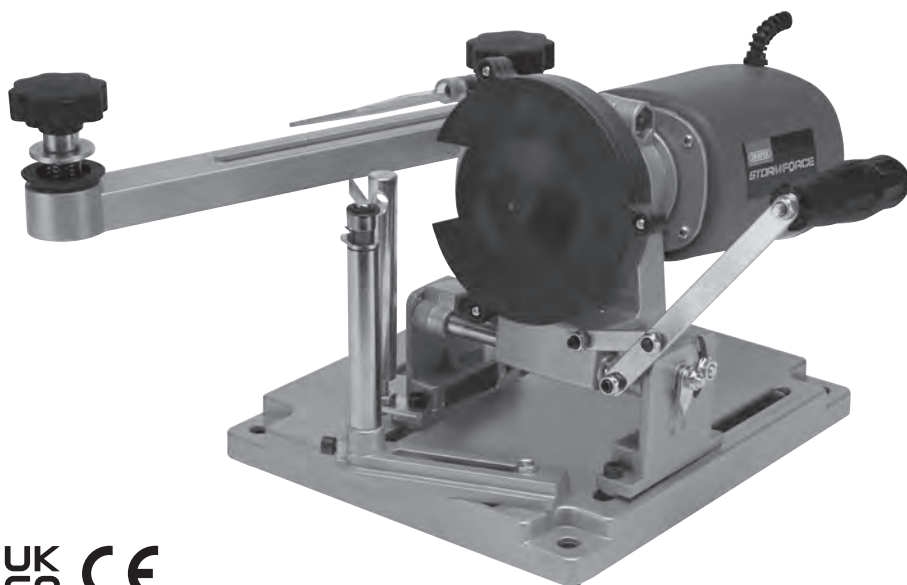


**STORMFORCE**

230V

# CIRCULAR SAW BLADE SHARPENER

98486



These instructions accompanying the product are the original instructions. This document is part of the product, keep it for the life of the product passing it on to any subsequent holder of the product. Read all these instructions before assembling, operating or maintaining this product.

This manual has been compiled by Draper Tools describing the purpose for which the product has been designed, and contains all the necessary information to ensure its correct and safe use. By following all the general safety instructions contained in this manual, it will ensure both product and operator safety, together with longer life of the product itself.

All photographs and drawings in this manual are supplied by Draper Tools to help illustrate the operation of the product.

Whilst every effort has been made to ensure the accuracy of information contained in this manual, the Draper Tools policy of continuous improvement determines the right to make modifications without prior warning.

# 1. TITLE PAGE

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## 1.1 INTRODUCTION:

**USER MANUAL FOR: 230V Circular Saw Blade Sharpener**

**Stock No: 98486**

**Part No: SHP-TCT**

## 1.2 REVISIONS:

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**Date first published November 2021.**

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As our user manuals are continually updated, users should make sure that they use the very latest version.

**Downloads are available from:** <http://drapertools.com/manuals>

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## 1.3 UNDERSTANDING THIS MANUALS SAFETY CONTENT:

**Warning!** – Information that draws attention to the risk of injury or death.

**Important** – Information that draws attention to the risk of damage to the product or surroundings.

## 1.4 COPYRIGHT © NOTICE:

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## 2. CONTENTS

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### 2.1 TABLE OF CONTENTS

#### 1. TITLE PAGE

1.1	INTRODUCTION.....	2
1.2	REVISIONS.....	2
1.3	UNDERSTANDING THIS MANUALS SAFETY CONTENT .....	2
1.4	COPYRIGHT © NOTICE.....	2

#### 2. CONTENTS

2.1	TABLE OF CONTENTS .....	3
-----	-------------------------	---

#### 3. WARRANTY

3.1	WARRANTY .....	4
-----	----------------	---

#### 4. INTRODUCTION

4.1	SCOPE.....	5
4.2	SPECIFICATION.....	5
4.3	HANDLING AND STORAGE.....	5

#### 5. HEALTH AND SAFETY INFORMATION

5.1	GENERAL SAFETY INSTRUCTIONS FOR POWER TOOL USE .....	6
5.2	SPECIFIC SAFETY INSTRUCTION FOR BENCH GRINDERS.....	7
5.3	SAFETY RECOMMENDATIONS FOR THE CORRECT USE OF ABRASIVE PRODUCTS .....	8
5.4	SAFETY RECOMMENDATIONS FOR THE CORRECT USE OF SUPERABRASIVES .....	9
5.5	RESIDUAL RISK.....	10
5.6	CONNECTION TO THE POWER SUPPLY.....	10

#### 6. TECHNICAL DESCRIPTION

6.1	IDENTIFICATION.....	11
-----	---------------------	----

#### 7. UNPACKING AND CHECKING

7.1	PACKAGING .....	12
-----	-----------------	----

#### 8. PREPARATION

8.1	BENCH MOUNTING.....	13
8.2	MOUNTING A SAW BLADE.....	13
8.3	GRINDING SET UP AND ADJUSTMENT .....	14
8.4	ADJUSTMENT EXAMPLES FOR DIFFERENT SAW BLADE DIAMETERS .....	16
8.5	DEPTH GAUGE.....	16
8.6	TILTING THE MOTOR BLOCK.....	17
8.7	SAW BLADE SUPPORT .....	17

#### 9. OPERATION

9.1	SHARPENING SAW BLADES .....	18
-----	-----------------------------	----

#### 10. MAINTENANCE

10.1	REPLACING THE GRINDING WHEEL.....	19
10.2	MAINTENANCE .....	19

#### 11. DISPOSAL

11.1	DISPOSAL .....	20
------	----------------	----

#### 12. EXPLANATION OF SYMBOLS

12.1	EXPLANATION OF SYMBOLS.....	21
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## 3. WARRANTY

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### 3.1 WARRANTY

Draper tools have been carefully tested and inspected before shipment and are guaranteed to be free from defective materials and workmanship.

Should the tool develop a fault, please return the complete tool to your nearest distributor or contact:

**Draper Tools Limited, Chandler's Ford, Eastleigh, Hampshire, SO53 1YF. England.**

**Telephone Sales Desk: +44 (0) 8049 4333 or Product Help Line +44 (0) 23 8049 4344.**

A proof of purchase **must** be provided with the tool.

If upon inspection it is found that the fault occurring is due to defective materials or workmanship, repairs will be carried out free of charge. This warranty period covering parts/labour is 24 months from the date of purchase except where tools are hired out when the warranty period is 90 days from the date of purchase. This warranty does not apply to any consumable parts, any type of battery or normal wear and tear, nor does it cover any damage caused by misuse, careless or unsafe handling, alterations, accidents, or repairs attempted or made by any personnel other than the authorised Draper warranty repair agent.

**Note:** If the tool is found not to be within the terms of warranty, repairs and carriage charges will be quoted and made accordingly.

This warranty applies in lieu of any other warranty expressed or implied and variations of its terms are not authorised.

Your Draper warranty is not effective unless you can produce upon request a dated receipt or invoice to verify your proof of purchase within the warranty period.

Please note that this warranty is an additional benefit and does not affect your statutory rights.

**Draper Tools Limited.**

# 4. INTRODUCTION

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## 4.1 SCOPE

This 230V bench mounted product is primarily used for sharpening TCT circular saw blades. It can also be used for the same purpose with other types of circular saw blade. It's adjustable angle feature caters to various sizes of disc from 90mm to 400mm.

This product is intended for domestic and infrequent light trade use only. Any application other than that it was intended for, is considered misuse.

## 4.2 SPECIFICATION

Stock No. ....	98486
Part No .....	SHP-TCT
Rated Voltage .....	230V~50Hz
Rated input .....	110W
Grinding wheel	
Diameter .....	100mm
Width .....	1.2mm
Bore .....	20mm
Saw blade sharpening size capacity .....	90mm – 400mm
Sound pressure level (LpA) .....	69.0dB(A)
Sound power level (LwA).....	82.0dB(A)
Uncertainty (K) .....	3dB(A)
Speed (no load) .....	5,700 r/min
Weight (nett) .....	5.4kg

## 4.3 HANDLING AND STORAGE

- Care must be taken when handling this product.
  - Dropping this power tool could have an effect on its accuracy and could also result in personal injury. This product is not a toy and must be respected.
- Environmental conditions can have a detrimental effect on this product if neglected.
  - Exposure to damp air can gradually corrode components. If the product is unprotected from dust and debris, components will become clogged.
  - If not cleaned and maintained correctly or regularly, the machine will not perform at its best.

## 5. HEALTH AND SAFETY INFORMATION

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### 5.1 GENERAL SAFETY INSTRUCTIONS FOR POWER TOOL USE

**Warning! Read all safety warnings, instructions, illustrations and specifications provided with this power tool.** Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

**Save all warnings and instructions for future reference.**

The term “power tools” in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

#### 1) Work area safety

- a) **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- b) **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
- c) **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

#### 2) Electrical safety

- a) **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce risk of electric shock.
- b) **Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
- c) **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- d) **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.
- e) **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.
- f) **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.

#### 3) Personal safety

- a) **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
- b) **Use personal protective equipment Always wear eye protection.** Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection use for appropriate conditions will reduce personal injuries.
- c) **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.
- d) **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- e) **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- f) **Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.

## 5. HEALTH AND SAFETY INFORMATION

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- g) **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of dust collection can reduce dust-related hazards.
- h) **Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.** A careless action can cause severe injury within a fraction of a second.

### 4) Power tool use and care

- a) **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.
- b) **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- c) **Disconnect the plug from the power source and/or remove the battery pack, if detachable, from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
- d) **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
- e) **Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
- f) **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- g) **Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.
- h) **Keep handles and grasping surfaces dry, clean and free from oil and grease.** Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

### 5) Service

- a) **Have your power tool serviced by a qualified repair person using only identical replacements parts.** This will ensure that the safety of the power tool is maintained.

## 5.2 SPECIFIC SAFETY INSTRUCTION FOR BENCH GRINDERS

- Check that speed marked on the wheel is equal to or greater than the rated speed of the grinder.
- Ensure that the wheel dimensions are compatible with the grinder.
- Abrasive wheels shall be stored and handled with care in accordance with manufacturer's instructions.
- Inspect the grinding wheel before use, do not use chipped, cracked or otherwise defective products.
- Ensure that mounted wheels and points are fitted in accordance with the manufacturer's instructions.
- Ensure that blotters are used when they are provided with the bonded abrasive product and when they are required.
- Ensure that the abrasive product is correctly mounted and tightened before use and run the tool at no-load speed for 30 seconds in a safe position – stop immediately if there is considerable

## 5. HEALTH AND SAFETY INFORMATION

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vibration or if other defects are detected. If this condition occurs, check the machine to determine the cause.

- Never use the tool without such a guard.
- Do not use separate reducing bushings or adaptors to adapt large hole abrasive wheels.
- For tools intended to be fitted with threaded hole wheel, ensure that the thread in the wheel is long enough to accept the spindle length.
- Check that the work piece is properly supported.
- Do not use cutting wheel for side grinding.
- Ensure that sparks resulting from use do not create a hazard – e.g. do not hit persons or ignite flammable substances.
- Ensure that ventilation openings are kept clear when working in dusty conditions. If it should become necessary to clear dust, first disconnect the tool from the mains supply (use non metallic objects) and avoid damaging internal parts.
- Always use eye and ear protection.
- Personal protective equipment such as dust mask, gloves, helmet and apron should be worn.
- The wheel continues to rotate after the tool is switched off.
- Stay alert. Watch what you are doing. Use common sense. Do not operate tool when you are tired.

**Wear proper clothing.** Do not wear loose clothing, neckties or jewellery (ring, wristwatches etc.) to catch in moving parts. Non-slip footwear is recommended. Wear protective covering to contain long hair. Roll long sleeves above the elbow.

**Use safety goggles (Head protection).** Wear goggles approved to the relevant standards at all times. Normal spectacles only have impact resistant lenses, they are **NOT** safety glasses. Also, use face or dust mask if application is dusty and ear protectors during all operations.

**Sound levels.** Some types of machines may have high sound levels when working. In such cases ear protection must be worn.

**Vibration levels.** Hand held power tools produce different vibration levels. You should always refer to the specifications and the relevant Health and Safety guidelines.

**Dust extraction.** If your tool is fitted with a dust extraction facility, always ensure that it is connected and being used with a dust extractor. Vacuum cleaners can be used if suitable for the material being extracted.

**Check damaged parts.** Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function;

- Check for alignment of moving parts, free running of moving parts, breakage of parts, mounting and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced by an authorised service centre unless otherwise indicated in this instruction manual.
- Have defective switches replaced by an authorised service centre. **Do not use the tool if the switch does not turn it on and off.**

**Have your tool repaired by a qualified person.** This electric tool is in accordance with the relevant safety requirements. Repairs should only be carried out by qualified persons using original spare parts, otherwise this may result in considerable danger to the user.

### 5.3 SAFETY RECOMMENDATIONS FOR THE CORRECT USE OF ABRASIVE PRODUCTS

**General.** Bonded abrasive products are breakable and shall therefore be handled with utmost care. The use of damaged or improperly mounted or used abrasive products is dangerous and can cause serious injuries.



## 5. HEALTH AND SAFETY INFORMATION

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**Delivery, handling and storage.** Abrasive products must be handled and transported with care. Abrasive products must be stored in such a manner that they are not subjected to mechanical damaged and harmful environmental influences.

**Selection of the abrasive product.** Information on the label or the abrasive product stating restrictions of use, safety indications or any other instructions must be followed. In case of doubt concerning the selection of abrasive products, the user shall request information from the manufacturer or supplier.

**Visual inspection and ring test.** Abrasive products must be subjected to a visual inspection as received before mounting. In addition, a ring test shall be executed for vitrified wheels with  $D > 80\text{mm}$ . Damaged abrasive products shall be destroyed.

**Mounting before starting and information for grinding.** The mounting of abrasive products shall be carried out according to the instructions provided by both the wheel and the machine manufacturer. Mounting of abrasive products must be carried out by a qualified trained person. After initial mounting, the wheel must be test run for a reasonable time – the specified maximum operating speed of the wheel shall not be exceeded.

**Further information.** The following instructions must be observed, supplementary to the information contained in the instruction for use of the grinding machine:

- Observance of the user's information from the grinding machine manufacturer.
- Safety devices shall be mounting to the machine and shall be secured.
- No grinding operations without protection by safety devices.
- Use of personal protective equipment according to the type of machine and type of application, e.g. eye and face protection, ear protection, respiratory protective devices, protective footwear, protective gloves and other protective clothing.
- Only grinding operations for which the abrasive product is suitable shall be carried out (taking into account restrictions of use, safety indications or other information).
- Jamming of the hand-held grinding machine shall be prevented. In the case of cutting-off with hand-held grinding machines, the abrasive product shall be placed in the cutting gap in a straight position.
- Before placing the hand-held grinding machine on the workbench or on the floor it shall be turned off and it shall be ensured that the abrasive product has stopped.

### 5.4 SAFETY RECOMMENDATIONS FOR THE CORRECT USE OF SUPERABRASIVES

**General.** Superabrasives are breakable and shall therefore be handled with utmost care! The use of damaged or improperly mounted or used superabrasives is dangerous and can cause serious injuries.

**Delivery, handling and storage.** Superabrasives shall be handled and transported with care. Superabrasives shall be stored in such a manner that they are not subjected to mechanical damages and harmful environmental influences.

**Selection of superabrasives.** Information on the label or the superabrasive as well as restrictions of use, safety indications or any other instruction shall be followed. In case of doubt concerning the selection of superabrasives, the user shall request information from the manufacturer or supplier.

**Visual inspection and ring test.** Superabrasives shall be subjected to a visual inspection as received before mounting. In addition, a ring test shall be executed for superabrasives with vitrified core and abrasive section and  $D > 80\text{mm}$ . Damaged superabrasives shall not be used.

**Mounting, before starting and information for grinding.** The mounting of superabrasive shall be carried out according to the instructions provided by both, the superabrasive and the machine manufacturer. Special attention shall be drawn to the fact that mounting of superabrasives is to be carried out by a qualified trained person. Each time after mounting, the superabrasive shall be test run for a reasonable time – the specified maximum operating speed of the superabrasive shall not be exceeded.

## 5. HEALTH AND SAFETY INFORMATION

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**Further information.** The following instructions shall be observed, supplementary to the information of the grinding machine:

- Observance of the user's information of grinding machine manufacturer.
- Before starting, safety devices shall be mounted to the machine.
- No grinding operations without protection by safety devices.
- Use of personal protective equipment according to the type of machine and type of application, e.g. eye and face protection, ear protection, respiratory protection devices, protective footwear, protective gloves and other protective clothing.
- Only grinding operations for which the superabrasive is suitable shall be carried out (taking into account restrictions of use, safety indications or other information).
- In the case of cutting-off with hand-held grinding machines, the superabrasive shall be placed in the cutting gap in a straight position. Jamming of the hand-held grinding machine shall be prevented.
- Before placing the hand-held grinding machine on the workbench or on the floor it shall be turned off and it shall be ensured that the abrasive product has stopped.

### 5.5 RESIDUAL RISK

**Important:** Although the safety instructions and operating manuals for our tools contain extensive instructions of safe working with power tools, every power tool involves a certain residual risk which can not be completely excluded by safety mechanisms. Power tools must therefore always be operated with caution!

### 5.6 CONNECTION TO THE POWER SUPPLY

**Caution:** Risk of electric shock. Do not open.

This appliance is supplied with an approved plug and cable for your safety. The value of the fuse fitted is marked on the pin face of the plug. Should the fuse need replacing, ensure the substitute is of the correct rating, approved to BS1362 and ASTA or BS Kite marked.

ASTA 

BSI 


The fuse cover is removable with a small plain slot screwdriver. Ensure the fuse cover is replaced before attempting to connect the plug to an electrical outlet. If the cover is missing, a replacement must be obtained or the plug replaced with a suitable type.

If a replacement plug is to be fitted this must be carried out by a qualified electrician.

The damaged or incomplete plug, when cut from the cable should be disabled to prevent connection to a live electrical outlet.

This appliance is Class II† and is designed for connection to a power supply matching that detailed on the rating label and compatible with the plug fitted.

If an extension lead is required, use an approved and compatible lead rated for this appliance. Follow all the instructions supplied with the extension lead.

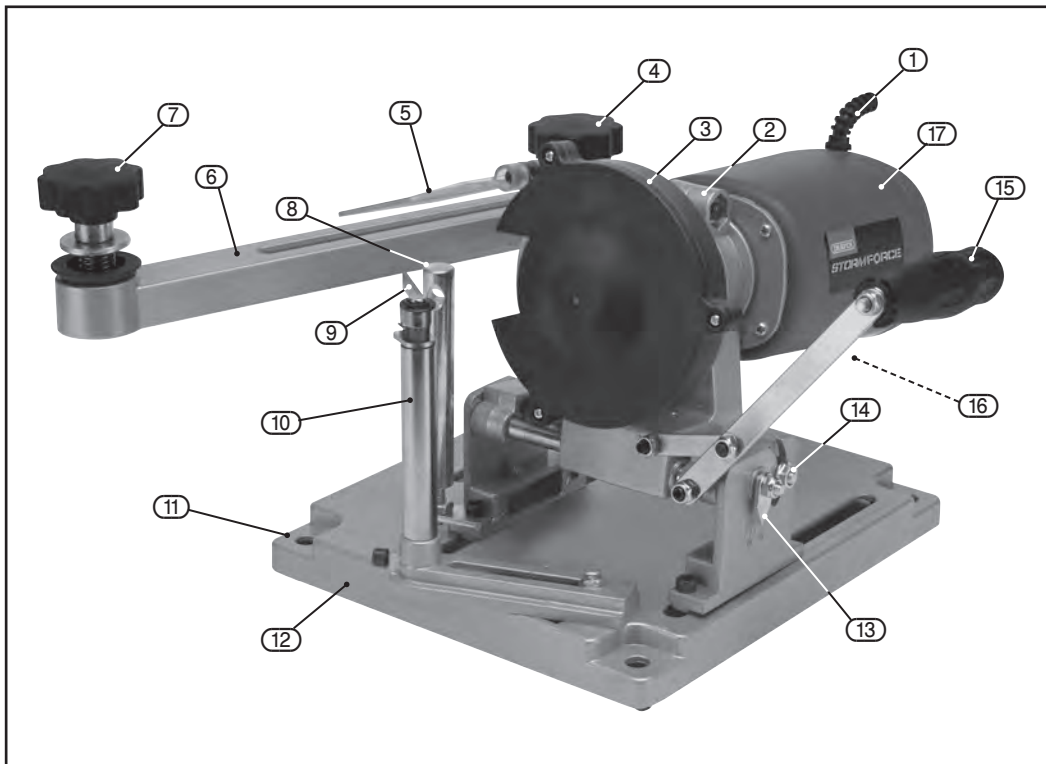
*†Double insulated : This product requires no earth connection as supplementary insulation is applied to the basic insulation to protect against electric shock in the event of failure of the basic insulation.*

#### IMPORTANT

**If using an extension lead, follow the instructions that came with your lead regarding maximum load while cable is wound. If in doubt, ensure that the entire cable is unwound. Using a coiled extension lead will generate heat which could melt the lead and cause a fire.**

## 6. TECHNICAL DESCRIPTION

### 6.1 IDENTIFICATION



① Approved power cable and plug.

② Motor clamp.

③ Grinding wheel cover.

④ Locking knob.

⑤ Safety eye shield.

⑥ Blade holding arm.

⑦ Locking knob.

⑧ Blade support.

⑨ Blade stop.

⑩ Locking pin.

⑪ Bench mounting point(s).

⑫ Base plate.

⑬ Angle gauge.

⑭ Angle gauge locking nut.

⑮ Handle.

⑯ ON/OFF switch.

⑰ Motor block.

**Note:** For details of our full range of accessories and consumables, please visit [drapertools.com](http://drapertools.com)

## 7. UNPACKING AND CHECKING

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### 7.1 PACKAGING

Carefully remove the product from the packaging and examine it for any sign of damage that may have happened during shipping. If any part is damaged or missing, please contact the Draper Help Line (the telephone number appears on the Title page) and do not attempt to use the product.

The packaging material should be retained at least during the warranty period, in case the machine needs to be returned for repair.

#### **Warning!**

- Some of the packaging materials used may be harmful to children. Do not leave any of these materials in the reach of children.
- If any of the packaging is to be thrown away, make sure they are disposed of correctly, according to local regulations.

**Note:** For details of our full range of accessories and consumables, please visit **[drapertools.com](http://drapertools.com)**

## 8. PREPARATION

### 8.1 BENCH MOUNTING – FIG.1

**Warning!** For your own safety, always turn the main switch on the machine **OFF** and remove the plug from the power supply before carrying out any servicing or maintenance.

- Locate the sharpener on a level and solid surface, ideally a workbench.
- Using appropriate sized fittings (not supplied), fix the sharpener to the workbench using the mounting points (11) located in the base.

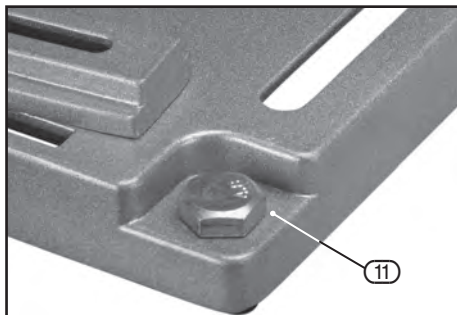


FIG.1

### 8.2 MOUNTING A SAW BLADE – FIGS.2 – 3

- Undo and remove the locking knob (7) of the blade holding arm (6).
- Remove the washer (6.1), spring (6.2) and centring piece (6.3).
- Mount the saw blade intended for sharpening onto the blade holding arm (6).
- With the saw blade in place, re-assemble the centring piece, spring and washer. Re-tighten the locking knob just enough so that the blade can still be rotated.

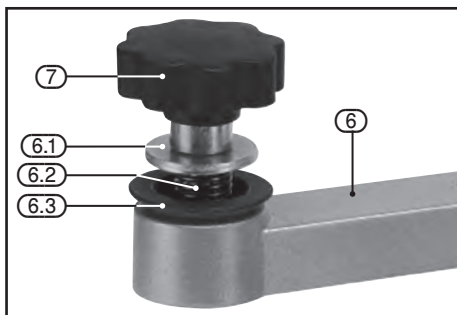


FIG.2

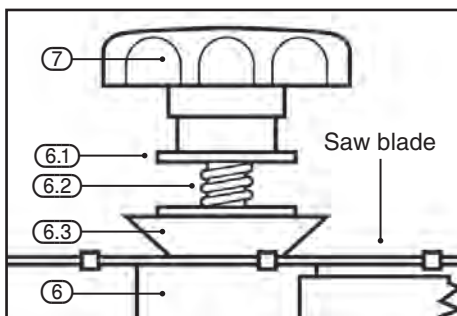


FIG.3

## 8. PREPARATION

### 8.3 GRINDING SET UP AND ADJUSTMENT – FIGS.4 – 7

- Depending on whether you are intending to sharpen the face or back of the tooth, the saw blade must be adjusted, as shown in the illustrations in FIGS.4 – 6

**Note:** The surface of the tooth that is to be ground must be parallel to the corresponding side of the grinding stone.

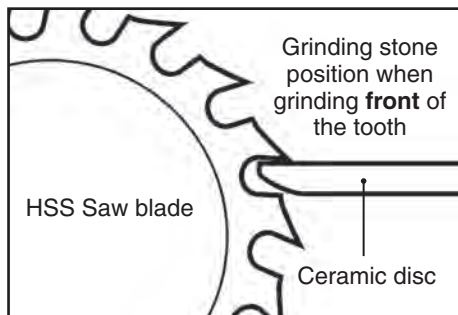


FIG.4

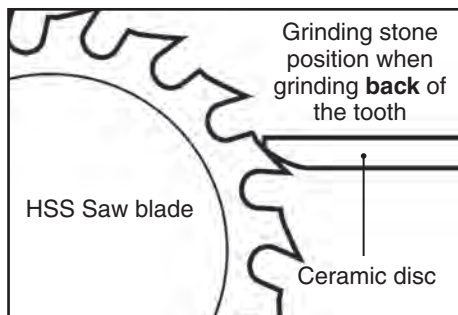


FIG.5

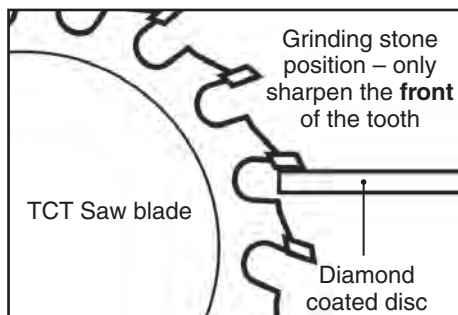


FIG.6

## 8. PREPARATION

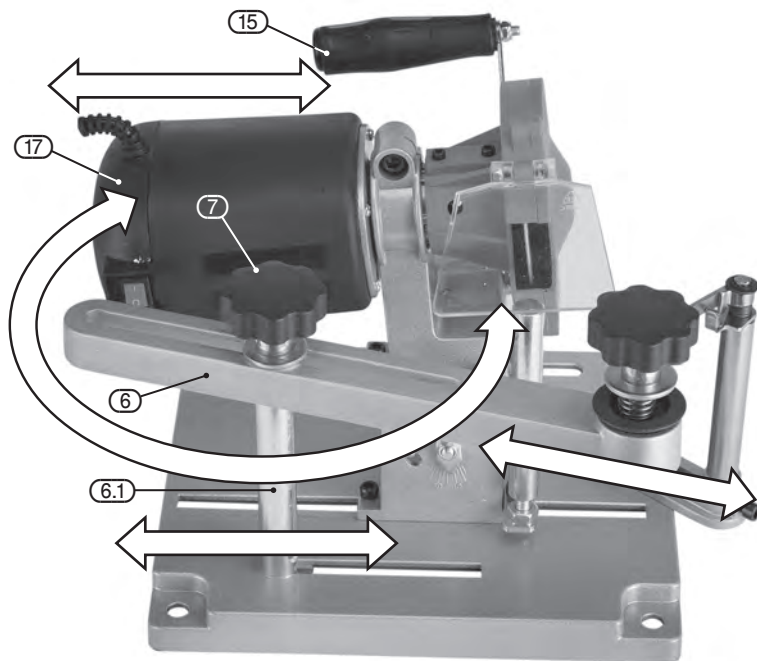


FIG.7

The swivel arm of the saw blade holder (6) can be adjusted, depending on the size of the saw blade and relation to the position of the motor block (17).

- Loosen the locking knob of the blade holding arm (7). The arm can then be moved back and forth, and also rotated. The supporting mandrel (6.1) can also be moved back and forth within the slot that it is located in within the base plate.
- The motor block (17) can also be moved back and forth along its axis along the base plate.
- Using the above combination of adjustments allows for the sharpening of saw blades between 90mm and 400mm.
- When operating the machine, the grinding stone is moved back and forth to sharpen each tooth using the handle. The lever must be pulled towards the saw blade when setting up or adjusting the grinding position so that the grinding stone can lock into the tooth correctly.

## 8. PREPARATION

### 8.4 ADJUSTMENT EXAMPLES FOR DIFFERENT SAW BLADE DIAMETERS – FIGS.8 – 10

- FIG.8 90mm saw blade, motor moved backwards.
- FIG.9 230mm saw blade, motor must be moved forward in order to avoid any collision with the arm.
- FIG.10 400mm saw blade, motor moved forward, arm must be aligned in such a way that the pin nut does not collide with the saw blade.

### 8.5 DEPTH GAUGE – FIG.11

When the correct position of the blade holding arm, motor block and saw blade have been attained, it's necessary to set the depth gauge.

- Position the grinding stone into the bottom of the tooth, so that the face of the tooth can be completely sharpened, but at the same time, the grinding stone does not make contact with the bottom of the tooth.
- Tighten the fastening screw of the depth to fix the position.

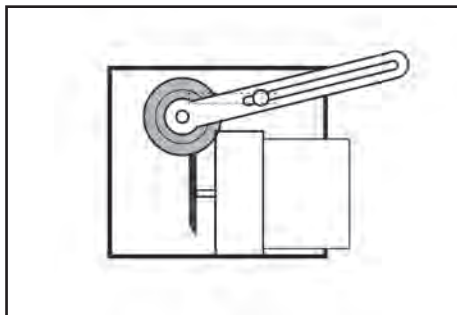


FIG.8

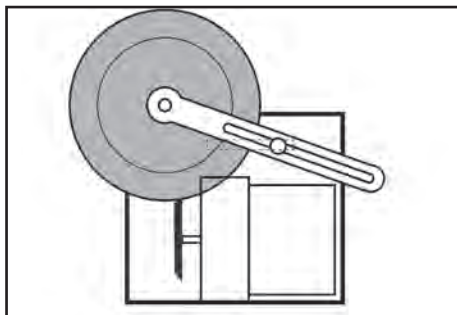


FIG.9

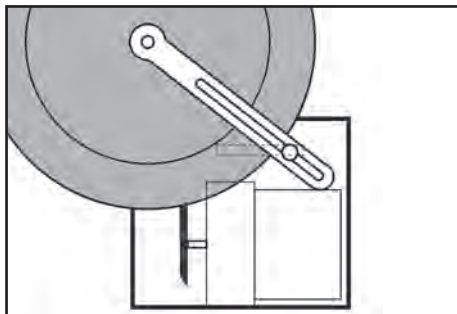


FIG.10



FIG.11



## 8. PREPARATION

### 8.6 TILTING THE MOTOR BLOCK – FIG.12

For saw blades with set teeth, the motor block can be tilted.

- Unscrew the fixing nuts (13) on both side of the motor block retainer and, using the angle gauge (14), adjust to the required angle.
- The motor can be tilted up to 25° in both directions.

**Note:** It may be possible that the desired angle cannot be obtained, as the motor block can contact the base plate for larger angles.

In this case:

- Turn the motor block by 180° within the collar of the motor holder
  - To do this, loosen the clamping screw on the neck of the motor.

### 8.7 SAW BLADE SUPPORT – FIG.13

To gain better stability and for increased accuracy, it's necessary to use the saw blade support (8).

- Position the saw blade support (8) as close as possible to the grinding wheel, so as the saw blade can rest on it.

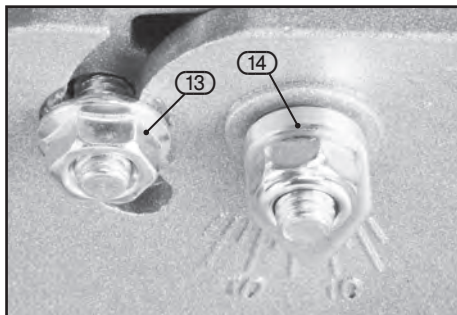


FIG.12

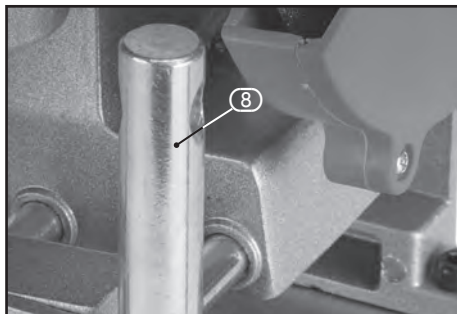


FIG.13

## 9. OPERATION

### 9.1 SHARPENING SAW BLADES – FIGS.14 – 15

When you have made all the appropriate settings and adjustments outlined in the previous chapter, you are ready to begin the blade sharpening process.

**Warning!** At this point, make sure that the perspex safety eye shield (5) is attached and in place on the grinding wheel cover.

- Position the blade stop (9) so that it exerts slight pressure onto the saw blade.
- With the machine connected to the mains power, press the 'ON/OFF' switch (16) to 'ON', to start the machine.
- Operate the handle (15) to move the grinding wheel towards the saw tooth and sharpen the tooth.
- Pull back the handle grinding wheel to move it back from the saw blade.
- Rotate the blade to sharpen the next saw tooth.
- Repeat the above steps until all teeth on the blade have been sharpened sequentially.
- When grinding the back of the saw tooth, make sure the grinding wheel and saw blade are orientated as illustrated in FIG.5 on page 14.

**Note:** In case of set teeth, only grind every alternate saw tooth and then reverse the angle to grind the remaining teeth.

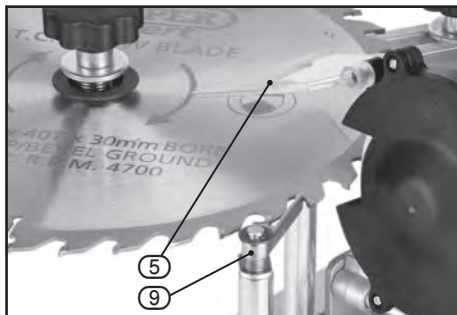


FIG.14

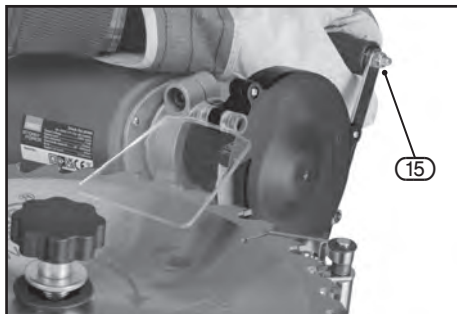


FIG.15

## 10. MAINTENANCE

### 10.1 REPLACING THE GRINDING WHEEL – FIG.16

**Warning!** For your own safety, always turn the main switch on the machine **OFF** and remove the plug from the power supply before carrying out any servicing or maintenance.

- Remove the 3 screws from the grinding wheel cover (FIG.16).
- Using an appropriate sized Hex. key (*not supplied*), insert it into the aperture located on the side of the drive shaft housing (FIG.17)
- Lock the drive shaft.
- Using a 17mm spanner (*not supplied*), undo the grinding wheel retaining nut (18).

**Note:** Take care to note which washers and spacers are mounted on each particular grinding wheel. The diamond coated disc uses the thick, black spacers, whilst the ceramic disc uses the zinc-coated washers on each side.

**Note:** When fitting the ceramic disc, refer to FIGS.4 – 5 on page 14, to make sure the disc is fitted the correct way round.

### 10.2 MAINTENANCE

Regular inspection and cleaning reduces the necessity for maintenance operations and will keep your tool in good working condition.

The motor must be correctly ventilated during tool operation. Avoid blocking the air inlets and vacuum the ventilation slots regularly.

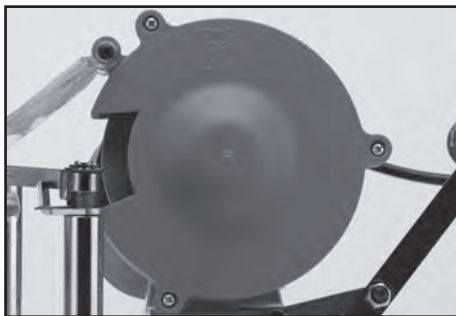


FIG.16

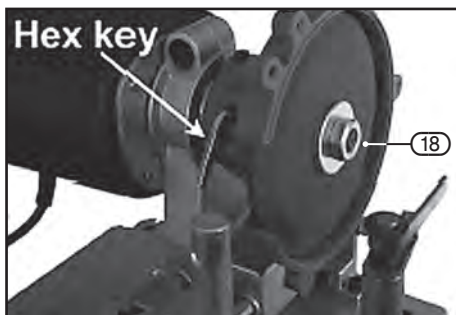


FIG.17

# 11. DISPOSAL

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## 11.1 DISPOSAL

- At the end of the machine's working life, or when it can no longer be repaired, ensure that it is disposed of according to national regulations.
- Contact your local authority for details of collection schemes in your area.

In all circumstances:

















- Do not dispose of power tools with domestic waste.
- Do not incinerate.
- Do not dispose of WEEE\* as unsorted municipal waste.



\* *Waste Electrical & Electronic Equipment.*

# 12. EXPLANATION OF SYMBOLS

## 12.1 EXPLANATION OF SYMBOLS

	Read the instruction manual.		Class II construction (Double insulated).
	Wear face mask, ear defenders and safety glasses.		WEEE – Waste Electrical & Electronic Equipment. Do not dispose of Waste Electrical & Electronic Equipment in with domestic rubbish.
	Wear protective gloves.		Continuous A-Weighted Sound Pressure Level.
	Do not abandon into the environment.		UK Conformity Assessed.
	Keep out of the reach of children.		European conformity.
	Warning!		
	Rated wattage input.		
	No-load speed (revolutions per minute).		
	Grinding disc diameter.		
	Bore/arbor diameter.		
	Net product weight.		

# NOTES

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## **CONTACTS**

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Service/Warranty Repair Agent:

For aftersales servicing or warranty repairs, please contact the  
Draper Tools Help Line for details of an agent in your local area.

### **YOUR DRAPER STOCKIST**

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