

DRAPER[®]
STORMFORCE

INSTRUCTIONS FOR
1300W 230V
185mm Circular Saw

Stock No.83634

Part No.PT185SF

IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY TO ENSURE THE SAFE AND EFFECTIVE USE OF THIS PRODUCT.



CE

DRAPER[®]

GENERAL INFORMATION

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

1.1 INTRODUCTION:

USER MANUAL FOR:

1300W 230V 185MM CIRCULAR SAW

Stock no. 83634

Part no. PT185SF

1.2 REVISIONS:

Date first published March 2016

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

Downloads are available from: <http://www.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.

CAUTION! Information that draws attention to the risk of damage to the product or surroundings.

1.4 COPYRIGHT © NOTICE:

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In all cases this copyright notice must remain intact.

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DECLARATION OF CONFORMITY

ENCLOSED

3. GUARANTEE

3.1 GUARANTEE

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: (023) 8049 4333 or Product Help Line (023) 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 guarantee period covering parts/labour is 12 months from the date of purchase except where tools are hired out when the guarantee period is 90 days from the date of purchase. The guarantee is extended to 24 months for parts only. This guarantee does not apply to 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 guarantee applies in lieu of any other guarantee expressed or implied and variations of its terms are not authorised.

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

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

Draper Tools Limited.

4. INTRODUCTION

4.1 SCOPE

Suitable for rip sawing of sheet wood or sizing of wooden doors. The laser allows for more accurate sawing operations. This item is intended for domestic and light commercial use only. Any other application is considered misuse.

4.2 SPECIFICATION

Stock No.....	83634
Part No.	PT1855F
Rated voltage	230V~50Hz
Rated input	1300W
Saw blade:	
Diameter.....	185mm
Bore Ø	20mm
Thickness.....	2.5mm
Maximum depth of cut:	
90°	63mm
45°	40mm
Revolutions per minute (no load)	4,700min ⁻¹
Laser:	
Type.....	Class 2
Output power.....	1mW
Wavelength	650nm
Sound pressure level	110dB(A)
Sound power level	121dB(A)
Vibration level	6.48m/s ²
Weight (machine only)	5kg

4.3 HANDLING & STORAGE

The environment will have a negative result on its operation if you are not careful. If the air is damp, components will rust. If the machine is unprotected from dust and debris; components will become clogged: And if not cleaned and maintained correctly or regularly the machine will not perform at its best.

5. HEALTH & SAFETY INFORMATION

5.1 GENERAL SAFETY INSTRUCTIONS

General Power Tools Safety Warnings

WARNING: Read all instructions. 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 tool” 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 electrical 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 dust mask, nonskid safety shoes, hard hat, or hearing protection used 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, clothing and gloves away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.

5. HEALTH & SAFETY INFORMATION

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.

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 the battery pack 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. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tools 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 intended could result in a hazardous situation.

5) Service

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

5.2 ADDITIONAL SAFETY INSTRUCTIONS FOR ALL SAWS

DANGER:

- a) Keep hands away from cutting area and the blade. Keep your second hand on the auxiliary handle, or motor housing. If both hands are holding the saw, they cannot be cut by the blade.
- b) Do not reach underneath the workpiece. The guard cannot protect you from the blade below the workpiece.
- c) Adjust the cutting depth to the thickness of the workpiece. Less than a full tooth of the blade teeth should be visible below the workpiece.
- d) Never hold piece being cut in your hands or across your leg. Secure the workpiece to a stable platform. It is important to support the work properly to minimise body exposure, blade binding or loss of control.
- e) Hold power tool by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord. Contact with a "live" wire will also make exposed metal parts of the power tool "live" and shock the operator.
- f) When ripping always use a rip fence or straight edge guide. This improves the accuracy of cut and reduces chance of blade binding.

- g) Always use blade with correct size and shape (diamond versus round) of arbour holes. Blades that do not match the mounting hardware of the saw will run eccentrically, causing loss of control.
- h) Never use damaged or incorrect blade washers or bolt. The blade washers and bolt were specially designed for your saw, for optimum performance and safety of operation.

Causes and operator prevention of kickback:

- kickback is a sudden reaction to a pinched, bound or misaligned saw blade, causing an uncontrolled saw to lift up and out of the workpiece towards the operator.
- when the blade is pinched or bound tightly by the kerf closing down, the blade stalls and the motor reaction drives the unit rapidly back towards the operator.
- if the blade becomes twisted or misaligned in the cut, the teeth at the back edge of the blade can dig into the top surface of the wood causing the blade to climb out of the kerf and jump back toward the operator.

Kickback is the result of saw misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.

- a) Maintain a firm grip with both hands on the saw and position your arms to resist kickback forces. Position your body to either side of the blade, but not in line with the blade. Kickback could cause the saw to jump backwards, but kickback forces can be controlled by the operator, if proper precautions are taken.
- b) When blade is binding, or when interrupting a cut for any reason, release the trigger and hold the saw motionless in the material until the blade comes to a complete stop. Never attempt to remove the saw from the work or pull the saw backward while the blade is in motion or kickback may occur. Investigate and take corrective actions to eliminate the cause of blade binding.
- c) When restarting a saw in the workpiece, centre the saw blade in the kerf and check that saw teeth are not engaged into the material. If saw blade is binding, it may walk up or kickback from the workpiece as the saw is restarted.
- d) Support large panels to minimise the risk of blade pinching and kickback. Large panels tend to sag under their own weight. Supports must be placed under the panel on both sides, near the line of cut and near the edge of the panel.
- e) Do not use dull or damaged blades. Unsharpened or improperly set blades produce narrow kerf causing excessive friction, blade binding and kickback.
- f) Blade depth and bevel adjusting locking levers must be tight and secure before making cut. If blade adjustment shifts while cutting, it may cause binding and kickback.
- g) Use extra caution when making a "plunge cut" into existing walls or other blind areas. The protruding blade may cut objects that can cause kickback.

5.3 PENDULUM GUARDS

- a) Check lower guard for proper closing before each use. Do not operate the saw if lower guard does not move freely and close instantly. Never clamp or tie the lower guard into the open position. If saw is accidentally dropped, lower guard may be bent. Raise the lower guard with the retracting handle and make sure it moves freely and does not touch the blade or any other part, in all angles and depths of cut.
- b) Check the operation of the lower guard spring. If the guard and spring are not operating properly, they must be serviced before use. Lower guard may operate sluggishly due to damaged parts, gummy deposits, or a build up of debris.
- c) Lower guard should be retracted manually only for special cuts such as "plunge cuts" and "compound cuts". Raise lower guard by retracting handle and as soon as the blade enters the material, the lower guard must be released. For all other sawing, the lower guard should operate automatically.

5. HEALTH & SAFETY INFORMATION

- d) Always observe that the lower guard is covering the blade before placing saw down on bench or floor. An unprotected, coasting blade will cause the saw to walk backwards, cutting whatever is in its path. Be aware of the time it takes for the blade to stop after the switch is released.

5.4 ADDITIONAL SAFETY INSTRUCTIONS FOR CIRCULAR SAW BLADES

Safe Working Practice

Maximum speed

- The maximum speed marked on the tool shall not be exceeded. Where stated, the speed range shall be adhered to.

Circular saw blades

- Circular saw blades, the bodies of which are cracked, shall be scrapped (repairing is not permitted).
- Composite (tipped) circular saw blades, where the tip dimension is reduced to less than 1mm, shall be taken out of service.

One piece tools

- Clamping screws shall be tightened according to instructions provided by the manufacturer. Where instructions are not provided, clamping screws shall be tightened in sequence from the centre outwards.
- Use of loose rings or bushes to "make up" bore sizes on circular saw blades shall not be permitted.
- Use of fixed rings, e.g. pressed or held by adhesive fixing, in circular saw blades or flanged bushes for other tools shall be permitted if made to the manufacturers specification.
- Resin shall only be removed from light alloys with solvents that do not affect the mechanical characteristics of these materials.

Repair of tools

- Repair of tools is only allowed according to the tool manufacturers instructions. Particular attention is drawn to the following.
- The design of composite (tipped) tools shall not be changed in the process of repair.
- Composite tools shall be repaired by a competent person, i.e. a person of training and experience, who has knowledge of the design requirements and understands the levels of safety to be achieved.
- Repair shall therefore include, e.g. use of spare parts which are in accordance with the specification of the original parts provided by the manufacturer.
- Tolerances which ensure correct clamping shall be maintained.
- For one piece tools care shall be taken that regrinding of the cutting edge will not cause weakening of the hub and the connection of the cutting edge to the hub.

5. HEALTH & SAFETY INFORMATION

5.5 ADDITIONAL SAFETY INSTRUCTIONS FOR LASER PRODUCTS

- Laser radiation. Do NOT stare into beam. Class 2 Laser product.
- Viewing the laser output with certain optical instruments (for example, eye loupes, magnifiers and microscopes) with a distance of 100mm may pose an eye hazard.
- Viewing the laser output with certain optical instruments designed for use at a distance (for example, telescopes and binoculars) may pose an eye hazard.
- CAUTION: Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- Do NOT direct the beam towards a person's eyes.
- Avoid positioning the laser such that it may lead to unintentional eye exposure to any potential passing pedestrians/traffic.
- Do NOT direct the beam towards animals.
- Do NOT use in the vicinity of children.
- Do NOT direct the beam onto reflective surfaces.
- Always switch off when not in use and do not leave unattended. Remove the batteries before storing the mitre saw away.
- This laser product has no serviceable parts. Do not attempt to disassemble or repair.




5.6 CONNECTION TO THE POWER SUPPLY

Make sure the power supply information on the machine's rating plate are compatible with the power supply you intend to connect it to.

This product comes supplied with a UK standard 3 pin plug fitted. It is designed for connection to a domestic power supply rated at 230V AC.

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.

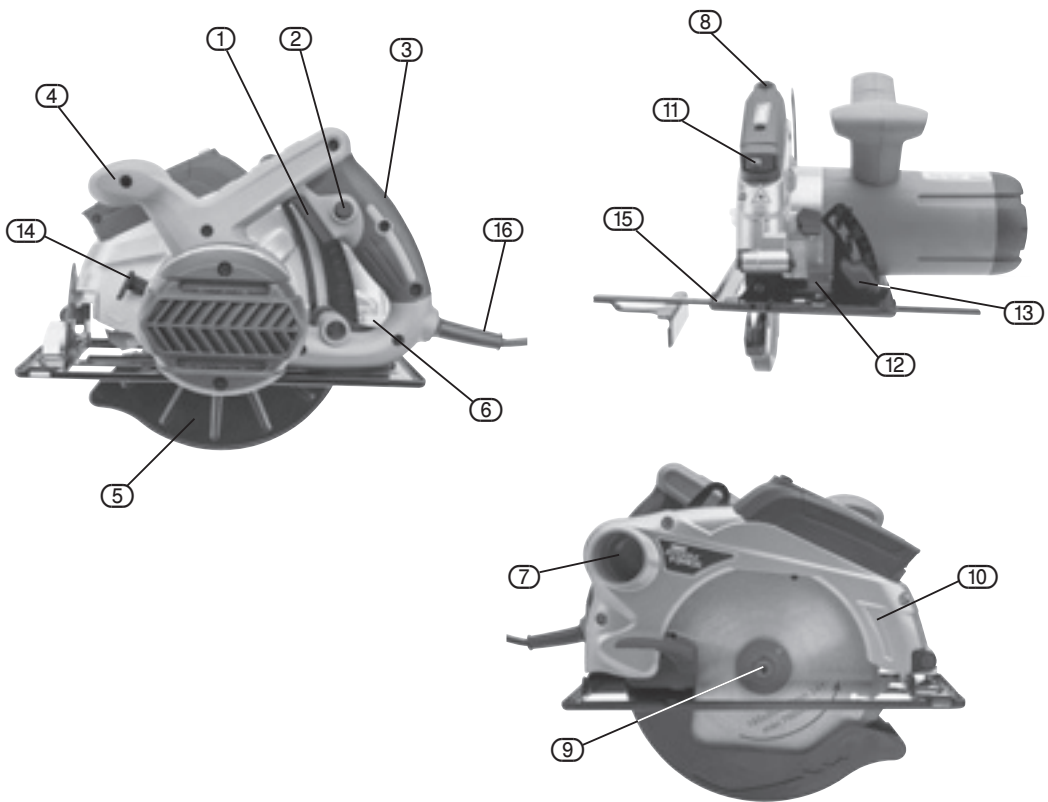
If an extension lead is required, use an approved and compatible lead rated for this appliance. Follow all the instruction supplied with the extension lead.

†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.

Apart from replacing the fuse in the plug, no other electrical work is recommended on this machine.

6. TECHNICAL DESCRIPTION

6.1 IDENTIFICATION



- ① Trigger switch
- ② Safety release switch
- ③ Rear handle
- ④ Auxiliary handle
- ⑤ Lower blade guard (pendulum)
- ⑥ Cutting depth adjustment
- ⑦ Dust extraction outlet
- ⑧ On/off switch (laser)
- ⑨ Saw blade locking flange bolt
- ⑩ Direction of rotation arrow
- ⑪ Laser beam aperture
- ⑫ Parallel guide locking knob
- ⑬ Bevel adjustment locking knob
- ⑭ Spindle lock button
- ⑮ Cutting line guide
- ⑯ Power cable

7. UNPACKING & CHECKING

7.1 PACKAGING

Carefully remove the circular saw from the packaging and examine it for any sign of damage that may have happened during shipping. Lay the contents out and check them against the parts shown below. 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 circular saw.

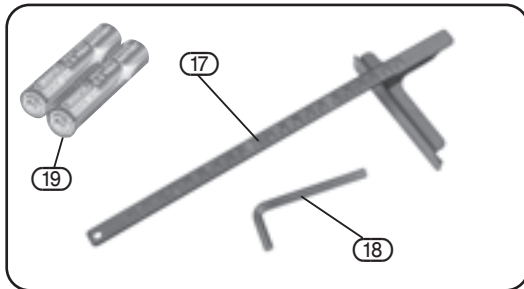
The packaging material should be retained at least during the guarantee period: in case the machine needs to be returned for repair.

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.

7.2 WHAT'S IN THE BOX?

As well as the circular saw; there are several parts not fitted or attached to it.



- ①⑦ Parallel guide
- ①⑧ Hex. Key
- ①⑨ 2 x AAA batteries

8. PREPARING THE CIRCULAR SAW

NOTE: Remove the plug from the socket before carrying out adjustment, servicing or maintenance.

WARNING: Do not use abrasive wheels. Only use saw blades recommended.

8.1 BLADE INSTALLATION/REPLACEMENT - FIG. 1

Press and hold the spindle lock button (14). The spindle may rotate slightly before the spindle lock fully engages. Loosen the 14mm locking bolt (9.2) anti-clockwise. Remove the bolt (9.2), washer (9.1) and outer flange (9.3). If the rear flange (9.4) is removed for cleaning, ensure it is replaced with the correct orientation. If incorrectly installed the flange will foul the rear guard's securing screws.

Slide the pendulum guard back using tab (5.1) and hold.

Ensure the specification of the replacement blade conforms with the machine (i.e. outer diameter, width, rpm and type, e.g. woodcutting etc.). Before fitting the new blade wipe a drop of oil on the inner and outer flanges where the arbor locates.

Insert the new blade.

NOTE: Install the blade with the direction of rotation arrow matching the direction of rotation arrows on the machine. The teeth face upward at the front of the saw.

Reassemble the flange and washer and secure the blade bolt (9.2) firmly.

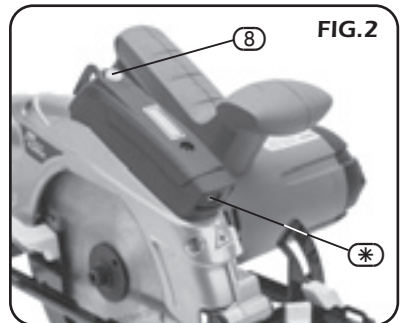
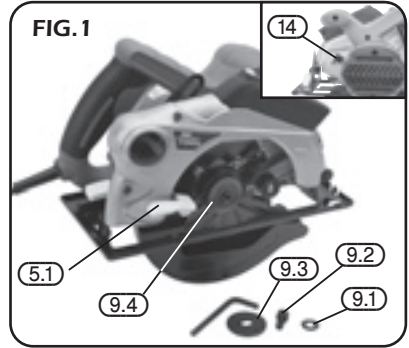
NOTE: This saw is not designed to cut metal or masonry. It is intended for cutting wood and analogous materials only.

8.2 LASER - FIG. 2

WARNING: Laser radiation. Do not stare into beam. Class 2 laser product.

To operate the laser it is first necessary to fit 2 x AAA size batteries supplied to the laser unit. Access to the battery installation location is achieved by unscrewing the cross head screw on the top of the laser housing. Once installed, reverse the procedure to secure the batteries in place.

The laser (*) is activated by pressing button (8) and will stay on until button is pressed again.



9. BASIC CIRCULAR SAW OPERATIONS

NOTE: Remove the plug from the socket before carrying out adjustment, servicing or maintenance.

9.1 ON/OFF TRIGGER SWITCH - FIG. 3

The on/off switch ① is fitted with a safety button ② so that it is not possible to start the circular saw by accident. To start the saw press the safety button ② and depress the on/off switch ① at the same time. Always wear ear defenders during use.

9.2 DUST EXTRACTION - FIG. 4

Inhalation of dust particles can be detrimental to health. The dust outlet ⑦ must be connected with a dust extraction machine.

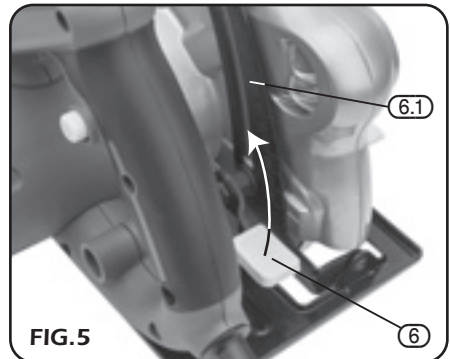
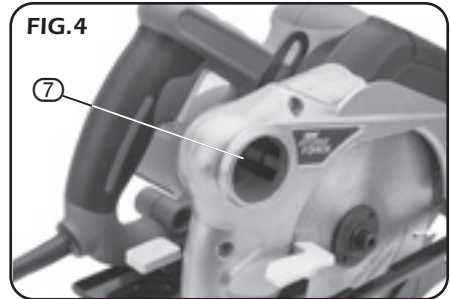
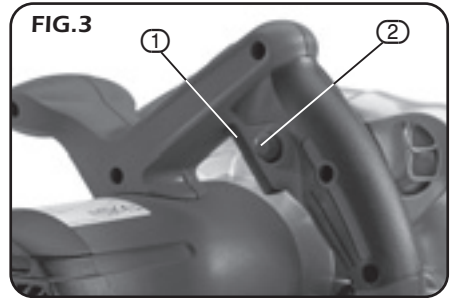
NOTE: Due to the outlet diameter, a size adaptation may be necessary.

All wood dust (including dust from composites like chipboards and fibre boards etc.) is hazardous to health; it can affect the nose, the respiratory system and the skin. For example MDF (medium density fibreboard) which contains formaldehyde is a known carcinogen. In addition to the above measures a correctly fitted dust mask, suitable for the activity and in accordance to the relevant standard, must be worn. For work activities involving exposure to fine wood dust a mask rated to at least FFP2 should be used.

9.3 CUTTING DEPTH - FIG. 5

To adjust the cutting depth left lever ⑥ upwards. Set the depth on scale ⑥.1 as a guide.

NOTE: For accuracy measure the tip of the blade back to the base (only with the plug removed from the socket). Tighten locking lever ⑥ when depth is set.

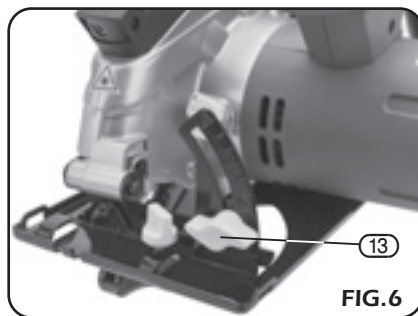


9. BASIC CIRCULAR SAW OPERATIONS

9.4 BEVEL ADJUSTMENT - FIG. 6

To alter the angle between 0° to 45° loosen locking knob (13).

NOTE: The scale is a guide. If more accuracy is required a protractor should be used off the underside of the base against the blade (only with the plug removed from the socket). When angle is set, secure locking knob (13).



9.5 PARALLEL GUIDE - FIG. 7

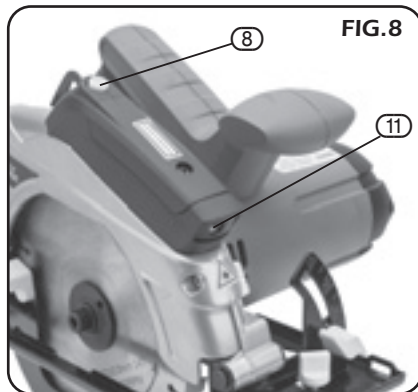
Pass the parallel guide (17) through the pressings in the base and secure with locking knob (12). Make a test cut on a scrap piece of timber prior to making any cuts on the workpiece and adjust accordingly. For accuracy measure between the edge of the blade and the parallel guide's face (only with the plug removed from the socket).



9.6 LASER GUIDE - FIG. 8

WARNING: Laser radiation. Do not stare into beam. Class 2 laser product.

1. Mark the line of the cut on the workpiece.
2. Adjust the depth and/or bevel angles of the cut as required.
3. Turn on the laser guide (11) by pressing button (8) and align the line of the cut on the workpiece.
4. Plug in the machine and start the motor.
5. When the blade is at its maximum speed (approx. 2 sec.) make the cut.
6. On completion of the cut, switch off the laser.



10. MAINTENANCE

10.1 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. For this reason avoid blocking the air inlets. After use disconnect the tool from the power supply and vacuum the ventilation slots.

If the replacement of the supply cord is necessary, this has to be done by the manufacturer or his agent in order to avoid a safety hazard.

11. OPTIONAL ACCESSORIES

Please refer to your local Draper stockist for a complete range of saw blades.

12. TROUBLESHOOTING

NOTE:
Remove the plug from the socket before carrying out adjustment, servicing or maintenance.

PROBLEM	CAUSE	REMEDY
Machine does not start.	<ol style="list-style-type: none">1. Fuse.2. Brushes worn.3. Other.	<ol style="list-style-type: none">1. Replace time delay fuse or reset circuit breaker.2. Have brushes replaced by an authorised service centre.3. Contact an authorised service centre.
Poor cutting performance.	<ol style="list-style-type: none">1. Saw blade blunt.2. Saw blade incorrectly mounted.3. Incorrect saw blade selection.	<ol style="list-style-type: none">1. Replace saw blade.2. Remove & refit saw blade as per instructions.3. Seek advice on suitable saw blades.
Saw vibrates.	<ol style="list-style-type: none">1. Saw blade distorted.2. Saw blade incorrectly mounted.	<ol style="list-style-type: none">1. Stop machine immediately & replace blade.2. Stop machine immediately. Remove & refit saw blade as per instructions.

13. EXPLANATION OF SYMBOLS

13.1 EXPLANATION OF SYMBOLS



Warning!
Wear dust mask.



Warning!
Read the instruction manual



Warning!
Wear suitable eye/face
protection.



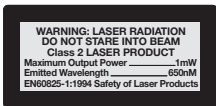
Warning!
Wear ear defenders.



WEEE
Do not dispose of Waste Electrical
& Electronic Equipment in with
domestic rubbish



Class II construction
(Double insulated).



Warning!
Laser product



14. DISPOSAL

14.1 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 abandon in the environment.
- Do not dispose of WEEE* as unsorted municipal waste.



* Waste Electrical & Electronic Equipment.

- **DRAPER TOOLS LIMITED,**
Hursley Road, Chandler's Ford,
Eastleigh, Hampshire. SO53 1YF. U.K.
- **Help Line:** (023) 8049 4344
- **Sales Desk:** (023) 8049 4333
- **General Enquiries:** (023) 8026 6355
- **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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