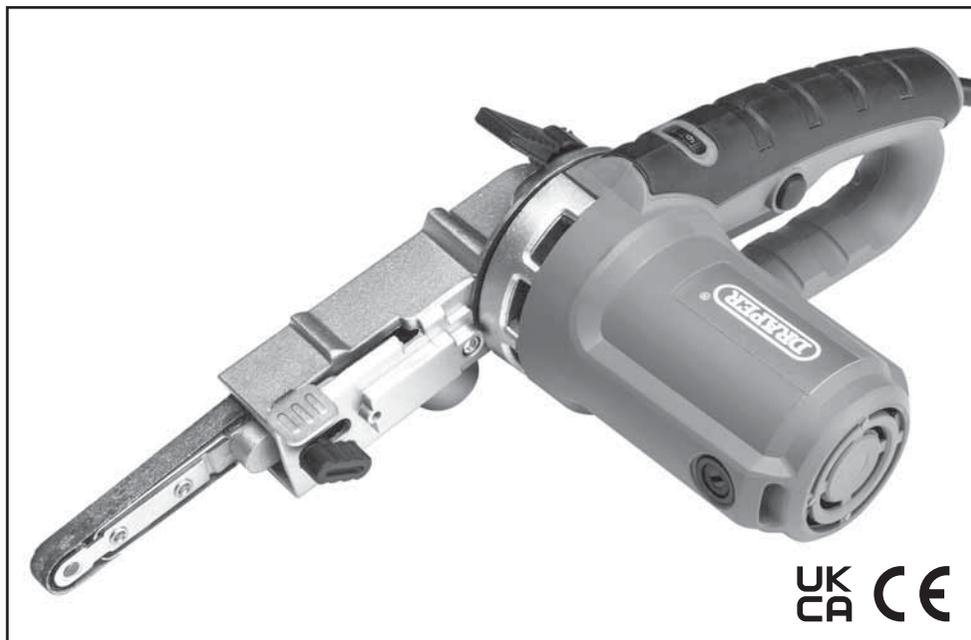




DRAPER[®]

230V MINI BELT SANDER

56490



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: 230V Mini Belt Sander

Stock No: 56490

Part No: BS400D13

1.2 REVISIONS:

Date first published April 2019.

Date of first revision: November 2019.

Date of second revision: July 2022.

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.

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3. WARRANTY

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: (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 warranty period covering parts and labour is 12 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

4.1 SCOPE

A narrow belt sander designed to access “hard to reach” areas where a traditional sander could not access.

As part of our core range, this product is suitable for enthusiasts and tradespeople alike. Any application other than that it was intended for, is considered misuse.

4.2 SPECIFICATION

Stock No.	56490
Part No.	BS400D13
Motor:	
Rated voltage	230V~
Rated frequency	50Hz
Rated input	400W
Belt speed (no load)	300 – 1700M/min
Belt width	13mm
Belt length	457mm
Sound pressure level (LpA)*:	80.2dB(A)
Sound power level (LWA)**:	91.2dB(A)
Vibration level†:	1.215m/s ² , K=1.5m/s ²
Weight (machine only)	2kg

* *Continuous A-Weighted Sound Pressure Level at the workstation in accordance to and declared according to EN60745.*

** *The typical A-weighted noise level determined according to EN60745.*

† *When sanding in wood.*

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

5.1 GENERAL SAFETY INSTRUCTIONS FOR POWER TOOL USE

When using any type of power tool there are steps that should be taken to make sure that you, as the user, remain safe.

Common sense and a respect for the tool will help reduce the risk of injury.

Read the instruction manual fully. Do not attempt any operation until you have read and understood this manual.

Most important you must know how to safely start and stop this machine, especially in an emergency.

Keep the work area tidy and clean. Attempting to clear clutter from around the machine during use will reduce your concentration. Mess on the floor creates a trip hazard. Any liquid spilt on the floor could result in you slipping.

Find a suitable location. If the machine is bench mounted, the location should provide good natural light or artificial lighting as a replacement. Avoid damp and dust locations as it will have a negative effect on the machine's performance. If the machine is portable do not expose the tool to rain. In all cases do not operate power tools near any flammable materials.

Keep bystanders away. Children, onlookers and passers by must be restricted from entering the work area for their own protection. The barrier must extend a suitable distance from the tool user.

Unplug and house all power tools that are not in use. A power tool should never be left unattended while connected to the power supply. They must be housed in a suitable location, away locked up and from children. This includes battery chargers.

Do not overload or misuse the tool. All tools are designed for a purpose and are limited to what they are capable of doing. Do not attempt to use a power tool (or adapt it in any way) for an application it is not designed for. Select a tool appropriate for the size of the job. Overloading a tool will result in tool failure and user injury. This covers the use of accessories.

Dress properly. Loose clothing, long hair and jewellery are all dangerous because they can become entangled in moving machinery. This can also result in parts of body being pulled into the machine. Clothing should be close fitted, with any long hair tied back and jewellery and neck ties removed. Footwear must be fully enclosed and have a non-slip sole.

Wear personal protective equipment (PPE). Dust, noise, vibration and swarf can all be dangerous if not suitably protected against. If the work involving the power tool creates dust or fumes wear a dust mask. Vibration to the hand, caused by operating some tools for longer periods must be protected against. Wear vibration reducing gloves and allow long breaks between uses. Protect against dust and swarf by wearing approved safety goggles or a face shield. These are some of the more common hazards and preventions, however, always find out what hazards are associated with the machine/work process and wear the most suitable protective equipment available.

Do not breathe contaminated air. If the work creates dust or fumes connect the machine (if possible) to an extraction system either locally or remotely. Working outdoors can also help if possible.

Move the machine as instructed. If the machine is hand held, do not carry it by the power supply cable. If the product is heavy, employ a second or third person to help move it safely or use a mechanical device. Always refer to the instructions for the correct method.

Do not overreach. Extending your body too far can result in a loss of balance and you falling. This could be from a height or onto a machine and will result in injury.

Maintain your tools correctly. A well maintained tool will do the job safely. Replace any damaged or missing parts immediately with original parts from the manufacturer. As applicable, keep blades sharp, moving parts clean, oiled or greased, handles clean, and emergency devices working.

Wait for the machine to stop. Unless the machine is fitted with a safety brake, some parts may continue to move due to momentum. Wait for all parts to stop, then unplug it from the power supply before making any adjustments, carrying out maintenance operations or just finishing using the tool.

5. HEALTH AND SAFETY INFORMATION

5.2 ADDITIONAL SAFETY INSTRUCTIONS FOR SANDERS

Important: Draper Tools Limited recommends that this machine should not be modified or used for any application other than that for which it was designed. If you are unsure of its relative applications do not hesitate to contact us in writing and we will advise you.

Warning! Some materials may contain toxic chemicals that sanding operations would disturb e.g. lead painted surfaces. Exposure to these compounds can endanger the health of the operator or bystanders. It is important that you wear appropriate safety equipment to protect yourself from exposure to these substances. If in doubt, consult a professional.

Take care to adequately ventilate the work area and take steps to exclude or protect anybody working in the vicinity.

- Always wear a dust mask and suitable eye protection with sanders.
- Connect dust extraction equipment. If the tool is provided for the connection of dust extraction and collecting equipment, ensure these are connected and properly used.
- Ensure that you don't wear any loose clothing or anything else that could get caught in the machine during operation.

5.3 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. HEALTH AND SAFETY INFORMATION

5.4 CONNECTION TO THE POWER SUPPLY

Caution: Risk of electric shock. Do not open.

This appliance is supplied with a moulded 3 pin mains plug 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.

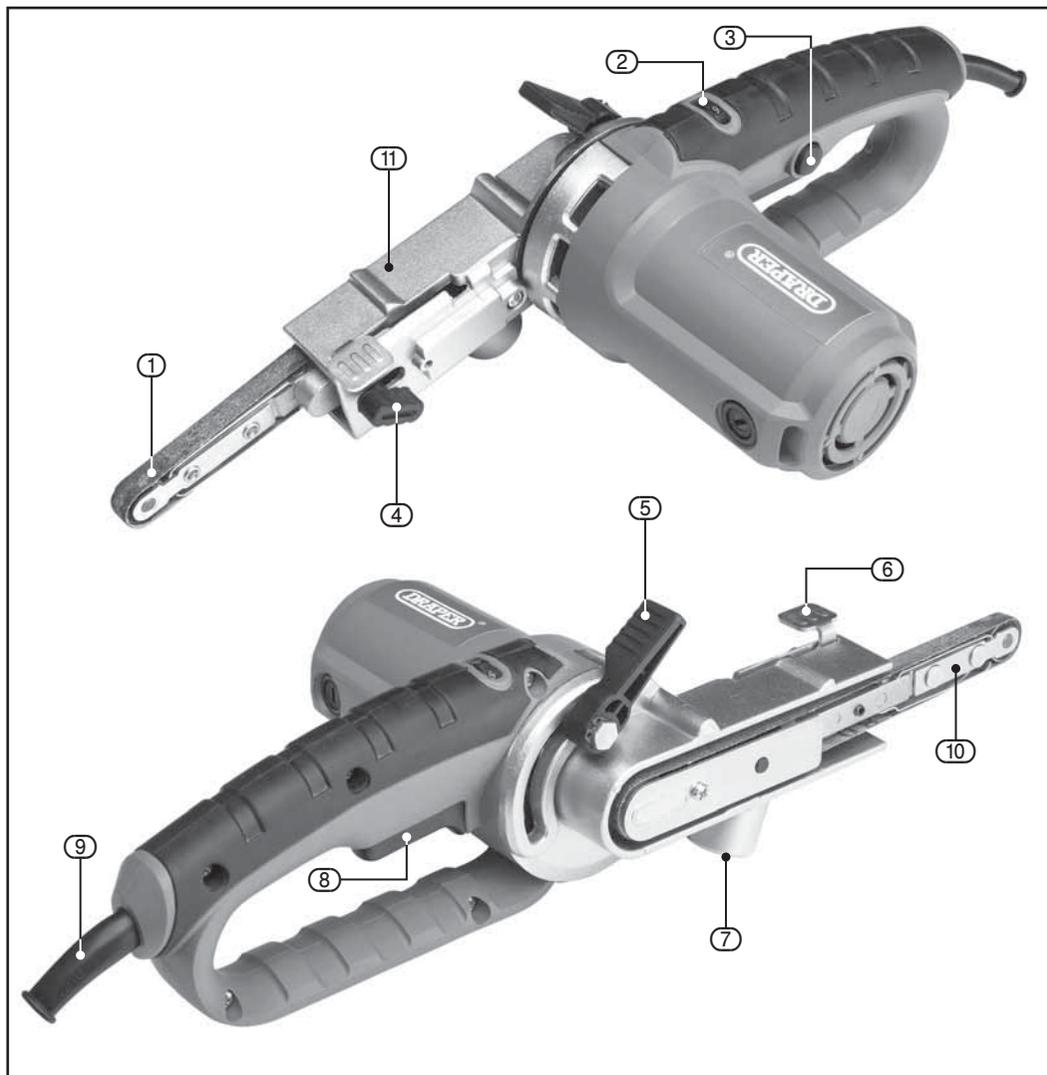
This appliance is Class II† and is designed for connection to a power supply matching that detailed on the rating label and compatible with the plug fitted.

† *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 Sanding belt (80 grit).

② Variable speed.

③ Switch lock button.

④ Belt tracking adjustment knob.

⑤ Adjustable sanding locking arm lever.

⑥ Belt tension release.

⑦ Dust extraction port.

⑧ Trigger switch.

⑨ Power cable.

⑩ Sanding head.

⑪ Sanding arm.

7. UNPACKING AND CHECKING

7.1 PACKAGING

Carefully remove the product 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 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.

7.2 WHAT'S IN THE BOX

As well as the sander, there are several parts not fitted or attached to it.



- ④ Belt tracking adjustment knob.
- ⑩ Sanding head.
- ⑫ Extra spare sanding belt (120 grit).
- ⑬ Belt tracking adjustment spring.
- ⑭ Dust collection bag.

8. ASSEMBLY

8.1 FITTING THE SANDING HEAD – FIGS.1 – 4

Warning! Disconnect the machine from the power supply before carrying out any adjustment, servicing or maintenance:

- Place the belt tracking adjustment spring (13) into the locating recess at the front of the sanding arm (11).
- The sanding head (10) fits onto the sanding arm (11) one way only. Align the slot in the side of the sanding head with the corresponding ridge located on the sanding arm. Ensure that the free end of the spring fits over the raised lug on the sanding head.
- Apply light pressure to compress the spring, keeping the sanding head engaged with the sanding arm.
- Fit the belt tracking adjustment knob (4) into the screw hole located inside the oval shaped aperture on the (motor) side of the sanding arm.
- Tighten the screw, gradually drawing the sanding head into the body of the sanding arm.

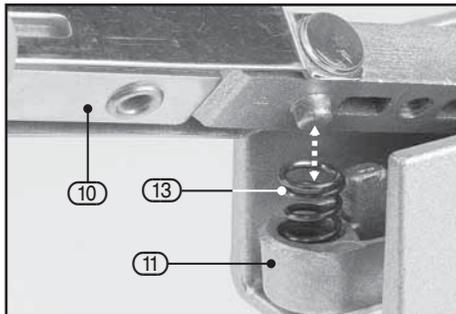


FIG.1

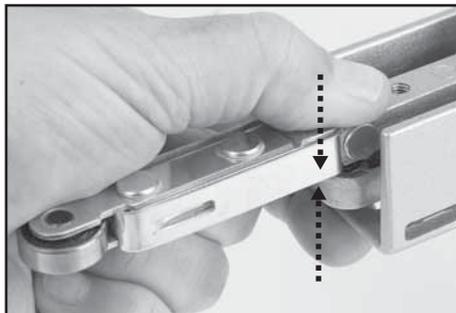


FIG.2

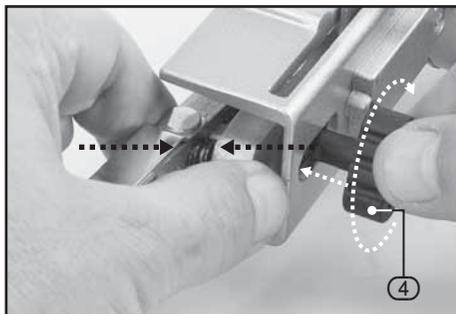


FIG.3

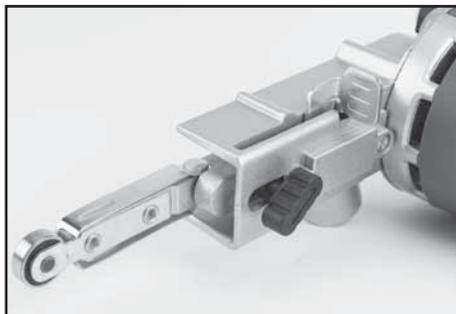


FIG.4

8. ASSEMBLY

8.2 FITTING OR REPLACING THE SANDING BELT – FIGS.5 – 7

Warning! Always ensure that the machine is disconnected from its power source before attempting to change or replace the sanding belt.

- Pull the belt release lever (6) (located just above the belt tracking control knob (4)) upwards to release the tension on the belt. (Fig.5)
- Slide out the belt (1) to be replaced.
- Refit the required belt over the rear roller (11.1) of the sanding arm (11) and the roller on the sanding head (10) (Fig.6).

Note: Always ensure that the direction of rotation arrows found on the inside of the belt match the direction of rotation arrow found on the body of the machine.

- Return the belt release lever (6) to its original position.

8.3 SANDING BELT TRACKING AND ADJUSTMENT – FIG.8

Warning! Always wear the appropriate eye safety protection when carrying out this procedure.

- Plug the machine back into the power supply and operate the sander while observing the belt.
- The new belt will have a tendency to track more to one side. To centre the belt on the rollers and over the sanding base, rotate belt tracking control knob (4). This pivots the front roller slightly causing the belt to track across the roller. Only slight adjustments are needed.

When the belt runs centrally on the rollers it is adjusted correctly.

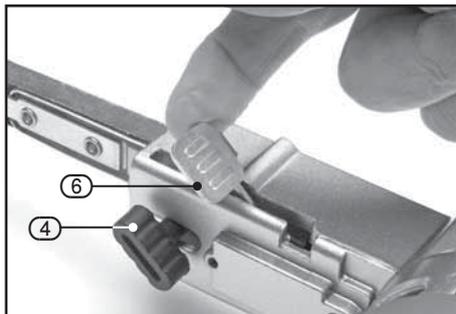


FIG.5

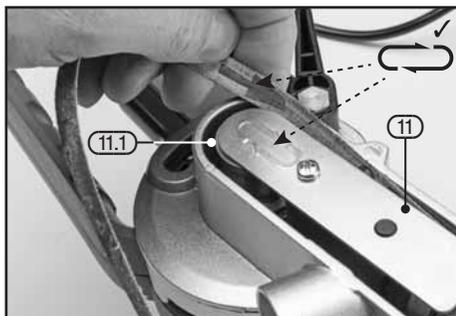


FIG.6

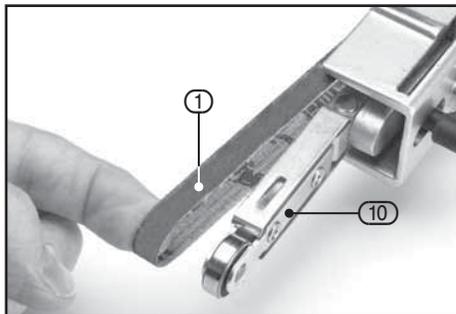


FIG.7

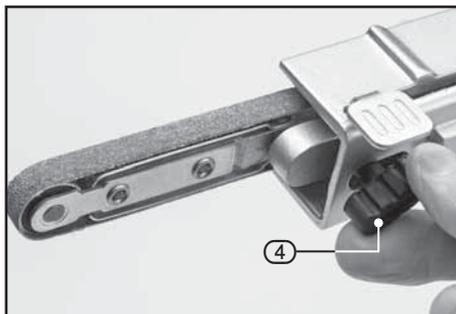


FIG.8

8. ASSEMBLY

8.4 FITTING THE DUST EXTRACTION BAG – FIG.9

Inhalation of dust particles can be detrimental to health. For this reason a dust extraction bag has been provided and must be used with the machine at all times.

Warning! All wood dust (including dust from composites like chipboards and fibreboards, 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 measure a correctly fitted dust mask, suitable for the activity and in accordance to the relevant standard, must be worn.

- The dust bag (14) is fitted to the sander at the rear by pushing onto the dust extraction port (7).

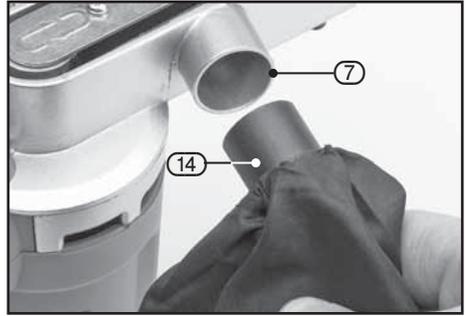


FIG.9

Emptying the dust bag

- Disconnect the plug from the electricity supply.
- Hold your sander vertically with the dust collector at the bottom.
- Pull the bag gently off sander.
- Empty the dust bag by shake out over a bin, then replace on the sander.
- Do not wash the dust bag.
- Empty the dust bag at regular intervals.

9. BASIC SANDING OPERATIONS

9.1 POSITIONING THE SANDING ARM – FIG.10

The sanding arm can be rotated approximately 120° in relation to the handle, for operational convenience and efficiency.

Warning! Always ensure that the machine is disconnected from its power source before attempting to re-position the sanding arm.

To adjust the sanding arm angle:

- Push the sanding arm locking lever (5) forward to release the sanding arm.
- Re-position the sanding arm to the required angle.
- Pull the sanding arm locking lever back to secure the arm at the new position.

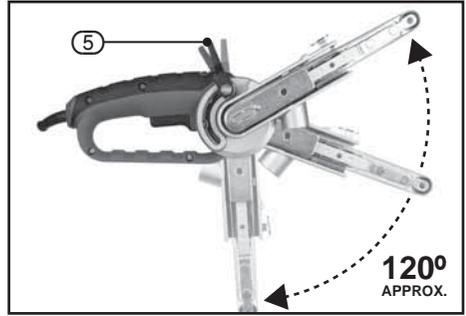


FIG.10

9.2 TRIGGER SWITCH – FIG.11 – 12

Note: Remove the plug from the socket before carrying out adjustment, servicing or maintenance. Prior to connecting this machine to the power supply ensure the trigger lock is disengaged. Ensure the sander is raised off the workpiece.

- Press trigger (8) to start the sander.
- To operate the sander for a prolonged period;
 - Press and hold trigger (8).
 - Press and hold locking button (3).
 - Release trigger (8). Release button (3).
- The sander will now continue to run until the trigger is pressed, automatically releasing button (Fig.12).
- Wait for complete run-down before putting the tool aside.

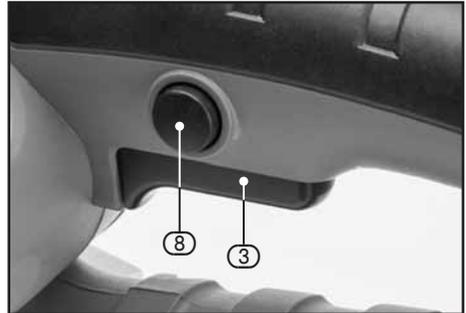


FIG.11

This machine is intended for sanding wood only.

Replace abrasive belts when clogged with material or when surface/edge has rips, cracks or worn areas.

Warning! Hearing protection should be worn when using belt sanders.

9.3 VARIABLE SPEED CONTROL – FIG.13

Use the variable speed control dial (2) to adjust working speed as appropriate.



FIG.12



FIG.13

9. BASIC SANDING OPERATIONS

9.4 GENERAL SANDING INFORMATION

Select the correct belt grit to obtain the desired finish. The higher the grit number the finer the finish. For removing large amounts of material a 60/80 grit is ideal. When removing paint from a wood surface the belt grit will have a tendency to clog.

Replace abrasive belts when clogged with material or when surface/edge has rips, cracks or worn areas.

Note: Abrasive belts are a consumable item.

- Always sand along the grain of a workpiece.
- Occasionally check the belt alignment and adjust as necessary.

10. MAINTENANCE AND TROUBLESHOOTING

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 housing requires cleaning, do not use any solvents, just a moist soft cloth. Never let any liquid inside the tool. Never immerse in liquid.

When the carbon brushes wear out the tool will stop. The brushes should be replaced prior to wearing out fully. Take the tool to a qualified person to repair.

Important: Please note all repairs/service should be carried out by a qualified person.

10.2 TROUBLESHOOTING

Warning! For your own safety, turn the switch off and remove the plug from the power supply socket.

Problem	Possible Cause	Required Action
– Motor does not start.	– Fuse. – Brushes worn. – Other.	– 5 amp time delay fuse or circuit breaker. – Have brushes replaced. – Contact an authorised service centre.
– Reduced sanding efficiency.	– Abrasive sheet worn, clogged or cracked.	– Replace abrasive sheet.†

† *Abrasive belts are considered consumable items.*

11. OPTIONAL ACCESSORIES

11.1 OPTIONAL ACCESSORIES

A full range of accessories are available from Draper Tools.

Please visit our website for details: www.drapertools.com

12. DISPOSAL

12.1 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.*

13. EXPLANATION OF SYMBOLS

13.1 EXPLANATION OF SYMBOLS



Warning!



Wear safety glasses.



Wear protective gloves.



Read the instruction manual.



Do not abandon into the environment.



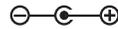
Class II construction
(Double insulated).



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



Fuse protective device.



Polarity indication.



Rated voltage. DC.



Continuous A-Weighted Sound
Pressure Level in accordance
to and declared according to
EN60745.



Direction of rotation.



European conformity.



UK Conformity Assessed.

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Service/Warranty Repair Agent:

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

YOUR DRAPER STOCKIST

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