DRAPER®

GB

230V OSCILLATING
SPINDLE
SANDER

98427

UK CA CE

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 370W Oscillating Spindle Sander
Stock No: 98427
Part No: OSS370E

1.2 REVISIONS:

Date first published April 2021.

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:

2. CONTENTS

2.1 TABLE OF CONTENTS

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: +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 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. The warranty is extended to 24 months for parts only. This warranty doesnot 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

This oscillating spindle sander is a versatile machine allowing various finishing tasks to be undertaken.

4.2 SPECIFICATION

Stock No. 98427
Part No. OSS370E
Motor:
Rated voltage ..... 230V~
Rated frequency 50Hz
Rated input 370W
Revolutions per minute 1500rpm
Oscillating stroke 24mm
Sanding sleeves included .....50mmØ x 140mm
.....38mmØ x 140mm
.....19mmØ x 90mm
Table size..... 370 x 370mm, 45 degree tilting
Dust extraction outlet 50mm
Max. spindle working height 140mm
Sound pressure level (LpA)..... 70dB(A)
Sound power level (LWA) .....80dB(A)
Weight (Nett) 28.5kg

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 tired 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.

Remove and check setting tools. Some machinery requires the use of additional tools or keys to set, load or adjust the power tool. Before starting the power tool always check to make certain they have been removed and are safely away from the machine.

Prevent unintentional starting. Before plugging any machine in to the power supply, make sure the switch is in the OFF position. If the machine is portable, do not hold the machine near the switch and take care when putting the machine down, that nothing can operate the switch.

Carefully select an extension lead. Some machines are not suitable for use with extension leads. If the tool is designed for use outdoors, use an extension lead also suitable for that environment. When using an extended lead, select one capable of handling the current (amps) drawn by the machine in use. Fully extend the lead regardless of the distance between the power supply and the tool. Excess current (amps) and a coiled extension lead will both cause the cable to heat up and can result in fire.

Concentrate and stay alert. Distractions are likely to cause an accident. Never operate a power tool if you are under the influence of drugs (prescription or otherwise), including alcohol or if you are feeling tired. Being disorientated will result in an accident.

Have this tool repaired by a qualified person. This tool is designed to conform to the relevant international and local standards and as such should be maintained and repaired by someone qualified, using only original parts supplied by the manufacturer. This will ensure the tool remains safe to use.

5.2 ADDITIONAL SAFETY INSTRUCTIONS FOR SANDERS

Safety is a combination of operator common sense and alertness at all times when the sander is being used.

Warning! For your own safety, do not attempt to operate the oscillating spindle sander until it is completely assembled and installed according to the instructions and until you have read and understand the following.

There may be a tendency for the machine to tip over or move during certain operations, due to this, the sander must be bolted down.

The machine should be positioned so the operator or a casual observer are not forced to stand in line with the sanding sleeve. This machine is intended for indoor use only.

Always wear safety goggles (not glasses) that comply to a recognised standard. Wear a face mask if the operation is dusty. Wear ear plugs or muffs during extended periods of operation. Do not wear gloves, jewellery or watches. Roll long sleeves above the elbow. Tie back long hair.

Do not sand pieces of material too small to hold comfortably by hand.

Avoid awkward hand positions, where a sudden slip could cause a hand to move into the sanding sleeve.

Never stand on the machine.

Never turn your sander “ON” before clearing the belt table and worktable of all objects.

Make sure the sanding sleeves runs in the right direction. Always have it adjusted correctly so that the sleeve does not run off the spindle.

Always adjust the worktable to within a maximum of 2mm off the sanding sleeve.

When sanding a large piece of material, provide additional support at table height.

Never leave when the machine is on, wait until the machine has come to a complete stop.

Do not perform assembly or adjustment work on the table while the sander is operating.

Turn sander “OFF” and remove plug from power supply before removing any accessories.

5. HEALTH AND SAFETY INFORMATION

If any part of this oscillating spindle sander breaks, bends, or fails in any way, or any electrical component fails to perform properly, or if any part is missing, turn off power switch, remove plug from the power supply and replace damaged, missing and/or failed parts before resuming operation.

Do not sand with the workpiece unsupported. Support it with the backstop or worktable. The only exception is curved work performed on the outer end of the belt (idler roller).

Safety is a combination of operator common sense and alertness at all times when the sander is in operation.

Caution: This oscillating spindle sander is designed solely for wood and nonferrous metals only. Any other materials will cause damage to the product or risk of fire.

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!

5.4 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 I† 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.

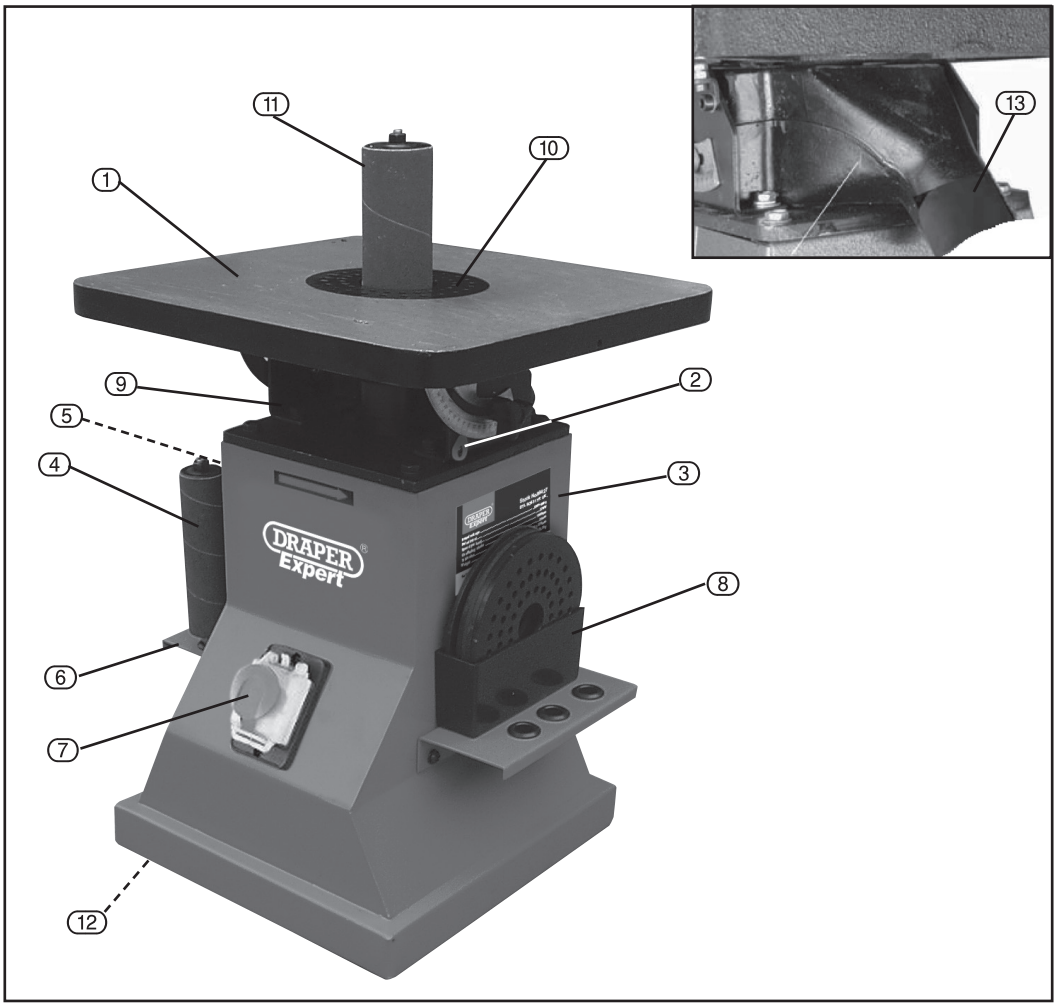
†Earthed ⏚: This product requires an earth connection to protect against electric shock from accessible conductive parts in the event of failure if the basic insulation.

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. 0-45° tilting table.
2. 0-45° securing knob.
3. Machine body.
4. 50mm (2”) sanding drum with shaft and sanding sleeve.
5. 19mm (3/4”) sanding drum with shaft and sanding sleeve.
6. Sanding drum tool holder.
7. On/Off no-volt switch with emergency stop function.
8. Table insert tool holder.
9. Main spindle motor/sanding attachment point.
10. Table insert.
11. 38mm (1-1/2”) sanding drum with shaft and sanding sleeve.
12. Rubber feet.
13. Dust extraction port.

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.

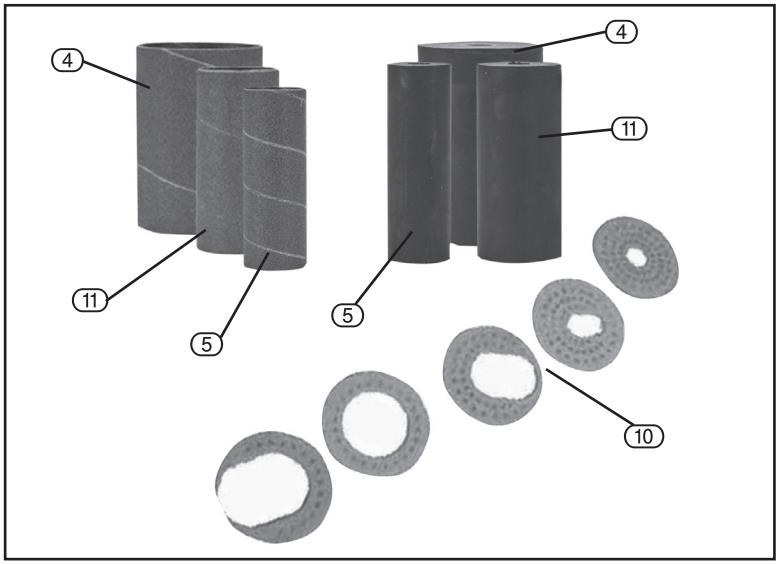
The packaging material should be retained at least during the warranty period, in case the machine needs to be returned for repair.

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 main product, there are several parts not fitted or attached to it.



(4) Sanding sleeve and drum, size; Ø50 x 140mm.
(5) Sanding sleeve and drum, size; Ø19 x 90mm.
(10) Table inserts - round and oval x6.
(11) Sanding sleeve and drum, size; Ø38 x 140mm.

Note: For details of our full range of accessories and consumables, please visit **drapertools.com**

8. PREPARING THE SANDER

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

WARNING: When lifting this machine, please ensure that there are two people lifting as it is heavy item.

8.1 ATTACHING THE RUBBER FEET - FIG.1

Lower the Sander onto its side and remove the feet (12) from their protective wrappings.

Remove the nut and washer from the thread.

Locate the four mounting points underneath the sander on each corner and insert the thread of the rubber foot into the mounting hole so that the foot points downward.

Place the washer onto the foot then followed by the nut and tighten with a spanner (not supplied).

Repeat this procedure for the other 3 x feet.

Place and site the sander at a suitable height allowing sanding operation to be carried out comfortably and in a safe manner.

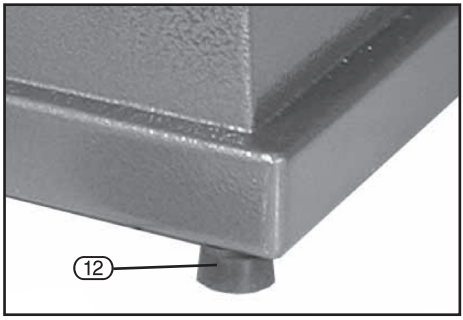


FIG.1

8.2 INSTALLING THE SANDING SLEEVES ONTO THE RUBBER DRUMS/BOBBIN - FIG. 2

This sander has been supplied with 3 x sanding sleeves and 3 x rubber drums, sizes; 50mm, 38mm and 19mm. Thee sleeves are already installed onto each drum.

To change the sleeve on the drum once its become worn, see Fig.2 for a detail breakdown of the sheet and drum.

The bobbin consists of a rubber drum body with a central metal axle passing through it. The axle has a key which locates into a keyway in the rubber body. This should not be altered unless the rubber body has become damaged. At either end of the rubber body are two large compression washers. At the top is a washer and nute which allows you to secure the sanding sleeve to the drum. The lower part of the axle is threaded which will in turn, locate into the main motor (9).

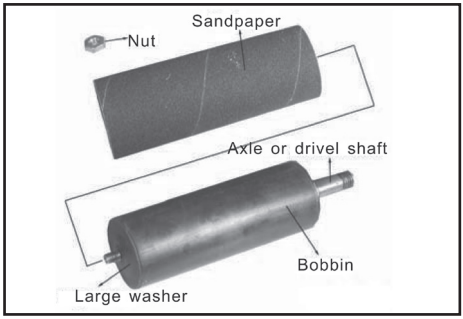


FIG.2

8. PREPARING THE SANDER

Remove the nut using a suitable spanner (FIG.3) and lift away the washer. Slide the sanding sleeve and drum clear of the bobbin and remove the sleeve.

If removal is difficult, lubricate the rubber body to enable fitting of a new sanding sheet.

FIG.3

Place the new sanding sleeve onto the rubber body (FIG.4) and slide onto the rubber body so it fits centrally with no edge of the sheet overhanging the rubber body.

Replace the washer and nut, tightening the nut with a spanner to expand the rubber body. This will in turn, secure and grip the sanding sleeve onto the rubber drum.

Note: Do not over-tighten the nut as this will distort the sanding sleeve.

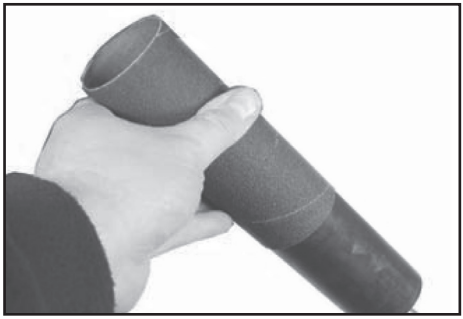


FIG.4

8.3 INSTALLING THE BOBBIN ONTO THE SANDER - FIG.5

Lower the bobbin down through the top of the machine.

Locate the thread on the spindle into the motor drive spindle thread.

Hold the motor drive spindle with your hand and tighten the bobbin into the motor drive spindle once the threads have located.

Use 2 x open ended spanners (not supplied) (FIG.5).

Use one spanner to hold the motor drive spindle and tighten the bobbin spindle with the other spanner. Do not over-tighten.

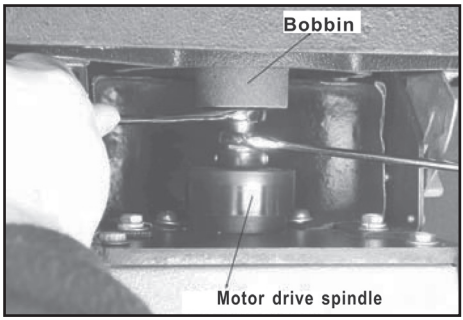


FIG.5

8.4 TABLE INSERTS - FIG.6

This sander comes supplied with 6 x table inserts. With a selection of round and oval cutouts.

For normal sanding, select the inserts with the round cutout.

Make note of the cutout on the edge of the table insert. This aligns the peg into the recess of the table (FIG.6). Lower into position, making sure that the table insert locates into the recess and is flush with the table.

To remove, push with your finger from underneath to dislodge the table insert.

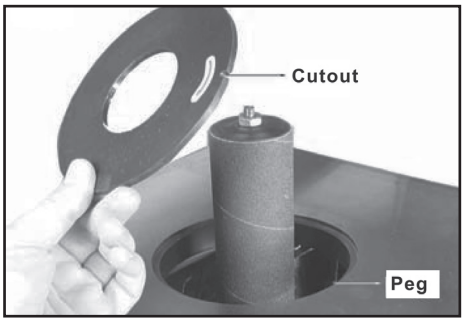


FIG.6

8.5 ENSURING THE TABLE TOP ALIGNS WITH ZERO DEGREES - FIGS.7 AND 8

The table top has the facility to tilt between 0° to 45°.

Note: Ensure that the table is set to 0° with regards to the bobbin. Use a suitable 90° square and place on the table top surface, then move the square with the bobbin confirming that it measures 90°accurately (FIG. 7).

If the table is not square, adjustment can be made to correct this. The stop bolt is located under the table and this allows for the adjustment of the level of the table.

Loosen the lock nut and raise or lower the stop bolt. Note when the table is set at 90° along with the bobbin then tighten the lock nut.

Locate the pointer and scale and untighten the pointer screw. Align with the 0° position on the scake and re-tighten the screw (FIG. 8)

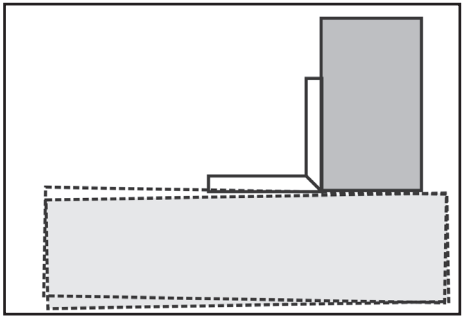


FIG.7

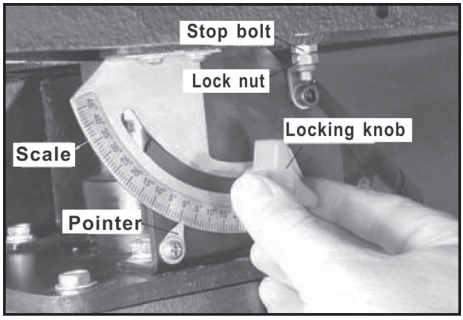


FIG.8

9. OPERATING THE SANDER

9.1 TILTING THE TABLE - FIG.9

Note: Remove the round cutout table insert before tilting the table to avoid damaging the insert.

The table will tilt 0°-45°. Once the desired angle has been set, tighten the two locking knobs found underneath the table (2) (FIG. 9).

Locate the oval table insert cutout (10) and place into the table top.

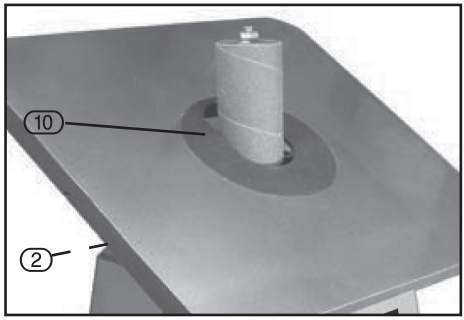


FIG.9

9.2 ON/OFF NO-VOLT SWITCH - FIG.10

This sander has a On/off no volt switch with an emergency stop function (7). In the event of a power failure, the motor will not start when power if restored.

Ensure that the sander is plugged into a suitable 13A outlet socket.

Lift the emergency stop cover to reveal the On/off switch (Fig. 10).

To switch on, press the green button and the sander will start. Then close the emergency stop cover. Do not push the red button as this will cause the motor to stop.

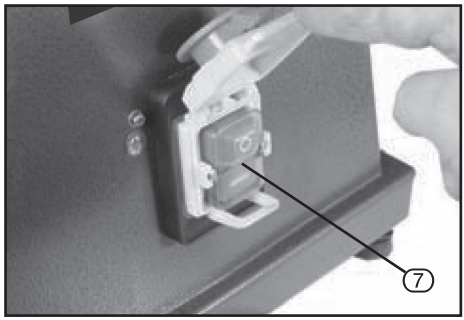


FIG.10

9.3 EMERGENCY STOP BUTTON - FIG.11

Simply press this button to stop the machine. There is no need to lift the cover when activating the emergency stop button. In the event of a power failure, the machine will not restart when the power is restored after pressing the emergency stop button.

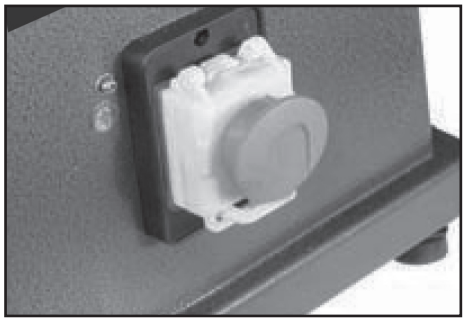


FIG.11

9.4 USING THE BOBBIN SANDER - FIG.12

Warning: Never start up the sander if there is already objects by the bobbin sander spindle.

Start the machine and wait for the motor to build up to full speed. Once at full speed, the bobbin will move up and down traveliing 24mm in total.

When running the sander will operate in a clockwise rotation (Fig. 12). Feed the material across and with the direction of rotation.

Note: Never feed the material into the sander and stand with your body directly behind it. The sander could kickback the material into the operator and cause serious injury.

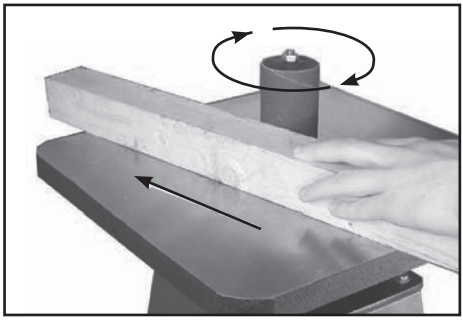


FIG.12

9.5 USING THE BOBBIN SANDER AT ANGLES 0-45° - FIG.13

Remove the round table insert and store in it's holder. Place in the oval table insert (Refer to 9.1 - Tilting the table) and loosen the table securing knobs (2) either side of the sander.

Tilt the table to the desired angle and then re-tighten the table securing knobs (2).

Always feed the material onto the sander in the same direction of rotation (Fig. 13).

Note: Always ensure that when the table has been tilted to a particular position, that the angle will only remain constant if the material is run parallel to that of the rotation of the bobbin.

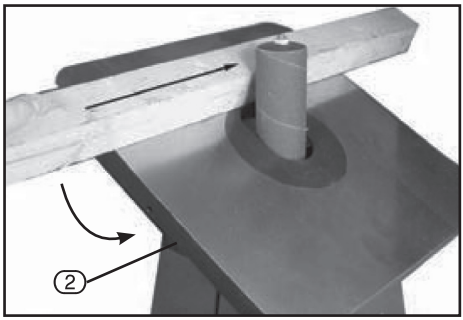


FIG.13

9.6 DUST EXTRACTION - FIG.14

The sander is fitted with a 50mmØ dust extraction outlet port. This is located on the rear of the sander and should be attached to a suitable extractor/dust collector device.

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.

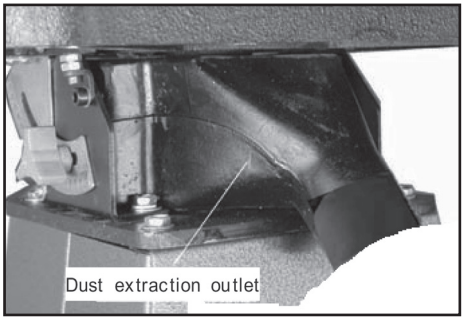


FIG.14

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.

10.2 TROUBLESHOOTING GUIDE

Warning! For you own safety always turn the main switch on the machine “OFF” and remove the plug from the power supply before carrying out any maintenance or troubleshooting.

Problem	Possible Cause	Remedy
Motor does not start.	1. Defective ON/OFF switch.	1. Replace defective parts before using again.
	2. Burned out motor.	2. Any attempt to repair this motor may create a HAZARD unless repair is done by a qualified service technician.
Machine slows down when sanding.	1. Drive belt too tight.	1. Decrease belt tension.
	2. Applying too much pressure to workpiece.	2. Ease up on pressure.
Sanding belt runs off pulleys.	1. Not tracking properly.	1. Adjust tracking.
Wood burns while sanding.	1. Sanding disc or belt is glazed with sap.	1. Replace disc or belt.

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

11. EXPLANATION OF SYMBOLS

11.1 EXPLANATION OF SYMBOLS

Read the instruction manual.

Wear face mask and safety glasses.

Disable the machine before attempting to maintain it.

WEEE –
Waste Electrical & Electronic Equipment.

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

Earthed.

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.*

NOTES

CONTACTS

Draper Tools Limited, Hursley Road,
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Help Line: (023) 8049 4344

Sales Desk: (023) 8049 4333

Internet: drapertools.com

E-mail: sales@drapertools.com

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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