



EN

Original Instructions
Version 2 – September 2025

230V 125MM

RANDOM ORBIT SANDER

92624



1. Preface

These are the original product instructions. This document is part of the product; retain it for the life of the product, passing it on to subsequent holders. Read this manual in full before attempting to assemble, operate or maintain this product.

This Draper Tools manual describes the purpose of the product and contains all the necessary information to ensure its correct and safe use. Following all the instructions and guidance in this manual will ensure the safety of both the product and the operator and increase the lifespan of the product.

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

Every effort has been made to ensure the information contained in this manual is accurate. However, Draper Tools reserves the right to amend this document without prior warning. Always use the latest version of the product manual.

1.1 Product Reference

User Manual for: 230V 125mm Random Orbit Sander

Stock No: 92624

Part No: ROS450D

1.2 Revisions

Version 1: December 2021
First release

Version 2: September 2025

As our manuals are continually updated, always ensure that the latest version is used.

Please visit drapertools.com/manuals for the latest version of this manual and the associated parts list, if applicable.

1.3 Understanding the Safety Content of This Manual



WARNING! – Situations or actions that may result in personal injury or death.



CAUTION! – Situations or actions that may result in damage to the product or surroundings.

Important: – Information or instructions of particular importance.

1.4 Copyright © Notice

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In all cases, this copyright notice must remain intact.

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3.1 Intended Use

This sander is designed to for light to medium duty sanding of wood and similar materials only.

Any other application beyond the conditions established for use will be considered misuse. Draper Tools accepts no responsibility for improper use of this product.

Read this manual in full before attempting to assemble, operate or maintain the product, and retain it for later use.

3.2 Specification

Stock No.	92624
Part No.	ROS450D
Rated voltage:	230V/50Hz
Rated input:	450W
Oscillations per minute:	6,000 – 13,000opm
Pad diameter:	125mm
Pad type:	Hook and loop
Noise emissions:	
Sound pressure level:	81.6dB(A)
Sound power level:	92.6dB (A)
Uncertainty:	3dB (A)
Vibration level:	7.62m/s ²
Net weight:	2.1kg
Cord length (approx.):	1.8M

Important: The declared vibration total values and noise emissions values have been measured in accordance with a standard test method and may be used for comparing one tool with another. These values may also be used in a preliminary assessment of exposure.



WARNING! The vibration and noise emissions during actual use of the product can differ from the declared values depending on the type of work and the area upon which it is used. Before each use, estimate the likely exposure resulting from the actual conditions of use. Take into account all parts of the operation cycle in order to identify any safety measures required to protect the operator.

Important: Read all the Health and Safety instructions before attempting to operate, maintain or repair this product. Failure to follow these instructions may result in injury or damage to the user, the product or the workpiece.

4.1 General Power Tool Safety Warnings



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 tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

Work Area Safety

- **Keep work area clean and well lit.**
 - Cluttered or dark areas invite accidents.
- **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.
- **Keep children and bystanders away while operating a power tool.**
 - Distractions can cause you to lose control.

Electrical Safety

- **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.
- **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.
- **DO NOT expose power tools to rain or wet conditions.**
 - Water entering a power tool will increase the risk of electric shock.
- **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.
- **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.

- **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.

Personal Safety

- **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.
- **Use personal protective equipment. Always wear eye protection.**
 - Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.
- **Prevent unintentional starting. Ensure the switch is in the 'OFF' position before connecting to power source, 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.
- **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.
- **DO NOT overreach. Keep proper footing and balance at all times.**
 - This enables better control of the power tool in unexpected situations.
- **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.
- **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.
- **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.

Power Tool Use and Care

- **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.
- **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.
- **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.
- **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.
- **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.
- **Keep cutting tools sharp and clean.**
 - Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- **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.
- **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.

Service

- **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.

4.2 Additional Safety Instructions for Sanders

- **ALWAYS** wear a suitable dust mask and eye protection when operating the sander.
- Connect dust extraction equipment and ensure they are connected and used correctly.
- Ensure there is adequate ventilation in the work area when using this sander.
- **NEVER** leave the sander unattended with the motor running.
- **DO NOT** use this sander in conjunction with water for sanding applications. There is no adequate protection for liquid ingress when used for this type of operation.
- **DO NOT** overload the sander. Excess pressure when sanding reduces the effectiveness of the sander and will cause the motor to overload.
- Hold the power tool by insulated gripping surfaces, because the sanding surface may contact its own cord.
 - Cutting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.

4.3 Connection to the Power Supply



CAUTION! Risk of electric shock. DO NOT open.

This appliance is supplied with an approved plug and cord for your safety.

If the power supply cord is damaged, it must be replaced by Draper Tools, an authorised service agent or similarly qualified personnel in order to avoid a hazard.

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

This appliance is Class II¹ and is designed for connection to a power supply matching that detailed on the rating label and compatible with the plug fitted.

The value of the fuse fitted is marked on the pin face of the plug. Should the fuse need replacing, use a small

plain-slot screwdriver to remove the fuse cover. Ensure the substitute is of the correct rating, approved to BS 1362 and ASTA or BS Kite marked. This should only be performed by suitably qualified personnel.

ASTA 

BSI 

Important: If an extension lead is required, use an approved and compatible lead rated for this appliance.

Unwind the entire cable and 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.

4.4 Residual Risk

The safety instructions in this manual cannot account for all possible conditions and situations that may occur.

Exercise common sense and caution when using this product and protect against any additional conceivable risks.

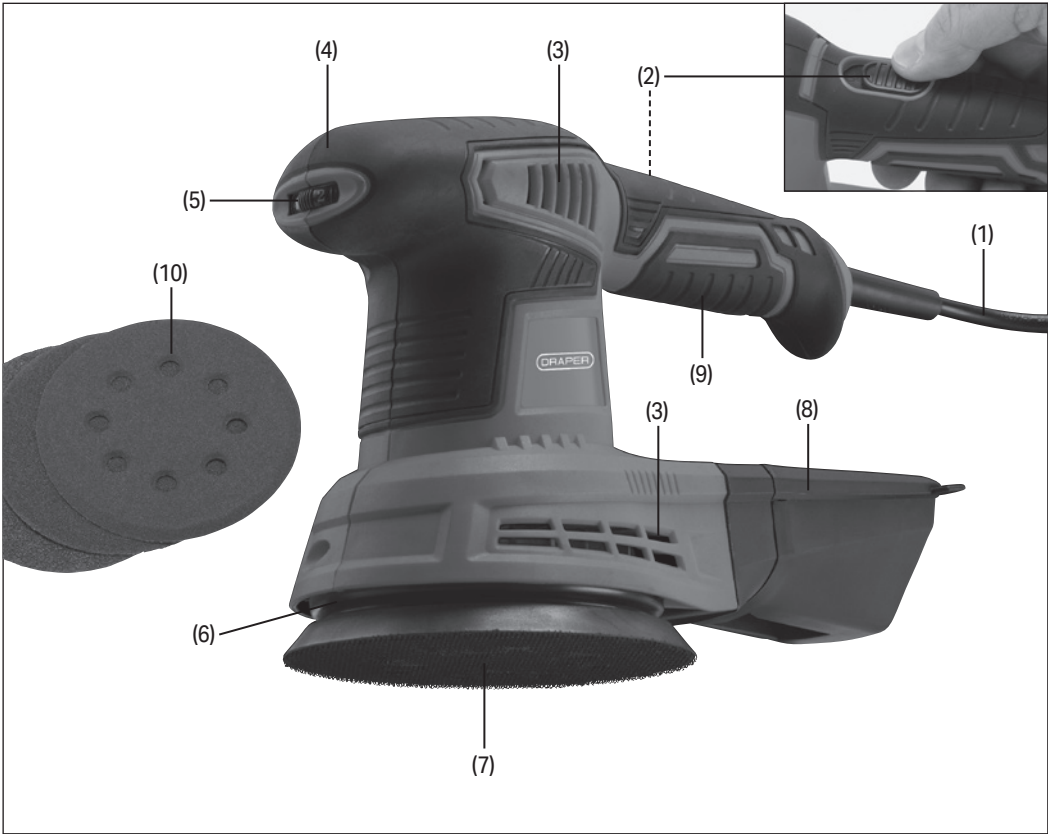
Please visit **[drapertools.com](https://www.drapertools.com)** for our full range of accessories and consumables.

5. Identification and Unpacking

have occurred during shipment. If any part is damaged or missing, do not attempt to use the product. Please

contact the Draper Helpline; contact details can be found at the back of this manual.

5.1 Product Overview



- | | |
|--------------------------|---|
| (1) Plug and cord | (6) Base |
| (2) ON/OFF switch | (7) Hook and loop base pad |
| (3) Ventilation slots | (8) Dust collector |
| (4) Auxiliary handle | (9) Handle |
| (5) Variable speed | (10) 3 X 125mm Sanding sheets (60g, 80g, 120g grit) |

5.2 Packaging

Keep the product packaging for the duration of the warranty period in case the product needs to be returned for repair.



WARNING! Keep packaging materials out of reach of children. Dispose of packaging correctly and responsibly and in accordance with local regulations.

6. Preparation Instructions

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Important: Before preparing or adjusting this product, read and understand all the safety instructions listed in this manual.

6.1 Fitting/Replacing Sanding Sheet (Fig.1)

- Press a hook and loop sanding sheet (10) onto the base pad (7).
- Ensure the holes in the sanding sheet align with the holes in the base pad for maximum dust extraction.
- To remove a worn sheet, simply pull away from the base pad.

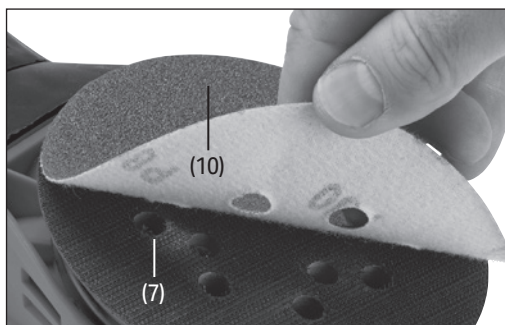


Fig. 1

6.2 Fitting and removing the Dust Collector (Fig.2 & Fig.3)

- The dust outlet (8.1) can be connected to a dust extractor machine or where not available use the dust collector (8) supplied.
- Unplug the sander before fitting or removing the dust collector.
- **Fitting the dust collector:**
 - Attach the dust collector (8) by pushing onto the outlet port until secure and a click is heard.
- **Removing the dust collector:**
 - Gently pull the collector (8) down and off the outlet.
 - Remove the top of the collector and empty bag.
 - **DO NOT** wash the collector or filter.
 - Empty the collector on a regularly basis.

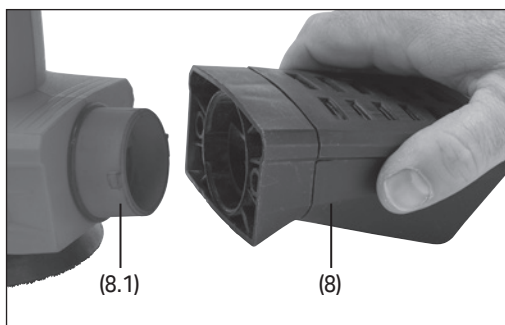


Fig. 2



Fig. 3

Important: Before operating this product, read and understand all the safety instructions listed in this manual.

Notes:

- Apply equal pressure on the workpiece with the base pad remaining flat. Attempting to sand areas using only the edge will lead to damage to the base pad.
- Abrasive sheets and the base pad are consumable items. Replace abrasive sheets when clogged with material or when surface/edge has rips, cracks or worn areas.
- Select the correct sanding grit to achieve the desired finish:
 - The higher the grit number the finer the finish.
 - Use a coarse grade 60/80 grit for removing large amounts of materials.
 - For finishing work use a fine grade 120 sheet.
 - When removing paint from a wood surface the grit will tend to clog.

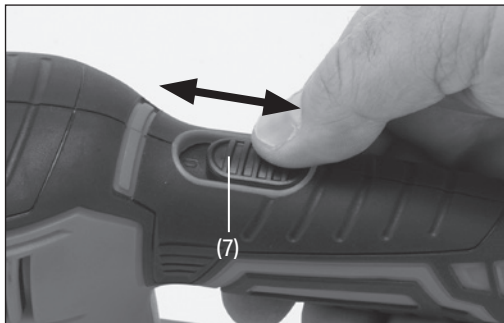


Fig. 4

7.1 Switching ON/OFF (Fig.4)

- Ensure the sander is raised off the workpiece.
- Then move the switch (2) to 'I/ON' to turn on the sander.
- To stop the sander, move the switch (2) to the 'O/OFF' position.

Important: **ALWAYS** unplug the tool from the power supply before carrying out any cleaning, adjustment or maintenance.

8.1 General Maintenance

- Regular inspection and cleaning will reduce 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.
- **DO NOT** use solvents or fuel to clean the sander.
- Store in a dry safe place out of the reach of children when not in use.

8.2 Troubleshooting

Problem	Possible Cause	Remedy
Motor does not start	Plug fuse blown	Check plug fuse and replace if necessary
	Brushes worn/Other issue	Replace brushes Contact Draper Tools for advice
Sanding efficiency reduced	Abrasive sheet worn, clogged or cracked	Replace sanding sheet

9. Spares, Returns and Disposal

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For spare parts, servicing, and repair and replacement options, please contact the Draper Tools Product Helpline for details of your nearest authorised agent.

Draper Tools will endeavour to hold any spare parts, if applicable, for seven years from the date that it sells the final matching stock item.

Any servicing or repairs carried out by unauthorised personnel or installation of spare parts not supplied by Draper Tools will invalidate your warranty.

At the end of its working life, dispose of the product responsibly and in line with local regulations. Recycle where possible.

- **DO NOT** dispose of this product with domestic waste; most local authorities provide appropriate recycling facilities.



10. Warranty

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24 months from date of purchase - **Visit [drapertools.com/warranty](https://www.drapertools.com/warranty)** for more information.

Where tools are hired out the warranty period is 90 days from the date of purchase.

This warranty does not cover consumable parts, normal wear & tear, damage, misuse, careless or unsafe handling.

Draper Tools Limited



Read the instruction manual



Wear face mask and safety glasses



Wear ear defenders



Wear protective gloves



Long and loose hair must be contained
or securely tied back



Keep out of the reach of children



Warning!



For indoor use only;
do not expose to rain



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



European conformity



UK Conformity Assessed



Class II construction
(Double insulated)

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Please contact the Draper Tools Product Helpline for repair and servicing enquiries.