





20V 125mm DUALACTION POLISHER



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.

TITLE PAGE

1.1 INTRODUCTION:

USER MANUAL FOR: 20V 125mm Dual Action Polisher

Stock No: 55741 Part No: D20DAP125

1.2 REVISIONS:

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

Downloads are available from: http://www.drapertools.com/manuals

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1.3 UNDERSTANDING THIS MANUAL'S 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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DECLARATION OF CONFORMITY ENCLOSED

3. WARRANTY

3.1 WARRANTY

Draper power tools have been carefully tested & inspected and are guaranteed to be free from defective materials or workmanship.

For details of warranty and terms and conditions please visit the Draper Tools website at **www.drapertools.com/warranty**

4. INTRODUCTION

4.1 SCOPE

Dort No

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

Part No	D20DAP125
Disc diameter	125mm
Speed (no load)	1500-3000rpm
Spindle thread	
Sound pressure level (LpA)*:	73.73 dB(A), K=3dB(A)
Sound power level (LWA)**:	84.73 dB(A), K=3dB(A)
Uncertainty (K):	3dB(A)
Vibration level Main handle†:	8.363m/s², K=1.5m/s²
Vibration level Extra handle†:	9.412m/s², K=1.5m/s²

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

4.3 HANDLING & 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 cloqued.
 - If not cleaned and maintained correctly or regularly, the machine will not perform at its best.

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.

5.3 SPECIFIC SAFETY INSTRUCTIONS FOR ANGLE POLISHER

Warning: Read all safety warnings and all instructions. Failure to follow the warnings and instructions 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.
- 3. **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

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 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 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.

- 4. **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.

Power tool use and care

- 1. **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.
- 2. **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.
- 3. 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.
- 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. 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.
- 7. 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.

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.

5.4 SAFETY WARNINGS COMMON FOR POLISHING OPERATIONS

This power tool is intended to function as a polisher. 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

Operations such as grinding, sanding, wire brushing and cutting off are not recommended to be performed with this power tool. Operations for which the power tool was not designed may create a hazard and cause personal injury.

Do not use accessories which are not specifically designed and recommended by the tool manufacturer. Just because the accessory can be attached to your power tool, it does not assure safe operation.

The rated speed of the accessory must be at least equal to the maximum speed marked on the power tool. Accessories running faster than their rated speed can break and fly apart.

The outside diameter and the thickness of your accessory must be within the capacity rating of your power tool. Incorrectly sized accessories cannot be adequately guarded or controlled.

Do not use a damaged accessory. Before each use inspect the backing pad for cracks, tears or excessive wear. If power tool is dropped, inspect for damage or install an undamaged accessory. After inspecting or installation of accessory, position yourself and bystanders away from the plane of the rotating accessory and run the power tool at maximum no load speed for a minute, damaged accessories will usually break apart during this test time.

Wear personal protective equipment. Depending on application, use face shield safety goggles or safety glasses. As appropriate, wear dust mask, hearing protectors, gloves and workshop apron capable of stopping small abrasive or workpiece fragments. The eye protection must be capable of stopping flying debris generated by various operations. The dust mask or respirator must be capable of filtrating particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss. The gloves must fit well and not be loose, loose gloves could catch in rotating parts and lead to person injury.

Keep bystanders a safe distance away from work area. Anyone entering the work area must wear personal protective equipment. Fragments of workpiece or of a broken accessory may fly away and cause injury beyond immediate area of operation.

Never lay the power tool down until the accessory has come to a complete stop. The spinning accessory may grab the surface and pull the power tool out of your control.

Do not run the power tool while carrying it at your side. Accidental contact with the spinning accessory could snag your clothing, pulling the accessory into your body.

Regularly clean the power tool's air vents. The motor's fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.

Do not operate the power tool near flammable materials. Sparks could ignite these materials.

Do not use accessories that require liquid coolants. Using water or other liquid coolants may result in electrocution or shock.

Kickback and Related Warnings

Kickback is a sudden reaction to a pinched or snagged rotating wheel, backing pad, brush or any other accessory. Pinching or snagging causes rapid stalling of the rotating accessory which in turn causes the uncontrolled power tool to be forced in the direction opposite of the accessory's rotation at the point of the binding.

For example, if an abrasive wheel is snagged or pinched by the workpiece, the edge of the wheel that is entering into the pinch point can dig into the surface of the material causing the wheel to climb out or kick out. The wheel may either jump toward or away from the operator, depending on direction of the wheel's movement at the point of pinching. Abrasive wheels may also break under these conditions.

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

Maintain a firm grip on the power tool and position your body and arm to allow you to resist kickback forces. Always use auxiliary handle, if provided, for maximum control over kickback or torque reaction during start-up. The operator can control torque reactions or kickback forces, if proper precautions are taken.

Never place your hand near the rotating accessory. Accessory may kickback over your hand.

Do not position your body in the area where power tool will move if kickback occurs. Kickback will propel the tool in direction opposite to the wheel's movement at the point of snagging.

Use special care when working corners, sharp edges etc. Avoid bouncing and snagging the accessory. Corners, sharp edges or bouncing have a tendency to snag the rotating accessory and cause loss of control or kickback.

Do not attach a saw chain woodcarving blade or toothed saw blade. Such blades create frequent kickback and loss of control.

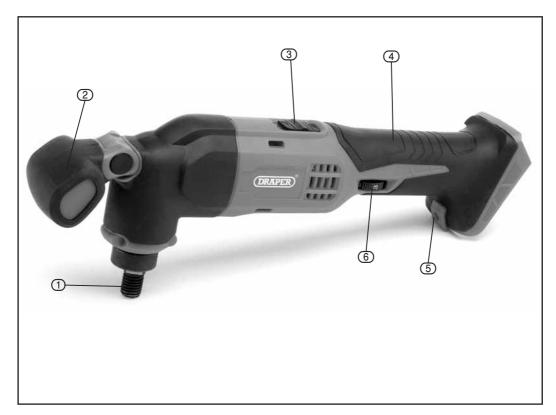
Do not allow any loose portion of the polishing bonnet or its attachment strings to spin freely. Tuck away or trim any loose attachment strings. Loose and spinning attachment strings can entangle your fingers or snag on the workpiece.

5.5 RESIDUAL RISK

Important note: Although the safety instructions and operating manuals for our tools contain extensive instructions for 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!

6. TECHNICAL DESCRIPTION

6.1 IDENTIFICATION



- 1 M14 spindle.
- 2 Adjustable handle.
- 3 On/off button.
- 4 Soft grip.

- 5 LED worklight.
- 6 Variable speed control.

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 D20 MULTI-TOOL INTERCHANGEABLE BATTERY SYSTEM

The D20 range of tools are a range of tools suitable for enthusiasts and tradespersons alike, featuring a wide array of machines all running from the same range of batteries. Many different capacity batteries are available making sure you can balance tool weight with longevity and find a battery that meets

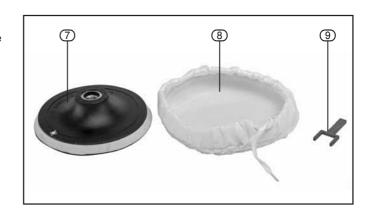


your needs. To find out the latest range of accessories including batteries and chargers please consult the Draper website for more information or to find your local Draper stockist.

7.3 WHAT'S IN THE BOX

As well as the main product, there are also several other parts not fitted or attached to it:

- 7 125mmØ hook and loop backing pad.
- 8 Polishing bonnet.
- 8 Disc changing spanner.



8. PREPARING THE POLISHER

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

8.1 ADJUSTING THE HANDLE - FIGS. 1 - 2

Choose the best orientation to suit operator comfort and application in hand.

Push in side button 2.1 to pivot the handle 2.

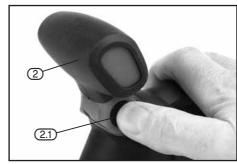


FIG.1

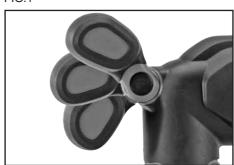


FIG.2

8.2 FITTING THE BACKING PAD - FIGS. 3 - 4

To make the polisher function, the hook and loop backing pad 7 needs to be fitted. Offer up the backing pad 7 to the M14 spindle 1 and screw clockwise until tight.

Tighten using the disc changing spanner 9.



FIG.3

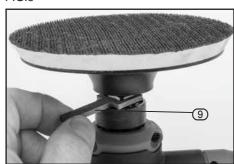


FIG.4

8. PREPARING THE POLISHER

FITTING THE POLISHING BONNET -8.3 FIGS. 5 - 6

Turn the tool body over and align the polishing bonnet (8), hook and loop side, over the backing pad (7). Push into place, the hook and loop feature will grip the polishing bonnet.

Once in place fold down the skirt of the bonnet and tie the draw strings tightly around the neck of the backing pad, securing it in place.

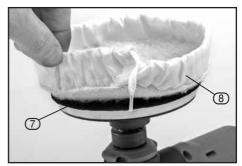


FIG.5



8.4 **ON/OFF BUTTON - FIG. 7**

Slide forward and backwards to switch on or off.

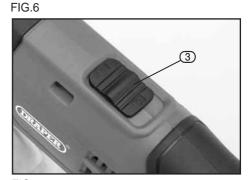


FIG.7



FIG.8

VARIABLE SPEED CONTROL -8.5 FIG. 8

Use the variable speed control dial (6) to adjust working speed as appropriate.

8. PREPARING THE POLISHER

8.6 HOOK AND LOOP - FIG. 9

Compatible with all 125mm hook and loop accessories.



FIG.9

NOTE: We strongly recommend that the polisher, speed setting, the polishing sponge/mop and medium being used are tested on a small, inconspicuous area before applying to a vehicle panel or similar.

IMPORTANT: Excessive pressure on the machine does not result in higher working speed. It increases wear on the internal mechanics and can damage the polisher.

9. MAINTENANCE

9.1 MAINTENANCE

Periodically blow out all air passages with dry compressed air. Wear safety glasses while using compressed air.

All plastic parts should be cleaned with a soft damp cloth. NEVER use solvents to clean plastic parts, because these can cause damage to the item.

If anything unusual happens during use of the item then turn the item off. Remove the plug from the power source and check the item thoroughly. If necessary have the machine repaired by a qualified technician before using it again.

All repairs should be carried out by a qualified technician. Repair or maintenance undertaken by unqualified persons can cause risk of injury or damage.

Use only original parts for the repair of this tool.

10. TROUBLESHOOTING

10.1 TROUBLESHOOTING GUIDE

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

Problems	Possible cause	Required action	
Motor does not start.	Battery pack no charge.Battery faulty or damaged.	Re-charge battery. Replace battery.	
Motor runs, but slowly/ losing power.	Battery pack no charge.Battery pack faulty or damaged.	Re-charge battery. Replace battery.	
Battery pack doesn't charge / non-llumination / non illumination of charger.	Fuse blown in charger plug. Charger faulty.	Replace fuse.Replace charger.	
Machine vibrates.	 Pad/bonnet damaged or out of balance. 	Replace pad/bonnet.	

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

†Polishing bonnets and the base pad are considered consumable items.

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



Read the instruction manual.



Class II construction. (Double insulated).



Wear safety glasses and dust mask.



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



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!

NOTES

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Service/Warranty Repair Agent:

YOUR DRAPER STOCKIST

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

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