

Stock No.80270 Part No.AP2000E

IMPORTANT:

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





GENERAL INFORMATION

This manual has been compiled by Draper Tools and is an integrated part of the product with which it is enclosed and should be kept with it for future references.

This manual describes the purpose for which the product has been designed and contains all the necessary information to ensure its correct and safe use. We recommend that this manual is read before any operation or, before performing any kind of adjustment to the product and prior to any maintenance tasks. 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 accuracy of information contained in this manual, the Draper Tools policy of continuous improvement determines the right to make modifications without prior warning.



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DECLARATION OF CONFORMITY

We:

Draper Tools Ltd., Hursley Road, Chandler's Ford, Eastleigh, Hampshire. SO53 1YF. England.

Declare under our sole responsibility that the product:

Stock No:- **80270.**

Part No:- AP2000E.

Description:- Angle Polisher/Sander 230V.

To which this declaration relates is in conformity with the following directive(s)

73/23/EEC, 98/37/EC, 89/336/EEC

With reference to

EN50144-1+A1:2002, EN50144-2-3:2002+A1:2002+A2:2003, EN55014:2000+A1:2001, EN55014-2:1999+A1:2001, EN61000-3-2:2000, EN61000-3-3:1995

J.N. Draper Managing Director

23/04/2005



SPECIFICATION

The Draper Tools policy of continuous improvement determines the right to change specification without notice.

Stock No.	80270
Part No.	AP2000E
Voltage:	230V/50Hz
Voltage:	2000W
Output:	670W/
Disc Diameter:	175mm
Bore:	22.2mm
Spindle Thread:	M14
Speed (no load):	800–2750RPM
S'peed (no load): Sound Pressure Level:	91.0dB(A)
Sound Power Level:	104 0dR <i>i</i> Ai
Vibration Level:	2.2m/s ²
Weight:	

ALWAYS WEAR EAR AND EYE PROTECTION



GUARANTEE (Hand held professional electric power tools)

Draper hand held professional power tools have been carefully tested and inspected before shipment and are guaranteed to be free from defective materials and workmanship for a period of 12 months from the date of purchase except where tools are hired out when the guarantee period is reduced to ninety days from the date of purchase.

Should the machine develop any fault where warranty applies, arrangements will be made for the tool to be returned free-of-charge to the Service Centre at Draper Tools Limited.

Please contact: **DRAPER HELPLINE - (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, the product will be repaired and tested as soon as possible free of charge, normally within five working days. This guarantee does not apply to normal wear and tear, nor does it cover any damage caused by misuse, careless or unsafe handling, alterations, accident, or repairs attempted or made by any personnel other than the Service Centre at Draper Tools Limited or other authorised agent.

Note: If the tool is found not to be within the Terms of Warranty, repair and carriage charges will be quoted and made accordingly.

This guarantee applies in lieu of any other guarantee expressed or implied and variations of its terms are not authorized.

Your Draper guarantee is not effective unless you produce a dated receipt or invoice to verify your proof of purchase within the 12 month period.

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

Draper Tools Limited.



POWER SUPPLY

CONNECTING YOUR MACHINE TO THE POWER SUPPLY: (230V ONLY)

- To eliminate the possibility of an electric shock your machine has been fitted with a BS approved, non rewireable moulded plug and cable which incorporates a fuse, the value of which is indicated on the pin face of the plug. If the plug is marked with the symbol and the fuse needs replacing, an approved BS1362 fuse must be used of the same amp rating. If the plug is not marked, a fuse with the symbol, or both some and BS Kitemark, of the same amp rating should be used.
- The fuse cover is detachable, never use the plug with the cover omitted. If a replacement fuse cover is required, ensure it is the same colour as that visible on the pin face of the plug (i.e. red). Fuse covers are available from your Draper Tools stockist.
- If the fitted plug is not suitable, it should be cut off and destroyed. *The end of the cable should now be suitably prepared and the correct type of plug fitted. See below.

*WARNING:

- A plug with bare flexible wires exposed is hazardous if engaged in a live power socket outlet.

WARNING: THIS APPLIANCE IS DOUBLE INSULATED. (230V ONLY)

- The mains lead is coloured Blue – Neutral & Brown – Live. As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter 'N' or coloured black or blue. The wire which is coloured brown must be connected to the terminal which is marked with the letter 'L' or coloured red or brown.

EXTENSION LEAD CHART:

Extension lead sizes shown assure a voltage drop of not more than 5% at rated load of tool.

Ampere rating (on Name plate)	3	6	10	13
Extension cable length		Wire Siz	ze mm ²	
7.5M	0.75	0.75	1.0	1.25
15M	0.75	0.75	1.0	1.5
22.5M	0.75	0.75	1.0	1.5
30M	0.75	0.75	1.25	1.5
40M	0.75	0.75	1.5	2.5



GENERAL SAFETY INSTRUCTIONS FOR POWER TOOLS

WARNING:

Please read the following instructions carefully, failure to do so could lead to serious personal injury. When using electric tools, basic safety precautions, including the following, should always be followed to reduce the risk of fire, electric shock and personal injury. Read all these instructions before operating this product and save these instructions.

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.

1. KNOW YOUR POWER TOOL

Read and understand the owner's manual and labels affixed to the tool. Learn its application and limitations as well as the specific potential hazards peculiar to this tool.

KEEP WORK AREA CLEAN

Cluttered areas and benches invite accidents. Floors must not be slippery due to oil or sawdust.

AVOID DANGEROUS ENVIRONMENTS

Do not use power tools in damp or wet locations, or expose them to rain. Keep work area well lit. Provide adequate space surrounding the work area. Do not use in environments with a potentially explosive atmosphere.

4. KEEP CHILDREN AWAY

All visitors should be kept a safe distance from work area.

STORED TOOLS

When not being used, all tools should be stored in a dry, locked cupboard and out of the reach of children.

WEAR PROPER CLOTHING

Do not wear loose clothing, neckties or jewellery (rings, wristwatches) to catch in moving parts. NONSLIP footwear is recommended. Wear protective hair covering to contain long hair. Roll long sleeves above the elbow.

USE SAFETY GOGGLES (Head Protection)

Wear CE approved safety goggles at all times. Normal spectacles only have impact resistant lenses, they are NOT safety glasses. Also, use face or dust mask if application is dusty and ear protectors (plugs or muffs) during extended periods of operation.

NOISE LEVELS

Some types of machines may have high noise levels when working. In such cases ear protection must be worn.

VIBRATION LEVELS

Hand held power tools produce different vibration levels. You should always refer to the specifications and relevant Health and Safety guide.

10. DUST EXTRACTION

If your tool is fitted with a dust extraction fitting, always ensure that it is connected and being used with a dust extractor. Vacuum cleaners can be used if suitable for the material being extracted.

11. PROTECT YOURSELF FROM ELECTRIC SHOCK

When working with power tools, avoid contact with any earthed items (e.g. pipes, radiators, hobs and refrigerators, etc.). If you are using a power tool in extreme conditions (e.g. high humidity or generating metal dust), always use an RCD (residual current device) at the power socket.

12. STAY ALERT

Always watch what you are doing and use common sense. Do not operate a power tool when you are tired or under the influence of alcohol or drugs.

13. WHEN WORKING OUT OF DOORS

Only use extension leads designed for that purpose.

14. ACCESS TO MAINS SOCKET

If a stationary machine is fitted with a moulded plug and cable, the machine should not be positioned so that access to the mains socket is restricted.

15. DISCONNECT POWER TO THE TOOL

When not in use, before servicing and when changing accessories such as cutters, etc.

16. AVOID ACCIDENTAL STARTING

Make sure the switch is in the OFF position before plugging the machine into the power supply.

17. NEVER LEAVE MACHINE RUNNING UNATTENDED

Turn power off. Do not leave machine until it comes to a complete stop.

18. DO NOT ABUSE THE CORD

Never carry the tool by the power cable or pull it from the socket. Keep the power cable away from heat, oil and sharp edges. If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid hazard.

19. NEVER STAND ON TOOL

Serious injury could occur if the tool is tipped or if the cutting tool is accidentally contacted. Do not store materials above or near the tool, so that it is necessary to stand on the tool to reach them.

20. CHECK DAMAGED PARTS

Before further use of the tool, a quard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, free running of moving parts, breakage of parts, mounting and any other conditions that may affect its operation. A guard or other part that is damaged should be repaired properly or replaced by an authorized service centre unless otherwise indicated in this instruction manual. Have defective switches replaced by an authorized service facility. Do not use the tool if the switch does not turn it on and off.

21. KEEP GUARDS IN PLACE

And in working order.

22. MAINTAIN TOOLS WITH CARE

Keep tools sharp and clean for the best and safest performance. Follow instructions for lubricating and changing accessories. All extension cables must be checked at regular intervals and replaced if damaged. Always keep the hand grips on the tool clean, dry and free of oil and grease.

23. USE RECOMMENDED ACCESSORIES

Consult the owners manual for recommended accessories. Follow the instructions that accompany the accessories. The use of improper accessories may cause hazards.

24. REMOVE ADJUSTING KEYS AND WRENCHES

Form a habit of checking to see that keys and adjusting wrenches are removed from the tool before turning it on.

25. SECURE WORK

Use clamps or a vice to hold work. This frees both hands to operate the tool

26. DO NOT OVERREACH

Keep proper footing and balance at all times.

27. USE RIGHT TOOL

Do not force the tool or attachment to do a job for which it was not designed.

28. DO NOT FORCE TOOL

It will do the job better and safer at the rate for which it was

29. DIRECTION OF FEED

Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.

30. WHEN DRILLING OR SCREWING INTO WALLS

Always make sure there is no danger of hitting any hidden power cables, water or gas pipes in the wall.

31. HAVE YOUR TOOL REPAIRED BY A QUALIFIED PERSON

This electric tool is in accordance with the relevant safety requirements. Repairs should only be carried out by qualified persons using original spare parts, otherwise this may result in considerable danger to the user.

IMPORTANT NOTE:

Residual Risk. Although the safety instructions and operating manuals for our tools contain extensive instructions on 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!



GETTING TO KNOW YOUR ANGLE POLISHER



- (1) Switch Lever.
- (2) Switch Lever Lock Button.
- (3) Variable Speed Dial.
- 4 Hand Grip.
- (5) Auxilary Handle.
- (6) Spindle Lock Button.
- 7 BS Moulded Plug & Cable.
- (8) Pin Spanner.
- (9) 22mm Spanner.

UNPACKING:

After removing the packing material, make sure the product is in perfect condition and that there are no visible damaged parts. If in doubt, do not use the angle polisher and contact the dealer from whom it was purchased.

The packaging materials (plastic bags, polystyrene etc.,) must be disposed of in an appropriate refuse collection container. These materials must not be left within the reach of children as they are potential sources of danger.



ASSEMBLY

NOTE:

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

FITTING THE AUXILARY HANDLE: (FIG.1)

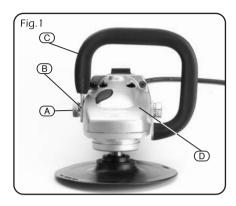
- Choose the best orientation to suit operator comfort and application in hand.
- Pass the two 22mm bolts (A) through washers (B), handle (C) and into the threaded apartures in the front housing (D).

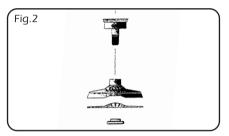
FITTING THE DISC: (FIG.3 & 4)

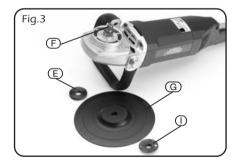
- Fit flange (E) and ensure it engages with the flat on spindle (F).
- Place the backing pad G onto the spindle followed by a suitable sanding disc (not supplied).
- Lock the spindle with button (H) on the head of the machine (Fig.4).
- With the spindle locked, screw the flange nut ① onto the spindle and tighten with pin spanner ② (supplied).

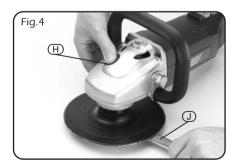
NOTE:

Never press the spindle lock button while the spindle is in motion.











OPERATION AND USE

SWITCH: (FIG.5)

Press the trigger lock button ① and hold, pull trigger (K) to start the polisher, release button ① followed by the trigger (K) to stop the machine.

For prolonged operation it is possible to lock the trigger in the 'on' position.

- Press the trigger lock button ① and hold, pull trigger (K) to start the polisher, release trigger (K) and button ① will remain locked in and the polisher will continue running.
- To release the lock, pull trigger (K) once.

VARIABLE SPEED DIAL: (FIG.6)

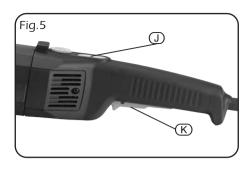
Rotate dial through settings 'A' to 'G' varies the motor speed. Setting 'A' is the slowest speed.

IMPORTANT:

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

NOTE:

When using the wire cup brush, ensure the spindle does not exceed the wire length.





IMPROPER USE: The functions and use of this tool are those exclusively indicated in this manual.

Workpiece Material	Application	Speed Setting
Painted and varnish coated surfaces Wood Plastics Stone	Operation with polishing paste Brilliance polishing	A, B
Plastics Wood Non-ferrous metals	Polishing	С
Plastics Stone Non-ferrous metals	Smoothing surfaces	E, D
Metals Wood	Paint removal	F
Metals Wood	Rust removal Brushing	F
Wooden profiles Window frames	Re-sanding	G



TROUBLESHOOTING

NOTE:

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

Problem	Cause	Remedy
Motor does not start	 Fuse Brushes worn Other 	 13 amp time delay fuse or circuit breaker Replace brushes Authorized service agent
Machine vibrates	Disc damaged or out of balance	Replace disc
Disc will not cut/grind	Incorrect disc	Fit correct disc for material being cut/ground



DISPOSAL OF POWER TOOLS

At the end of the machine's working life, or where it can be no longer repaired, ensure that it is disposed of according to UK regulations.

Contact your local authority for details of collection schemes in your area.

In all circumstances:

- Do not dispose of power tools with domestic waste.
- Do not incinerate.
- Do not abandon in the environment.



OPTIONAL ACCESSORIES

See your local Draper stocklist.

DRAPER NOTES

DRAPER®

NOTES



CONTACTS

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YOUR DRAPER STOCKIST

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