

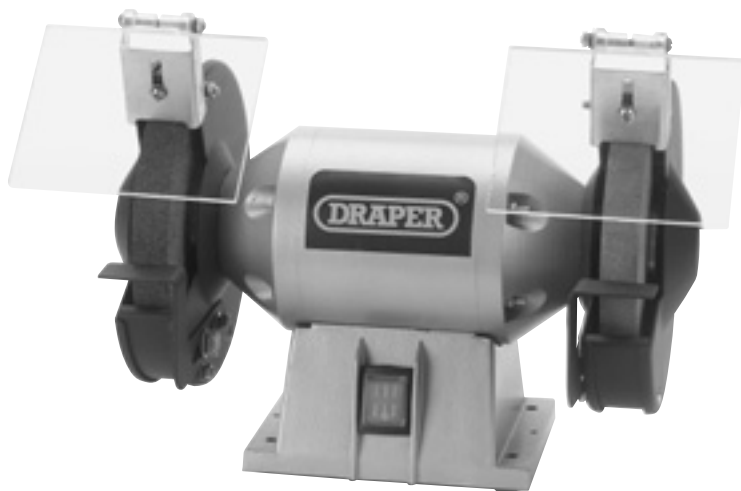
DRAPER®

INSTRUCTIONS FOR 150mm 250W Bench Grinder

Stock No.66804

Part No.G150C

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



CE

DRAPER®

GENERAL INFORMATION

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:

150mm 250W BENCH GRINDER

Stock no. 66804

Part no. G150C

1.2 REVISIONS:

Date first published July 2012.

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

Downloads are available from: <http://www.drapertools.com/b2c/b2cmanuals.pgm>

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1.3 UNDERSTANDING THIS MANUALS SAFETY CONTENT:

WARNING! Information that draws attention to the risk of injury or death.

CAUTION! Information that draws attention to the risk of damage to the product or surroundings.

NOTE! Important information.

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3. GUARANTEE

3.1 GUARANTEE

Draper tools have been carefully tested and inspected before shipment and are guaranteed to be free from defective materials and workmanship.

Should the tool develop a fault, please return the complete tool to your nearest distributor or contact Draper Tools Limited, Chandler's Ford, Eastleigh, Hampshire, SO53 1YF, England.

Telephone Sales Desk: (023) 8049 4333 or Product 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, repairs will be carried out free of charge. This guarantee period covering parts/labour is 12 months from the date of purchase except where tools are hired out when the guarantee period is ninety days from the date of purchase. The guarantee is extended to 24 months for parts only. This guarantee does not apply to 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 guarantee applies in lieu of any other guarantee expressed or implied and variations of its terms are not authorised.

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

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

Draper Tools Limited.

4. INTRODUCTION

4.1 SCOPE

This sturdy compact bench grinder supplied with one coarse and one fine grinding wheel, adjustable eye protection shields, spark deflectors and tool rests is designed for the DIY enthusiast and homeowner. It offers minimal vibration whilst allowing for accurate grinding performance.

4.2 SPECIFICATION

Stock no	66804
Part no	G150C
Motor:	
Rated voltage	230V~
Rated frequency	50Hz
Rated input	250W
Revolutions per minute (no load)	3000min ⁻¹
Duty cycle	S2: 30 mins (30 mins on, 30 mins off)
Wheel Dimension:	
Maximum Diameter	150mm
Maximum Thickness	19mm
Bore Diameter	12.7mm
Sound pressure level	84.2dB(A)
Sound power level	97.2dB(A)
Vibration Level	<2.5m/s
Weight	8kg

5. HEALTH & 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.

Beware of electric shock. Avoid contact with earthed surfaces; because they can conduct electricity if there is an electrical fault with the power tool. Always protect the power cable and route it away from danger.

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.

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

Dress properly. Loose clothing, long hair and jewellery are all dangerous because they can become entangled in moving machinery: This can also result in parts of body being pulled into the machine.

Clothing should be close fitted, with any long hair tied back and jewellery and neck ties removed. Footwear must be fully enclosed and have a nonslip sole.

5. HEALTH & SAFETY INFORMATION

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.

5. HEALTH & SAFETY INFORMATION

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 SPECIFIC SAFETY INSTRUCTION FOR BENCH GRINDERS

- Check that speed marked on the wheel is equal to or greater than the rated speed of the grinder;
- Ensure that the wheel dimensions are compatible with the grinder;
- Abrasive wheels shall be stored and handled with care in accordance with manufacturer's instructions;
- Inspect the grinding wheel before use, do not use chipped, cracked or otherwise defective products;
- Ensure that mounted wheels and points are fitted in accordance with the manufacturer's instructions;
- Ensure that blotters are used when they are provided with the bonded abrasive product and when they are required;
- Ensure that the abrasive product is correctly mounted and tightened before use and run the tool at no-load for 30 s in a safe position, stop immediately if there is considerable vibration or if other defects are detected. If this condition occurs, check the machine to determine the cause;
- If a guard is supplied with the tool never use the tool without such a guard.
- Do not use separate reducing bushings or adapters to adapt large hole abrasive wheels;
- For tools intended to be fitted with threaded hole wheel, ensure that the thread in the wheel is long enough to accept the spindle length;
- Check that the work piece is properly supported;
- Do not use cutting wheel for side grinding;
- Ensure that sparks resulting from use do not create a hazard e.g. do not hit persons, to ignite flammable substances;
- Ensure that ventilation openings are kept clear when working in dusty conditions. If it should become necessary to clear dust, first disconnect the tool from the mains supply (use non metallic objects) and avoid damaging internal parts;
- Always use eye and ear protection;
- Personal protective equipment such as dust mask, gloves, helmet and apron should be worn;
- The wheel continues to rotate after the tool is switched off.
- Stay alert. Watch what you are doing. Use common sense. Do not operate tool when you are tired.
- Wear proper clothing. Do not wear loose clothing, neckties or jewellery (ring, wristwatches etc.) to catch in moving parts. NONSLIP footwear is recommended. Wear protective covering to contain long hair. Roll long sleeves above the elbow.
- Use safety goggles (Head protection). Wear goggles approved to the relevant standards 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 during all operations.
- Sound levels. Some types of machines may have high sound levels when working. In such cases ear protection must be worn.

5. HEALTH & SAFETY INFORMATION

- Vibration levels. Hand held power tools produce different vibration levels. You should always refer to the specifications and the relevant Health and Safety guidelines.
- Dust extraction. If your tool is fitted with a dust extraction facility, 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.
- Check damaged parts. Before further use of the tool, a guard 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 properly repaired or replaced by an authorised service centre unless otherwise indicated in this instruction manual. Have defective switches replaced by an authorised service centre. Do not use the tool if the switch does not turn it on and off.
- 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.

5.3 SAFETY RECOMMENDATIONS FOR THE CORRECT USE OF ABRASIVE PRODUCTS

- General.** Bonded abrasive products are breakable and shall therefore be handled with utmost care. The use of damaged or improperly mounted or used abrasive products is dangerous and can cause serious injuries.
- Delivery, handling and storage.** Abrasive products shall be handled and transported with care. Abrasive products shall be stored in such a manner that they are not subjected to mechanical damaged and harmful environmental influences.
- Selection of the abrasive product.** Information on the label or the abrasive product as well as restrictions of use, safety indications or any other instructions shall be followed. In case of doubt concerning the selection of abrasive products, the user shall request information from the manufacturer or supplier.
- Visual inspection and ring test.** Abrasive products shall be subjected to a visual inspection as received before mounting. In addition, a ring test shall be executed for vitrified wheels with $D > 80\text{mm}$. Damaged abrasive products shall be destroyed.
- Mounting before starting and information for grinding.** The mounting of abrasive products shall be carried out according to the instructions provided by both the wheel and the machine manufacturer. Mounting of abrasive products shall be carried out by a qualified trained person. Each time after mounting, the wheel shall be test run for a reasonable time - the specified maximum operating speed of the wheel shall not be exceeded.
- Further information.** The following instructions shall be observed, supplementary to the information contained in the instruction for use of the grinding machine:
 - Observance of the user's information from the grinding machine manufacturer.
 - Safety devices shall be mounted to the machine and shall be secured.
 - No grinding operations without protection by safety devices (use guard when grinding).
 - Use of personal protective equipment according to the type of machine and type of application, e.g. eye and face protection, ear protection, respiratory protective devices, protective footwear, protective gloves and other protective clothing.

5. HEALTH & SAFETY INFORMATION

- Only grinding operations for which the abrasive product is suitable shall be carried out (taking into account restrictions of use, safety indications or other information).

5.4 CONNECTION TO THE POWER SUPPLY

Make sure the power supply information on the machine's rating plate are compatible with the power supply you intend to connect it to.

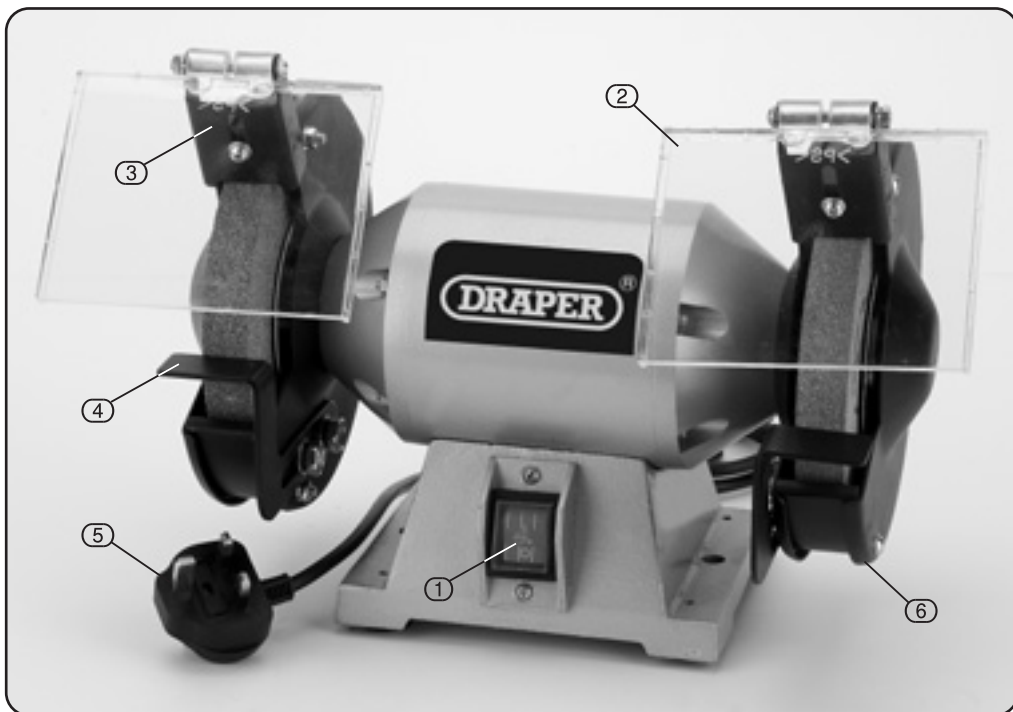
This grinder comes supplied with a UK standard 3 pin plug fitted. It is designed for connection to a domestic power supply rated at 230V AC.

Because it is constructed mostly of metal parts, it is a Class 1 machine; meaning, it must have an earth connection in the power supply. This is to prevent electrocution in the event of a failure.

Apart from replacing the fuse in the plug, no other electrical work is recommended on this grinder.

6. TECHNICAL DESCRIPTION

6.1 IDENTIFICATION



- ① On/Off rocker switch
- ② Eye shield
- ③ Spark arrestor
- ④ Tool rest
- ⑤ BS moulded plug and cable
- ⑥ Wheel guard

6. TECHNICAL DESCRIPTION

6.2 MAIN COMPONENT DESCRIPTIONS

Grinding wheels.

Stock No.: 09505
Part No.: AG150
Type Grit: Fine 60
Diameter: 150mm
Bore size: 12.7mm
Width (Face size): 19mm

Stock No.: 09506
Part No.: AG150
Type Grit: Coarse 36
Diameter: 150mm
Bore size: 12.7mm
Width (Face size): 19mm

7. UNPACKING & CHECKING

7.1 PACKAGING

Carefully remove the bench grinder 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 Helpline (the telephone number appears on the Title page) and do not attempt to use the lathe.

The packaging material should be retained at least during the guarantee 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.

8. PREPARING THE BENCH GRINDER

8.1 INSTALLATION

Choose a location that is level, flat and with a lot of natural light.

The **bench grinder** should be operated on a work bench that is high enough to prevent any injury caused by working in an uncomfortable position; but not too high that the work piece cannot be safely viewed from above.

WARNING! Bending over or having your neck bent for too long (from looking down) can lead to fatigue injuries.

The environment will have a negative result on its operation if you are not careful. If the air is damp, components will rust. If the machine is unprotected from dust and debris; components will become clogged: And if not cleaned and maintained correctly or regularly the machine will not perform at its best.

The work bench should offer enough space around the bench grinder for all possible applications and to house any accessories.

Although the **bench grinder** has been assembled in the factory, some final assembly and adjustments will be required before it can be used. The fine setup will come from experimenting with your new **bench grinder** and making small adjustments.

8.2 BENCH MOUNTING YOUR GRINDER - FIG. 1

Securely bolt the bench grinder to a work bench or other secure surface through the various points in the base (fixings are not supplied).

Ensure there is enough clear space around the grinder to accommodate large items which may be ground, i.e., garden tools, etc. To reduce any vibration, mount the grinder on a vibration absorbion mat.



FIG. 1

8.3 FITTING THE SPARK ARRESTORS - FIG. 2

Fit both spark arrestors (3) (with eye shields (2) attached) to the wheel guards (6) using the screws provided.

Adjust the spark arrestor frequently so as to compensate for wear of the wheel, keep the distance between the spark arrestor and the wheel as small as possible and in any case not greater than 2mm.

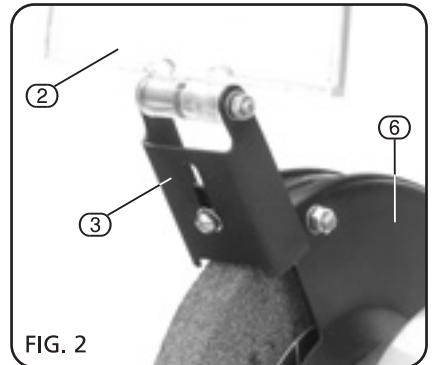


FIG. 2

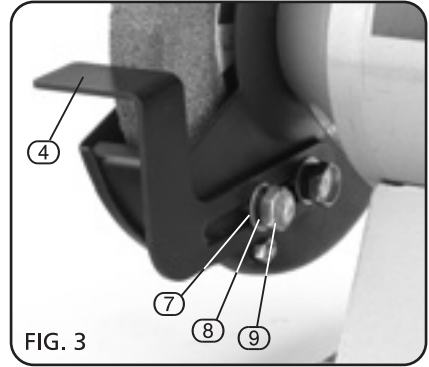
8. PREPARING THE BENCH GRINDER

8.4 FITTING THE TOOL RESTS - FIG. 3

Fit both tool rests to the inner edge of the wheel guards using the bolts, spring washer and washer provided. Adjust them so there is approx. 1.5mm between the grinding wheel face and the tool rest.

Caution:

Ensure both washers and spring washers are fitted between the bolt and the tool rest. Neglecting to install the washers correctly may result in the tip of the bolt contacting the side of the abrasive wheel.

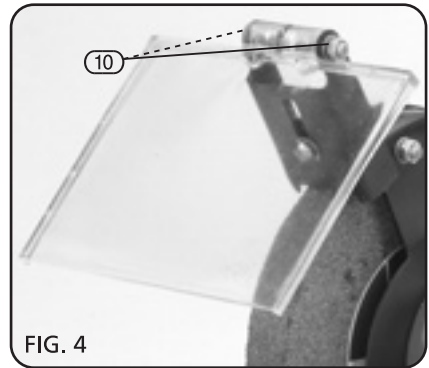


8.5 FITTING THE EYE SHIELDS - FIG. 4

Select the required position and tighten the fixings (10).

Note:

Do not overtighten the nuts holding the eye shield as this may cause it to crack. Never attempt to use the bench grinder with the eye shields damaged, missing or incorrectly positioned between the operator and abrasive wheel.



9. OPERATION AND USE

9.1 GRINDING TIPS: (FIG 5)

- Ensure that the item to be ground is comfortably and securely held.
 - Adjust tool rest to correct angle.
 - Present the workpiece smoothly on to the grinding wheel face with a light and even pressure.
 - Grind against the edge of the workpiece to avoid burrs.
 - Never grind on the sides of the wheels.
 - Best results are achieved if the grinder is allowed to rotate at its maximum speed. Excess pressure from the workpiece can damage the wheel and overload the motor.
 - Check grinding wheels regularly for wear or damage. Replace wheels that are worn more than 25%. Damaged wheels should be discarded immediately as they are dangerous and can cause the grinder to vibrate.
 - After grinding fine edge tools, they should be honed by hand on a fine slip stone.



FIG. 5

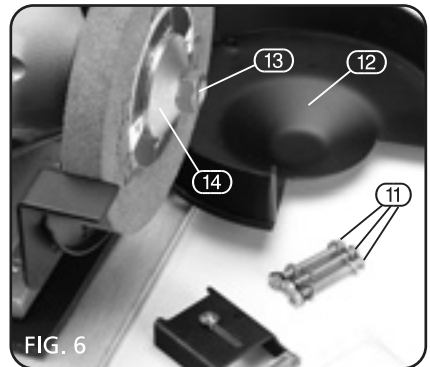


FIG. 6

9.2 REPLACING THE GRINDING WHEELS: (FIG 6)

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

Do not use damaged grinding wheels.

Switch the grinder off and disconnect the power supply. Remove the screws and nuts (11) holding the wheel guard (12), and remove the cover. Hold the other wheel by hand, and remove the locking nut (13) and flange (14). Slide off the old grinding wheel.

Use only grinding wheels recommended by the manufacturer which has a marked speed equal or greater than the speed marked on the nameplate of the tool and have a maximum dimension no greater than:

- 150mm diameter, 19mm thickness with a corresponding bore size of 12.7mm (GD625L).
- 200mm diameter, 25mm thickness with a corresponding bore size of 15.8mm (GD825L).

Abrasive products shall be subjected to a visual inspection as received before mounting.

In addition, a ring test shall be executed for vitrified wheels with $D > 80\text{mm}$.

Damaged abrasive products shall be destroyed.

Note: The left hand grinding wheel locking nut has a left handed thread. When fitting a new grinding wheel, always check that the stated max. RPM on the wheel exceeds the RPM of the bench grinder. Also, inspect the new wheel for any damage, such as flaws or cracks. If the wheel appears satisfactory, fit it to the grinder.

Replace the flange and locking nut securely. Do not overtighten to avoid damage to the wheel. Re-assemble the guard fully prior to carrying out testing.

9. OPERATION AND USE

Each time after mounting, the wheel shall be test run for a reasonable time.

The specified maximum operating speed of the wheel shall not be exceeded.

A bench grinder is designed for hand grinding operations only, such as sharpening drill bits, chisels and screwdrivers or removing excess metal from work pieces.

A coarse grit abrasive wheel could be used for rough metals, to remove large amounts of metal or where a smooth finish is not important.

A fine grit abrasive wheel could be used for sharpening tools or grinding close to size. A fine grit wheel removes metal more slowly and therefore gives the work piece a smooth finish and does not generate enough heat to anneal the cutting edges.

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

1. Check that there is a 1.5mm clearance between the tool rests and the surface of the accessory. Adjust as necessary. Re-check the gap between the spark deflectors and the surface of the grinding wheels. These should also be 1.5mm. Adjust as necessary.
2. Check that the eyeshields have been secured in the correct position and that the grinding wheel lock nuts are tight.
3. When grinding, always keep the work piece moving across the face of the wheel. Grinding against the same part of the wheel will cause uneven wear of the wheel face.
4. When necessary, dress the abrasive wheels using a wheel dressing tool. After dressing, adjust the tool rests and spark deflectors as necessary to maintain a 1.5mm clearance from the wheel.

10. TROUBLESHOOTING

Warning: for your 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 trouble shooting.

Problem	Cause	Remedy
Machine will not start	<ol style="list-style-type: none">1. Fuse2. Other	<ol style="list-style-type: none">1. 3 amp time delay fuse or circuit breaker2. Authorized service agent
Machine vibrates	<ol style="list-style-type: none">1. Wheel out of balance2. Wheel loose3. Damaged wheel (consumable item)	<ol style="list-style-type: none">1. Dress wheels2. Stop machine immediately. Tighten wheel3. Replace wheel†

† Replacement abrasive wheel and other accessories can be obtained from your local Draper stockist.

11. ACCESSORIES

11.1 ACCESSORIES

The following accessories are available from your local Draper Stockist.

Grinding wheels.

Stock No.: 09505
Part No.: AG150
Type Grit: Fine 60
Diameter: 150mm
Bore size: 12.7mm
Width (Face size): 19mm

Stock No.: 09506
Part No.: AG150
Type Grit: Coarse 36
Diameter: 150mm
Bore size: 12.7mm
Width (Face size): 19mm

Stock No.: 09507
Part No.: AG150
Type Grit: (80 Grit) Green
Diameter: 150mm
Bore size: 12.7mm
Width (Face size): 19mm
Note: Suitable for grinding T.C.T.

Stock No.: 09509
Part No.: AG200
Type Grit: Fine 60
Diameter: 200mm
Bore size: 16mm
Width (Face size): 25mm

Stock No.: 09510
Part No.: AG200
Type Grit: Coarse 30
Diameter: 200mm
Bore size: 15.8mm
Width (Face size): 25mm

General accessories

Stock No.: 44351
Part No.: 1180C
Description: Drill Grinding Attachment

12. MAINTENANCE

12.1 MAINTENANCE & PARTS REPLACEMENT

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. After use disconnect the tool from the power supply and vacuum.

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.

13. EXPLANATION OF SYMBOLS

13.1 EXPLANATION OF SYMBOLS



Warning!
Wear goggles.



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



Warning!
Read the instruction manual



Warning!
Wear goggles.



Warning!
Wear ear defenders.



Warning!
Wear dust mask.



Class II construction
(Double insulated).



For indoor use only.
Do not expose to rain.

14. DISPOSAL

14.1 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 abandon in the environment.
- Do not dispose of WEEE* as unsorted municipal waste.



* Waste Electrical & Electronic Equipment.

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- **Service/Warranty Repair Agent**
For aftersales servicing or warranty repairs, please contact the Draper Tools Helpline for details of an agent in your local area.

YOUR DRAPER STOCKIST