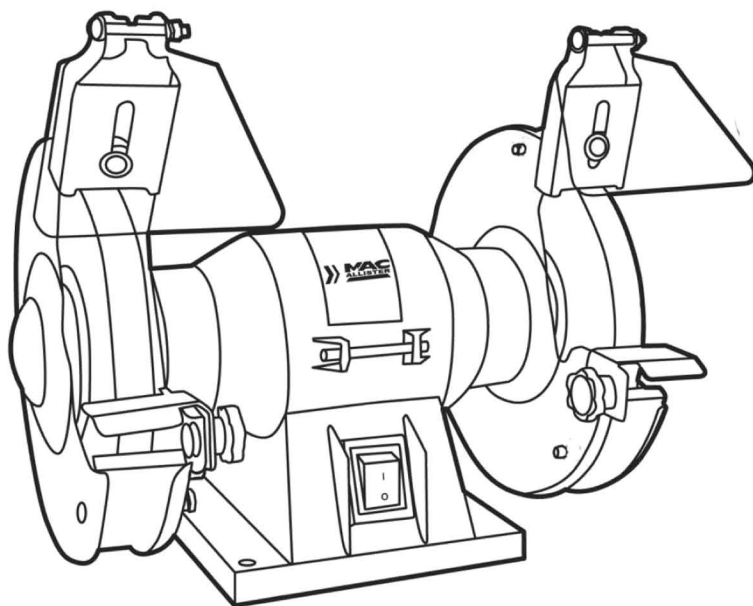




150W BENCH GRINDER



MBGP150B

EAN: 3663602628286

WARNING! Read the instructions before using the product!



Let's

get started...

These instructions are for your safety. Please read through them thoroughly before use and retain them for future reference.



Getting **started**...

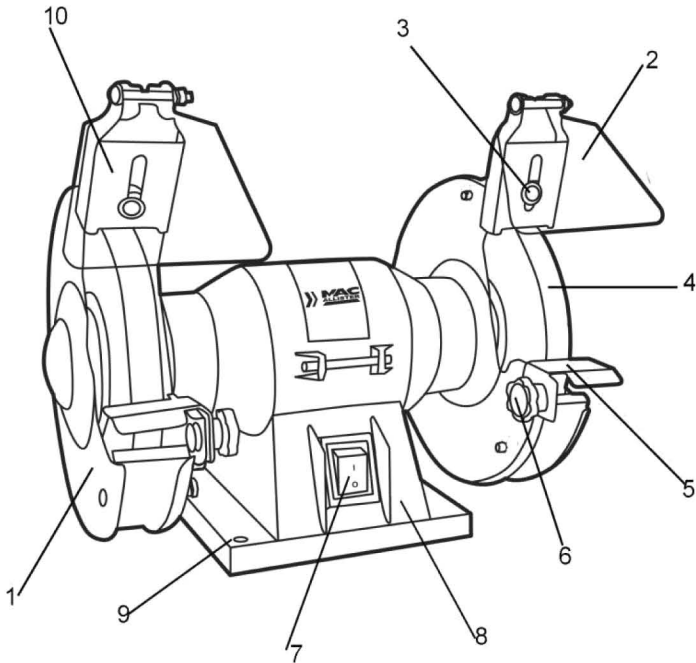
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Your product



1. Wheel guard
2. Eye shields
3. Eye shield mounting sets
4. Grinding wheel
5. Adjustable tool rest
6. Adjustable tool rest mounting sets
7. ON/OFF switch
8. Base
9. Base mounting hole
10. Eye shield mounting bracket

Technical specifications

>Voltage	: 230-240V~50Hz
>Rated input	: 150 W
>Duty type	: S2:30min
>No load speed	: 2950min ⁻¹
>Protection Class	: I 
>Grinding wheel size	: ø150mm x 16 x Ø 12.7mm
> Recommended grinding wheel dimension	: ø150mm x 16 x Ø 12.7mm
>Coarse wheel grit	: #36
>Medium wheel grit	: #60
>Weight	: 5.5kg
Noise data	
>Sound power level (LWA*)	: 62.6dB (A)
>Uncertainty KpA	: 3.0dB
>Noise pressure level (LPA*)	: 75.6dB (A)
>Uncertainty KwA	: 3.0dB
Vibration level	: 2.5 m/s ²
Uncertainty	: 1.5 m/s ²

The declared vibration total value has been measured in accordance with a standard test method and may be used for comparing one tool with another. The declared vibration total value may also be used in a preliminary assessment of exposure. **WARNING!** The vibration emission during actual use of the power tool can differ from the declared total value depending on the ways in which the tool is used. The need to identify safety measures and to protect the operator are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle, such as the times the tool is switched off, when it is running idle, in addition to trigger time).

Load factor:

A load factor of S2 30 min (temporary duty) means that you may operate the motor continuously at its nominal power level (150W) for no longer than the time stipulated on the specifications label (30minutes ON period). If you fail to observe this time limit the motor will overheat. During the OFF period the motor will cool again to its starting temperature.



WARNING! When using electric tools basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury including the following. Read all these instructions before attempting to operate this product and save these instructions.

Symbols

On the products, the rating label and within these instructions you will find among others the following symbols and abbreviations. Familiarize yourself with them to reduce hazards like personal injuries and damage to property.

V~	Volt, (alternating voltage)	mm	Millimeter
Hz	Hertz	kg	Kilogram
W	Watt	dB(A)	Decibel (A-rated)
/min or min ⁻¹	Per minute	m/s ²	Meters per seconds squared



Warning! Denotes risk of personal injury, loss of life, or damage to the tool in case of non-observance.



The product complies with the applicable European directives and an evaluation method of conformity for this directive was done.



Read the instruction manual.



Wear eye protection.



Wear ear protection.



Wear mask protection.



Take a power tool in the domestic waste! In accordance with European Directive 2012/19/EU on waste electrical and electronic equipment and its implementation in national law, electric tools collected separately and environmentally friendly recycling is fed. Take advantage of the collection facilities. Ask your local government for the collection systems. If electrical appliances are disposed of, can be poisoned for years while the cause hazardous substances into the groundwater and entering the food chain, or flora and fauna.



yyWxx Manufacturing date code; year of manufacturing (20yy)
and week of manufacturing (Wxx)

RATING LABEL EXPLANATION

MBGP150B = MODEL NUMBER

M = MacAllister

BGP = BENCH GRINDER

150 = POWER (WATTS)

B = Version of machine

General safety



WARNING! When using electric tools basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury including the following. Read all these instructions before attempting to operate this product and save these instructions.

1. Keep work area clear
 - > Cluttered areas and benches invite injuries.
2. Consider work area environment
 - > Do not expose tools to rain.
 - > Do not use tools in damp or wet locations.
 - > Keep work area well lit.
 - > Do not use tools in the presence of flammable liquids or gases.
3. Guard against electric shock
 - > Avoid body contact with earthed or grounded surfaces
4. Keep other persons away
 - > Do not let persons, especially children, not involved in the work cord and keep them away from the work area
5. Store idle tools
 - > When not in use, tools should be stored in a dry locked-up place, out of reach of children.
6. Do not force the tool
 - > It will do the job better and safer at the rate for which it was intended.
7. Use the right tool
 - > Do not force small tools to do the job of a heavy-duty tool.
 - > Do not use tools for purposes not intended.

8. Dress properly

- > Do not wear loose clothing or jewelry, they can be caught in moving parts.
- > Non-skid footwear is recommended when working outdoors.
- > Wear protective hair covering to contain long hair.

9. Use protective equipment

- > Use safety glasses.
- > Use face or dust mask if working operations create dust.

10. Connect dust extraction equipment

- > If the tool is provided for the connection of dust extraction and collecting equipment, ensure these are connected and properly used.

11. Do not abuse the cord

- > Never yank the cord to disconnect it from the socket. Keep the cord away from heat, oil and sharp edges.

12. Secure work

- > Where possible use clamps or a vice to hold the work. It is safer than using your hand.

13. Do not overreach

- > Keep proper footing and balance at all times.

14. Maintain tools with care

- > Keep cutting tools sharp and clean for better and safer performance.
- > Follow instruction for lubricating and changing accessories.
- > Inspect tool cords periodically and if damaged have them repaired by an authorized service facility.
- > Inspect extension cords periodically and replace if damaged.
- > Keep handles dry, clean and free from oil and grease.

15. Disconnect tools

- > When not in use, before servicing and when changing accessories such as blades, bits and cutters, disconnect tools from the power supply.

16. Remove adjusting keys and wrenches

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

17. Avoid unintentional starting

- > Ensure switch is in "off" position when plugging in.

18. Use outdoor extension leads

- > When the tool is used outdoors, use only extension cords intended for outdoor use and so marked.

19. Stay alert

- > Watch what you are doing, use common sense and do not operate the tool when you are tired.

20. Check damaged parts

- > Before further use of tool, it should be carefully checked to determine that it will operate properly and perform its intended function.

- > Check for alignment of moving parts, binding 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 authorized service center unless otherwise indicated in this instruction manual.
- > Have defective switches replaced by an authorized service center.
- > Do not use the tool if the switch does not turn it on and off.

21. Warning

> The use of any accessory or attachment other than one recommended in this instruction manual may present a risk of personal injury.

22. Have your tool repaired by a qualified person

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

Safety Warnings

- > Do not to use damaged or misshapen wheels or brushes
 - > Only use accessories (ie. Grinding wheels, wire brush etc.) that have a speed rating which is higher than the idle speed on the grinder, use only grinding wheels recommended by the manufacturer which have a marked speed equal to or greater than the speed marked on the nameplate of the tool.
 - > Always keep the brush assembled on the spindle in order to limit the risk of contact with the rotating spindle.
 - > 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 2 mm.
 - > For the safe use, handling and storage of abrasive wheels and brushes in a dry place, out of the reach of children.
 - > Replacing the grinder wheel if the grinding wheel has been worn down such that a distance of 2 mm to the work piece support and to the spark arrestor can no longer be set, then the grinding wheel must be replaced.
 - > Never drape the power cable over the machine bench.
 - > The machine is to be used only for its prescribed purpose.
 - > Wear protective clothing. Wear full face protection, eye protection or safety goggles, in accordance with the job at hand. Where appropriate, wear a dust mask, ear defenders, protective gloves or special aprons that keep grinding and material particles away from you. Protect your eyes from the foreign bodies that fly off during certain applications.
- Dust or breathing masks must be used to filter particles generated by the application.

Hearing loss can be caused by exposure to high intensity noise.

> Always wear a dust mask and safety goggles.

Contact with or breathing in noxious / toxic dust produced by grinding metal that is finished with lead paint can be dangerous for the user and surrounding people.

> This power tool must not be used for wet grinding. Use for dry grinding only. Coolant can weaken the bonding strength of the wheel and cause it to fail.

> This bench grinder should only be used when stationary. Secure to a solid, even surface.

> Do not use any accessories that have not been especially designed and recommended for this power tool by the manufacturer. Simply because an accessory can be connected to your power tool does not guarantee it can be used safely.

> Only use grinding disks whose diameter, thickness and intended use meet the requirements of this power tool. Incorrectly sized grinding disks may not be sufficiently screened or controllable. Use of unsuitable grinding disks can result in danger to the user or damage to the power tool.

> Never touch the spinning grinding disks! Make sure the grinding disks have come to a complete standstill after turning off before you touch them.

> When you have checked the tool attachment and have attached it, make sure you and others nearby keep away from the area of the rotating tool attachment and let the appliance run at the maximum speed for a minute. Most damaged tool attachments will break off in this test period.

> Make sure bystanders are a safe distance from your work area. Anyone entering the work area must wear personal protective clothing. Pieces may break off the work piece or sparks may fly off and can also cause injuries outside the direct work area.

> Position the power cable clearing of the spinning tool attachment. If you lose control of the appliance, the power cable can be severed or tangled and your hands or arms may get caught in the spinning tool attachment.

> Do not leave the power tool running when you are not using it. Your clothing can become entangled when it comes into contact with the spinning tool attachment, caused the tool attachment to drill into your body.

> Clean the power tool's air vents regularly. The motor's fan draws dust into the housing and the heavy build-up of metal dust can result in electrical hazards.

> Do not use the power tool in vicinity of flammable materials. Sparks may cause these materials to ignite.

> Do not use any tool attachments that require liquid coolants. Use of water or other liquid coolants can result in electric shock.

> Before starting up the bench grinder for the 1st time, check the grinding wheels with a sound test. Faultless grinding wheels will make a clear sound when struck gently with a plastic hammer (or piece of wood). If new grinding

discs are attached check these also beforehand.

> Always use the protective features and wheel guard fitted to or supplied with this power tool. The wheel guard and protective features should be attached securely to the power tool and set so that the maximum safety level can be achieved. The protective features are there to protect the user from broken pieces and accidental contact with the grinding disks.

Additional Safety

ADDITIONAL SAFETY WARNING FOR CONSTRUCTION DUST

The updated Control of Substances Hazardous to Health Regulations 1st October 2012 now also targets to reduce the risks associated with silica, wood and gypsum dusts.

Construction workers are one of the at-risk groups within this because of the dust that they breathe: silica dust is not just a nuisance; it is a real risk to your lungs!

Silica is a natural mineral present in large amounts in things like sand, sandstone and granite. It is also commonly found in many construction materials such as concrete and mortar. The silica is broken into very fine dust (also known as Respirable Crystalline Silica or RCS) during many common tasks such as cutting, drilling and grinding Breathing in very fine particles of crystalline silica can lead to the development of:

Lung cancer Silicosis Chronic Obstructive Pulmonary Disorder (Chronic obstructive pulmonary disease (COPD) And breathing in fine particles of wood dust can lead to the development of Asthma The risk of lung disease is linked to people who regularly breathe construction dust over a period of time, not on the odd occasion.

To protect the lung, the COSHH Regulations sets a limit on the amount of these dusts that you can breathe (called a Workplace Exposure Limit or WEL) when averaged over a normal working day. These limits are not a large amount of dust: when compared to a penny it is tiny – like a small pinch of salt:

This limit is the legal maximum; the most you can breathe after the right controls have been used.

How to reduce the amount of dust?

- 1 Reduce the amount of cutting by using the best sizes of building products.
- 2 Use a less powerful tool e.g. a block cutter instead of angle grinder.
- 3 Using a different method of work altogether – e.g. using a nail gun to direct fasten cable trays instead of drilling holes first.

Please always work with approved safety equipment, such as those dust masks that specially designed to filter out microscopic particles and use the dust extraction facility at all time.

For more information please see the HSE website:

<http://www.hse.gov.uk/construction> or <http://www.hse.gov.uk/pubns/cis69.pdf>



Warning: Some dust particles created by power sanding, sawing, grinding, drill and other construction jobs contain chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints.
- Crystalline silica from bricks and cement and other masonry products.
- Arsenic and chromium from chemically treated timber.

Your risk from these exposures varies, depending upon how often you do this type of work. To reduce your exposure to these chemicals:

- Work in a well-ventilated area.
- Work with approved safety equipment, such as those dust masks that are specially designed to filter microscopic particles.

VIBRATION

The European Physical Agents (Vibration) Directive has been brought in to help reduce hand arm vibration syndrome injuries to power tool users. The directive requires power tool manufacturers and suppliers to provide indicative vibration test results to enable users to make informed decisions as to the period of time a power tool can be used safely on a daily basis and the choice of tool.

SEE TECHNICAL SPECIFICATIONS IN THE INSTRUCTION MANUAL FOR THE VIBRATION LEVELS OF YOUR TOOL.

The declared vibration emission value should be used as a minimum level and should be used with the current guidance on vibration.

Calculating the actual period of the actual period off use can be difficult and the HSE website has further information.

The declared vibration emission been measured in accordance with a standardised test stated above and may be used to compare one tool with another tool.

The declared vibration emission value may also be used in a preliminary assessment of exposure.



Warning: The vibration emission value during actual use of the power tool can differ from the declared value depending on the ways in which the tool is used dependent on the following examples and other variations on how the tool is used:

How the tool is used, and the materials being cut or drilled.

The tool being in good condition and well maintained.

The use the correct accessory for the tool and ensuring it is sharp and in good condition.

The tightness of the grip on the handles.

And the tool is being used as intended by its design and these instructions.

While working with this power tool, hand/arm vibrations occur. Adopt the correct working practices in order to reduce the exposure to vibration. This tool may cause hand-arm vibration syndrome if its use is not adequately managed.



Warning: Identify safety measures to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time). Note The use of other tools will reduce the users' total working period on this tool.

Helping to minimize your vibration exposure risk. ALWAYS use sharp chisels, drills and blades.

Maintain this tool in accordance with these instructions and keep well lubricated (where appropriate).

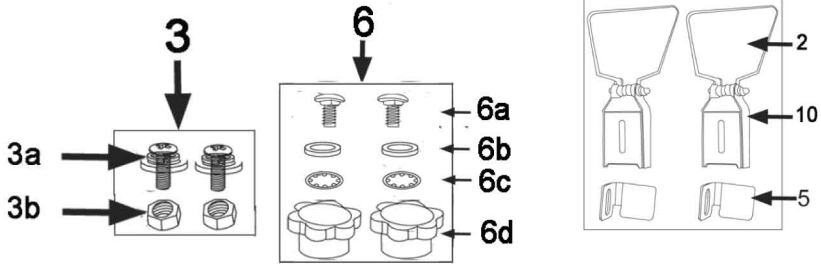
Avoid using tools in temperatures of 10°C or less. Plan your work schedule to spread any high vibration tool use across a number of days.

Health surveillance

All employees should be part of an employer's health surveillance scheme to help identify any vibration related diseases at an early stage, prevent disease progression and help employees stay in work.

Unpack

- > Unpack all parts and lay them on a flat, stable surface.
- > Remove all packing materials and shipping devices if applicable.
- > Make sure the delivery contents are complete and free of any damage. If you find that parts are missing or show damage do not use the product but contact your dealer. Using an incomplete or damaged product represents a hazard to people and property.
- > Ensure that you have all the accessories and tools needed for assembly and operation. This also includes proper personal protective equipment.



3. Eye shield mounting sets

- 3a. three connected screw set
3b. Nut

6. Adjustable tool rest mounting sets

- 6a. Screw
6b. Flat washer
6c. Teeth washer
6d. Knob

2. Eye shield 10. Eye shield mounting bracket 5. Adjustable tool rest

You will need

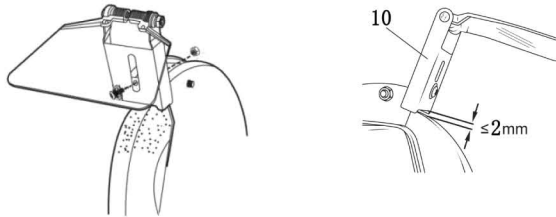
Items not supplied	Item Supplied
1. Protective gloves	1. Work piece support
2. Screwdriver with PH2 head	2. Eye shield with mounting bracket
3. 8 mm wrench	4. Mounting nuts, bolts, washers and knob



WARNING! Do not connect to power supply until assembly is complete. Failure to comply could result in accidental starting and possible serious injury

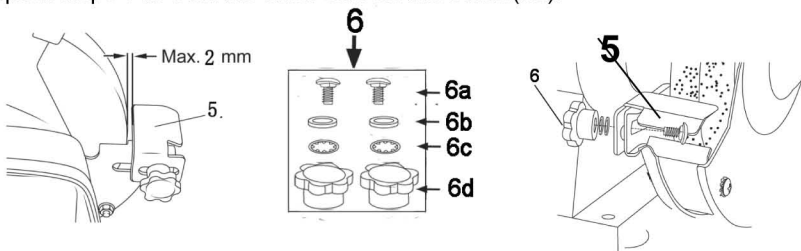
Assembling the wheel guard

- > To fit the eye shields locate the three connected screws provided through the slot in the eye shield and hole on the grinding wheel guard (to fix it onto the middle hole) and finger tighten. Position the eye shield so it does not come in to contact with the grinding wheel. Tighten the nut to secure the eye shield in place.
- > The eye shield mounting bracket (10) must be assembled in such a way that the gap between grinding wheel and the mounting bracket is max. 2 mm.



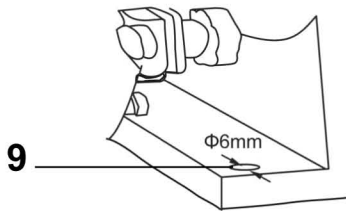
Assembling the adjustable tool rest

- > The adjustable tool rest (5) must be assembled in such a way that the gap between grinding wheel and adjustable tool rest is max. 2mm.
- > The adjustable tool rest (5) must be attached on both sides of the double grinder before use. Use the adjustable tool rest mounting sets (6) to attach.
 1. Hold the adjustable tool rest (5) against the rail on the wheel guard. Make sure, the adjustable tool rest is facing the correct direction. The slanting corner should point away from the double grinder.
 2. Fix screw (6a) through the slit in the rail and adjustable tool rest.
 3. Place teeth washer (6b) and washer (6c) on the end of the screw (6a) from the other side.
 4. Secure the screw (6a) with the knob (6d).
 5. Repeat steps 1 to 4 on the other side for the screw(6a).



Mounting the bench grinder

- > The machine is to be assembled firmly on a suitable place. Four holes (9) are available to fix by screws $\varnothing 6\text{mm}$ on a firm and solid base e.g. on a workbench or machine stand.
- > Ensure that the mains connection is located not more than approx. 100–150cm from the place of fixation.
- > The machine must be easily accessible from front side.



Connection to the power supply

- > Connect the plug with a suitable socket.

WARNING! Check the voltage! The voltage must comply with the information on the rating label!

- > Your product is now ready to be used



WARNING! Do not use until the product has been securely installed to a work bench.

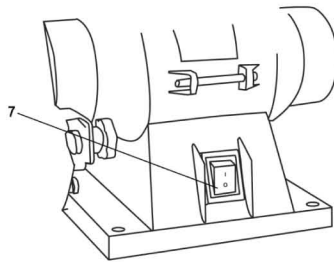
In more detail...



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Switching On and Off

- >Before you start working with the bench grinder, check whether the voltage shown on the specification plate of the device corresponds to the existing mains voltage.
- >Before connecting to the power supply rotate the wheel by hand to ensure that it is running free from obstruction
- >Before connecting the machine to the mains supply, ensure that the ON/Off switch is set to "O" position.
- >Connect to the mains supply and press the rocker switch to the ON position (I) and allow your grinder to reach the maximum speed before commencing grinding



General operation

1. Before each use, check that the grinding wheels are not damaged.
2. After switching the grinder on, allow it to reach full speed before performing grinding operation.
3. The eye shields are able to be adjusted and should be positioned to allow the operator a clear view of the work through the shields.
4. Hold the workpiece firmly against the tool rest and feed it smoothly and evenly to the grinding wheel.
5. The appropriate adjustments of the tools rests will provide the correct working angle for efficient grinding. As the diameter of the grinding wheel is subject to wear. It will be necessary to re-adjust the edge of the grinding wheel.

Fix the grinder to horizontal, stable surface before using. Positioning the grinder towards the front edge of the bench will facilitate the handling of long tools. If possible, leave space to the left-hand side of the machine for easy access to the wheel. An alternative method is to secure the grinder to a sheet of plywood which can then be clammed to a bench or table to present the grinder in the most convenient position. Before using the dry wheel ensures that the spark guard (behind the eye shield) is positioned as close to the surface of the wheel as possible and that the eye shield is in one position to prevent sparks flying up. It is a sensible precaution to wear safety spectacles as well when operating a grinding machine.

The dry wheel can be used for grinding profiles or virtually any cutting tool; plane irons, chisel, gouges, turning tools, drill bits, etc. The aluminum oxide will cut cleanly and without undue heating of the tip of the tool. However, care should be taken not to grind a tool too hard or for too long in case over-heating occurs.

The golden rules of care

1. Keep the product clean. Remove debris from it after each use and before storage.
2. Regular and proper cleaning will help ensure safety and prolong the life of the product.
3. Inspect the product before each use for worn and damaged parts. Do not operate it if you find broken and worn parts.



WARNING! Always switch the product off, disconnect it from power supply and let the product cool down before performing inspection, maintenance and cleaning work!



WARNING! Only perform repairs and maintenance work according to these instructions! All further works must be performed by a qualified specialist!

General cleaning

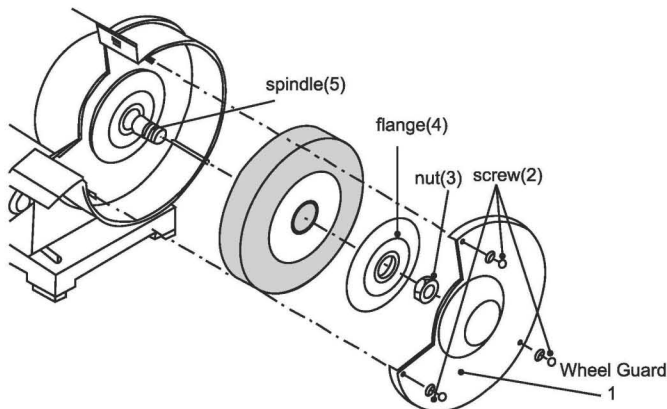
1. Clean the product with a dry cloth. Use a brush for areas that are hard to reach.
2. Check for worn or damaged parts. Replace worn parts as necessary or contact an authorized service center for repair before using the product again.

Grinding wheel replacement

If the grinding wheel has been worn down such that a distance of 2 mm to the work piece support and to the spark arrestor can no longer be set, then the grinding wheel must be replaced.

To renew or change the grinding wheels, follow these series of steps:

1. Switch off the unit and disconnected from the mains supply.
2. Remove the screws (2) on the wheel Guard (1) and then pull out the Wheel guard (1).
3. Remove the nut (3) from the spindle (5) using spanner (not supplied). The nut on the right spindle has a right thread; the nut on the left spindle has a left thread.
4. Take out the outer flange (4) from the spindle (5).
5. Place the new wheel onto the spindle. once secured rotate the grinding wheel by hand to confirm that the wheel moves freely and doesn't contact any surfaces.
6. Reassemble the flange, nut, and outside cover.
7. Switch on the machine and let the wheel run with no load for one minute to check for cracks.



Grinding wheel information

The following information is a guide only on the different types of grinding wheels and their uses.

TYPES OF ABRASIVE GRAIN

Grinding wheels are made of four main types of abrasive grain: aluminum oxide, silicon carbide, CBN (cubic boron nitride) and diamond. In the home workshop you will probably only use wheels of aluminum oxide or silicon carbide. Both types are available from your tool stockiest. Grain size is separated into four main categories: course, medium, fine and very fine. Table 1 shows the breakdown of grain size in each category. For most work a medium or fine wheel is recommended.

TABLE 1

The four main categories of abrasive grains

Coarse	Medium	Fine	Very Fine
12	46	70	150
14	60	80	180
16		90	220
20		100	240
24		120	
30			
36			

TYPES OF BOND

There are five main kinds of bonding agents namely, ceramic (vitrified), phonetic resin, rubber, shellac and metal. The abrasive can be bonded with its particles close together or with spaces between each grain particle. Bond material creates a link between each grain. The spaces between the grains will determine how dense the wheel is, large spaces will give an open wheel and smaller spaces will give a close or dense wheel.

The structure is measured on a scale of 0-14 with 0 being very close and 14 being very open with wide spacing between the grains.

WHEEL HARDNESS OR GRADE

Grade or hardness is the strength of bonding between the abrasive grains. Wheel hardness is graded alphabetically, in increasing order of hardness; letters A through D represent very soft wheels, and letters V through Z represent very hard ones.

Letter K in the illustration below represents a soft to medium wheel.

9A	46	K	5	V	22
Kind of Abrasive	Grain Size	Grade	Destiny	Bond Type	Manufactures Symbol

The number shown in the above illustration is an example of a grinding wheel description. 9A means that the abrasive is aluminum oxide, 46 means that the grain size is medium, K means that the wheel is soft, 5 means that the wheel is dense, V stands for vitrified bonding and 22 is the manufacturer's symbol. Wheels supplied with bench grinders are generally "N" on the hardness scale, which is considered hard. Do not try to sharpen carbide tools, knives, scissors or high-speed tools (router bits, wood turning tools) with this hard wheel. A standard wheel will not cut carbide. If you try, you will only create heat and glaze over the wheel. Hard wheels will burn router bits and other high-speed tools. Overheating the tools will destroy their hardness and render them useless. Soft wheels give themselves up while grinding. When grinding, only a small amount of material is removed, and the wheel releases grains a little at a time, presenting new cutting edges. This releasing activity helps to keep the tool from heating up and gives a finer grinding result.

Table 2 shows wheel hardness and uses.

TABLE 2

Wheel Hardness (Grade)	Designated use or designated hardness	Description of hardness
A B C D	Not commonly used	Very soft
E F G H I J K L	Use soft wheels to sharpen high -speed -steel tools, such as, drills, and tool bits.	Soft to medium
M N O P Q R S T	Use these wheels for rough grinding on soft materials.	Medium to hard
U	This hard grade is used for dressing sticks to dress grinding wheels.	Hard
V W X Y Z	Not commonly used	Very hard

The following table 3 should help you to select the correct grinding wheel for the job.

New bench grinders are supplied with grey wheels. All other types of grinding wheel is available from your tool stockiest.

Type of tool	Tool material	Recommended wheel type
Drill bits	High-speed steel	Aluminum oxide (grey)
Spade boring bits	High-speed steel	Aluminum oxide (grey)
Masonry drill bits	Cutting edge is carbide	Silicon carbide (green)
Lathe tool bits	High-speed steel	Soft aluminum oxide (Pink or white)
Chisels	High-speed steel	Soft aluminum oxide (Pink or white)
High-speed steel carbide tipped	Cutting edge is carbide	Silicon carbide (green)
Rotary lawnmower blade	Non-heat-treated steel	Aluminum oxide(grey)
Scissors & snips	Hard steel (not file hard)	Aluminum oxide (Pink or white)

Power cord

If the power cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a safety hazard.

UK plug

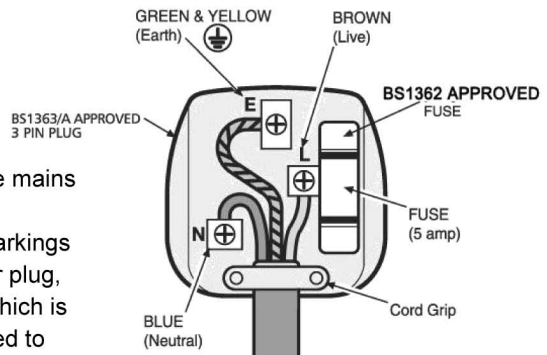
If you need to replace the fitted plug then follow the instructions below.
IMPORTANT: The wires in the mains lead are coloured in accordance with the following code:

Blue – Neutral

Brown – Live

Green & Yellow – Earth

As the colors of the wires in the mains lead of this apparatus may not correspond with the colored markings identifying the terminals in your plug, proceed as follows. The wire which is colored blue, must be connected to the terminal, which is marked with N or colored black. The brown wire must be connected to the terminal which is marked with an L or colored red. The green & yellow wire must be connected to the terminal which is marked Earth E.



The brown wire must be connected to the terminal which is marked with an L or colored red. The green & yellow wire must be connected to the terminal which is marked Earth E.

WARNING: Never connect live or neutral wires to the earth terminal of the plug.

Only fit an Approved 13A BS1363 Plug with a 5Amp rated fuse.

NOTE: If a moulded plug is fitted and has to be removed take great care in disposing of the plug and severed cable, it must be destroyed to prevent engaging into a socket.

Repair

1. This product does not contain any parts that can be repaired by the consumer. Contact a qualified specialist to have it checked and repaired.

Storage

1. Clean the product as described above.
2. Store the product and its accessories in a dry, frost-free place.
3. Always store the product in a place that is inaccessible to children. The ideal storage temperature is between 10 and 30°C.
4. We recommend using the original package for storage or covering the product with a suitable cloth to protect it against dust.

Transportation

1. Switch the product off and disconnect it from power supply before transporting it anywhere.
2. Attach transportation guards, if applicable.
3. Always carry the product by its handle.
4. Protect the product from any heavy impact or strong vibrations which may occur during transportation in vehicles.
5. Secure the product to prevent it from slipping or falling over.

Recycling and disposal



Disposal of the appliance

CAUTION! This product shall not be discarded with household waste but that it shall be returned to a collection system which conforms to the European WEEE Directive. Contact your local authorities or stockist for advice on recycling. It will then be recycled or dismantled in order to reduce the impact on the environment. Electric and electronic equipment can be hazardous for the environment and for human health since they contain hazardous substances.



Disposal of packaging

The packaging consists of cardboard and correspondingly marked plastics that can be recycled.
-Make these materials available for recycling.

Guarantee

At MacAllister we take special care to select high quality materials and use manufacturing techniques that allow us to create ranges of products incorporating design and durability. That's why we offer a 2 year guarantee against manufacturing defects on our MacAllister power tool products.

This power tool is guaranteed for 2 years from the date of purchase, if bought in store, delivered or if bought online. You may only make a claim under this guarantee upon presentation of your sales receipt or purchase invoice. Please keep your proof of purchase in a safe place.

This guarantee covers product failures and malfunctions provided the MacAllister power tool was used for the purpose for which it is intended and subject to installation, cleaning, care and maintenance in accordance with standard practice and with the information contained above and in the user manual. This guarantee does not cover defects and damage caused by or resulting from:

- Normal wear and tear
- Overload, misuse or neglect
- Repairs attempted by anyone other than an authorised agent
- Cosmetic damage
- Damage caused by foreign objects, substances or accidents
- Accidental damage or modification
- Failure to follow manufacturer's guidelines
- Loss of use of the goods

This guarantee is limited to parts recognised as defective. It does not, in any case, cover ancillary costs (movement, labour) and direct and indirect damage.

If the MacAllister power tool is defective during the guarantee period, then we reserve the right, at our discretion, to replace the item with a product of equivalent quality and functionality or to provide a refund.

This guarantee only applies to the country of purchase or delivery and is not transferrable to any other countries. This guarantee is non-transferrable to any other person or product. Relevant local law will apply to this guarantee.

Guarantee related queries should be addressed to a store affiliated with the distributor from where you purchased the MacAllister power tool.

This guarantee is in addition to and does not affect your statutory rights relating to faulty goods as a consumer.

EC declaration of conformity



We

**Kingfisher International Products Limited
3 Sheldon Square London W2 6PX
United Kingdom**

Declare that the product

<MBGP150B+150W Bench Grinder>

Serial number: from 000001 to 999999

Complies with the essential health and safety requirements of the following Directives:

EC Machinery Directive 2006/42/EC

The EMC Directive 2014/30/EU

2011/65/EU Restrictions of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment

2012/19/EU Waste Electrical and Electronic Equipment (WEEE)

Regulation (EC) No 1907/2006, concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)

Standards and technical specifications referred to:

EN 61029-1:2009/A11:2010

EN 61029-2-4:2011

EN 55014-1:2017

EN 55014-2:2015

EN 61000-3-2:2014

EN 61000-3-3:2013

**Authorised Signatory and technical file holder
Signed for and on behalf of:**

**Kingfisher International Products Limited
3 Sheldon Square
London W2 6PX United Kingdom**

Lisa Davis

Group Quality Director

On : 10/07/2018



**Manufacturer, Fabricant, Producent,
Hersteller, Producător, Fabricante:**
Kingfisher International Products Limited
3 Sheldon Square
London
W2 6PX
United Kingdom
www.kingfisher.com/products

EN

Distributor:

B&Q plc, Chandlers Ford, Hants, SO53 3LE
United Kingdom
www.diy.com

Screwfix Direct Limited, Trade House,
Mead Avenue, Yeovil, BA22 8RT,
United Kingdom
www.screwfix.com

To view instruction manuals online,
visit www.kingfisher.com/products
