

SOVEREIGN

850W ANGLE GRINDER

Item No. 594454

Model No. 6820A



Technical Support & Parts
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ORIGINAL INSTRUCTION MANUAL

Please read these instructions fully before starting assembly.

HHGL Limited, MK9 1BA; HHGL (ROI) Limited, D02 X576

Mar 21

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GENERAL SAFETY INFORMATION



WARNING! Read all safety warnings, instructions, illustrations and specifications provided with this power tool.

Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

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

1) Work area safety

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

2) Electrical safety

- a. **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adaptor plugs with earthed (grounded) power**

tools. Unmodified plugs and matching outlets will reduce risk of electric shock.

- b. Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
- c. Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- d. Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep the cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.
- e. When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.
- f. If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.

3) Personal safety

- a. 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.

- b. Use personal protective equipment (PPE). 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.
- c. Prevent unintentional starting. Ensure the switch is in the 'off' position before connecting to a 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.
- d. 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.
- e. Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- f. 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.
- g. If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of these devices can reduce dust-related hazards.

- h. Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.** A careless action can cause severe injury within a fraction of a second.

4) Power tool use and care

- a. 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.
- b. 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.
- c. 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.
- d. 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.
- e. Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tools operation. If damaged, have the**

power tool repaired before use. Many accidents are caused by poorly maintained power tools.

- f. Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- g. 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.
- h. Keep handles and gripping surfaces dry, clean and free from oil and grease.** Slippery handles and gripping surfaces do not allow for safe handling and control of the tool in unexpected situations.

Service

Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

SAFETY INSTRUCTIONS FOR ALL OPERATIONS

SAFETY WARNINGS COMMON FOR GRINDING, SANDING, WIRE BRUSHING, POLISHING OR ABRASIVE CUTTING-OFF OPERATIONS:

- a. This power tool is intended to function as a grinder or cut-off tool. 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.
- b. Operations such as sanding, wire brushing, polishing 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.
- c. 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.
- d. 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.
- e. 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.
- f. Threaded mounting of accessories must match the grinder spindle thread. For accessories**

mounted by flanges, the arbour hole of the accessory must fit the locating diameter of the flange. Accessories that do not match the mounting hardware of the power tool will run out of balance, vibrate excessively and may cause loss of control.

- g. Do not use a damaged accessory. Before each use, inspect the accessory (such as abrasive wheels) for chips and cracks, backing pad for cracks, tears or excess wear. If the power tool or accessory is dropped, inspect for damage or install an undamaged accessory. After inspecting and installing an accessory, position yourself and bystanders away from the plane of the rotating accessory and run the power tool at maximum no-load speed for one minute.** Damaged accessories will normally break apart during this test time.
- h. Wear personal protective equipment (PPE).** Depending on application, use a face shield, safety goggles or safety glasses. As appropriate, wear a 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 filtering particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss.

- i. Keep bystanders a safe distance away from the work area. Anyone entering the work area must wear personal protective equipment.** Fragments of workpiece or of a broken accessory may fly out and cause injury beyond immediate area of operation.
- j. Hold the power tool by insulated gripping surfaces only, when performing an operation where the cutting accessory may contact hidden wiring or its own cord.** Cutting accessory contacting a 'live' wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.
- k. Position the cord clear of the spinning accessory.** If you lose control, the cord may be cut or snagged and your hand or arm may be pulled into the spinning accessory.
- l. 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.
- m. 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.
- n. Regularly clean the power tools air vents.** The motors fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.

- o. Do not operate the power tool near flammable materials.** Sparks could ignite these materials.
- p. Do not use accessories that require liquid coolants.** Using water or other liquid coolants may result in electrocution or shock.

FURTHER SAFETY INSTRUCTIONS FOR ALL OPERATIONS

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 accessories 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 wheels 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.

- a. **Maintain a firm grip on the power tool and position your body and arm to allow you to resist kickback forces. Always use an 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.
- b. **Never place your hand near the rotating accessory.** Accessory may kick back over your hand.
- c. **Do not position your body in the area where power tool will move if kickback occurs.** Kickback will propel the tool in the direction opposite to the wheels movement at the point of snagging.
- d. **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.
- e. **Do not attach a saw chain woodcarving blade or toothed saw blade.** Such blades create frequent kickback and loss of control.

ADDITIONAL SAFETY INSTRUCTIONS FOR GRINDING AND CUTTING-OFF OPERATIONS

SAFETY WARNINGS SPECIFIC FOR GRINDING AND ABRASIVE CUTTING-OFF OPERATIONS:

- a. **Use only wheel types that are recommended for your power tool and the specific guard**

designed for the selected wheel. Wheels for which the power tool was not designed cannot be adequately guarded and are unsafe.

- b. The grinding surface of centre depressed wheels must be mounted below the plane of the guard lip.** An improperly mounted wheel that projects through the plane of the guard lip cannot be adequately protected.
- c. The guard must be securely attached to the power tool and positioned for maximum safety, so the least amount of wheel is exposed towards the operator.** The guard helps to protect the operator from broken wheel fragments, accidental contact with the wheel and sparks that could ignite clothing.
- d. Wheels must be used only for recommended applications. For example: do not grind with the side of a cut-off wheel.** Abrasive cut-off wheels are intended for peripheral grinding, side forces applied to these wheels may cause them to shatter.
- e. Always use undamaged wheel flanges that are of correct size and shape for your selected wheel.** Proper wheel flanges support the wheel, thus reducing the possibility of wheel breakage. Flanges for cut-off wheels may be different from grinding wheel flanges.
- f. Do not use worn down wheels from larger power tools.** Wheels intended for a larger power tool is not suitable for the higher speed of a smaller tool and may burst.

Additional safety instructions for cutting-off operations

ADDITIONAL SAFETY WARNINGS SPECIFIC FOR ABRASIVE CUTTING-OFF OPERATIONS:

- a. Do not 'jam' the cut-off wheel or apply excessive pressure. Do not attempt to make an excessive depth of cut.** Overstressing the wheel increases the loading and susceptibility to twisting or binding of the wheel in the cut and the possibility of kickback or wheel breakage.
- b. Do not position your body in line with and behind the rotating wheel.** When the wheel, at the point of operation, is moving away from your body, the possible kickback may propel the spinning wheel and the power tool directly at you.
- c. When a wheel is binding or when interrupting a cut for any reason, switch off the power tool and hold the power tool motionless until the wheel comes to a complete stop. Never attempt to remove the cut-off wheel from the cut while the wheel is in motion, otherwise kickback may occur.** Investigate and take corrective action to eliminate the cause of wheel binding.
- d. Do not restart the cutting operation in the workpiece. Let the wheel reach full speed and carefully re-enter the cut.** The wheel may bind, walk up or kick back if the power tool is restarted in the workpiece.

- e. Support panels or any oversized workpiece to minimize the risk of wheel pinching and kickback.** Large workpieces tend to sag under their own weight. Supports must be placed under the workpiece near the line of cut and near the edge of the workpiece on both sides of the wheel.
- f. Use extra caution when making a 'pocket cut' into existing walls or other blind areas.** The protruding wheel may cut gas or water pipes, electrical wiring or objects that can cause kickback.

WARNING SYMBOLS



Warning!



Read the instructions



Wear ear protection



Wear eye protection



Wear a dust mask



Class II tool



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



Recycle unwanted materials instead of disposing of them as household waste. All tools, hoses and packaging should be sorted, taken to the local recycling centre and disposed of in an environmentally safe way.

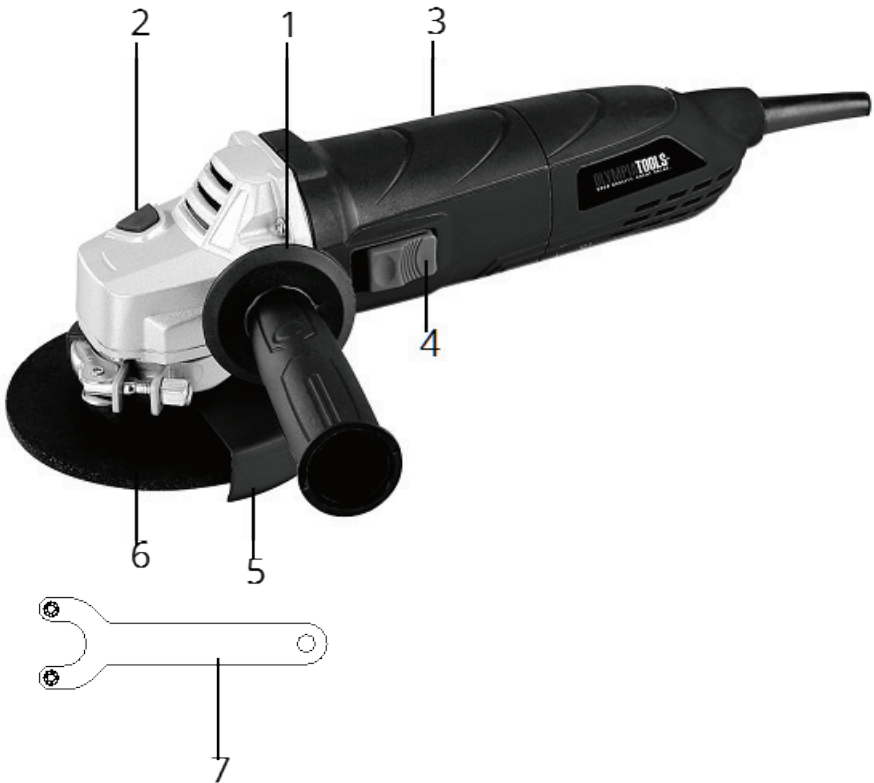


The product complies with the applicable UK directives, and an evaluation method of conformity for these directives was followed.

IN THE BOX

Description

1. Auxiliary handle
2. Spindle locking button
3. Hand grip area
4. On/Off switch
5. Wheel guard for grinding
6. Grinding disc (not supplied)
7. Spanner



OPERATION



NOTE: Before using the tool, read the instruction book carefully.

Intended Use

This tool is intended for cutting, roughing and brushing metal and stone materials without using water. For cutting metal, a special protection guard for cutting (accessory) must be used.

1. INSTALLING AND ADJUSTING THE WHEEL GUARD (GRINDING OR CUTTING) (SEE FIG. A)

Before any work on the tool itself, remove the mains plug from the socket.

For work with grinding or cutting discs, the wheel guard must be mounted.

Wheel Guard for Grinding

The coded projection on the wheel guard (5) ensures that only a guard that fits the tool type can be mounted. Loosen the clamp adjusting nut. Place the wheel guard (5) with coded projection into the coded groove on the spindle of the tool head and rotate to the required position (working position). Then tighten the clamp adjusting nut.

Wheel Guard for Cutting



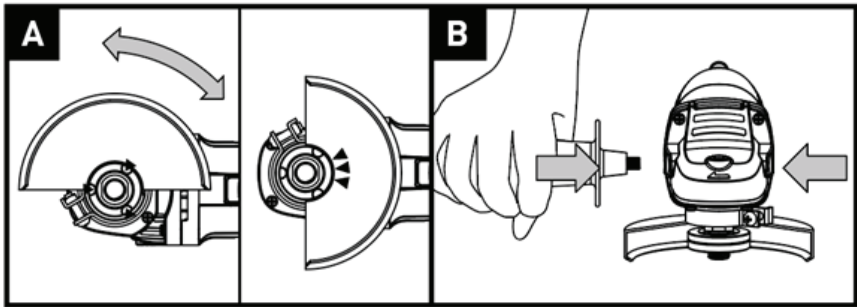
WARNING! For cutting metal, always work with the wheel guard for cutting (not supplied).

The wheel guard for cutting is mounted in the same manner as the wheel guard for grinding (5).

2. INSTALLING AND ADJUSTING AUXILIARY HANDLE (SEE FIG. B)

You have the option of two working positions to provide the safest and most comfortable control of your angle grinder. The handle is screwed clockwise into either hole on the sides of the gear case.

NOTE: This handle should be used at all times to maintain complete control of the tool.



3. FITTING THE DISCS

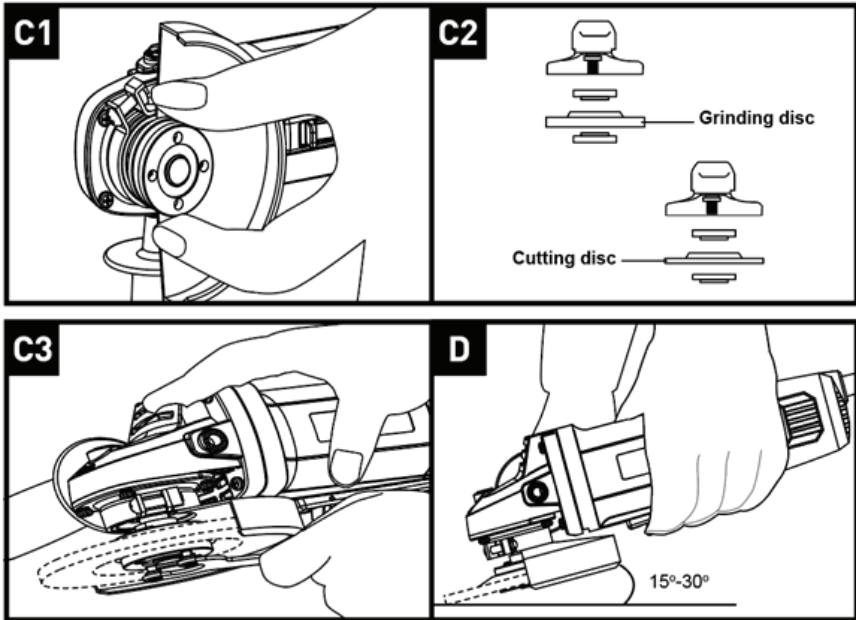
Put the inner flange onto the tool spindle. Ensure it is located on the two flats of the spindle.

Place the disc on the tool spindle and inner flange. Ensure it is correctly located. Fit the threaded outer flange, making sure it is facing in the correct direction for the type of disc fitted. For grinding discs, the flange is fitted with the raised portion facing towards the disc. For cutting discs, the flange is fitted with the raised portion facing away from the disc (SEE FIG. C1, C2).

Press in the spindle lock button (2) and rotate the spindle by hand until it is locked.

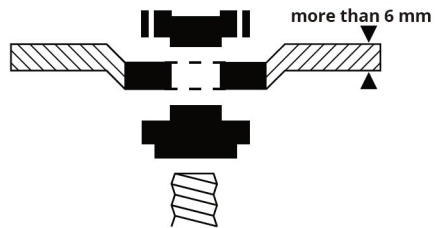
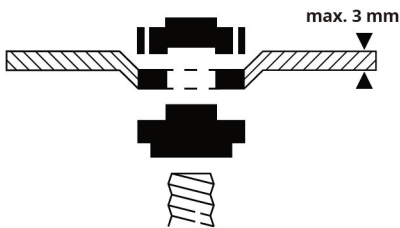
Keeping the lock button pressed in, tighten the outer flange with the spanner provided. (SEE FIG. C3)

NOTE: After mounting the grinding disc and before switching on, check that the grinding disc is correctly mounted and that it can turn freely. Make sure that the grinding disc does not catch against the protecting guard or other parts.



NOTE: For a grinding disc less than or 3mm thick, the flat side of the outer flange should face the grinding disc.

For a grinding disc more than 3mm thick, the flat side of the outer flange should face outward.



4. SPINDLE LOCK BUTTON

This button must be used only for changing a disc, do not engage this button during use.

Clean the grinder spindle and all parts to be mounted. For clamping and loosening the grinding wheel, lock the grinder spindle with the spindle lock button.



WARNING! Actuate the spindle lock button only when the grinder spindle is at a standstill!

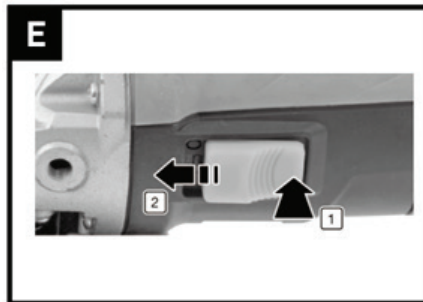
5. HAND GRIP AREAS (SEE FIG. D)

Always hold your angle grinder firmly with both hands when operating.

6. SLIDE ON/OFF SWITCH (SEE FIG. E)

Switching on: Press the On-Off switch; at the same time, slide forwards and allow it to engage in position [1].

Switching off: Press the On-Off switch briefly and allow it to glide back to position [0].



7. TO USE THE GRINDER (SEE FIG. F)



ATTENTION: Do not switch the grinder on whilst the disc is in contact with the workpiece. Allow the disc to reach full speed before starting to grind.

Hold your angle grinder with one hand on the main handle and your other hand firmly around the auxiliary handle.

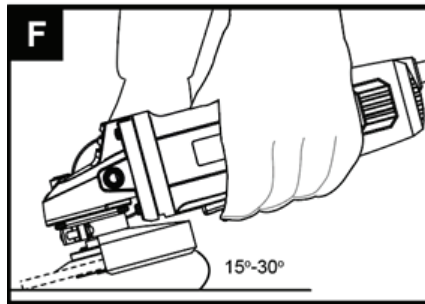
Always position the guard so that as much of the exposed disc as possible is pointing away from you.

Be prepared for a stream of sparks when the disc touches the metal.

For best tool control, material removal and minimum overloading, maintain an angle between the disc and work surface of approximately 15° - 30° when grinding.

Use caution when working into corners, as contact with the intersecting surface may cause the grinder to jump or twist.

When grinding is complete, allow the workpiece to cool. Do not touch the hot surface.



8. CUTTING



WARNING! For cutting metal, always work with the wheel guard for cutting.

When cutting, do not press, tilt or oscillate the tool. Work with moderate feed, adapted to the material being cut.

Do not reduce the speed of running down cutting discs by applying sideways pressure.

The direction in which the cutting is performed is important.

The tool must always work in an up-grinding motion.

Therefore, never move the tool in the other direction!

Otherwise, the danger exists of it being pushed uncontrolled out of the cut.

9. OVERLOAD

Overloading will cause damage to the motor of your angle grinder. This can happen if your angle grinder is subjected to heavy use for prolonged periods of time.

Do not, in any circumstances, attempt to exert too much pressure on your angle grinder to speed up your work.

If your angle grinder becomes too hot, run you angle grinder under no load for 2-3 minutes until it has cooled to normal operation temperature.

Working Hints for your Angle Grinder

1. Always start at no load to achieve maximum speed then start working.
2. Do not force the disc to work faster, reducing the discs moving speed means longer working time.
3. Always work with a 15°-30° angle between disc and workpiece. Larger angles will cut ridges into the workpiece and affect the surface finish. Move the angle grinder across and back and forth over the workpiece.
4. When using a cutting disc never change the cutting angle, otherwise you will stall the disc and angle grinder motor or break the disc. When cutting, only cut in the opposite direction to the disc rotation. If you cut in the same direction as the disc rotation the disc may push itself out of the cut slot.
5. When cutting very hard material, best results can be achieved with a diamond disc.
6. When using a diamond disc it will become very hot. If this happens, you will see a full ring of sparks around the rotating disc. Stop cutting and allow to cool at no load speed for 2-3 minutes.
7. Always ensure the workpiece is firmly held or clamped to prevent movement.

MAINTENANCE AND STORAGE




IMPORTANT!

Make sure that the tool has been thoroughly cleaned before storing it in a clean, dry and safe place, out of the reach of children.

1. Switch the product 'OFF' and disconnect it from the power supply before transporting it anywhere.
2. Always carry the product on its gripping surfaces.
3. Protect the product from any heavy impact or strong vibrations which may occur during transportation in vehicles.
4. Secure the product to prevent it from slipping or falling over.

TECHNICAL DATA

Model	6820A
Voltage/power	230-240V~ 50Hz/850W
Rated speed	12000min ⁻¹
Spindle thread	M14
Disc (not supplied)	
Disc size	115mm
Disc bore	22.2mm
Protection class	II / 
Weight	2.2kg
Noise and vibration data	
A weighted sound pressure (L _{pA})	91.0 dB(A), k=3dB(A)
A weighted sound power (L _{wA})	102.0 dB(A), k=3dB(A)
Vibrations	a _{h,AG} = 3.89m/s ² , K=1,5 m/s ²

The sound intensity level for the operator may exceed 80 dB(A) and ear protection measures are necessary.

The declared vibration value has been measured in accordance with a standard test method (according to EN 60745) and may be used for comparing one product with another. The declared vibration 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 and dependant 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.

Using the correct accessory for the tool, and ensuring it is sharp and in good condition.

The tightness of the grip on the handles and if any anti-vibration accessories are used.

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

This tool may cause hand-arm vibration syndrome if its use is not adequately managed.



WARNING! To be accurate, an estimation of exposure level in the actual conditions of use should also take account of all parts of the operating cycle, such as the times when the tool is switched off and when it is running idle but not actually doing the job. This may significantly reduce the exposure level over the total working period.

Helping to minimise 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).

If the tool is to be used regularly then invest in anti-vibration accessories.

Plan your work schedule to spread any high vibration tool use across a number of days.

RECYCLING AND DISPOSAL



Waste electrical products should not be disposed with household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling advice.

UK PLUG

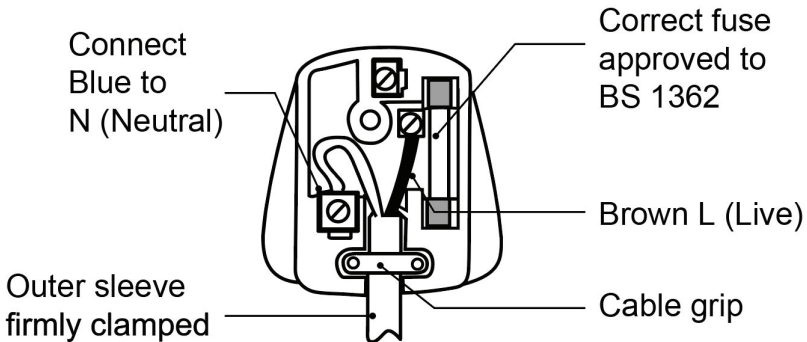
If you need to replace the fitted plug then follow the instructions below.

IMPORTANT: The wires in the mains lead are coloured in accordance with the following code: Blue–Neutral, Brown–Live.



WARNING! Never connect live or neutral wires to the earth terminal of the plug. Only fit an approved 5 Amp BS1363/A plug and the correct rated fuse.

As the colours of the wire in the mains lead of this product may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows: The blue wire must be connected to the terminal marked N or coloured black. The brown wire must be connected to the terminal marked L or coloured red.



GETTING HELP

Our dedicated UK-based customer helpline is open 7 days a week to assist you with assembly, parts queries and technical support. We are open during office hours but you can always send an email via **support@coreservice.co.uk**. Our experts are here to get you back enjoying your garden in no time.

For useful assembly, starting and maintenance videos, and ordering spares, please visit **www.coreservice.co.uk**.

Calling our service does not affect your statutory rights.

WARRANTY

This product is covered by a 1 year warranty.

The warranty covers any manufacturing defect in materials, workmanship and finish.

Any claim under this warranty must be made by going to your nearest Homebase store, taking your proof of purchase with you, and claims must be made within 12 months of the date of purchase.

We will offer you a free repair of the item where this is possible, or a replacement or a refund. Your statutory rights remain unaffected, in particular any rights you may have under the Consumer Rights Act 2015.

This warranty is given by HHGL Limited, MK9 1BA; HHGL (ROI) Limited, D02 X576.

Please note: This warranty does not apply to products misused or neglected and only covers domestic use. It does not apply to commercial use of the product. In addition, the warranty will be void for the following reasons: Any damage resulting from product misuse or product neglect.