

OLYMPIATOOLS®
GOOD QUALITY. GREAT VALUE.

USER MANUAL

**500W 115mm/4½"
ANGLE GRINDER**
AG115500



CE

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SAFETY INFORMATION



IMPORTANT: To reduce risk of injury, please read this user guide before assembly.

SAFETY WARNING SYMBOLS

The following warning symbols appear throughout this user guide and indicate the appropriate safety measures you should take when assembling and operating the angle grinder.

WARNING!

This symbol marks a point of safety, indicating a warning. Ignoring this safety symbol could result in an accident to yourself or others. To limit the risks of injury, fire or electrocution, always follow the recommendations indicated.

Safety warning symbols - Angle grinder



Protection Class II
(double insulated)

Compliance and recycling symbols



Complies with relevant European regulations



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

SAFETY INFORMATION



IMPORTANT: To reduce risk of injury, please read this user guide before assembly.

SAFETY WARNINGS - GENERAL POWER TOOLS

⚠ WARNING!

Read all safety warnings and instructions. Failure to follow warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

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

Work area safety

1. **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
2. **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
3. **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

Electrical safety

1. **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce risk of electric shock.

2. **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.
3. **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
4. **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.
5. **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.
6. **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.

Personal safety

1. **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.
2. **Use personal protective equipment. Always wear eye protection.** Protective equipment such as dust mask, on-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.



3. **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.

4. **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
5. **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
6. **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.
7. **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of dust collection can reduce dust-related hazards.
6. **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
7. **Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.

Service

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

Power tool use and care

1. **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.
2. **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
3. **Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
4. **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.
5. **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.

SAFETY INFORMATION



IMPORTANT: To reduce risk of injury, please read this user guide before assembly.

SAFETY WARNINGS - ALL OPERATIONS

Common warnings for grinding and cutting operations

1. **This power tool is intended to function as a grinder or cutting 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.
2. **Operations such as sanding, wire brushing or 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.

SAFETY INFORMATION | SAFETY WARNINGS - ALL OPERATIONS

- Do not use accessories which are not specifically designed and recommended by the tool manufacturer.** Just because the accessory can be attached to your power tool, it does not assure safe operation.
- The rated speed of the accessory must be equal to the maximum speed marked on the power tool.** Accessories running faster than their rated speed can break and fly apart.
- The outside diameter and the thickness of your accessory must be within the capacity rating of the power tool.** Incorrectly sized accessories cannot be adequately guarded or controlled.
- 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.
- Do not use a damaged accessory. Before each use inspect the accessory such as abrasive wheels for chips and cracks or cracked wires.** 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 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.
- Wear personal protective equipment. Depending on the application, use 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. Eye protection must be capable of stopping flying debris generated by various operations. The dust mask or respirator must be capable of filtrating particles generated by the operation. Prolonged exposure to high intensity noise may cause hearing loss.
- Keep bystanders a safe distance away from the work area. Anyone entering the work area must wear personal protective equipment.** Fragments of the workpiece or of a broken accessory may fly away and cause injury beyond the immediate area of operation.
- 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 accessories contacting a "live" wire may make exposed metal parts of the power tool "live" and shock the operator.
- 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.
- Never lay the power tool down until the accessory has come to a complete stop.** The spinning accessory may grab the surface and pull the power tool out of your control.
- Do not run the power tool while carrying it at your side.** Accidental contact with the spinning accessory could snag your clothing, pulling the accessory into your body.
- Regularly clean the power tool's air vents.** The motor's fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.
- Do not operate the power tool near flammable materials.** Sparks could ignite these materials.
- Do not use accessories that require liquid coolants.** Using water or other liquid coolants may result in electrocution or shock.
- Your hand must hold on to the handle when you are working.** Always use the side handles supplied with the tool. Loss of control can cause personal injury.

Kickback and related warnings

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

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

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

2. **Maintain a firm grip on the power tool and position your body and arm to allow you to resist kickback forces. Always use side 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.
3. **Never place your hand near the rotating accessory.** Accessory may kickback over your hand.
4. **Do not position your body in the area where power tool will move if kickback occurs.** Kickback will propel the tool in direction opposite to the wheel's movement at the point of snagging.
5. **Use special care when working in 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.
6. **Do not attach a saw chain woodcarving blade or toothed saw blade.** Such blades create frequent kickback and loss of control.

Specific warnings for grinding and cutting operations

1. **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.
2. **The grinding surface of the depressed centre wheel must be mounted inside the guard lip.** An improperly mounted wheel that projects outside the guard lip cannot be adequately protected.
3. **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 operator from broken wheel fragments and accidental contact with wheel and sparks that could ignite clothing.
4. **Wheels must be used only for recommended applications. For example: do not grind with the side of cutting wheel.** Abrasive cutting wheels are intended for peripheral grinding, side forces applied to these wheels may cause them to shatter.
5. **Always use undamaged wheel flanges that are of correct size and shape for the selected wheel.** Proper wheel flanges support the wheel thus reducing the possibility of wheel breakage. Flanges for cutting wheels may be different from grinding wheel flanges.
6. **Do not use worn down wheels from larger power tools.** Wheels intended for larger power tools are not suitable for the higher speed of a smaller power tool and may burst.

Specific warnings for cutting operations

1. **Do not “jam” the cutting 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.
2. **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.
3. **When the 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 cutting 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.
4. **Do not restart the cutting operation in the workpiece. Let the wheel reach full speed and carefully recentre the cut.** The wheel may bind, walk up or kickback if the power tool is restarted in the workpiece.
5. **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.
6. **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.

IN THE BOX

Key features



Accessories

1. 1x Side handle
2. 1x Quick release disc guard (for grinding)
3. 1x Wrench

OPERATION INSTRUCTIONS



IMPORTANT: To reduce risk of injury, please read this user guide before use.

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 must be used (not supplied).

Installing and adjusting the wheel guard for grinding or cutting (See fig. A)

Before any work on the tool itself, remove the mains plug from socket. For work with grinding or cutting discs, the wheel guard must be mounted.

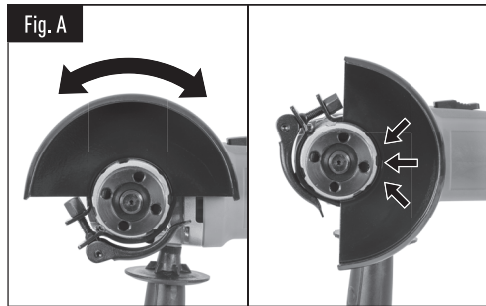
Wheel guard for grinding

The protrusions on the wheel guard (6) ensure that only a guard that fits the tool type can be mounted. Loosen the clamp adjusting nut. Place the wheel guard (6) with protrusions into the notches on the collar of the gear housing and rotate to the required working position. Then tighten the clamp adjusting nut.

Wheel guard for cutting

⚠ WARNING!

For cutting metal, always use a special protection guard (not supplied). The wheel guard for cutting is mounted in the same manner as the wheel guard for grinding.

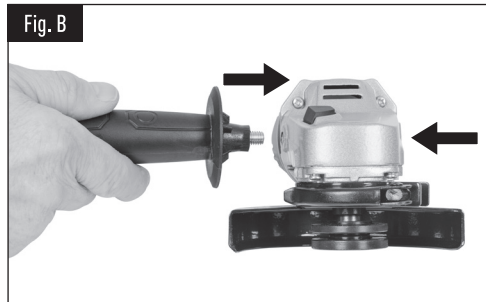


Installing and adjusting side handle (See fig. B)

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 housing.

⚠ WARNING!

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



Fitting discs

Put the inner flange onto the tool spindle. Ensure it is located on the two flats of 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 (1) and rotate the spindle by hand until it is locked. Keeping the lock button pressed in, tighten the outer flange with the wrench provided (8), (See fig. C3).

⚠ WARNING!

Check that the grinding wheel is correctly mounted and that it can turn freely, make sure that the grinding wheel does not catch against the protecting guard or other parts.

Fig. C1



Fig. C2

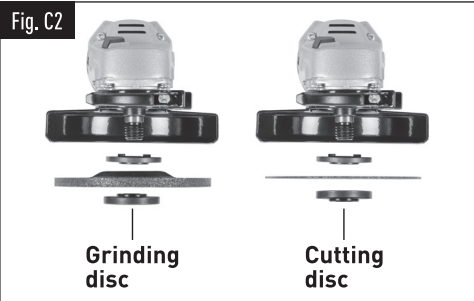


Fig. C3



Spindle lock button

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.

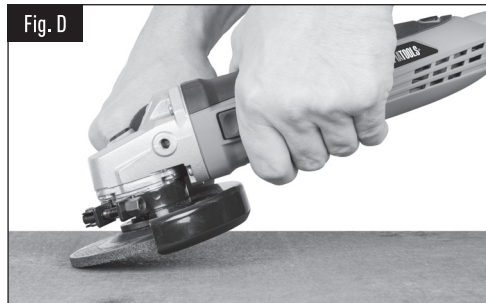
⚠ WARNING!

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

Hand grip areas (See fig. D)

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

Fig. D



OPERATION INSTRUCTIONS

Safety lock-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).

Fig. E



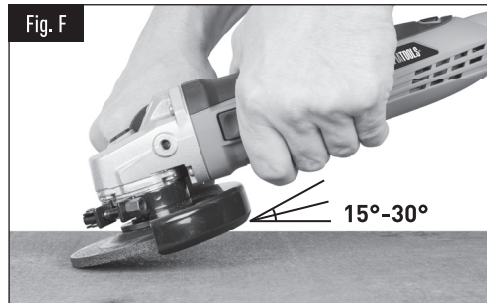
To use the grinder (See fig. F)

⚠ WARNING!

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 other hand firmly around the side 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°C-30°C 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.

Fig. F



Cutting

⚠ WARNING!

For cutting metal, use a special protection guard (not supplied).

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 sideward 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.

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 the angle grinder without load for 2-3 minutes until it has cooled to normal operation temperature.

USEFUL TIPS

1. Always start at no load to achieve maximum speed then start working.
2. Do not force the disc to work faster, reducing the disc's 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 without load for 2-3 minutes.
7. Always ensure the workpiece is firmly held or clamped to prevent movement.

TROUBLE SHOOTING

If your grinder will not operate

Check the power at the mains plug.

If your grinder wheel wobbles or vibrates

Check that the outer flange is tight, check that the wheel is correctly located on the inner flange.

If there is any evidence that the wheel is damaged

Do not use as the damaged wheel may disintegrate, remove it and replace with a new wheel. Dispose of old wheels sensibly.

If working on aluminium or a similar soft alloy

The wheel will soon become clogged and will not grind effectively.

MAINTENANCE

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

Your power tool requires no additional lubrication or maintenance. There are no user serviceable parts in your power tool.

Never use water or chemical cleaners to clean your power tool. Wipe clean with a dry cloth.

Always store your power tool in a dry place.

Keep the motor ventilation slots clean. Keep all working controls free of dust.


If you see some sparks flashing in the ventilation slots, this is normal and will not damage your power tool.

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

TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS

Angle grinder

Model	6811-1 (AG115500)
Code	09-410
Mains supply	230V-50Hz
Power input	500W
No-load speed	12000/min
Disc diameter	115mm/4½"
Spindle thread	M14
Protection class II	
Weight	1.50kg

Noise/vibration information

Noise

A weighted sound pressure	L_{pA} : 91dB(A)
A weighted sound power	L_{wA} : 102dB(A)
	K_{pA} and K_{wA} = 3.0dB(A)

WARNING!

Wear ear protection when sound pressure is over: 80dB(A)

Vibration

Vibration total values (triax vector sum) determined according to EN 60745:

Surface grinding	Vibration emission value $a_{h,AG} = 3.89m/s^2$
	Uncertainty $K = 1.5m/s^2$

The declared vibration total value may be used for comparing one tool with another, and 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 for example:

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

The tool being in good condition and well maintained.

Use of the correct accessory for the tool and ensuring it is sharp and in good condition.

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

The tool is being used as intended by its design and as detailed in this user guide.

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.

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.

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.

DISPOSAL

Packaging materials

Dispose of in an environmentally friendly way by adding to your recyclable waste bin, or by taking it to a public collection centre.



Electrical products

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



STORAGE

Store the machine, operating instructions and where necessary the accessories in the original packaging. In this way you will always have all the information and parts ready to hand.

Pack the device well or use the original packaging in order to avoid transit damage.

Always keep the machine in dry place.

PLUG REPLACEMENT (UK AND IRELAND ONLY)

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:

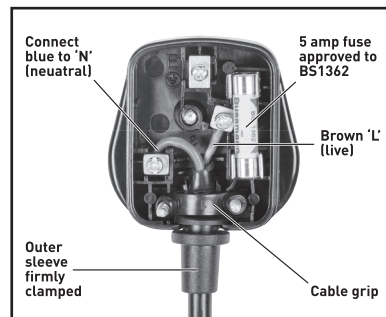
Blue – Neutral

Brown – Live

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows. The wire which is coloured blue must be connected to the terminal which is marked with 'N'. The wire which is coloured brown must be connected to the terminal which is marked with 'L'.

⚠ WARNING!

Never connect live or neutral wires to the earth terminal of the plug. Only fit an approved BS1363/A plug and the correct 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.



GUARANTEE

GUARANTEE

This product is selected for **DOMESTIC USE ONLY** and not for business use. This product is guaranteed against manufacturing defects for a period of 24 months. This does not cover the product where the fault is due to misuse, abuse, use in contravention of the instructions, or where the product has been the subject of unauthorised modifications or alterations, or has been the subject of commercial use. In the event of a problem with the product within the guarantee period please return it to your nearest store. If the item is shown to have an inherent defect present at the time of sale, the store will provide you with a replacement. Your statutory rights remain unaffected.

EU DECLARATION OF CONFORMITY

1. Apparatus product/model

Product: 500W 115mm/4½" grinder

Model: 6811-1

2. This declaration of conformity is issued under the sole responsibility of the manufacturer

3. Object of the declaration

Product: 500W 115mm/4½" grinder

Model: 6811-1

Rated voltage: 230V~50Hz

4. This 500W 115mm/4½" grinder model number 6811-1 fully complies with the Machinery Directive 2006/42/EC, Electromagnetic Compatibility Directive 2014/30/EC, RoHS Directive 2011/65/EU and the following harmonized EU standards:

EN 60745-1: 2009/A11: 2010 EN 61000-3-2: 2014

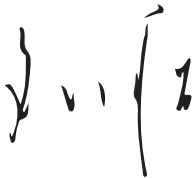
EN 60745-2-3: 2011/A13: 2015 EN 61000-3-3: 2013

EN 55014-1: 2017

EN 55014-2: 2015

**5. This declaration is made under the sole responsibility of:
SUMEC HARDWARE AND TOOLS CO., LTD.**

Date: Oct,15,2019



OLYMPIATOOLS®

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