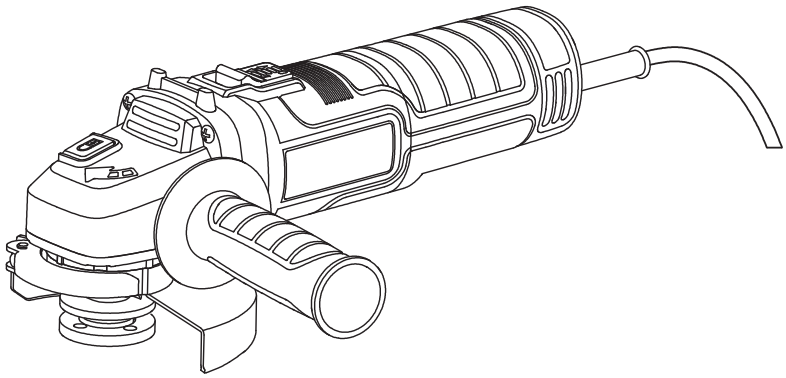
EN

TITAN

Angle Grinder
750W



Instructions_MNL_TTB878GRD_GB_V1_211225 BX220IM

TTB878GRD

EN

EAN: 5059340251981

WARNING: Read the instructions before using the product!

EN

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**

In more **detail**

Safety warnings

General power tool safety warnings

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 adapter 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 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. Always wear eye protection.** *Protective equipment such as a 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 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 and clothing 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 dust collection 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 remove the battery pack, if detachable, 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 and accessories. 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.*

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 grasping surfaces dry, clean and free from oil and grease.** *Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.*

5) Service

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

Angle grinder safety warnings

Safety warnings common for grinding and 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 or hole cutting are not 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 convert this power tool to operate in a way which is not specifically designed and specified by the tool manufacturer.** *Such a conversion may result in a loss of control and cause serious personal injury.*

d) **Do not use accessories which are not specifically designed and specified by the tool manufacturer.** *Just because the accessory can be attached to your power tool, it does not assure safe operation.*

e) **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.*

f) **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.*

g) **The dimensions of the accessory mounting must fit the dimensions of the mounting hardware of the power tool.** *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.*

h) **Do not use a damaged accessory. Before each use inspect the accessory such as abrasive wheels for chips and cracks, backing pad for cracks, tear or excess wear, wire brush for loose or cracked wires. If 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.*

i) **Wear personal protective equipment. Depending on application, use face shield, safety goggles or safety glasses. As appropriate, wear 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 filtrating particles generated by the particular application. Prolonged exposure to high intensity noise may cause hearing loss.*

j) **Keep bystanders a safe distance away from work area. Anyone entering the work area must wear personal protective equipment.** *Fragments of workpiece or of a broken accessory may fly away and cause injury beyond immediate area of operation.*

k) **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.*

l) **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.*

m) **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.*

n) **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.*

o) **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.*

p) **Do not operate the power tool near flammable materials.** *Sparks could ignite these materials.*

q) **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 causes 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 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 kick out. 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.

a) **Maintain a firm grip with both hands on the power tool and position your body and arms to allow you to resist kickback forces. Always use 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 kickback 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 direction opposite to the wheel's 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, segmented diamond wheel with a peripheral gap greater than 10 mm 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 Cutting-Off Operations:

a) **Use only wheel types that are specified 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 wheel and sparks that could ignite clothing.*

d) **Wheels must be used only for specified applications. For example: do not grind with the side of 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.** *Wheel intended for larger power tool is not suitable for the higher speed of a smaller tool and may burst.*

g) **When using dual purpose wheels always use the correct guard for the application being performed.** *Failure to use the correct guard may not provide the desired level of guarding, which could lead to serious injury.*

Additional Safety Warnings Specific for 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 the wheel is binding or when interrupting a cut for any reason, switch off the power tool and hold it 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 kickback 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.*

g) **Do not attempt to do curved cutting.** *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, which can lead to serious injury.*

Safety warnings for bonded abrasive wheels

General

Abrasives are breakable and shall therefore be handled with utmost care! The use of damaged or improperly mounted or used abrasives is dangerous and can cause serious injuries.

Delivery, handling and storage

Abrasives shall be handled and transported with care.

Abrasives shall be stored in such a manner that they are not subjected to mechanical damages and harmful environmental influences.

Selection of abrasives

Information on the label or the abrasive as well as restrictions of use, safety indications or any other instruction shall be followed. In case of doubt concerning

the selection of abrasives, the user shall request information from the manufacturer or supplier.

Visual inspection and ring test

Abrasives shall be subjected to a visual inspection as received before mounting. In addition, a ring test shall be executed for abrasives with diameter > 80 mm. Damaged abrasives shall not be used.

Mounting, before starting and information for grinding

The mounting of abrasives shall be carried out according to the instructions provided by both, the abrasive and the machine manufacturer. Special attention shall be drawn to the fact that mounting of abrasives is to be carried out by a qualified trained person, Each time after mounting, the abrasive shall be test run for a reasonable time – the specified maximum operating speed of the abrasive shall not be exceeded.

The following information applies to professional users only but is good practice for all users:

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.

Toprotect 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?

a) Reduce the amount of cutting by using the best sizes of building products.

b) Use a less powerful tool e.g. a block cutter instead of angle grinder.

c) 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, drilling 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 use can be difficult and the HSE website has further information.

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

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:

- How the materials are grinded, cut or drilled.
- If the tool is in good condition and well maintained.
- Use correct accessory for the tool and ensure it is sharp and in good condition.
- The tightness of the gripping handles.
- 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 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).
- Avoid using tools in temperatures of 10ºC 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 identity any vibration related diseases at an early stage, prevent disease progression and help employees stay in work.

Vibration and noise reduction

To reduce the impact of noise and vibration emission, limit the time of operation, use low-vibration and low-noise operating modes as well as wear personal protective equipment.

Take the following points into account to minimise the vibration and noise exposure risks:

a) Only use the product as intended by its design and these instructions.

b) Ensure that the product is in good condition and well maintained.

c) Use correct attachments for the product and ensure they are in good condition.

d) Keep tight grip on the handles/grip surface.

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

f) Plan your work schedule to spread any high vibration tool use across a longer period of time.

g) Prolonged use of the product exposes the user to vibrations that can cause a range of conditions collectively known as hand-arm vibration syndrome (HAVS) e.g. fingers going white; as well as specific diseases such as carpal tunnel syndrome. To reduce this risk when using the product, always wear protective gloves and keep your hands warm.

Emergency

Familiarise yourself with the use of this product by means of this instruction manual. Memorise the safety directions and follow them to the letter. This will help to prevent risks and hazards.

a) **Always be alert when using this product, so that you can recognise and handle risks early.** *Fast intervention can prevent serious injury and damage to property.*

b) **Switch off and disconnect from the power supply if there are malfunctions.** *Have the product checked by a qualified professional and repaired, if necessary, before you operate it again.*

Residual risks

Even if you are operating this product in accordance with all the safety requirements, potential risks of injury and damage remain. The following dangers can arise in connection with the structure and design of this product:

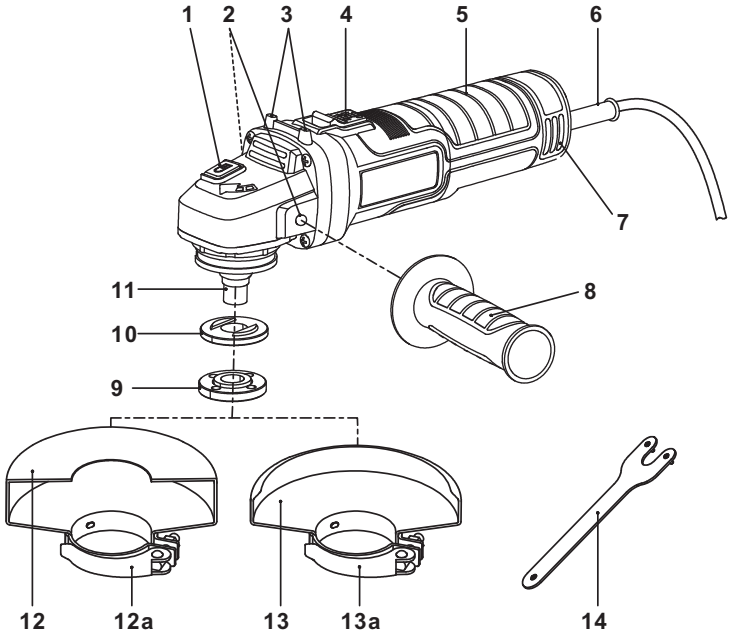
a) Health defects resulting from vibration emission if the product is being used over long periods of time or not adequately managed and properly maintained.

b) Injuries and damage to property due to broken cutting attachments or the sudden impact of hidden objects during use.

c) Danger of injury and property damage caused by flying objects or poor power tool accessories.

WARNING! This product produces an electromagnetic field during operation! This field may under some circumstances interfere with active or passive medical implants! To reduce the risk of serious or fatal injury, we recommend persons with medical implants to consult their doctor and the medical implant manufacturer before operating this product!

Your product



1. Spindle lock button
2. Mounting thread
3. Foot
4. On/off switch
5. Gripping handle
6. Power cord with plug
7. Air vents
8. Auxiliary handle
9. Locking flange
10. Backing flange
11. Spindle
12. Cutting guard
    a. Clamp lever
13. Grinding guard
    a. Clamp lever
14. Spanner

NOTE: Parts marked with * are not shown in this overview. Please refer to the respective part in the instruction manual.

Technical specifications

General

>	**Rated voltage, frequency**	:	220- 240 V~, 50 Hz
>	**Rated input power**	:	750 W
>	**Rated no load speed n_0**	:	12000 min^{-1}
>	**Rated capacity**	:	Ø 115 mm
>	**Spindle thread size**	:	M14
>	**Protection class**	:	II
>	**Weight**	:	approx. 2.8 kg

Sound values

>	**Sound pressure level L_{pA}**	:	85.5 dB (A)
>	**Sound power level L_{WA}**	:	96.5 dB (A)
>	**Uncertainty K_{pA}, K_{WA}**	:	3 dB (A)

Hand arm vibration values

>	**Surface grinding $a_{h,AG}$**	:	7.4 m/s^2
>	**Uncertainty K**	:	1.5 m/s^2

The sound values have been determined according to noise test code given in EN 60745-2-3, using the basic standards EN ISO 3744 and EN ISO 11203.

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 60745-2-3) 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 and noise emissions during actual use of the power tool can differ from the declared values depending on the ways in which the tool is used especially what kind of workpiece is processed; and need to 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).

Rating label explanation

TTB878GRD = Model Number

TT = TITAN

B = 220-240V~

878 - Sequential Code

GRD = Angle Grinder

Symbols

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

V ~	Volt, (alternating voltage)	Hz	Hertz
W	Watt	/min or min^{-1}	Per minute
g	Gram	kg	Kilogram
mm	Millimetre	m	Metre
dB(A)	Decibel (A-rated)	m/s^2	Metres per second squared
	Lock / to tighten or secure.		Unlock / to loosen.
	Note / Remark.		Caution / Warning.

xxWyy — Manufacturing date code; year of manufacturing (20xx) and week of manufacturing (Wyy)

 Read the instruction manual.

 Wear hearing protection.

 Wear eye protection.

 Wear a dust mask.

 Wear protective gloves.

 Wear protective, slip-resistant footwear.

 Switch the product off and disconnect it from the power supply before assembly, cleaning, adjustments, maintenance, storage and transportation.

Always operate with two hands.

Do not use the grinding guard for cutting-off operations.

Not permitted for wet grinding - Abrasive product only suitable for dry grinding.

This product is of protection class II. That means it is equipped with enhanced or double insulation.

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

UK Conformity Assessed.

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

Unpacking

1. Unpack all parts and lay them on a flat, stable surface.
2. Remove all packing materials and shipping devices if applicable.
3. 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.
4. Ensure that you have all the accessories and tools needed for assembly and operation. This also includes suitable personal protective equipment.

WARNING! The product and the packaging are not children's toys! Children must not play with plastic bags, sheets and small parts! There is a danger of choking and suffocation!

You will need

(items not supplied)

suitable personal protective equipment

Cutting wheel

Grinding wheel

(items supplied)

Auxiliary handle (8)

Cutting guard (12)

Grinding guard (13)

Spanner (14)

NOTE: The accessories required depend on the intended application. Ask your dealer for advice.

Setup

WARNING! The product must be fully assembled before operation! Do not use a product that is only partly assembled or assembled with damaged parts!

Follow the assembly instructions step-by-step and use the pictures provided as a visual guide to easily assemble the product!

Do not connect the product to the power supply before it is completely assembled!

NOTE: Always lay the product with its feet (3) on a flat, stable surface while working on the spindle or the guard.

Auxiliary handle

For reasons of safety the auxiliary handle (8) must be assembled when using the product.

1. Screw the auxiliary handle (8) clockwise in one of the mounting threads (2) (Figs. 1, 2).
2. Make sure the auxiliary handle (8) is securely fastened.

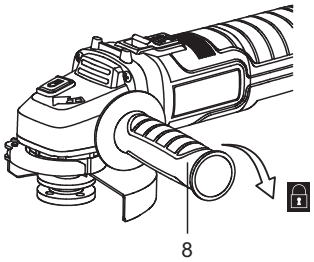


Fig. 1

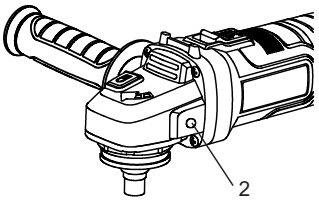


Fig. 2

Safety guard

Attach the respective guard (12 / 13) according to the intended application.

1. Use the closed cutting guard (12) for cutting-off applications (Fig. 3).
2. Use the opened grinding guard (13) for grinding applications (Fig. 4).

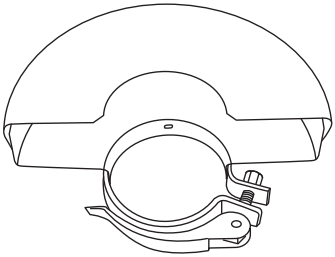


Fig. 3, cutting guard (12)

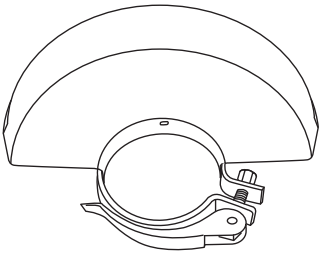


Fig. 4, grinding guard (13)

Attaching

1. Open the clamp lever (13a) on the guard.
2. Align the noses on the ring to the notches on the spindle collar, and then rotate the guard (Figs. 5, 6).

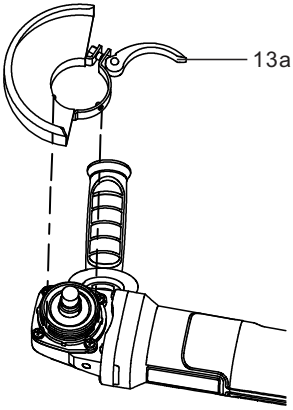


Fig. 5

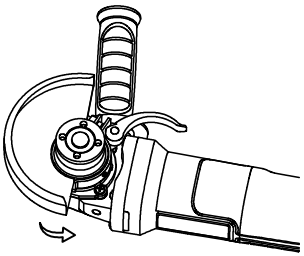


Fig. 6

3. Close the clamp lever (13a) (Figs. 7, 8).

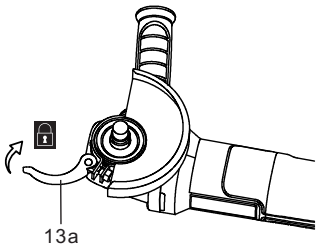


Fig. 7

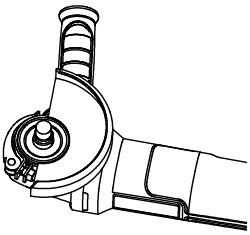


Fig. 8

NOTE: If the lever cannot be clamped, slightly loosen the nut. If the lever can be clamped without resistance, tighten the nut.

Adjusting

WARNING! Adjust the guard position according to the intended operation! The closed side of the guard must always point to the user!

1. Open the clamp lever (13a).
2. Rotate the guard to required position (Fig. 9).
3. Close the clamp lever (13a).

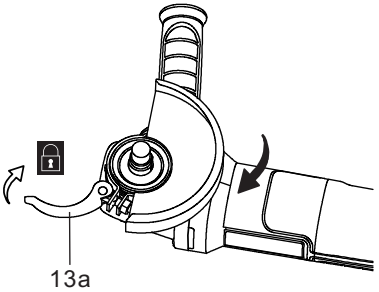


Fig. 9

NOTE: The position of the guard can also be adjusted after the wheel has been attached.

Removing / replacing

1. Remove the locking flange (9), the wheel and the backing flange (10) (if any).
2. Open the clamp lever (13a).
3. Rotate the guard until the noses on the ring is aligned to the notches on the spindle collar, and then remove the guard.
4. Attach a new / other guard as described.

Grinding / cutting wheels

With this product different grinding / cutting wheels can be used depending on the workpiece material.

WARNING! Always use the correct wheel according to the intended use! For example, never use a wheel intended for grinding for cutting-off applications or vice versa!
Observe the technical requirements of this product (see section Technical specifications) when purchasing and using cutting / grinding tools!
Cutting / grinding wheels become hot during use! Handle them carefully! Wear protective gloves when handling wheels in order to avoid injuries like burns and cuts!

Grinding wheels

Shape	Thickness/diameter	Application
 (type 27)  (type 28)	> 4 mm Ø 115mm	grinding metal, stone
Cutting wheels		
Shape	Thickness/diameter	Application
 (type 42)  (type 41)	< 4 mm Ø 115mm	cutting-off metal, stone

Inspection of wheels

Prior to mounting, all wheels shall be inspected for damage and cracks. Wheels which show any evidence of cracks, abusive handling or abusive storage should never be mounted. Cracks in abrasive wheels are frequently not visible to the naked eye.

Attaching

1. Press the spindle lock button (1) and turn the spindle until it locks in place (Fig. 10).
2. Keep the spindle lock button (1) pressed and loosen the locking flange (9) anticlockwise with spanner (14) (Fig. 11).

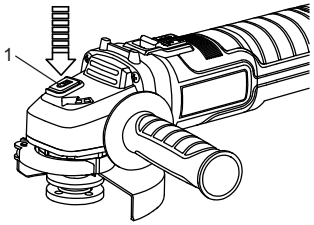


Fig. 10

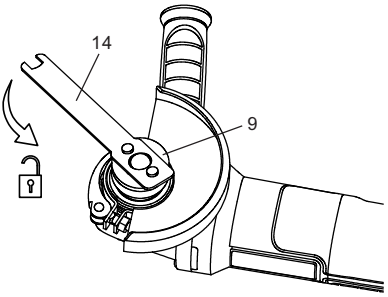


Fig. 11

3. Remove the locking flange (9) from the spindle (11).
4. Holding the product with spindle facing upwards, fit the backing flange (10) onto the spindle and ensure it is correctly located. The two machined flat sections must face the product and locate in the appropriate position on the spindle (11).
5. Place the wheel onto the spindle (11) with the label facing the product. The hole in the wheel should locate onto the spindle (11) and fit firmly into the protruding section of the backing flange (10) (Fig. 12).

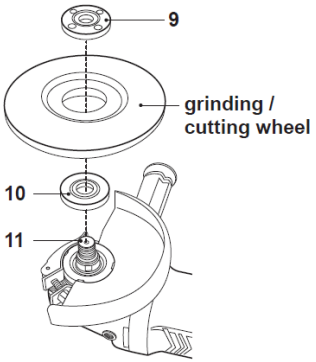


Fig. 12

6. Place the locking flange (9) on the spindle (11). Depending on the kind of wheel, the flange must be placed as follows:
   - Thin wheels (< 4 mm) with flat centre: place the locking flange (9) with protruding side away from the wheel (Fig. 13).
   - Thin wheels (< 4 mm) with curved centre: place the locking flange (9) with protruding side away from the wheel (Fig. 14).
   - Thick wheels (> 4 mm) with curved centre: place the locking flange (9) with protruding side to the wheel (Fig. 15).

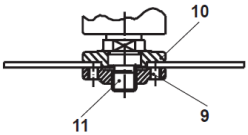


Fig. 13

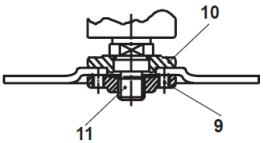


Fig. 14

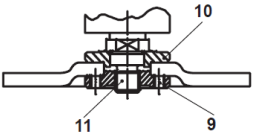


Fig. 15

7. Press the spindle lock button (1) and tighten the locking flange (9) clockwise with the spanner (14).

Grinding / cutting wheels

WARNING! Ensure the wheel is properly fastened but do not use force to tighten the flange! High pressure will cause damages like cracks to the wheel!

1. Turn the wheel by hand to test if it is rotating smoothly. The wheel should not flutter.
2. Switch the product on and let it run idle for at least one minute, to confirm that the wheel has been installed properly.

Removing / replacing

Replace a worn or damaged grinding / cutting wheel:

1. Ensure the spindle (11) stands still and press the spindle lock button (1). Turn the spindle (11) until it locks in place.
2. Keep the spindle lock button (1) pressed and loosen the locking flange (9) anticlockwise with the spanner (14).
3. Remove the locking flange (9), wheel as well as the backing flange (10) from the spindle (11).
4. Check the flanges (9, 10) for damages and wear. Replace them if necessary.
5. Clean the flanges (9, 10) and spindle (11) from dust.
6. Refit the backing flange (10) to the spindle (11).
7. Refit appropriate wheel onto the spindle (11).
8. Refit the locking flange (9) to the spindle (11), ensuring that the locking flange (9) is correctly orientated for the intended use.
9. Press the spindle lock button (1) and tighten the locking flange (9) clockwise with the spanner (14).

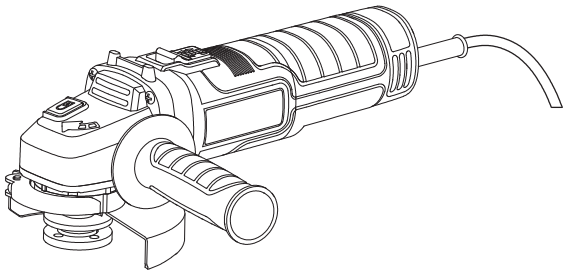
Connection to power supply

1. Make sure the on/off switch (4) is in its off position.
2. Connect the plug with a suitable socket.

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

3. Your product is now ready to be used.

In more **detail…**



Intended use

This angle grinder TITAN TTB878GRD is designated with a rated input of 750 Watts.
This product is intended for grinding and cutting-off applications with bonded abrasive wheels on metal, stone or similar materials.

Depending on the intended application the respective safety guard and wheel must be attached to the product. It is not intended for polishing, sanding or operation with metal brushes. Do not work on soft materials like wood, wood similar materials, soft metal like aluminium or lead.

The product may be used for dry operation only without water or other cooling liquids

For safety reasons it is essential to read the entire instruction manual before first operation and to observe all the instructions therein.

Switching on/off

1. Press the rear part of the on/off switch (4) and slide it forward, until the switch locks in its on-position (Fig. 16).
2. Press the rear part of the on/off switch (4) again so that it snaps back into its off-position (Fig. 17).

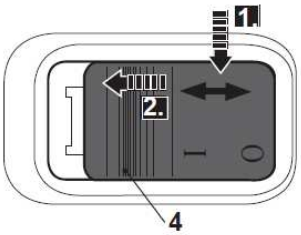


Fig. 16: Off-position

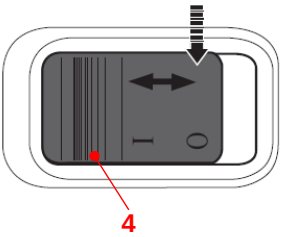


Fig. 17: On-position

General operation

1. Check the product, its power cord and plug as well as accessories for damage before each use. Do not use the product if it is damaged or shows wear.
2. Double check that the accessories and attachments are properly fixed.
3. Always hold the product on its front and rear handles. Keep the front and rear handles dry to ensure safe support.
4. Ensure that the air vents are always unobstructed and clear. Clean them if necessary with a soft brush. Blocked air vents may lead to overheating and damage the product.
5. Switch the product off immediately if you are disturbed while working by other people entering the working area. Always let the product come to complete stop before putting it down.
6. Do not overwork yourself. Take regular breaks to ensure you can concentrate on the work and have full control over the product.
7. Grip the product securely with two hands so you have full control at all times. The starting torque creates a sudden jerk.
8. Wait until the wheel has reached its full speed before applying it to the workpiece.
9. Always be aware of kickback, ensure stable footing.
10. Secure the workpiece properly, e.g. with a clamping device or a vice.

Grinding

WARNING! During operation fine dust will be generated!

Some dusts are highly inflammable and explosive! Do not smoke during operation, keep heat sources and open flames out of the working area!

Always wear a dust mask to protect yourself against hazards resulting from fine dust!

NOTE: Do not turn the switch on or off while the product is in contact with the workpiece. It will decrease switch life and could cause damage to the workpiece.

1. Tilt the product at a 10° to 15° angle for easy handling and smooth grinding (Fig. 18).
2. Apply the wheel to the work surface with a light, steady pressure for maximum grinding efficiency. It should never be necessary to force the product. The weight of the product applies adequate pressure.
3. Excessive pressure will overload the motor, slow the grinding action, put dangerous stress on the wheel and causes breakage.
4. Move the product back and force steadily (Fig. 19).

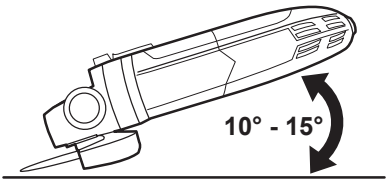


Fig. 18

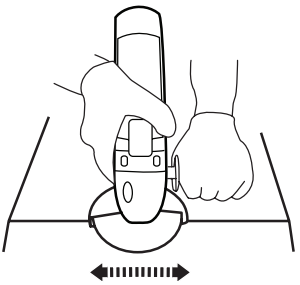


Fig. 19

Cutting

1. Do not overwork the cutting wheel by applying too much load on the product.
2. Hold the product so that the cutting wheel is at a 90° angle to the workpiece (Fig. 20).
3. Ensure that the wheel is kept aligned with the cut, twisting the product may cause the wheel to shatter.
4. Work with moderate feed, suited to the material being worked.
5. Always work in an up-grinding motion to avoid the wheel being pushed uncontrolled out of the cut.
6. Steadily guide the product in the direction of arrow to complete the cutting action (Fig. 21).

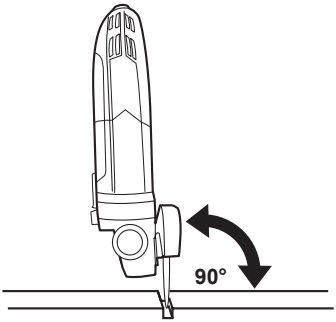


Fig. 20

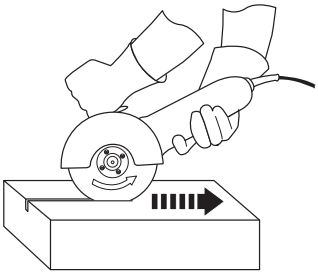


Fig. 21

WARNING! Do not brake the wheel by applying sideward pressure.

After use

1. Switch the product off, disconnect it from the power supply and let it cool down.
2. Check, clean and store the product as described below.

In more detail...

The golden rules for care

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

1. Keep the product clean. Remove debris from it after each use and before storage.
2. Regular and proper cleaning will help ensure safe use 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! 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. In particular clean the air vents (7) after every use with a cloth and brush.
3. Remove stubborn dust with high pressure air (max. 3 bar).

NOTE: Do not use chemical, alkaline, abrasive or other aggressive detergents or disinfectants to clean this product as they might be harmful to its surfaces.

4. Check for worn or damaged parts. Replace worn parts as necessary or contact an authorised service centre for repair before using the product again.

Maintenance

Before and after each use, check the product and accessories (or attachments) for wear and damage. If required, exchange them for new ones as described in this instruction manual. Observe the technical requirements.

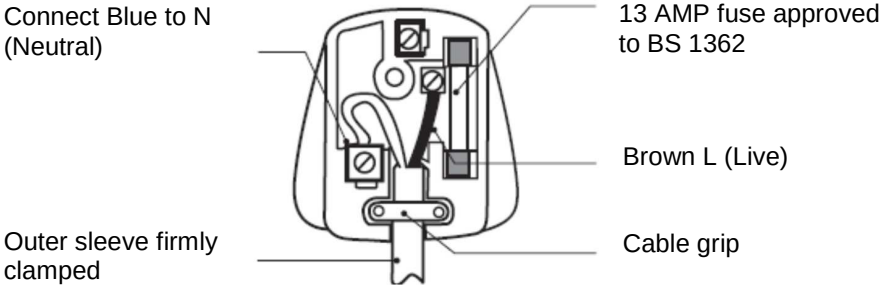
Power cord

If the supply cord is damaged, it must be replaced by a specially prepared cord available through the service organization.

UK plug (for UK 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 wire in the mains lead of this product may not correspond with the coloured marking 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 or coloured black. The wire, which is coloured brown, must be connected to the terminal, which is marked L or coloured red.



WARNING! Never connect live or neutral wires to the earth terminal of the plug, which is marked with E.

Only fit an approved 13 Amp BS 1363 or BS 1363/A plug and correctly rated 13A BS 1362 fuse. If in doubt, consult a qualified electrician.

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

This product does not contain any parts that can be repaired by the consumer. Contact an authorised service centre or a similarly qualified person to have it checked and repaired.

Storage

1. Switch the product off and disconnect it from the power supply.
2. Clean the product as described above.
3. Lay the product with is feet (3) on a flat, stable surface to ensure a safe stand. This way the spindle (11), guards (12/ 13) or grinding / cutting wheels will not get damaged.
4. Store the product and its accessories in a dark, dry, frost-free, well-ventilated place.
5. Always store the product in a place that is inaccessible to children. The ideal storage temperature is between 10 °C and 30 °C.
6. We recommend using the original package for storage or covering the product with a suitable cloth or enclosure to protect it against dust.

Transportation

1. Switch the product off and disconnect it from the power supply.
1. Attach transportation guards, if applicable.
2. Always carry the product by its gripping handle (5).
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.

Troubleshooting

Suspected malfunctions are often due to causes that the users can fix themselves. Therefore check the product using this section. In most cases the problem can be solved quickly.

WARNING! Only perform the steps described within these instructions! All further inspection, maintenance and repair work must be performed by an authorised service centre or a similarly qualified specialist if you cannot solve the problem yourself!

Problem	Possible cause	Solution
1. Product does not start	1.1 Not connected to power supply 1.2 Power cord or plug is defective 1.3 Other electrical defect to the product	1.1 Connect to power supply 1.2 Check by a specialist electrician 1.3 Check by a specialist electrician
2. Product does not reach full power	2.1 Extension cord not suitable for operation with this product 2.2 Power source (e. g. generator) has too low voltage 2.3 Air vents are blocked	2.1 Use a proper extension cord 2.2 Connect to another power source 2.3 Clean the air vents
3. Unsatisfactory result	3.1. Grinding / cutting wheel is dull/damaged 3.2. Grinding / cutting wheel not suitable for workpiece material	3.1. Replace with new one 3.2. Use proper grinding / cutting wheel
4. Excessive vibration /noise or exhaust	4.1. Grinding / cutting wheel is dull/damaged 4.2. Bolts/nuts are loose	4.1. Replace with a new one 4.2. Tighten bolts/nuts

Recycling and disposal

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

For further information visit www.recycle-more.co.uk.

The product comes in a package that protects it against damage during shipping. Keep the package until you are sure that all parts have been delivered and the product is working properly. Recycle the package afterwards.

Guarantee

We take special care to select high quality materials and use manufacturing techniques that allow us to create products incorporating design and durability.

This product (TITAN 750W Angle Grinder) has a manufacturer's guarantee of 2 years against manufacturing defects, from the date of purchase (if bought in store) or date of delivery (if bought online), at no additional cost.

To make a claim under this guarantee, you must present your proof of purchase (such as a sales receipt, purchase invoice or other evidence admissible under applicable law), please keep your proof of purchase in a safe place. For this guarantee to apply, the product you purchased must be new, it will not apply to second hand or display products. Unless stated otherwise by applicable law, any replacement product issued under this guarantee will only be guaranteed until expiry of the original guarantee period.

This guarantee covers product failures and malfunctions provided the product was used for the purpose for which it is intended and subject to installation, cleaning, care and maintenance in accordance with the information contained in these terms and conditions, in the user manual and standard practice, provided that standard practice does not conflict with the user manual.

This guarantee does not cover defects and damage caused by normal wear and tear or damage that could be the result of improper use, faulty installation or assembly, neglect, accident, misuse, or modification of the product. Unless stated otherwise by applicable law, this guarantee will not cover, in any case, ancillary costs (shipping, movement, costs of uninstalling and reinstalling, labour etc), or direct and indirect damage.

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

If the product is defective, we will, within a reasonable time, repair or replace it.

Rights under this guarantee are enforceable in the country in which you purchased this product. Guarantee related queries should be addressed to the store you purchased this product from.

The guarantee is in addition to and does not affect your statutory rights.

Declaration of conformity

CE

(EN) EU DECLARATION OF CONFORMITY
(FR) DÉCLARATION UE DE CONFORMITÉ
(PL) DEKLARACJA ZGODNOŚCI UE
(RO) DECLARAȚIA DE CONFORMITATE UE
(ES) DECLARACIÓN UE DE CONFORMIDAD
(PT) DECLARAÇÃO DE CONFORMIDADE UE

Product/ Produit/ Produkt/Produsul/Producto/Produto

Angle Grinder/Meuleuse d'angle/Szlifierka kątowa/Polizor unghiular/Amoladora Angular/Afiadora Angular
TTB878GRD
SN: 000001-999999

Name and address of the manufacturer or his authorised representative:
Nom et adresse du fabricant ou de son mandataire:
Nazwa i adres producenta lub jego upoważnionego przedstawiciela:
Denumirea și adresa producătorului sau a reprezentantului său autorizat:
Nombre y dirección del fabricante o de su representante autorizado:
Nome e endereço do fabricante ou do respetivo mandatário:

Kingfisher International Products B.V.,
Rapenburgerstraat 175E,
1011 VM Amsterdam,
The Netherlands

This declaration of conformity is issued under the sole responsibility of the manufacturer.
La présente déclaration de conformité est établie sous la seule responsabilité du fabricant.
Niniejsza deklaracja zgodności wydana zostaje na wyłączną odpowiedzialność producenta.
Prezenta declarație de conformitate este emisă pe răspunderea exclusivă a producătorului.
La presente declaración de conformidad se expide bajo la exclusiva responsabilidad del fabricante.
A presente declaração de conformidade é emitida sob a exclusiva responsabilidade do fabricante.

Object of the declaration/Objet de la declaration/Przedmiot deklaracji/Obiectul declarației/Objeto de la declaración/Objeto da declaração

Product/Produit/Produkt/Produsul/Producto/ Produto	Model/Modèle/Model/ Modelul/Modelo/Modelo	EAN
Angle Grinder Meuleuse d'angle Szlifierka kątowa Polizor unghiular Amoladora Angular Afiadora Angular	TTB878GRD	5059340251981

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:
L'objet de la déclaration décrit ci-dessus est conforme à la législation d'harmonisation de l'Union applicable:
Wymieniony powyżej przedmiot niniejszej deklaracji jest zgodny z odnośnymi wymaganiami unijnego prawodawstwa harmonizacyjnego:
Obiectul declarației descris mai sus este în conformitate cu legislația relevantă de armonizare a Uniunii:
El objeto de la declaración descrita anteriormente es conforme con la legislación de armonización pertinente de la Unión:
O objeto da declaração acima descrito está em conformidade com a legislação de harmonização da União aplicável:

2006/42/EC as amended Machinery Directive
2014/30/EU as amended Directive Electromagnetic compatibility
2011/65/EU as amended Directive Restriction of the use of certain hazardous substances in electrical and electronic equipment

Directive 2006/42/CE relative aux machines
2014/30 / UE telle que modifiée Directive Compatibilité électromagnétique

In more detail...

Directive 2011/65/UE relative à la limitation de l'utilisation de certaines substances dangereuses dans les équipements électriques et électroniques

2006/42/WE w zmienionej dyrektywie maszynowej
2014/30 / UE ze zmianami Dyrektywa Kompatybilność elektromagnetyczna
2011/65 / UE ze zmianami Dyrektywa Ograniczenie stosowania niektórych niebezpiecznych substancji w sprzęcie elektrycznym i elektronicznym

2006/42/CE, astfel a fost modificată Directiva privind echipamentele
2014/30/UE, astfel a fost modificată Directiva privind compatibilitatea electromagnetică
2011/65/UE, astfel a fost modificată Directiva privind limitarea utilizării anumitor substanțe periculoase în echipamentele electrice și electronice

Directiva sobre maquinaria modificada 2006/42/CE
2014/30/UE modificada Directiva Compatibilidad electromagnética
2011/65/UE modificada Directiva Restricción del uso de determinadas sustancias peligrosas en equipos eléctricos y electrónicos

2006/42/CE como diretiva de máquinas alteradas
2014/30/UE como alteração da compatibilidade eletromagnétic
2011/65/UE como restrição diretiva alterada da utilização de certas substâncias perigosas em equipamentos elétricos e eletrónicos

References to the relevant harmonised standards used or references to the other technical specifications in relation to which conformity is declared:
Références des normes harmonisées pertinentes appliquées, y compris la date de celles-ci, ou des autres specifications techniques, y compris la date de celles-ci, par rapport auxquelles la conformité est déclarée:
Odwołania do odnośnych norm zharmonizowanych, które zastosowano, wraz z datą normy, lub do innych specyfikacji technicznych, wraz z datą specyfikacji, w odniesieniu do których deklarowana jest zgodność:
Trimiteri la standardele armonizate relevante folosite, inclusiv data standardului, sau trimiteri la celelalte specificații tehnice, inclusiv data specificațiilor, în legătură cu care se declară conformitatea:
Referencias a las normas armonizadas pertinentes utilizadas, incluidas las fechas de las normas, o referencias a las otras especificaciones técnicas, incluidas las fechas de las especificaciones, respecto a las cuales se declara la conformidad:
Referências às normas harmonizadas aplicáveis utilizadas, incluindo a data da norma, ou às outras especificações técnicas, incluindo a data da especificação, em relação às quais é declarada a conformidade:

EN 55014-1:2017+A11:2020
EN 55014-2:2015
EN IEC 61000-3-2:2019
EN 61000-3-3:2013+A1:2019
EN 60745-1:2009+A11:2010
EN 60745-2-3:2011+A2:2013+A11:2014+A12:2014+A13:2015

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Kingfisher International Products B.V.,
Rapenburgerstraat 175E,
1011 VM Amsterdam,
The Netherlands

David Awe
Group Quality Director

On: **28/02/2022**

Declaration of conformity

(UK) DECLARATION OF CONFORMITY

Product

- Angle Grinder
- TTB878GRD
- Type / batch or serial number range 00000 to 999999

Name and address of the manufacturer or his authorised representative:

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

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

Object of the declaration

Product	Model	EAN
Angle Grinder	TTB878GRD	5059340251981

The object of the declaration described above is in conformity with the relevant legislation:

Supply of Machinery (Safety) Regulations 2008 as amended
Electromagnetic Compatibility Regulations 2016 as amended
The Restriction of the use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 as amended

References to the relevant designated standards used or references to the other technical specifications in relation to which conformity is declared:

EN 55014-1:2017+A11:2020
EN 55014-2:2015
EN IEC 61000-3-2:2019
EN 61000-3-3:2013+A1:2019
BS EN 55014-1:2017+A11:2020
BS EN 55014-2:2015
BS EN IEC 61000-3-2:2019
BS EN 61000-3-3:2013+A1:2019
EN 60745-1:2009+A11:2010
EN 60745-2-3:2011+A2:2013+A11:2014+A12:2014+A13:2015
BS EN 60745-1:2009+A11:2010
BS EN 60745-2-3:2011+A13:2015

Authorised signatory and technical file holder:
Kingfisher International Products Limited
3 Sheldon Square
London W2 6PX
United Kingdom

David Awe
Group Quality Director

On [28/02/2022]

In more detail...

TITAN

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The Netherlands
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EN	www.screwfix.com www.screwfix.ie	To view instruction manuals online, visit www.kingfisher.com/products
FR	www.bricodepot.fr	Pour consulter les manuels d'instructions en ligne, rendez-vous sur le site www.kingfisher.com/products
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