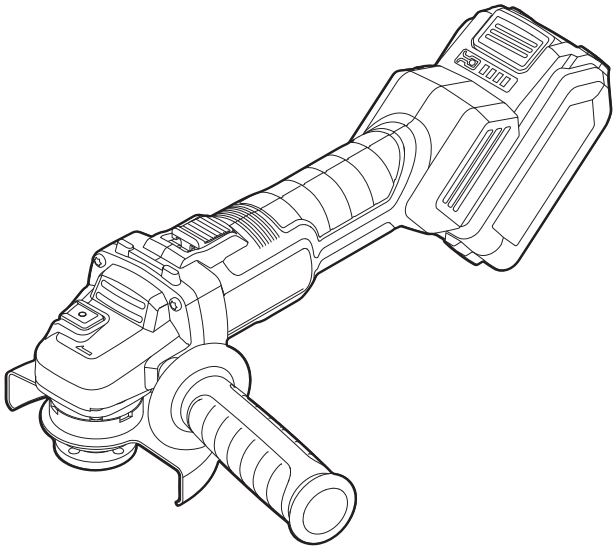
TITAN



TTI894GRD

WARNING! Read the instructions before using the product!

Original Instructions_MNL_TTI894GRD_(EN)_V01_211202

Let's get started...

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

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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.”

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 a dust mask, non- 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 and clothing away from moving parts.** *Loose clothes, jewellery or longhair 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.*

8. **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.*

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 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.*

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 and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tools operation. If damaged, have the power tool repaired before use.** *Many accidents are caused by poorly maintained power tools.*

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.*

8. **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.*

Battery Tool Use and Care

1. **Ensure the switch is in the off position before inserting battery pack.** *Inserting the battery pack into power tools that have the switch on invites accidents.*

2. **Recharge only with the charger specified by the manufacturer.** *A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.*

3. **Use power tools only with specifically designated battery packs.** *Use of any other battery packs may create a risk of injury and fire.*

4. **When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another.** *Shorting the battery terminals together may cause burns or a fire.*

5. **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help.** *Liquid ejected from the battery may cause irritation or burns.*

6. **Do not use battery pack or tool that is damaged or modified.** *Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.*

7. **Do not expose a battery pack or tool to fire or excessive temperature.** *Exposure to fire or temperature above 130 °C may cause explosion.*

8. **Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions.** *Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.*

Service

1. **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.*

2. **Never service damaged battery packs.** *Service of battery packs should only be performed by the manufacturer or authorized service providers*

Additional safety warnings for angle grinder

SAFETY WARNINGS COMMON FOR GRINDING OR ABRASIVE CUTTING-OFF OPERATIONS:

1. **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.*

2. **Operations such as grinding sanding, wire brushing, polishing or cutting-off 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.*

3. **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.*

4. **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.*

5. **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.*

6. **The arbour size of wheels, flanges, backing pads or any other accessory must properly fit the spindle 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.*

7. **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. 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.

8. **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 your operation. Prolonged exposure to high intensity noise may cause hearing loss.*

9. **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.*

10. **Hold power tool by insulated gripping surfaces only, when performing an operation where the cutting accessory may contact hidden wiring.** *Cutting accessory contacting a "live wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.*

11. **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.*

12. **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.*

13. **Do not run the power tool while carrying it at your side.** *Accidental contact with the spinning accessory could you're your clothing, pulling the accessory into your body.*

14. **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.*

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

16. **Do not use accessories that require liquid coolants.** *Using water or other liquid coolants may result in electrocution or shock.*

17. **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.*

KICKBACK AND RELATED WARNINGS

Kickback is a sudden reaction to a pinched or snagged rotating wheel, backing pad, brush or any other accessory. Pinching or snagging causes rapid stalling of the rotating accessory which in turn causes the

uncontrolled power tool to be forced in the direction opposite of the 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.

1. **Maintain a firm grip on the power tool and position your body and arm 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.*

2. **Never place your hand near the rotating accessory.** *Accessory may kickback over your hand.*

3. **Do not position your body in the area where power tool will move if kick- back occurs.** *Kickback will propel the tool in direction opposite to the wheel's movement at the point of snagging.*

4. **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.*

5. **Do not attach a saw chain woodcarving blade or toothed saw blade.** *Such blades create frequent kickback and loss of control.*

SAFETY WARNINGS SPECIFIC FOR GRINDING AND ABRASIVE CUTTING-OFF 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 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.*

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, 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 cut-off wheel. Abrasive cut-off 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 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.*

6. **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.*

ADDITIONAL SAFETY WARNINGS SPECIFIC FOR ABRASIVE CUTTING-OFF OPERATIONS:

1. **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.*

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 wheel is binding or when interrupting a cut for any reason, switch off the power tool and hold the power tool motionless until the wheel comes to a complete stop.** *Never attempt to remove the cut-off wheel from the cut while the wheel is in motion otherwise kickback may occur. Investigate and take corrective action to eliminate the cause of wheel binding.*

4. **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.*

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.*

Additional safety warnings for battery

1. *Do not connect the positive terminal and negative terminal of the battery to each other with any metal object (such as wire).*

2. *Do not carry or store battery together with necklaces, hairpins or other metal objects.*

3. *Do not pierce the battery with nails, strike the battery with a hammer, step on the battery or otherwise subject it to strong impacts or shocks.*

4. *Do not solder directly onto the battery.*

5. *Do not expose battery to water or salt water, or allow the battery to get wet.*

6. *Do not disassemble or modify the battery.*

7. *Do not place the battery in or near fire, on stoves or other high temperature locations. Do not place the battery in direct sunlight, or use or store the battery inside cars in hot weather.*

8. *Do not place the battery in microwave ovens, high-pressure containers or on induction cookware.*

9. *If you intend to store a battery for a period without use then store battery at room temperature (19°C to 25°C), charged to about 30 – 50% of capacity. When storing for very long periods boost charge the battery once per year to prevent over discharge.*

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

Silica is a natural mineral present in large amounts in things like sand, sandstone and granite. It is also commonly found in many construction materials such as concrete and mortar. The silica is broken into very fine dust (also known as Respirable Crystalline Silica or RCS) during many common tasks such as cutting, drilling and grinding. Breathing in very fine particles of crystalline silica can lead to the development of: Lung cancer Silicosis Chronic Obstructive Pulmonary Disorder/Chronic Obstructive Pulmonary Disease (COPD) and breathing in fine particles of wood dust can lead to the development of Asthma. The risk of lung disease is linked to people who regularly breathe construction dust over a period of time, not on the odd occasion.

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

it is tiny – like a small pinch of salt: This limit is the legal maximum; the most you can breathe after the right controls have been used.

How to reduce the amount of dust?

1. Reduce the amount of cutting by using the best sizes of building products. Use a less powerful tool e.g. a block cutter instead of angle grinder.

2. Using a different method of work altogether – e.g. using a nail gun to direct fasten cable trays instead of drilling holes first.

3. 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

Safety warnings

WARNING! Some dust created by power sanding, sawing, grinding, drilling and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paint
- 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 protective 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 use with the current guidance on vibration.

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

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.

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.

NOTE: The use of other tools will reduce the users' total working period on this tool.

Health surveillance

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

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:

1. *Injuries and damage to property due to broken attachments or the sudden impact of hidden objects during use.*

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

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.

Read the instruction manual

Wear eye protection

Wear hearing protection.

Wear a dust mask.

Wear protective gloves.

Do not dispose of battery packs in rivers or immerse in water.

Do not dispose of battery packs in fire. They will explode and cause injury.

Do not expose battery packs to heat in excess of 45°C

yyWxx

Manufacturing date code: Year of manufacturing (20yy) and week of manufacturing (Wxx)

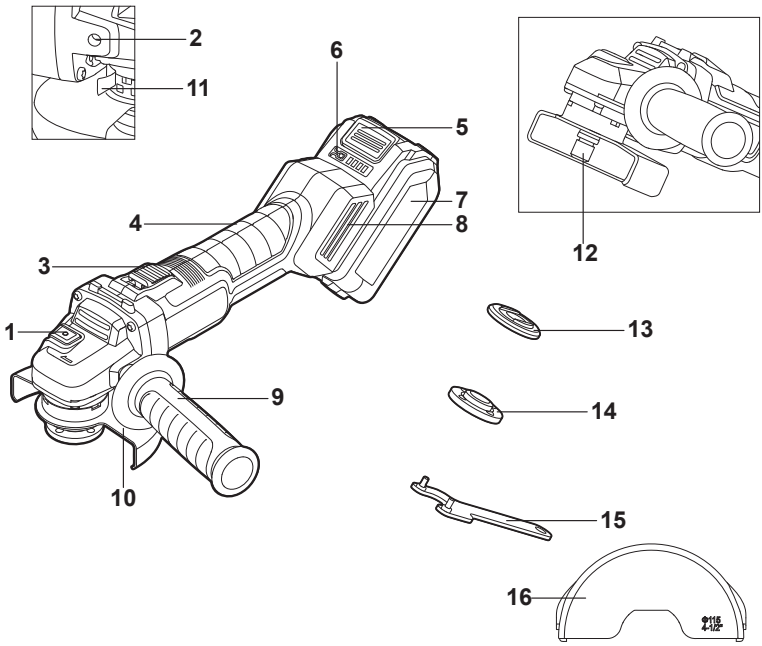
CE

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

UKCA

UK Conformity Assessed

Your product



1. Spindle lock button
2. Mounting threads (×2)
3. On/off switch
4. Gripping surface
5. Battery release button
6. Power bar button
7. Battery pack *
8. Air Vents (×2)
9. Auxiliary handle
10. Grinding safety guard
11. Guard clamping lever
12. Spindle
13. Inner flange
14. Outer flange
15. Spanner
16. Cutting safety guard

NOTE: * This may not be included in the supply scope.

Technical specifications

Angle grinder	
Rated voltage:	18V d.c.
Rated speed n:	8500 /min
Spindle thread:	M14
Maximum wheel diameter	Ø115mm(4 1/2”)
Maximum thickness of grinding wheel:	6mm
Wheel bore:	Ø22.23mm
Weight (without battery):	1.6 kg
Battery (may not be included)	
Battery pack model:	TTI803BAT
Battery voltage:	18V d.c.
Battery capacity:	5 Ah
Battery cell:	Li-Ion, 10pcs
Weight:	0.6 kg

Ambient temperature range for tool and battery use: -10℃ to 40℃

For use with battery pack and charger as below:	
Battery pack model:	TTI801BAT/TTI802BAT/ TTI803BAT
Charger model:	TTB804CHR/TTB805CHR
NOISE DATA	
A weighted sound pressure:	L_{pA}=77.83 dB(A)
A weighted sound power:	L_{wA}=88.83 dB(A)
Uncertainty:	K_{PA} & K_{WA}=3 dB(A)

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

VIBRATION DATA	
Surface grinding	$a_{h,AG}$= 4,002 m/s²
Uncertainty:	K= 1.5 m/s²

The declared vibration total values and the declared noise emission values have been measured in accordance with a standard test method (EN60745-1/EN60745-2-3) and may be used for comparing one tool with another; they 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

TTI894GRD = MODEL NUMBER
TT = TITAN
I=18V Li-Ion
894 =Serial number
GRD = ANGLE GRINDER

Unpack

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

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

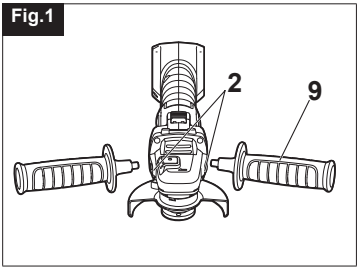
You will need

(items not supplied)	(items supplied)
Suitable personal protective equipment	Auxiliary handle Spanner
Suitable grinding wheel or cutting wheel	2-in-1 guards (cutting and grinding)

Auxiliary handle

For all work with the machine, the auxiliary handle (9) must be mounted. Screw the auxiliary handle (9) in one of the two mounting threads on both sides of the machine head depending on the working method (Fig. 1).

Fig.1



Adjusting the safety guard

The grinding safety guard is installed on the angle grinder when shipped.

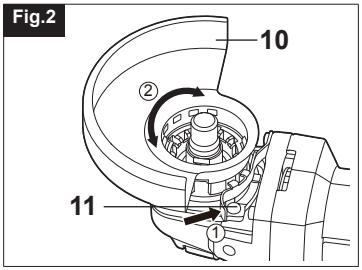
For work with grinding or cutting wheels, the safety guard must be mounted.

To adjust the grinding safety guard, press and hold the guard clamping lever (11).

Rotate the grinding safety guard to a suitable working angle and make sure the two hooks on the clamping lever engage into the slots which are on the grinding safety guard (Fig. 2).

If the hooks don’t engage in the slot, release the clamping lever (11) and turn the guard slightly until it can clearly be heard to “click” to indicate that it is engaged.

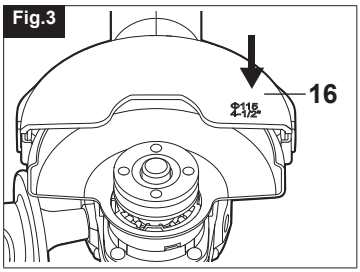
The closed side of the safety guard (10) must always point to the operator.



Wheel guard for cutting

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

For cutting-off application, position the front cover with the closed side on the grinding guard and push it on until it engages (Fig. 3).



Mounting the grinding/cutting wheels (sold separately)

Before any work on the machine itself, remove the battery pack.

Grinding and cutting wheels become very hot while working; do not touch until they have cooled.

Spindle lock button

Clean the grinder spindle and all parts to be mounted. For clamping and loosening the wheels, lock the grinder spindle (12) with the spindle lock button (1).

WARNING! Depress the spindle lock button (1) only when the grinder spindle is at a standstill!

Adjustable outer flange clamping

The outer flange (14) should be adjusted to suit different wheel thickness. For thinner cutting or diamond discs, the raised part of the outer flange is fitted facing away from the disc (Fig.4a). For thicker grinding wheels, the raised part of the outer flange is fitted facing towards the wheel to provide improved support for the wheel hole (Fig.4b). Always ensure your wheel is securely clamped.

Fig.4a

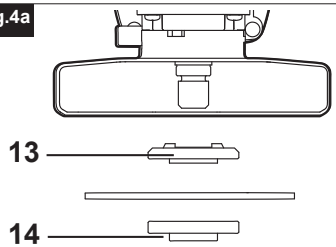
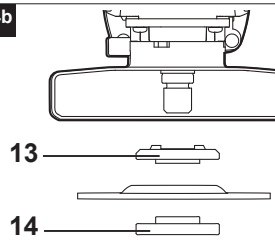


Fig.4b



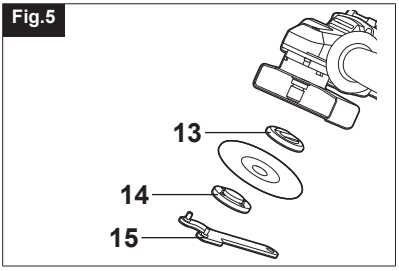
Grinding/cutting wheel (sold separately)

Pay attention to the dimensions of the grinding/cutting wheel. The mounting hole diameter must fit the inner flange (13) without play. Do not use reducers or adapters .

When using a diamond cutting disc, take care that the direction-of-rotation arrow on the diamond cutting disc and the direction of rotation of the machine (direction-of rotation arrow on the machine head) agree.

Screw on the outer flange (14) and tighten with the spanner (15).

Fig.5



Battery pack

To charge the battery pack

The battery has been shipped in a low charge condition. Charge it fully before first use.

Refer to the charger instruction manual for the details.

To remove or install the battery pack

Depress the battery pack release button to release and slide the battery pack out from your tool (Fig. 6).

After recharge, slide it back into your tool. A simple push and slight pressure will be sufficient. (Fig. 7).

Fig.6

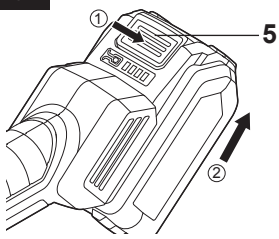
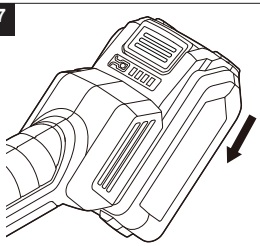
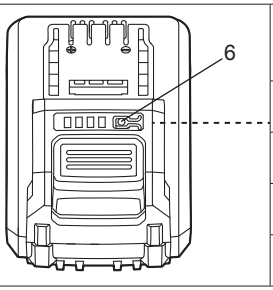


Fig.7



Battery pack power bar

The Li-Ion battery pack (7) is equipped with a POWER BAR which is used to give an indication of the battery pack's remaining charge. Press the POWER BAR button (6) to check battery charge as below. The LED will stay lit for approximately 10 seconds.



	76-100%
	51-75%
	26-50%
	<25%

WARNING! To prevent accidental starting that could cause serious personal injury, always remove the battery pack(s) from the product when assembling parts or making any adjustments.

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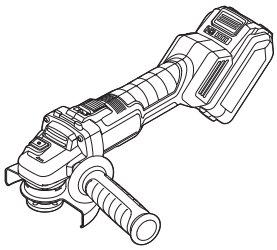


Intended use

This tool is intended for cutting and grinding metal and stone materials without using water. For grinding or cutting, safety guard must be used.

Operating instructions

- Clamp the workpiece if it does not remain stationary due to its own weight.
- Do not strain the machine so heavily that it comes to a standstill.
- Grinding and cutting wheels become very hot while working; do not touch until they have cooled.

WARNING! For all grinding and cutting operations, ensure that the correct PPE is worn.

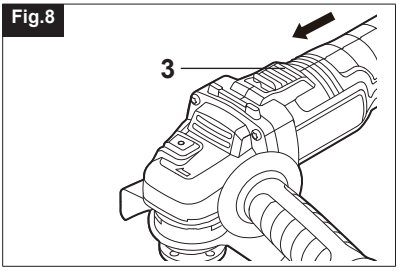
On/off switch

To start the power tool, press the rear of the on/off switch (3) and push forwards (Fig. 8).

To lock the on/off switch, press the on/off switch down at the front until it engages.

To switch off the power tool, release the on/off switch or, if it is locked, briefly push down the back of the on/off switch and then release it.

Fig.8



Hand grip areas

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

Working hints for your angle grinder

If your power tool becomes too hot, run no load for 2-3 minutes to cool the motor. Never start your angle grinder with the disc/ accessory in contact with the workpiece. Always start at no load to achieve maximum speed then start working.

Do not force the disc to work faster, reducing the disc's moving speed means longer working time.

When grinding, always work with a 15°to 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.

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.

When cutting very hard material best results can be achieved with a diamond disc. 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 cooling at no load speed for 2-3 minutes.

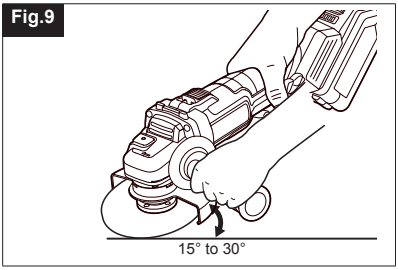
Always ensure the workpiece is firmly held or clamped to prevent movement.

Grinding

The best grinding results are achieved when setting the machine at an angle of 15°to 30°. Move the machine back and forth with moderate pressure. In this manner, the workpiece will not become too hot, discolor and no grooves are formed (Fig. 9).

WARNING! Never use a cutting wheel for grinding.

Fig.9



Cutting

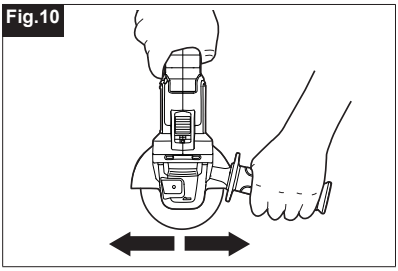
When cutting, do not press, tilt or oscillate the machine. Work with moderate feed, adapted to the material being cut.

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 machine must always work in an up-grinding motion. Therefore, never move the machine in the other direction! (Fig. 10)

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

Fig.10



The golden rules for cleaning

WARNING! Always switch the product off, remove the battery pack and let the product cool down before performing inspection, maintenance and cleaning work!

1. Keep the product clean. Remove debris and dust 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

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

- Clean the product with a dry cloth. Use a brush for areas that are hard to reach.
- In particular, clean the air vents after every use with a cloth and brush.
- Remove stubborn dirt with high pressure air (max. 3 bar).
- 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.

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 retailer for recycling advice.
For further information visit www.recycle-more.co.uk

Disposal of an exhausted battery pack

To preserve natural resources, please recycle or dispose of the battery pack properly. This battery pack contains Li-Ion batteries. Consult your local waste authority for information regarding available recycling and/or disposal options. Discharge your battery pack by operating your tool, then remove the battery pack from the tool housing and cover the battery pack connections with heavy-duty adhesive tape to prevent short circuit and energy discharge. Do not attempt to open or remove any of the components.

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

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

Transportation

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

Trouble shooting

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 authorized service centre or a similarly qualified specialist if you cannot solve the problem yourself!

Problem	Tool/ Battery Status	Possible cause	Solution
Product suddenly Stops.	Overload protection	Extremely high torque, binding and stalling situations, overloading of the tool	Relieve the load immediately, reset the tool by switching off and back on again.
Product suddenly Stops.	Temperature extremely high	Over-temperature	Cool down the tool for operation and restart.
Power for the tool will drop quickly.	Low charge	The battery pack is under 5% charge	Remove the battery pack from the tool and charge it

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 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.

EC declaration of conformity

UK CA

(UK) DECLARATION OF CONFORMITY

Product		
• Cordless Angle Grinder • TTI894GRD • Serial number 00001-99999		
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
Cordless Angle Grinder	TTI894GRD	5059340253824 (UK) 5059340355665 (UK)
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:		
BS EN 60745-1:2009+A11 BS EN 60745-2-3:2011+A13 BS EN 55014-1:2017+A11 BS EN 55014-2:2015 BS EN55014-2:1997+A2		
Authorized Signatory and technical file holder Kingfisher International Products Limited 3 Sheldon Square London W2 6PX United Kingdom David Awe Group Quality Director on: 31/12/2021		

In more detail...

In more detail...

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

• Cordless Angle Grinder/Meuleuse d'angle sans fil/Szlifierka kątowa bezprzewodowa/Polizor unghiular fără fir/Amoladora angular inalámbrica/ Rebarbadora de ângulo sem fios
• TTI894GRD
• Serial number 00001-99999

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 déclaration/ Przedmiot deklaracji/ Obiectul declarației/ Objeto de la declaración/ Objeto da declaração

Product/ Produit/ Produkt/ Produsul/ Producto/ Produto	Model/ Modèle/ Model/ Modelul/ Modelo/ Modelo	EAN
Cordless Angle Grinder/ Meuleuse d'angle sans fil/Szlifierka kątowa bezprzewodowa/Polizor unghiular fără fir/Amoladora angular inalámbrica/ Rebarbadora de ângulo sem fios	TTI894GRD	5059340253824 (UK) 5059340355665 (UK) 5059340253831 (EU) 5059340287171 (EU)

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 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

In more detail...

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 caractéristiques 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 specificaţii tehnice, inclusiv data specificaţiilor, 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 60745-1:2009+A11:2010 EN 60745-2-3: 2011 +A2:2013 +A11:2014+ A12:2014+A13:2015 EN 55014-1:2017+A11:2020 EN 55014-2:2015
Authorized Signatory and technical file holder/ Signataire et responsable de la documentation technique autorisé/ Podmiot uprawniony do wystawienia i adres przechowywania dokumentacji technicznej/ Semnatar autorizat şi deţinătorul dosarului ethnic/ Firmante autorizado y titular del expediente técnico/Signatário autorizado e detentor da ficha técnica: Kingfisher International Products B.V., Rapenburgerstraat 175E, 1011 VM Amsterdam, The Netherlands   David Awe Group Quality Director 31/12/2021

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