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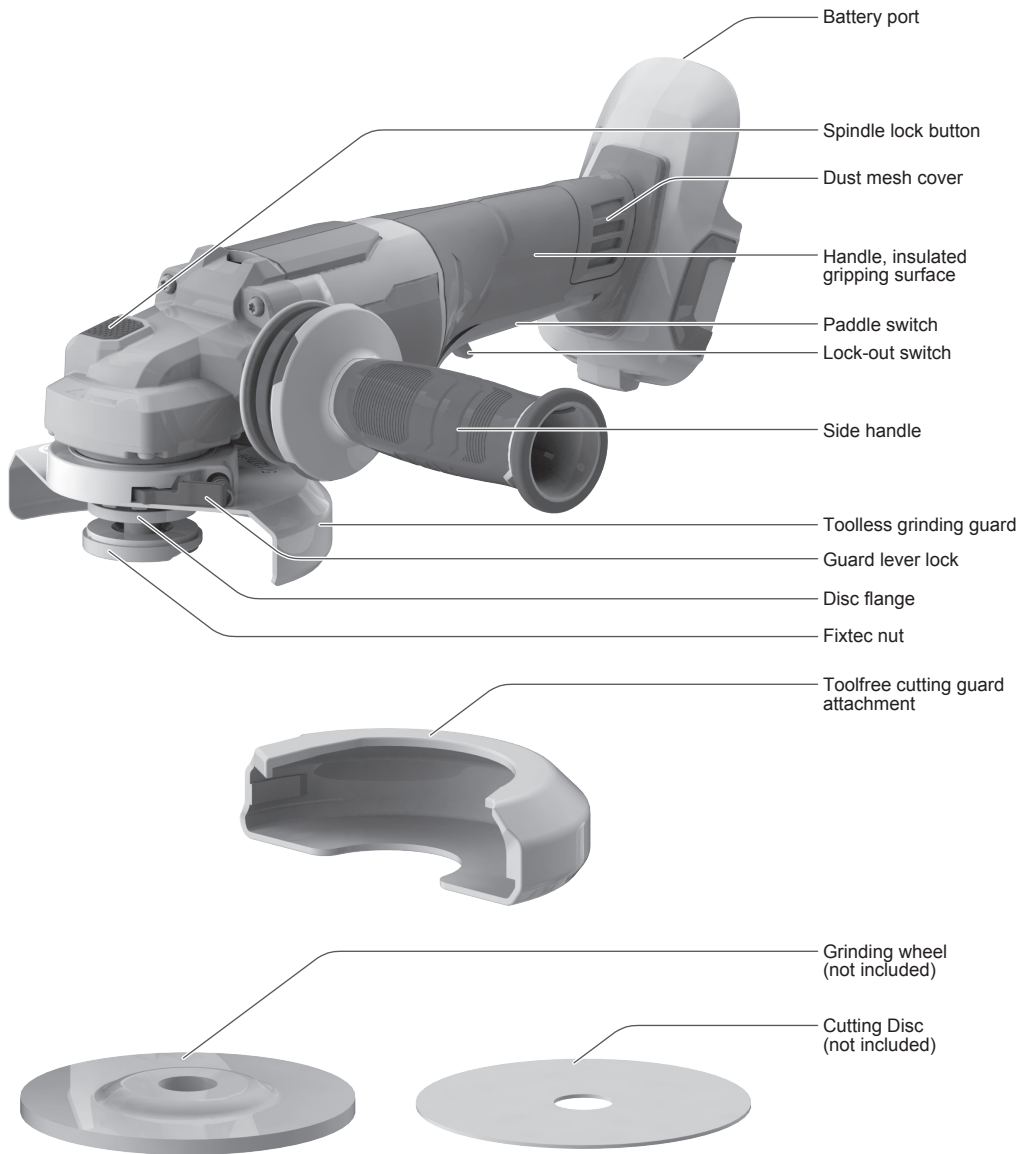
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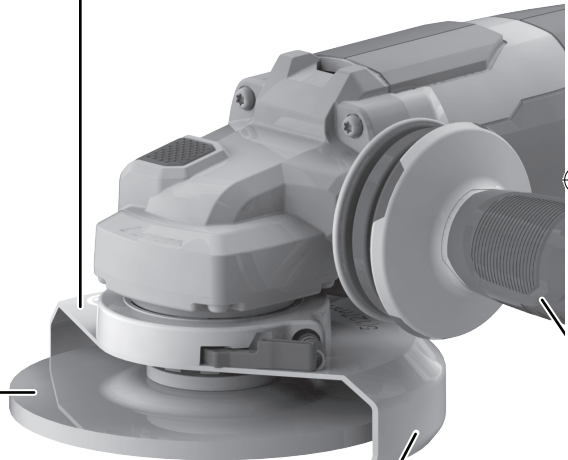
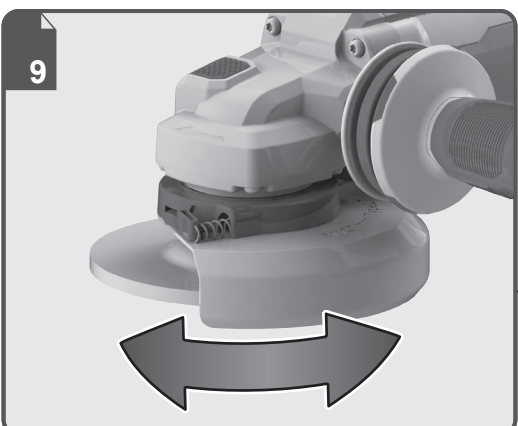
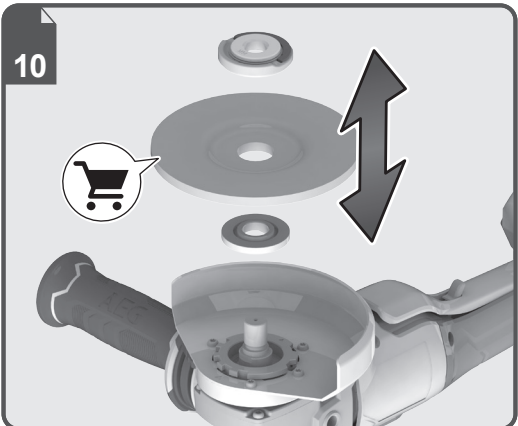
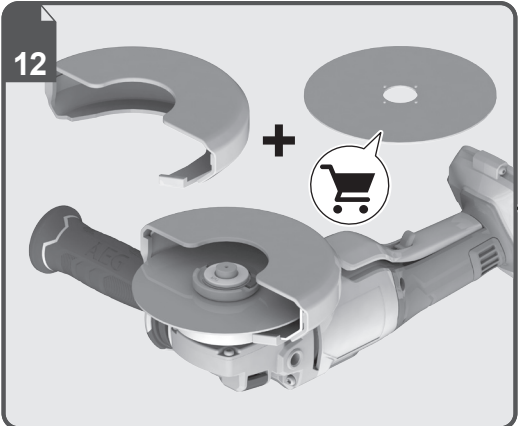
Original instructions

Important!

It is essential that you read the instructions in this manual before assembling, operating and maintaining the product.

Subject to technical modifications.

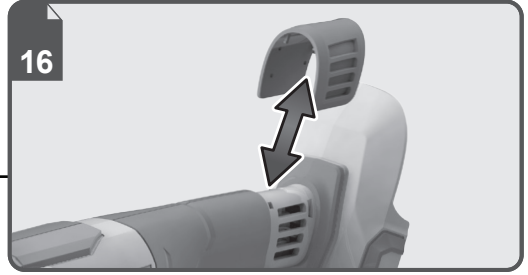




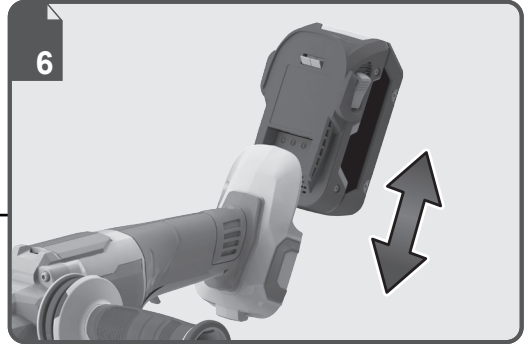
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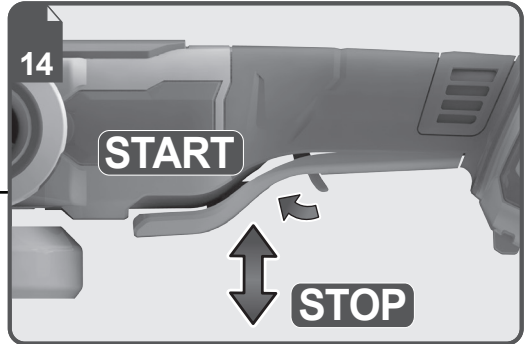
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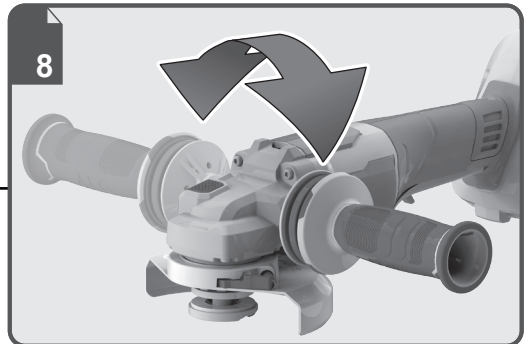
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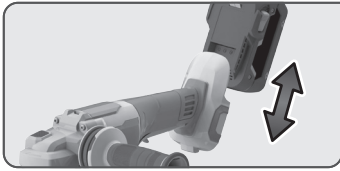


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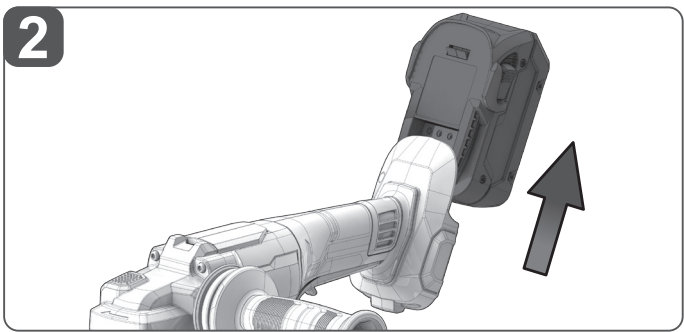
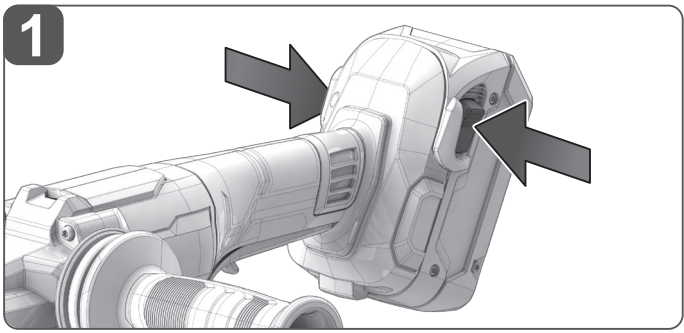
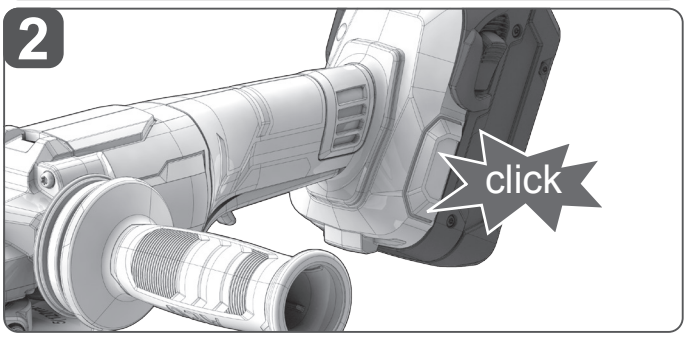
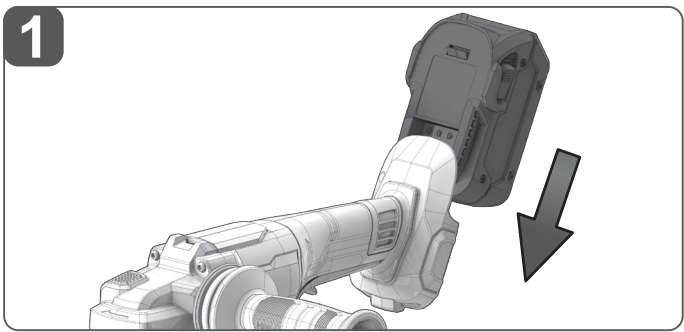


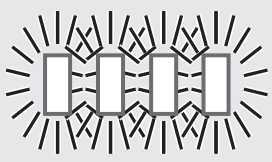
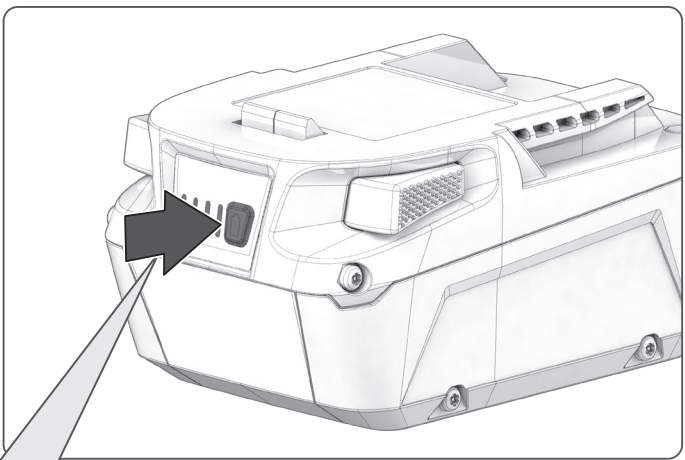
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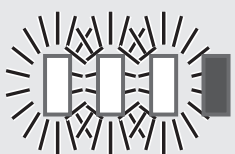


Remove the battery pack before starting any work on the product.

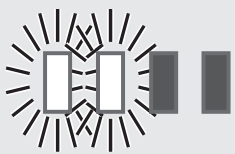




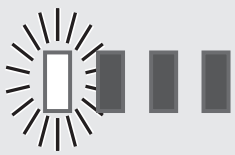
75-100 %



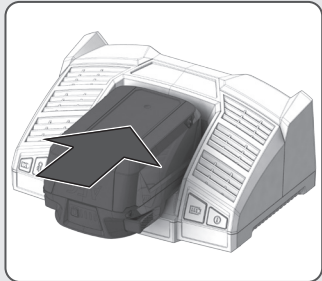
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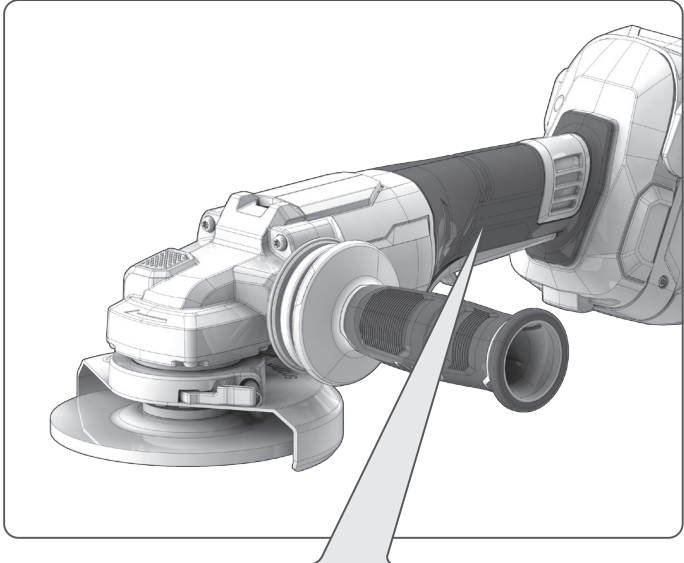
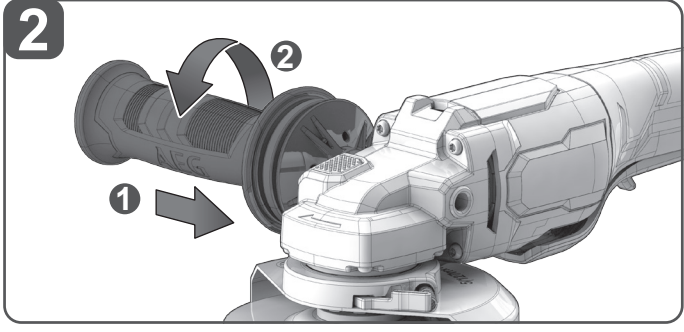
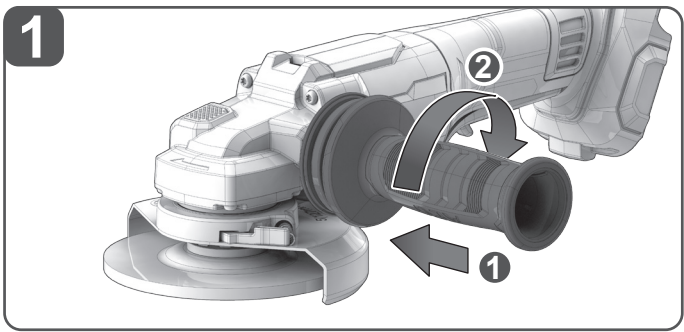
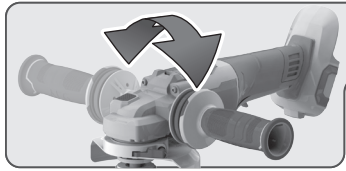


25-50 %



0-25 %



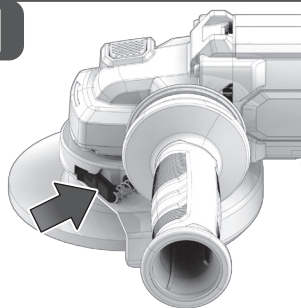


Handle (insulated gripping surface)



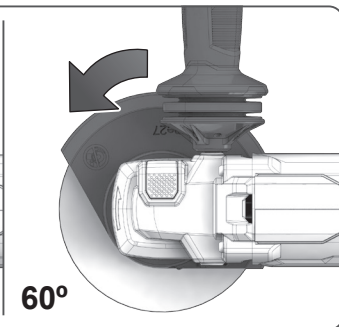
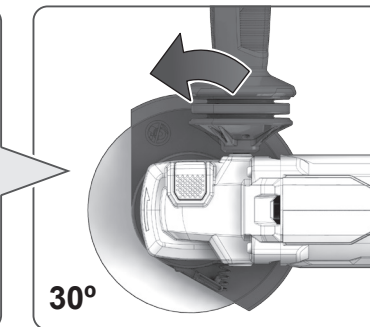
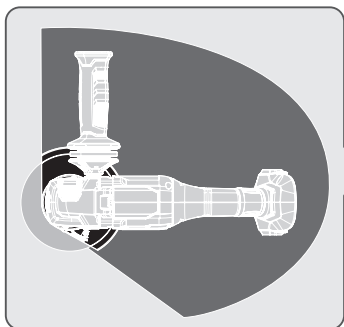
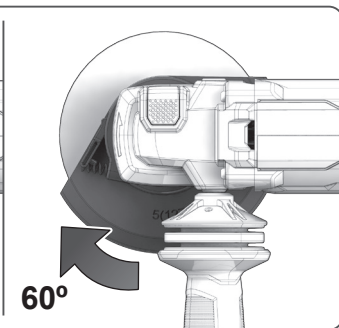
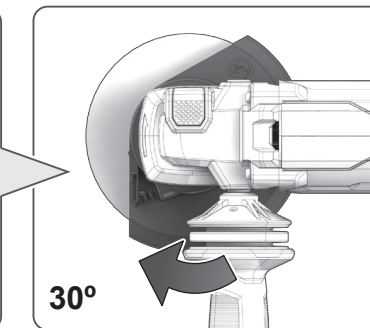
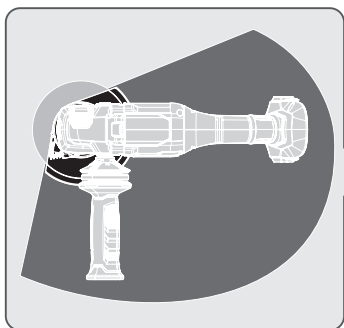
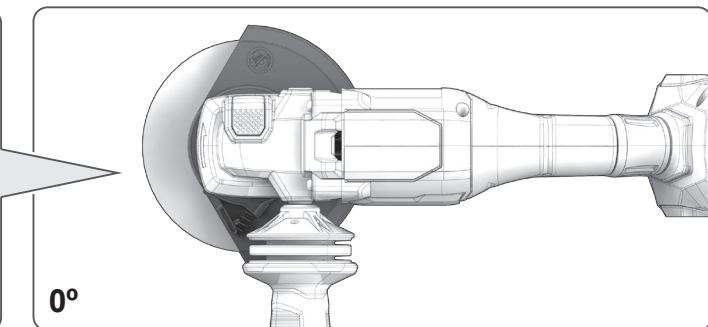
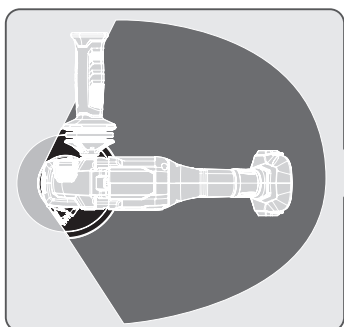
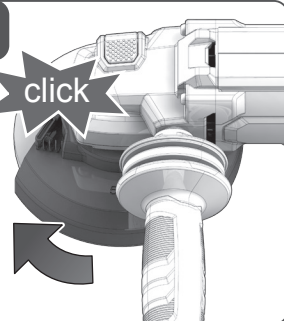


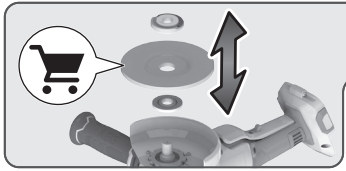
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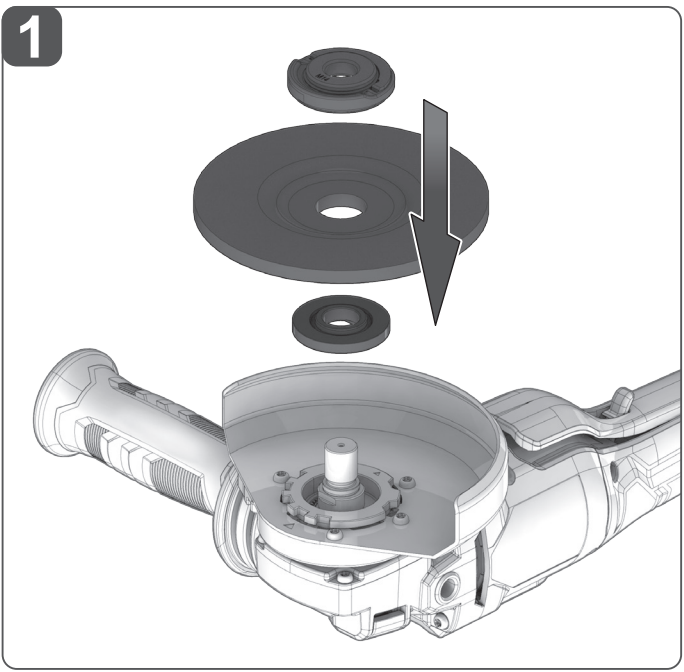
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click

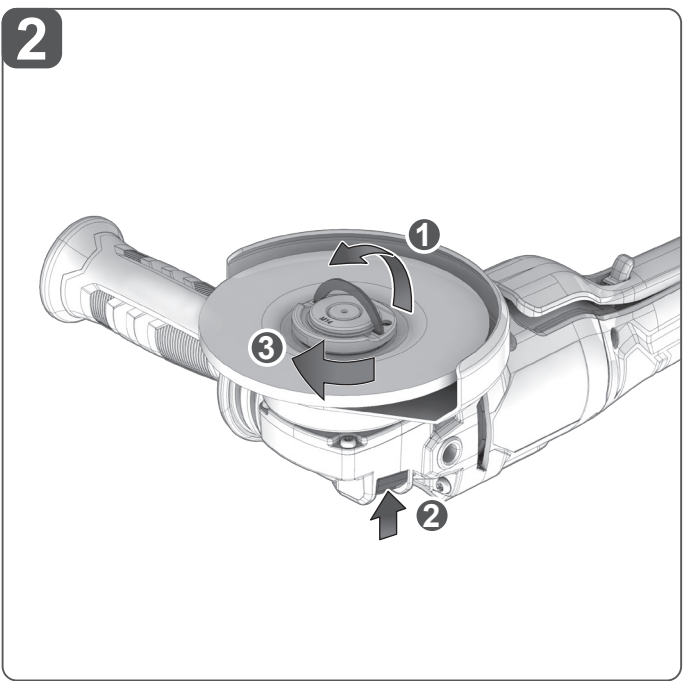




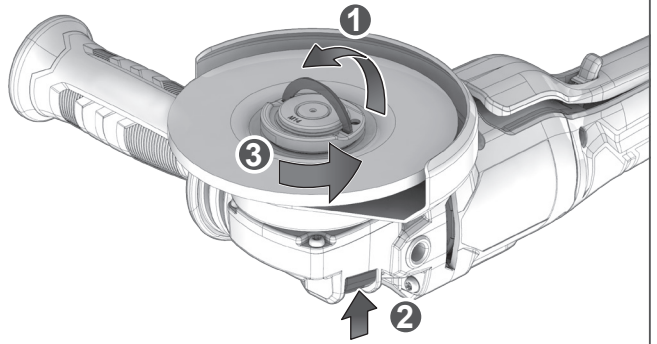
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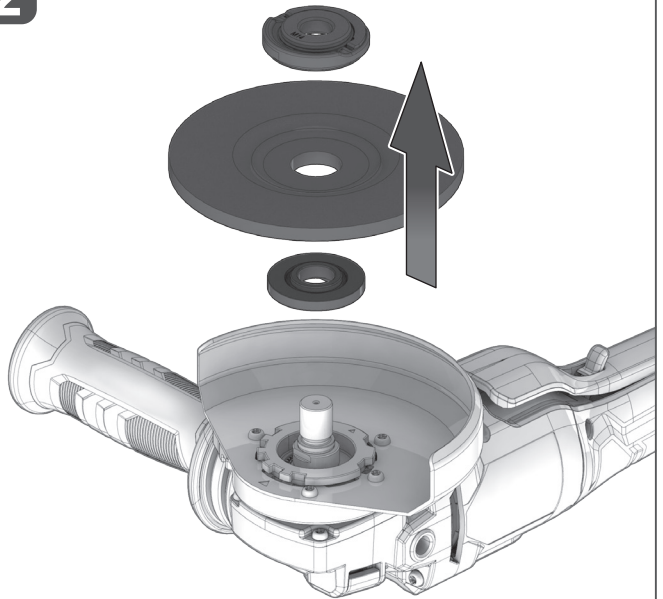
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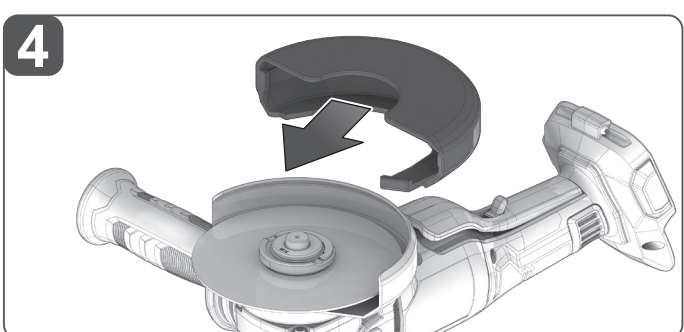
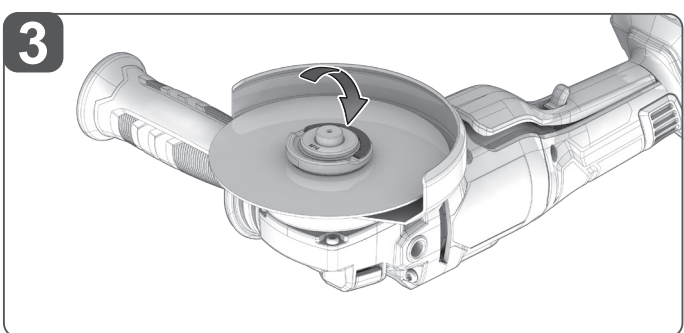
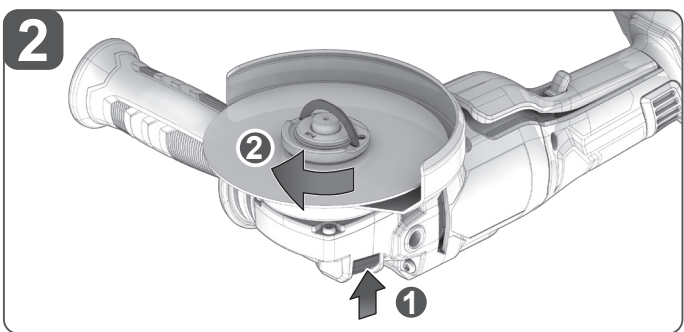
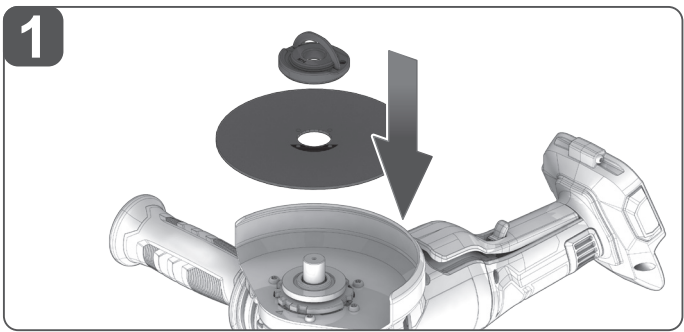
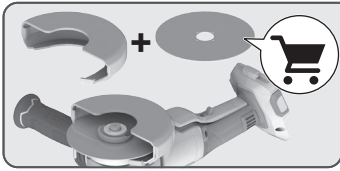


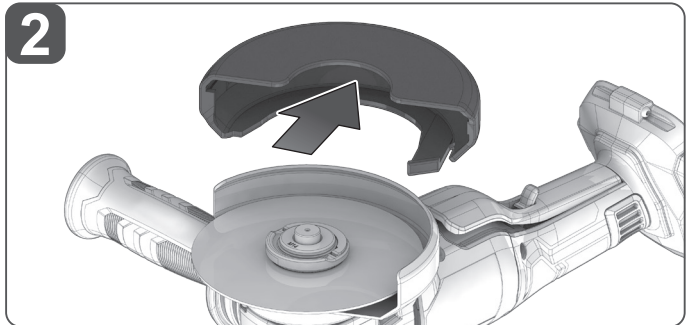
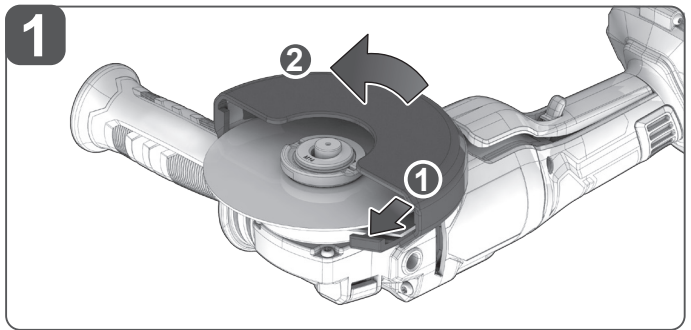
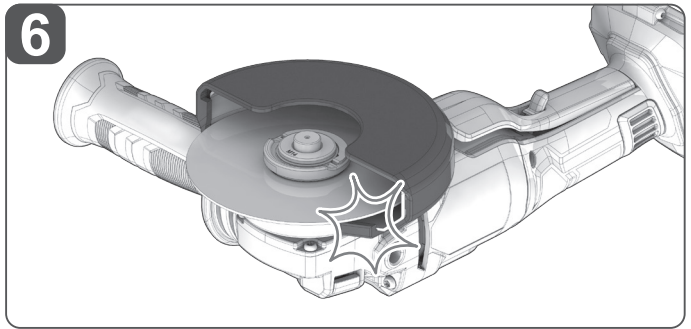
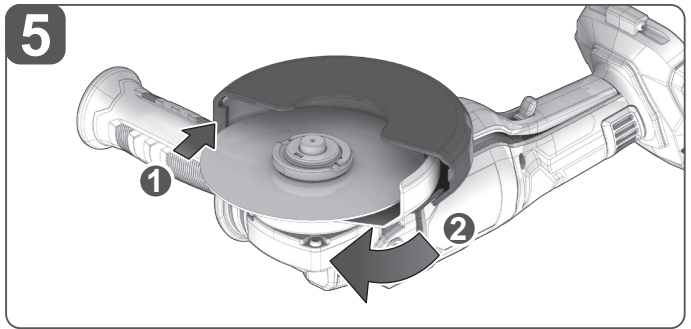
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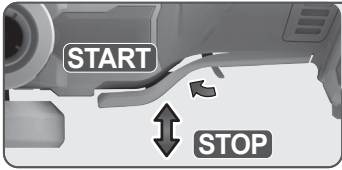


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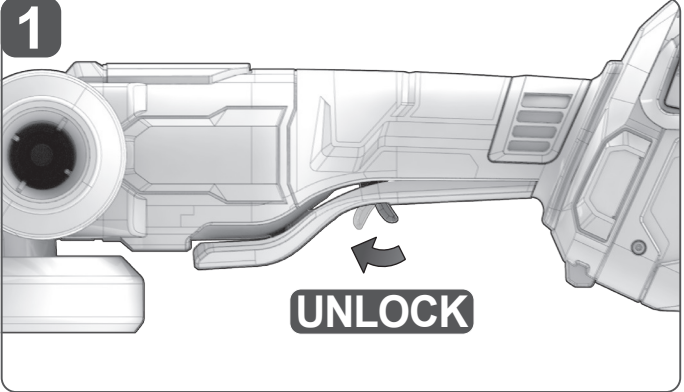




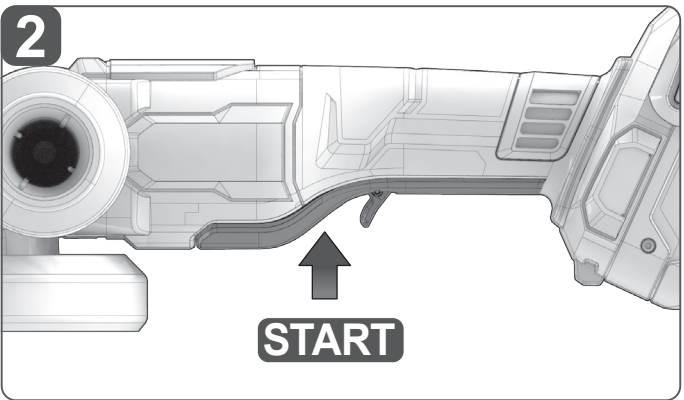




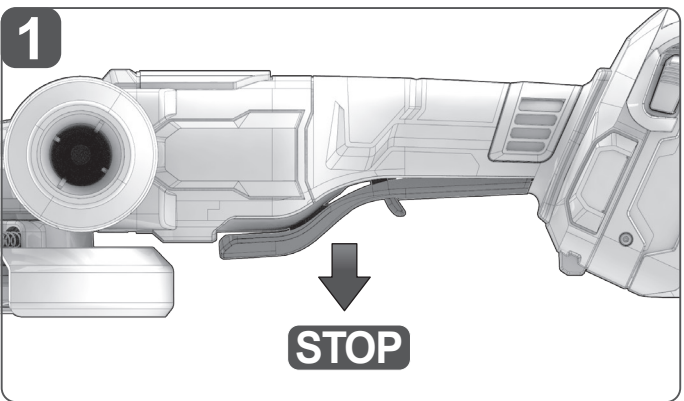
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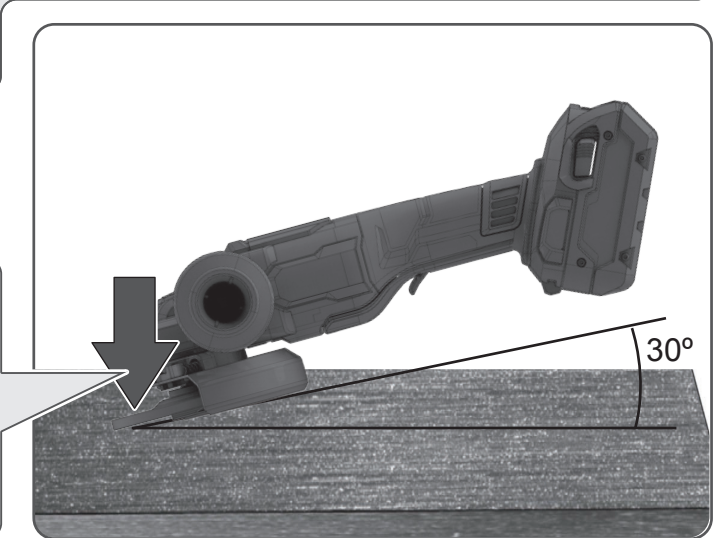


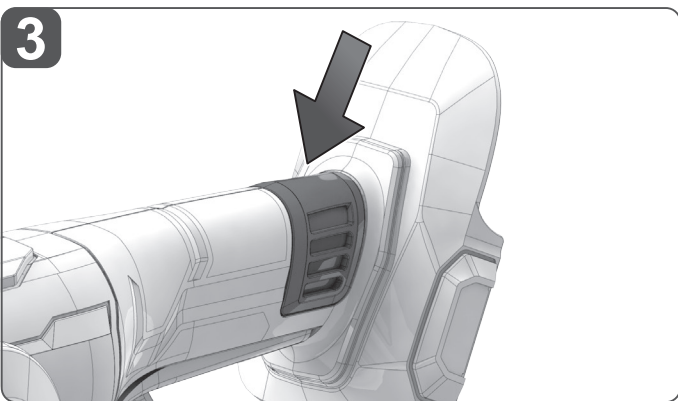
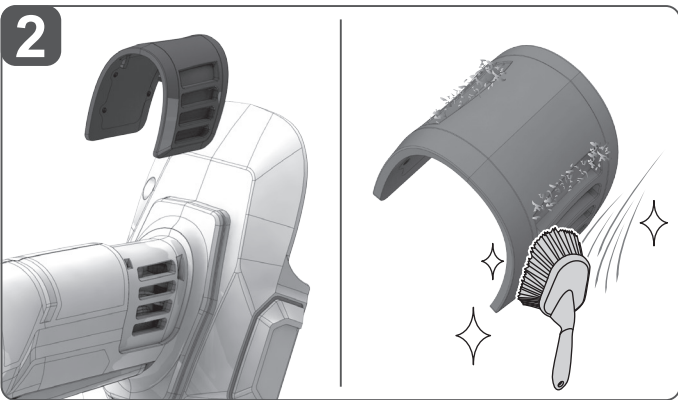
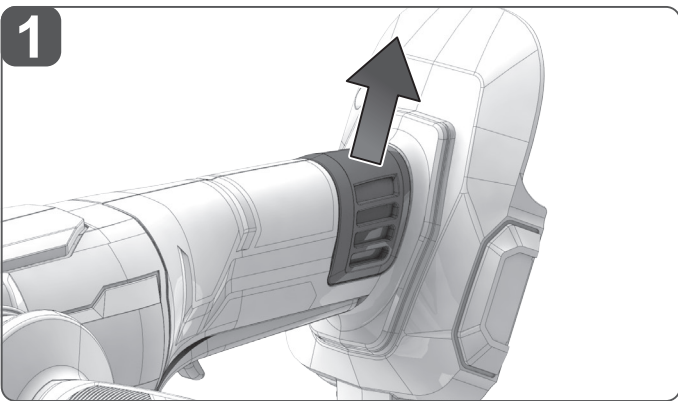
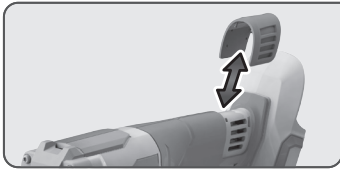
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TECHNICAL DATA

A18FSAG1250

Type	Angle grinder	
Rated voltage	18 V ==	
Rated speed	9000 min ⁻¹	
Spindle thread	M14	
Grinding wheel	Type 27	
Grinding wheel capacity	125 mm	
Thickness of grinding wheel	6 mm	
Inner diameter of wheel	22.2 mm	
Cutting wheel	Type 41	
Cutting disc capacity	125 mm	
Thickness of cutting disc	2.5 mm	
Weight - excluding battery pack	2.0 kg	
Measured sound values determined according to EN 62841.		
A-weighted sound pressure level	$L_{pA} = 90.0$ dB(A)	
Uncertainty K	3 dB(A)	
A-weighted sound power level	$L_{WA} = 98.0$ dB(A)	
Uncertainty K	3 dB(A)	
Wear ear protectors.		
The vibration total values (triaxial vector sum) determined according to EN 62841:		
Surface grinding	Main handle	Auxiliary handle
	$a_h = 5.6$ m/s ²	$a_h = 5.3$ m/s ²
Uncertainty K	1.5 m/s ²	1.5 m/s ²
Cutting-off	Main handle	Auxiliary handle
	$a_h = 5.4$ m/s ²	$a_h = 3.1$ m/s ²
Uncertainty K	1.5 m/s ²	1.5 m/s ²

⚠ WARNING!

The declared vibration total values and the declared noise emission values given in this instruction manual have been measured in accordance with a standardised test and may be used to compare one tool with another. They may be used for a preliminary assessment of exposure.

The declared vibration and noise emission values represent the main applications of the tool. However, if the tool is used for different applications, used with different accessories, or poorly maintained, the vibration and noise emission may differ. These conditions may significantly increase the exposure levels over the total working period.

An estimation of the level of exposure to vibration and noise should take into account the times when the tool is turned off or when it is running idle. These conditions may significantly reduce the exposure level over the total working period.

Identify additional safety measures to protect the operator from the effects of vibration and noise, such as maintaining the tool and the accessories, keeping the hands warm (in case of vibration), and organising work patterns.

COMPATIBLE BATTERY PACKS (NOT INCLUDED)

L1820R	A18B4	L1860R
L1820S	L1840R	L1860R-X5
A18FB2	A18FB4	L1890R
L1825R	L1850R	
L1830R-X5	A18FB5	

Use AEG 18V battery and charger only

⚠ **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.**

ANGLE GRINDER SAFETY WARNINGS

Safety warnings common for grinding, or cutting-off

operations:

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.

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.

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.

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.

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.

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.

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.

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.

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 applications. The dust mask or respirator must be capable of filtering particles generated by the particular application. Prolonged exposure to high intensity noise may cause hearing loss.

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.

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

Never lay the power tool down until the accessory has come to a complete stop. The spinning accessory may grab the surface and pull the power tool out of your control.

Do not run the power tool while carrying it at your side.

Accidental contact with the spinning accessory could snag your clothing, pulling the accessory into your body.

Regularly clean the power tool's air vents. The motor's fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.

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

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

When working in walls ceiling, or floor, take care to avoid electric cables and gas or waterpipes.

The dust produced when using this product may be harmful to health. Do not inhale the dust. Use a dust absorption system and wear a suitable dust protection mask. Remove deposited dust thoroughly, e.g. with a vacuum cleaner.

Remove the battery pack before starting any work on the machine. Always disconnect the plug from the socket before carrying out any work on the machine.

Dust from certain paints, coatings, and materials may cause irritation or allergic reactions. Dust from wood such as oak, beech, MDF, and others are carcinogenic. Only qualified specialists should be allowed to use the product on materials containing asbestos.

Do not use compressed air to blow dust or debris. This practice is dangerous and can cause dirt and grit to be blasted into someone's eyes, causing serious injury.

Ambient temperature range for product during operation is between 0°C and 40°C.

Ambient temperature range for product storage is between 0°C and 40°C.

The recommended ambient temperature range for the charging system during charging is between 10°C and 38°C.

ADDITIONAL SAFETY AND WORKING INSTRUCTIONS

Use protective equipment. Always wear safety glasses when working with the product. The use of protective clothing is recommended, such as dust mask, protective gloves, sturdy non-slip footwear, helmet and ear defenders.

The dust produced when using this product may be harmful to health. Do not inhale the dust. Wear a suitable dust protection mask.

Do not machine any materials that present a danger to health (e.g. asbestos).

The product is not waterproof. Do not submerge in liquid. Failure to heed this warning could result in serious personal injury.

Switch the product off immediately if the accessory stalls! Do not switch the device on again while the accessory is stalled, as doing so could trigger a sudden recoil with a high reactive force. Determine why the accessory stalled and rectify this, paying heed to the safety instructions.

The possible causes may be:

- it is tilted in the workpiece to be machined
- it has pierced through the material to be machined
- the power product is overloaded

Do not reach into the product while it is running. The accessory may become hot during use.

⚠ WARNING! Danger of burns

- when changing products
- when setting the device down

Chips and splinters must not be removed while the product is running.

When working in walls ceiling, or floor, take care to avoid electric cables and gas or waterpipes.

Clamp your workpiece with a clamping device. Unclamped workpieces can cause severe injury and damage.

When using a cut-off wheel guard for facial grinding, the wheel guard may interfere with the workpiece causing poor control.

When using a grinding wheel guard for cutting-off operations with bonded abrasive wheels, there is an increased risk of exposure to emitted sparks and particles, as well as exposure to wheel fragments in the event of wheel burst.

When using a cut-off, grinding, or combination wheel guard for cutting-off and facial operations in concrete or masonry, there is an increased risk of exposure to dust and loss of control resulting in kickback.

Remove the battery pack before starting any work on the product.

Remove battery pack before storing or transporting the product.

Do not dispose of used battery packs in the household refuse or by burning them. Take them to an appropriate disposal/collection site.

Do not store the battery pack together with metal objects (short circuit risk).

Use only System AEG chargers for charging System AEG battery packs. Do not use battery packs from other systems.

Never break open battery packs and chargers and store only in dry rooms. Keep dry at all times.

Battery acid may leak from damaged batteries under extreme load or extreme temperatures. In case of contact with battery acid wash it off immediately with soap and water. In case of eye contact rinse thoroughly for at least 10 minutes and immediately seek medical attention.

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 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 the 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.

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

Safety warnings specific for grinding and cutting-off operations

- **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.
- **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.
- **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.
- **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.
- **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.
- **Do not use worn down wheels from larger power tools.** A wheel intended for larger power tool is not suitable for the higher speed of a smaller tool and may burst.
- **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

- **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.
- **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.
- **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.

- **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.
- **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.
- **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.
- **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.

RESIDUAL RISKS

Even when the product is used as prescribed, it is still impossible to completely eliminate certain residual risk factors. The following hazards may arise and the operator should pay special attention to avoid the following:

- Injury caused by dust and debris
 - While using the product, considerable dust and fine particles will be produced. Use the dust collection device and connect a dust extraction vacuum during use.
 - Wear eye protection at all times.
 - Wear respiratory protection masks containing filters appropriate to the materials being worked. Ensure adequate workplace ventilation.
 - Do not eat, drink or smoke in the work area.
- Injury caused by noise and vibration
 - Wear ear protection.
 - Do not operate the product for long periods of time. See "Risk reduction".
- Injury from contact with the cutting accessories
 - The accessories are sharp and will become hot during use.
 - Wear gloves when changing accessories.
 - Keep hands away from the cutting area at all times.
 - Never hold workpiece being cut in your hands or across your leg. Clamp the workpiece whenever possible.
- Risk of electrocution if electric cables are cut
 - Always hold the product by designated handles. Do not touch the cutting blades or metal parts of the product.
- Risk of musculoskeletal disorder
 - Always work in correct posture, keep proper footing and balance at all times..

RISK REDUCTION

It has been reported that vibrations from handheld products may contribute to a condition called Raynaud's Syndrome in certain individuals. Symptoms may include tingling, numbness and blanching of the fingers, usually apparent upon exposure to cold. Hereditary factors, exposure to cold and dampness, diet, smoking and work practices are all thought to contribute to the development of these symptoms. There are measures that can be taken by the operator to possibly reduce the effects of vibration:

- **Keep your body warm in cold weather.** When operating the unit wear gloves to keep the hands and wrists warm. It is reported that cold weather is a major factor contributing to Raynaud's Syndrome.
- **After each period of operation, exercise to increase blood circulation.**

- Take frequent work breaks. Limit the amount of exposure per day.

If you experience any of the symptoms of this condition, immediately discontinue use and see your doctor about these symptoms.

⚠ WARNING! Injuries may be caused or aggravated by prolonged use of a product. When using any product for prolonged periods, ensure you take regular breaks.

SPECIFIED CONDITIONS OF USE

The angle grinder is intended to be used only by adults who have read and understood the instructions and warnings in this manual, and can be considered responsible for their actions.

The product is designed for grinding and cutting metals and stone materials. Only appropriate grinding discs as described in the product specifications section of this manual should be fitted to the angle grinder.

The product is intended for dry use only. Do not use the product for wet applications.

The product is designed for handheld use. The product is not to be mounted onto a workbench.

The product is intended for consumer use only.

Do not use the product for any other purpose not described above.

BATTERIES

Battery packs which have not been used for some time should be recharged before use.

Temperatures in excess of 50°C (122°F) reduce the performance of the battery pack. Avoid extended exposure to heat or sunshine (risk of overheating).

The contacts of chargers and battery packs must be kept clean.

For an optimum life-time, the battery packs have to be fully charged, after used.

To obtain the longest possible battery life remove the battery pack from the charger once it is fully charged.

For battery pack storage longer than 30 days:

- Store the battery pack where the temperature is below 27°C and away from moisture.
- Store the battery packs in a 30% - 50% charged condition.
- Every six months of storage, charge the pack as normal.

ADDITIONAL BATTERY SAFETY WARNINGS

⚠ WARNING! To reduce the risk of fire, personal injury, and product damage due to a short circuit, never immerse your product, battery pack or charger in fluid or allow a fluid to flow inside them. Corrosive or conductive fluids, such as seawater, certain industrial chemicals, and bleach or bleach containing products, etc., can cause a short circuit.

Ambient temperature range for battery during use is between 0°C and 40°C.

Ambient temperature range for battery storage is between 0°C and 27°C.

TRANSPORTING LITHIUM BATTERIES

Lithium-ion batteries are subject to the Dangerous Goods Legislation requirements.

Transportation of those batteries has to be done in accordance with local, national and international provisions and regulations.

- The user can transport the batteries by road without further requirements.
- Commercial transport of Lithium-Ion batteries by third parties is subject to Dangerous Goods regulations. Transport preparation and transport are exclusively to be carried out by appropriately trained persons and the process has to be accompanied by corresponding experts.

When transporting batteries:

- Ensure that battery contact terminals are protected and insulated to prevent short circuit.

- Ensure that battery pack is secured against movement within packaging.

- Do not transport batteries that are cracked or leak.

Check with forwarding company for further advice.

BATTERY PACK PROTECTION

The battery pack has overload protection that protects it from being overloaded and helps to ensure long life. Under extreme stress the battery electronics switch off the product automatically. To restart, switch the product off and then on again. If the product does not start up again, the battery pack may have discharged completely. In this case it must be recharged in the battery charger.

MAINTENANCE

The ventilation slots of the product must be kept clear at all times.

Use only AEG accessories and AEG spare parts. Should components need to be replaced which have not been described, please contact one of our AEG service agents (see our list of guarantee/service addresses).

If needed, an exploded view of the product can be ordered. Please state the Article No. as well as the product type printed on the label and order the drawing at your local service agents or directly at:

⚠ WARNING! Avoid using solvents when cleaning plastic parts. Most plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use clean cloths to remove dirt, dust, oil, grease, etc.

⚠ WARNING! Do not at any time let brake fluids, gasoline, petroleum-based products, penetrating oils, etc., come in contact with plastic parts. Chemicals can damage, weaken or destroy plastic which could result in serious personal injury.

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SYMBOLS

	Read the instructions carefully before starting the product.
	CAUTION! WARNING! DANGER!
	Remove the battery pack before starting any work on the product.
	Wear non-skid safety shoes.
	Always wear goggles when using the product.
	Wear ear protectors.

	Wear a suitable dust protection mask.
	Wear gloves.
	Always operate with two hands.
	Not for wet grinding. Using water or other liquid coolants may result in electrocution or shock.
	Do not use chipped, cracked or defective grinding wheel.
	Do not use for cutting.
	Do not use the guard for cut-off operations.
	Use a guard
	Accessory - Not included in standard equipment, available as an accessory.
	Do not dispose of waste batteries, waste electrical and electronic equipment as unsorted municipal waste. Waste batteries and waste electrical and electronic equipment must be collected separately. Waste batteries, waste accumulators, and light sources have to be removed from the equipment. Check with your local authority or retailer for recycling advice and collection point. According to local regulations, retailers may have an obligation to take back waste batteries and waste electrical and electronic equipment free of charge. Your contribution to the reuse and recycling of waste batteries and waste electrical and electronic equipment helps to reduce the demand of raw materials. Waste batteries, in particular containing lithium, and waste electrical and electronic equipment contain valuable and recyclable materials, which can adversely impact the environment and the human health if not disposed of in an environmentally compatible manner. Delete personal data from waste equipment, if any.
min ⁻¹	Revolutions or reciprocations per minute
n _o	No-load speed
V	Voltage
	Direct current
	Regulatory Compliance Mark (RCM). Product meets applicable regulatory requirements.





AEG

www.aegpowertools.com.au
www.aegpowertools.co.nz

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