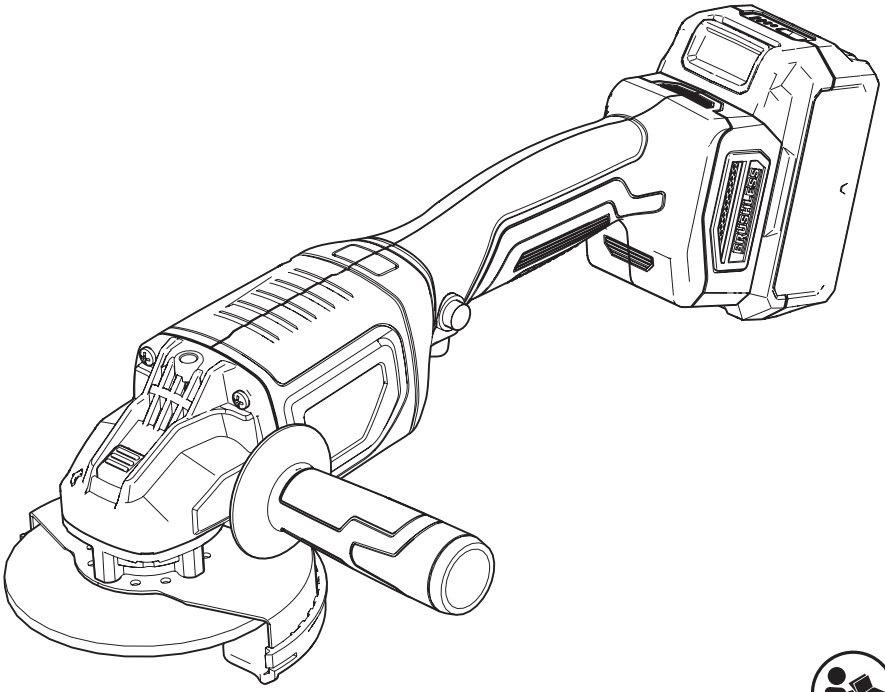
EVOLUTION™

S125 AGR Li 142-0001

Original Instructions



142-0901

LABELS & SYMBOLS	
	Warning
	Direct Current
	Read instructions
	Wear Safety Glasses
	Always operate with both hands
	Do not use guard for cut-off operations
	CE Certification
	Waste Electrical & Electronic Equipment
	Triman - Waste Collection & Recycling
	Purchase separately

RECOMMENDED BATTERY & CHARGERS		
2Ah Battery	R18BAT-Li2	EBAT18-Li-2
4Ah Battery	R18BAT-Li4	EBAT18-Li-4 EHPB18-Li-4
5Ah Battery	R18BAT-Li5	EBAT18-Li-5
8Ah Battery	R18BAT-Li8	EHPB18-Li-8
Single dock charger	R18RCH-Li1	EFC18-Li
Double dock charger	R18RCH-Li2	EMC18-Li

MACHINE SPECIFICATIONS	
Model No.	142-0001
Voltage	18V d.c.
No Load Speed	8700min^{-1}
Max. Disc Diameter	125mm
Max. Disc Thickness (Grinding)	7mm
Max. Disc Thickness (Cutting-off)	3mm
Spindle Thread Size	M14
Weight	1.85kg
NOISE & VIBRATION DATA	
Sound Pressure Level L_pa	87 dB (A)
Sound Power Level L_wa	95 dB (A)
Uncertainty K_pa & K_wa	3 dB (A)
Vibration a_h	4.13 m/s^2
Vibration K	1.5 m/s^2

INTENDED USE OF THIS POWER TOOL

The Evolution **S125AGR-Li Cordless Angle Grinder** is designed for grinding, cutting, deburring, and brushing metal and masonry materials using appropriate abrasive or cutting accessories. It is suitable for applications such as removing excess material, cutting rebar or metal profiles, and surface preparation work. Use only with manufacturer-approved battery packs and accessories.

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

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

ELECTRICAL SAFETY

- **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 the risk of electric shock.
- **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.
- **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- **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.
- **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.
- **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

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

- **Remove any adjusting key or wrench before turning the power tool on.** A wrench or key left attached to a rotating part of a power tool may result in personal injury.
- **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- **Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.
- **If devices are provided for the connection of dust extraction and collection facilities, ensure that these are connected and properly used.** Use of dust collection can reduce dust-related hazards.
- **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

- **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 a rate for which it was designed.
- **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.
- **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.
- **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.
- **Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
- **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- **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.
- **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

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

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

- **Never service damaged battery packs.** Service of battery packs should only be performed by the manufacturer or authorized service providers.
- **Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.

SAFETY WARNINGS FOR GRINDERS

Safety warnings common for grinding or abrasive 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 polishing are not recommended to be performed with this power tool.** Operations for which the power tool was not designed may create a hazard and cause personal injury.
- **Do not use accessories which are not specifically designed and recommended by the tool manufacturer.** Just because the accessory can be attached to your power tool, it does not assure safe operation.
- **The rated speed of the accessory must be 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.
- **Threaded mounting of accessories must match the grinder spindle thread. For accessories mounted by flanges, the arbour hole of the accessory must fit the locating diameter of the flange.** Accessories that do not match the mounting hardware of the power tool will run out of balance, vibrate excessively and may cause loss of control.
- **Do not use a damaged accessory. Before each use inspect the accessory such as abrasive wheels for chips and cracks, 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 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.
- **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 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.
- **Position the cord clear of the spinning accessory.** If you lose control, the cord may be cut or snagged and your hand or arm may be pulled into the spinning accessory.
- **Never lay the power tool down until the accessory has come to a complete stop.** The spinning accessory may grab the surface and pull the power tool out of your control.
- **Do not run the power tool while carrying it at your side.** Accidental contact with the spinning accessory could snag your clothing, pulling the accessory into your body.
- **Regularly clean the power tool’s air vents.** The motor’s fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.
- **Do not operate the power tool near flammable materials.** Sparks could ignite these materials.
- **Do not use accessories that require liquid coolants.** Using water or other liquid coolants may result in electrocution or shock.

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.

- **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.
- **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 or toothed saw blade.** Such blades create frequent kickback and loss of control.

SAFETY WARNINGS SPECIFIC FOR GRINDING AND ABRASIVE CUTTING-OFF OPERATIONS

- **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.
- **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 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.
- **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.** 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 ABRASIVE 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 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. I**nvestigate 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 reenter 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 with application of safety standards and using the tool as prescribed, certain residual risks can remain:

- Risk of personal injury due to prolonged use.
- Risk of injury caused by dust.
- Risk of injury caused by flying objects.
- Risk of burns due to accessories becoming hot.

STORAGE

- Store the device and it's accessories in a dry and dustproof location.
- Store it out of the reach of children.
- Store the bits separately to avoid mechanical damage or confusion with other tools.
- Protect the bits from excessive heat (e.g. by storing near heating pipes or steam pipes) and from UV radiation.
- If you intend to store a battery for a period without use then store battery at room temperature (0°C to 20°C). When storing for very long periods boost charge the battery once per year to prevent over discharge. The ambient temperature range for tool and battery use: 0°C to 40°C. The charging temperature: 5°C to 40°C.

CLEANING

- The device must not be sprayed with water or placed in water. Otherwise there is a risk of electric shock.
- Keep the device, handle and the accessories clean. Use a dry cloth or brush to do this. Do not use any cleaning agents or solvents. They could damage the device irreparably. Do not use water or metal objects.

MAINTENANCE

If a fault develops, disconnect the battery immediately and contact Evolution Power Tools Customer Service. Do not attempt to repair the tool.

ADDITIONAL BATTERY AND CHARGER SAFETY WARNINGS

⚠ WARNING: Read the safety warnings and instructions provided in the battery manual and the charger manual before operation.

ENVIRONMENTAL PROTECTION

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.

NOISE WARNING

⚠ WARNING: The 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.

PRODUCT OVERVIEW KEY (FIG. 2)

A. **Disc Change Lock Button**
B. **On/Off Switch Lock Button**
C. **On/Off Trigger**
D. **Handle**
E. **Disc Guard**
F. **Outer Flange**
G. **Spindle**

ASSEMBLY

⚠ WARNING: Disconnect the battery from the tool before making any adjustments, maintenance checks or cleaning.

⚠ WARNING: Do not use the tool without the blade guard cover attached.

To attach the handle:

- The angle grinder comes with a handle **(D)** which can be assembled in three different positions on the tool.
- For grinding, screw the handle tightly into one of the holes on either side of the gear case **(FIG. 3)**. For cutting, screw the handle tightly into the top hole or one of the holes on either side of the gear case.

To attach a grinding or cutting disc:

- Remove the outer flange **(F)** from the tool by engaging the disc change lock button **(A)** while also turning the flange anti-clockwise to unlock.
- Carefully insert a cutting disc by placing it through the spindle **(G)**. Ensure that the disc or blade is facing the correct way up by checking the markings on the surface.
- Secure the cutting disc with the outer flange by engaging the disc change lock button **(A)** while also turning the outer flange clockwise to lock in place.

To attach the disc guard cover:

- Carefully slide the guard cover completely over the disc guard **(E)** until it is secured into place. **(FIG.4)**

OPERATION

⚠ WARNING: Ensure any work material is clamped securely before using the tool.

To rotate the disc guard:

- The disc guard can be rotated into position to allow comfortable and appropriate cutting operation. Rotate the guard 90° to the left or right as desired.

To power on the tool:

- To start the tool, press in the On/Off Switch Lock Button **(B)** on the left side of the tool **(FIG.5).**
- Hold down the On/Off trigger **(C)** to start the tool.
- Allow the tool to reach full speed before making contact with the work surface.
- To stop the tool, release the On/Off trigger **(C)**.

For extended use:

- The tool may be used in a locked 'On' position. While the On/Off trigger **(C)** is engaged, press the On/Off lock button **(B)** inward again, this will lock the trigger in the 'On' position.
- To unlock, press the On/Off lock button **(B)**.

SUITABLE ACCESSORIES		
APPLICATION	ACCESSORY TYPE	GUARD TYPE
Facial Grinding	Wheel Type 27	Type B
Cutting Off	Wheel Type 41, 42 for metal	Type A
	Wheel Type 41, 42 for metal	Type A

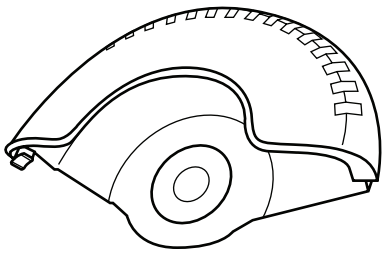
GUARDING RISKS

⚠ WARNING: Ensure the correct guard is fitted for the appropriate application.

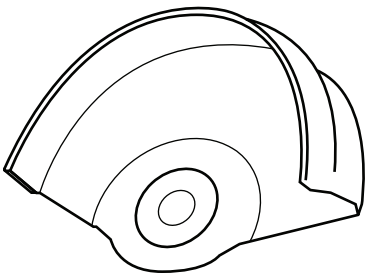
Risks associated with wheel guards:

- When using a **Type A** wheel guard (cut-off) during facial grinding, the wheel guard may interfere with the workpiece causing poor control.
- When using a **Type B** wheel guard (grinding) for cutting-off operations with bonded abrasive wheels, there is an increased risk of exposure to emitted sparks and particles, as well as wheel fragments in the event of wheel burst.
- When using a **Type A or Type B** wheel guard for cutting-off and facial operations in concrete and masonry, there is an increased risk of exposure to dust and loss of control resulting in kickback.

FIG. 1



Type A (Cut-off)



Type B (Grinding)

FIG. 2

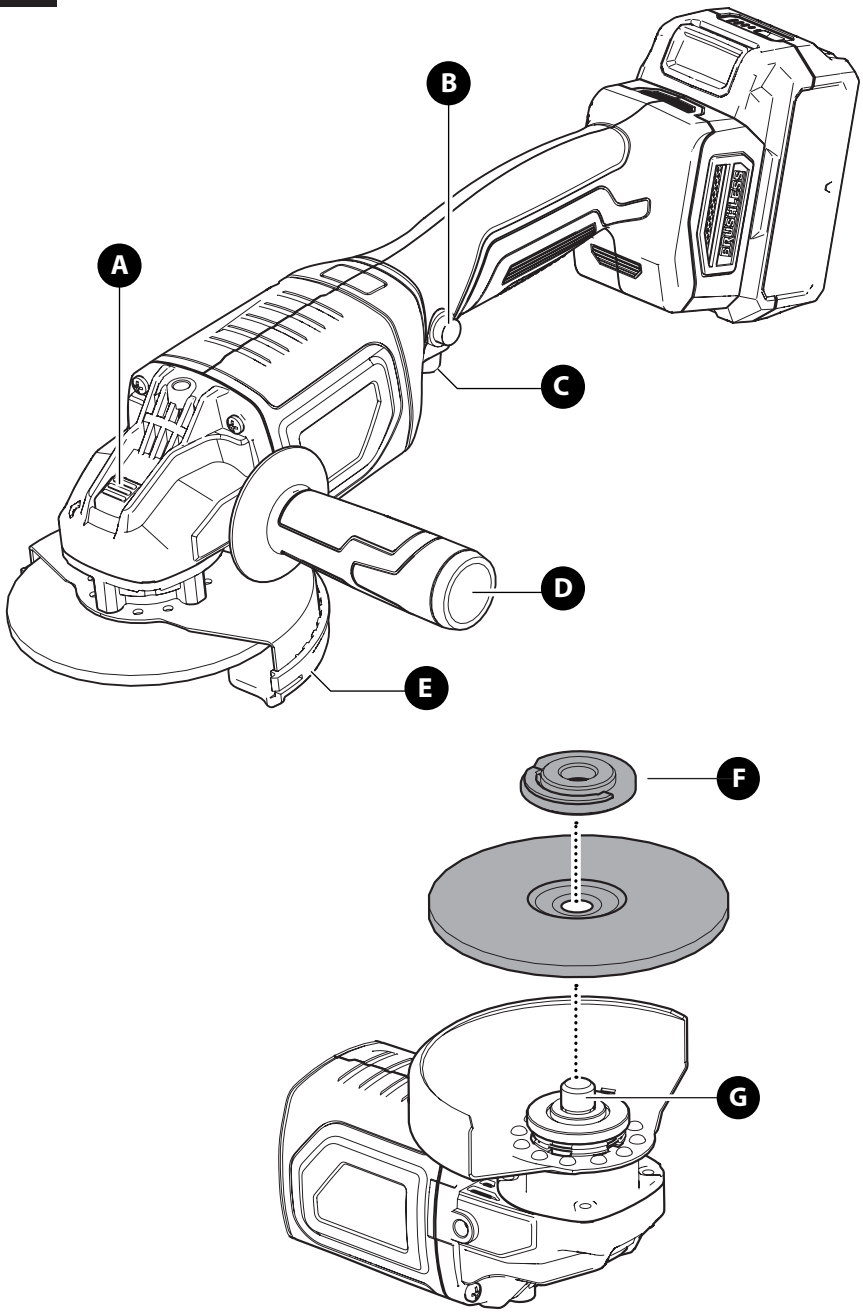


FIG. 3

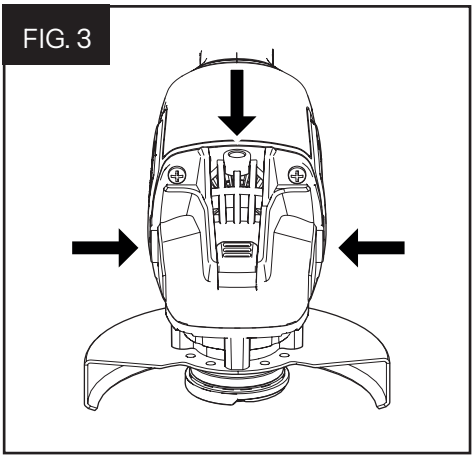


FIG. 4

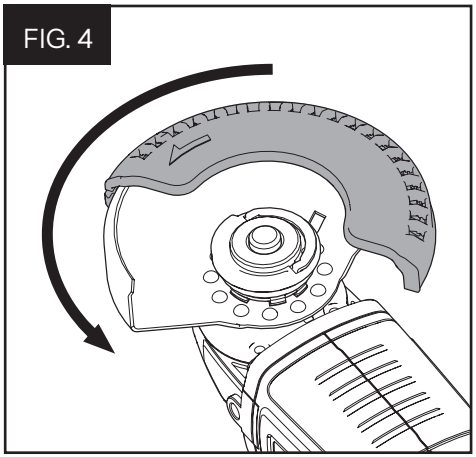
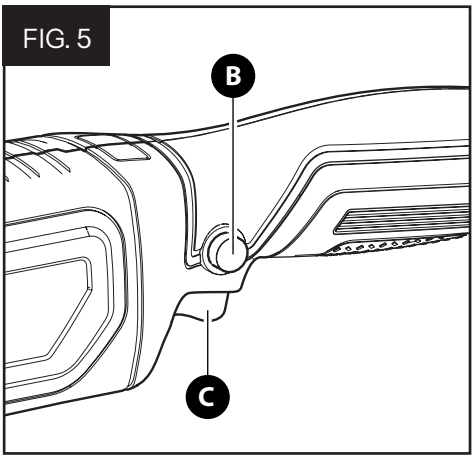


FIG. 5



DECLARATION OF CONFORMITY

CE

Evolution Power Tools Ltd. declares that this product:
S125AGR-Li Angle Grinder
Model: 142-0001, 142-0001A, 142-0001B, 142-0001C
Brand: Evolution

Complies with the following directives and standards:
1907/2006, 2006/42/EC, 2014/30/EU, 2011/65/EU & (EU)2015/863, 2012/19/EU.

EN 62841-1:2015/A11:2022
EN 62841-2-3:2021/A11:2021
EN IEC 55014-1:2021
EN IEC 55014-2:2021

The undersigned technical document holder makes this declaration on behalf of Evolution Power Tools Ltd.

Barry Bloomer
CEO
Date: 22/10/25

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