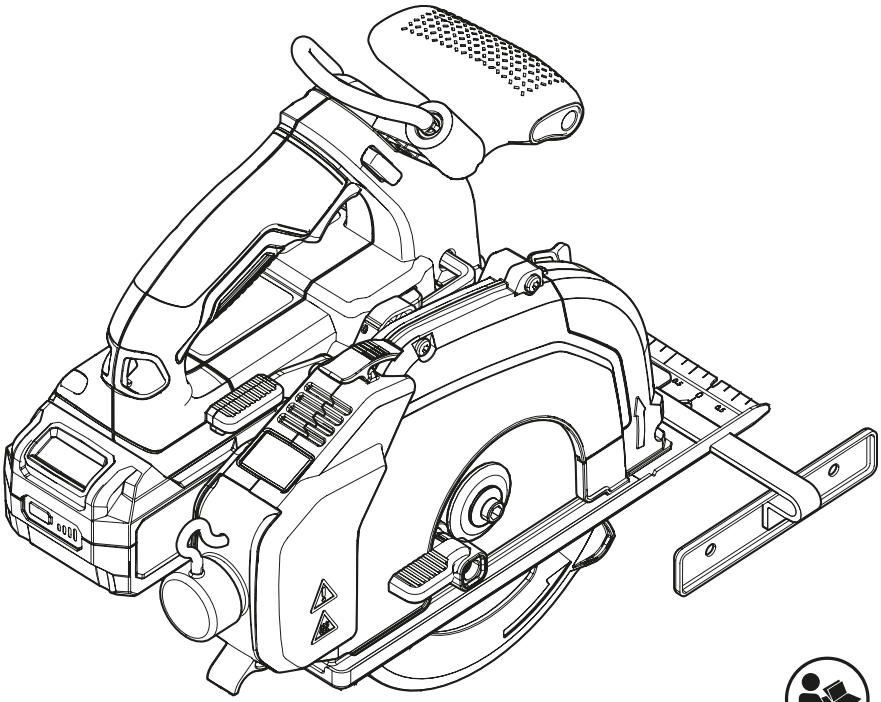
EVOLUTION™

S165 CCS Li 117-0001

Original Instructions



117-0901

LABELS & SYMBOLS	
	Warning
	Direct Current
	Read Instructions
	Wear Safety Glasses
	Wear Ear Protection
	Wear Dust Protection
	Wear Hand Protection
	CE Certification
	Waste Electrical & Electronic Equipment
	Triman - Waste Collection & Recycling
	Purchase Separately
	Lock
	Unlock

SPECIFICATIONS	
Model No.	117-0001
Voltage	18V d.c.
No Load Speed	3400rpm
Blade Diameter	165mm
Bore Diameter	20mm
Weight	3.5kg
CUTTING CAPACITIES	
Max. Plate Thickness	6mm
Max. Wall Thickness	3mm
Max. 90°	58mm
Max. 90° (With Guide Rail)	54mm
NOISE & VIBRATION DATA	
Sound Pressure Level L_pa	95 dB (A)
Sound Power Level L_wa	103 dB (A)
Uncertainty K_pa & K_wa	3 dB (A)
Vibration	$a_h = 3.17\ m/s^2$ $K = 1.5\ m/s^2$

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

INTENDED USE OF THIS POWER TOOL

The **Evolution S165CCS-Li Cordless Circular Saw** is a hand operated circular saw designed to cut metal materials only. With an appropriate blade, this saw may cut mild steel, stainless steel, aluminium or other non-ferrous metals. Do not use this saw to cut wood, drywall, plastic, or composites.

Only use accessories designed for use in this machine and/or those recommended specifically by Evolution Power Tools Ltd.

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

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

SAFETY WARNINGS FOR CIRCULAR SAWS

CUTTING PROCEDURES

- ⚠ **DANGER: Keep hands away from cutting area and the blade. Keep your second hand on auxiliary handle, or motor housing.** If both hands are holding the saw, they cannot be cut by the blade.
- **Do not reach underneath the workpiece.** The guard cannot protect you from the blade below the workpiece.
- **Adjust the cutting depth to the thickness of the workpiece.** Less than a full tooth of the blade teeth should be visible below the workpiece.
- **Never hold the workpiece in your hands or across your leg while cutting. Secure the workpiece to a stable platform.** It is important to support the work properly to minimise body exposure, blade binding, or loss of control.
- **Hold the power tool by insulated gripping surfaces, 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.
- **When ripping, always use a rip fence or straight edge guide.** This improves the accuracy of cut and reduces the chance of blade binding.
- **Always use blades with correct size and shape (diamond versus round) of arbour holes.** Blades that do not match the mounting hardware of the saw will run off-centre, causing loss of control.
- **Never use damaged or incorrect blade washers or bolt.** The blade washers and bolt were specially designed for your saw, for optimum performance and safety of operation.

KICKBACK AND RELATED WARNINGS

- Kickback is a sudden reaction to a pinched, jammed or misaligned saw blade, causing an uncontrolled saw to lift up and out of the workpiece toward the operator.
- When the blade is pinched or jammed tightly by the kerf closing down, the blade stalls and the motor reaction drives the unit rapidly back toward the operator;
- If the blade becomes twisted or misaligned in the cut, the teeth at the back edge of the blade can dig into the top surface of the wood causing the blade to climb out of the kerf and jump back toward the operator.
- Kickback is the result of saw 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 saw and position your arms to resist kickback forces. Position your body to either side of the blade, but not in line with the blade.** Kickback could cause the saw to jump backwards, but kickback forces can be controlled by the operator, if proper precautions are taken.
- **When blade is binding, or when interrupting a cut for any reason, release the trigger and hold the saw motionless in the material until the blade comes to a complete stop. Never attempt to remove the saw from the work or pull the saw backward while the blade is in motion or kickback may occur.** Investigate and take corrective actions to eliminate the cause of blade binding.
- **When restarting a saw in the workpiece, centre the saw blade in the kerf so that the saw teeth are not engaged into the material.** If a saw blade binds, it may walk up or kickback from the workpiece as the saw is restarted.
- **Support large panels to minimise the risk of blade pinching and feedback. Large panels tend to sag under their own weight.** Supports must be placed under the panel on both sides, near the line of cut and near the edge of the panel.
- **Do not use dull or damaged blades.** Unsharpened or improperly set blades produce narrow kerf causing excessive friction, blade binding and kickback.
- **Blade depth and bevel adjusting locking levers must be tight and secure before making a cut.** If the blade adjustment shifts while cutting it may cause binding and kickback.
- **Use extra caution when sawing into existing walls or other blind areas.** The protruding blade may cut objects that can cause kickback.

LOWER GUARD FUNCTION

- **Check the lower guard for proper closing before each use. Do not operate the saw if the lower guard does not move freely and close instantly. Never clamp or tie the lower guard into the open position.** If the saw is accidentally dropped, the lower guard may be bent. Raise the lower guard with the retracting handle and make sure it moves freely and does not touch the blade or any other part, in all angles and depths of cut.
- **Check the operation of the lower guard spring. If the guard and the spring are not operating properly, they must be serviced before use.** Lower guard may operate sluggishly due to damaged parts, gummy deposits, or a build-up of debris.
- **The lower guard may be retracted manually only for special cuts such as "plunge cuts" and "compound cuts". Raise the lower guard by the retracting handle and as soon as the blade enters the material, the lower guard must be released.** For all other sawing, the lower guard should operate automatically.
- **Always observe that the lower guard is covering the blade before placing the saw down on bench or floor.** An unprotected, coasting blade will cause the saw to walk backwards, cutting whatever is in its path. Be aware of the time it takes for the blade to stop after switch is released.

ADDITIONAL SAFETY INSTRUCTIONS FOR CIRCULAR SAWS

- Wear a dust mask. Exposure to dust particles can be harmful to your health and make it difficult to breath. Use a dust extraction system and wear a suitable protective mask.
- Do not use any abrasive wheels.
- Use only saw blades that comply with the characteristics specified in this manual.
- Use only saw blade diameter(s) in accordance with the markings.
- Use only saw blades with a speed marking that is higher than or equal to the speed marked on the tool.
- Avoid heating the blade tips. Avoid

overheating or melting the materials.
- Use only saw blades recommended by the manufacturer, which conform to EN 847-1, if intended for wood and analogous materials.

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 its 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.

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

A. Front Handle
B. Lock-Off Button
C. Hex Key
D. Blade Viewing Window
E. Cutting Line Indicator
F. Parallel Edge Guide
G. Lower Blade Guard
H. Chip Collection Box
I. Chip Box Viewing Window
J. Chip Extraction Port
K. Battery Status Indicator
L. Battery Release Button
M. Depth Adjustment Lever
N. Tethering Point
O. Power Trigger
P. Rafter Hook
Q. Guide Rail Adaptor
R. Blade Spindle Lock
S. Inner Flange
T. Outer Flange
U. Blade Bolt

ASSEMBLY

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

⚠ WARNING: Always wear protective

gloves when handling the blade.

ATTACHING THE BATTERY (FIG. 2)

- To attach the battery, align the battery pack with the grooves of the tool battery input and slide the battery in place.
- To detach, hold the battery release button **(L)** and pull away from the tool.

CHANGING THE BLADE (FIG. 3)

⚠ WARNING: The circular saw is supplied with a double sided inner flange (S) appropriate for a 5/8" or 20mm blade bore size (FIG.4). When attaching a blade, use the correct side of the inner flange to fit the bore of the blade.

- Remove the battery pack from the tool.
- To remove or change a blade, press and hold the blade spindle lock **(R)**.
- Using the supplied hex key **(C)**, turn the blade bolt anti-clockwise and remove the bolt **(U)** and the outer flange **(T).**
- Ensure the blade teeth and it's markings match the arrow on the lower blade guard.
- Retract the lower blade guard **(G)** fully using the lever.
- Slide the blade through the slot and mount onto the inner flange **(S)** on the spindle.
- Re-install the outer flange and blade bolt. Then tighten the blade bolt with the hex key (clockwise) while holding the blade spindle lock.

Note: The hex key is stored between the main handle and the upper blade guard **(C)**. Always store when not in use to prevent it from being misplaced.

TOOL FEATURES

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

ADJUSTING THE DEPTH OF CUT (FIG. 5a)

- To adjust the cutting depth, lift the depth adjustment lever **(M).**
- Adjust the cutting depth by lifting or lowering the saw by holding the main handle and the base plate.
- Lock the tool by tightening the depth adjustment lever once the desired depth is achieved.

Note: The maximum depth of cut depends on whether the saw is being used with or without a guide rail. For general cutting, the maximum depth is 58mm, or 54mm for cutting with a guide rail. **(FIG. 5b)**

Note: The blade should extend about 3mm (1/8") below the material being cut.

CHIP COLLECTION BOX (FIG. 6)

⚠ WARNING: Always wear eye protection and protective gloves when handling the metal chips. The chips may be extremely hot after operation and could cause skin injury.

⚠ WARNING: Do not perform the saw without the chip collection box installed.

- The chip collection box **(H)** collects the metal chips during metal cutting.
- Observe the level of metal chips by checking the viewing window **(I)** and regularly empty the box before it is full.
- To empty the chip collection box, flip the lower latch **(W)** upward over a waste bin and dump the metal chips.
- To remove the chip box, flip the upper latch **(V)** and carefully remove the box from the tool.
- Secure the chip collection box by fastening the latches after emptying.

Note: Routinely check the chip collection channel is clear to avoid clogging.

RAFTER HOOK (FIG. 7)

- The saw is installed with a rafter hook **(P)** which allows the product to hang on a secure hook or rail between use.

- To use the rafter hook, turn the hook until it snaps into a 90° or 180° position.
- When operating the saw, ensure the rafter hook is returned inward to it's closed position.

PARALLEL EDGE GUIDE (FIG. 8)

- A parallel edge guide **(F)** is supplied with this tool to perform straight cuts easily.
- To assemble, slide the edge guide into the slots as shown to allow a desired width of cut.
- Turn the wingnut clockwise to secure.

⚠ WARNING: Make sure that the parallel edge guide does not interfere with the free movement of the lower guard or saw blade.

GUIDE RAIL ADAPTOR (FIG. 9)

- A guide rail adaptor **(Q)** is supplied with this tool to allow for guide rail cutting.
- To assemble, first remove the parallel edge guide if attached.
- Hook the rear of the adaptor under the base plate edge.
- Slide the front arm of the adaptor into the parallel guide slot.
- Lock the wingnut to secure.

CHIP EXTRACTION (FIG. 10)

- A chip extraction machine and adaptor nozzle can be attached to chip extraction port **(J)** to allow chip collection.

Note: Follow the manufacturer's instructions if such a machine is fitted and ensure that it is capable of handling the ejected cut material.

LED LIGHT

- The tool is equipped with an LED light to improve visibility during cutting.

OPERATION

⚠ WARNING: Always make sure the material being cut is clamped securely before operation.

⚠ WARNING: Do not perform plunge or pocket cuts with this saw.

⚠ WARNING: Do not operate this saw if any parts or accessories are missing or damaged. Use of the saw with damaged or missing parts may cause serious injury.

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

⚠ WARNING: Always wear eye protection for protection against potential flying debris.

POWERING ON THE SAW (FIG. 11)

- To turn the power ON, push the lock-off button **(B)** inward with your thumb and squeeze the trigger **(O)** with your index finger.
- To turn the power OFF, release the power trigger.

USING THE SAW (FIG. 12)

⚠ WARNING: If the saw binds during cutting, immediately release the power trigger and wait until the blade comes to a complete stop.

- Line up the cut notch with the desired line of cut.
- Position your body to either side of the blade but not directly behind.
- Wait a few seconds until the blade reaches full speed before cutting.
- Steadily begin cutting the workpiece, holding the saw firmly.
- Once the cut is finished, release the power trigger and allow the blade to reach a complete stop.

LARGE SHEET CUTTING (FIG. 13)

⚠ WARNING: Large sheets of material may sag and bind the blade if not supported properly. Use a supportive stand or supports to ensure the material is level before cutting.

USING A GUIDE RAIL (FIG. 14)

- To perform a straight cut using a guide rail, align the channel of the guide rail adaptor to the rail channel and slide the tool onto the rail.
- Ensure the tool slides freely along the guide rail without obstruction before performing any cut.

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.
- Regularly check the amount of chips inside the chip collection box **(H)**. When the chip collection box is full, dispose of the chips and clean inside.

MAINTENANCE

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

DECLARATION OF CONFORMITY

CE

Evolution Power Tools Ltd. declares that this product:

S165CCS-Li Cordless Circular Saw
Model: 117-0001, 117-0001A, 117-0001B
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 62841-2-5:2014
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: 15/12/25

UK: Evolution Power Tools Ltd. Venture One, Longacre Close, Holbrook Industrial Estate, Sheffield, S20 3FR.
FR: Evolution Power Tools SAS. 61 Avenue La Fontaine, 33560, Carbon-Blanc, Bordeaux, France.

FIG. 1

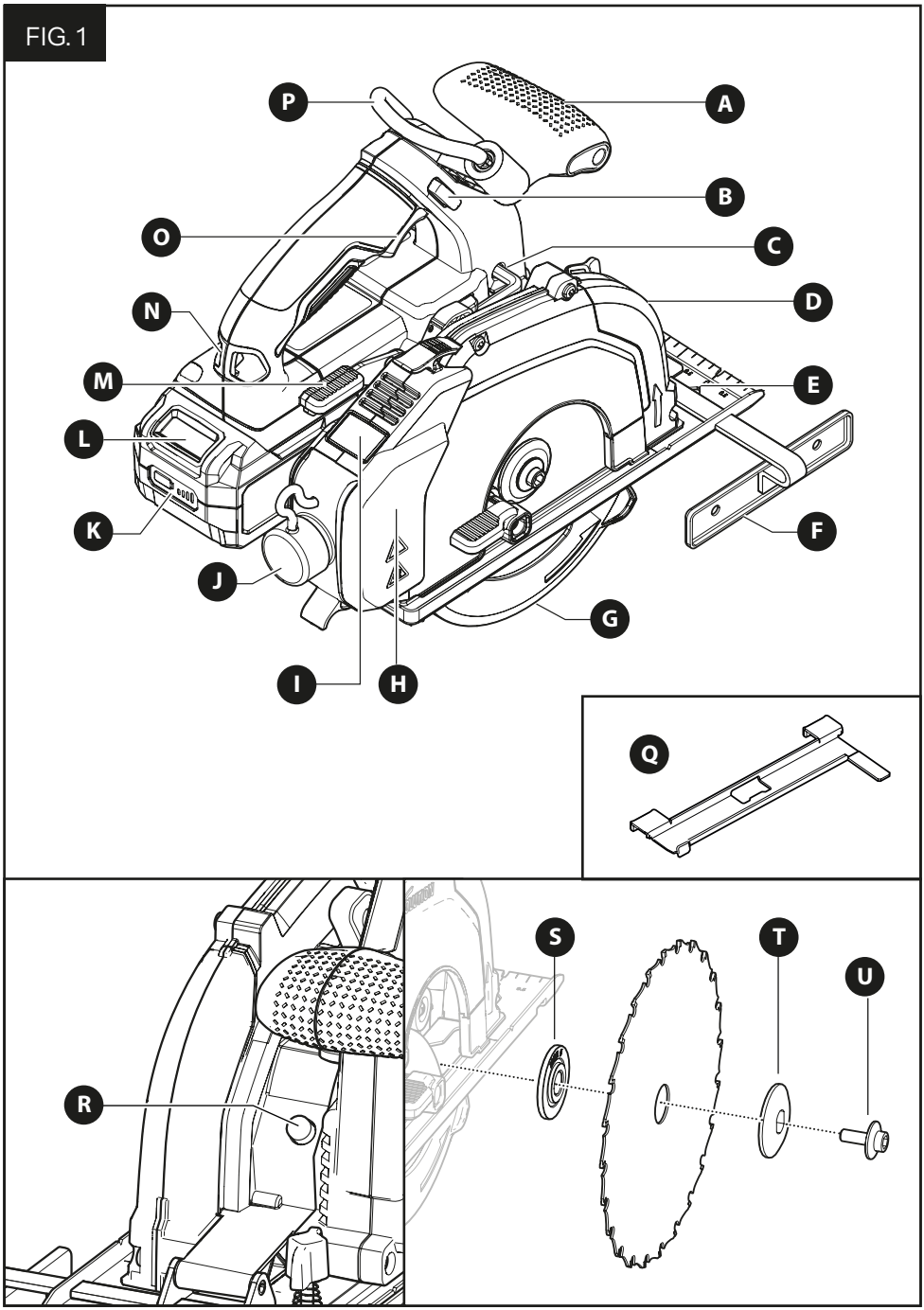


FIG. 2

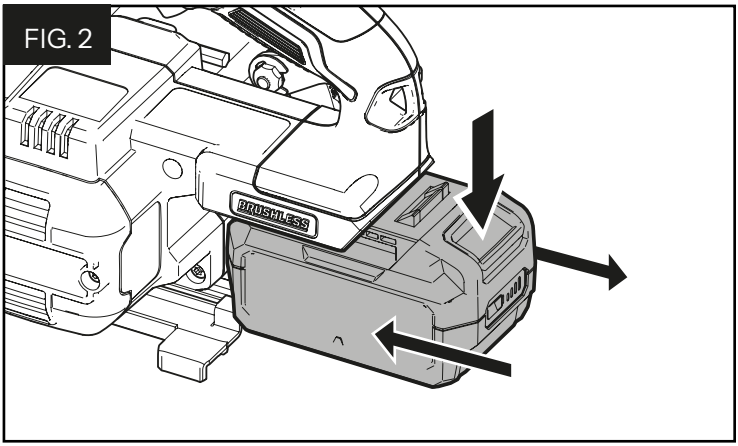


FIG. 3

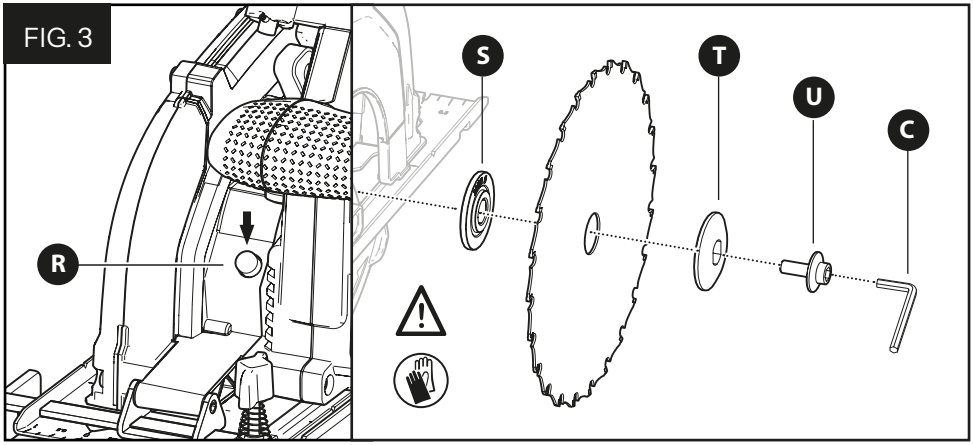


FIG. 4

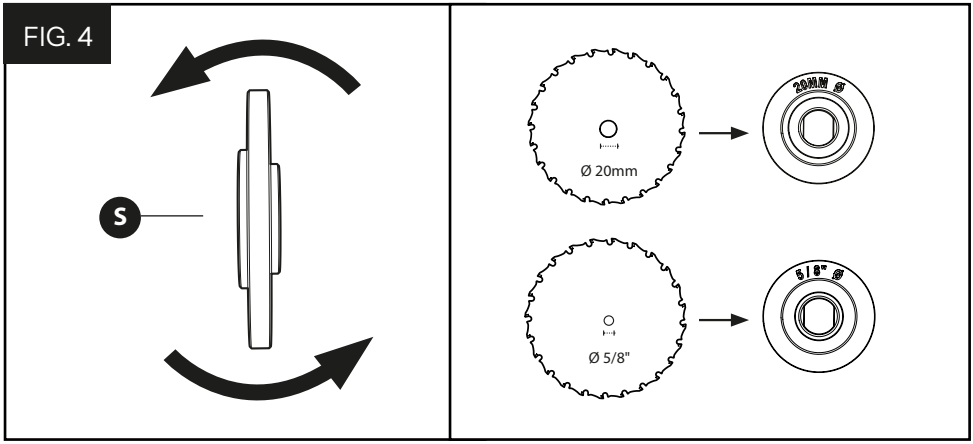


FIG. 5a

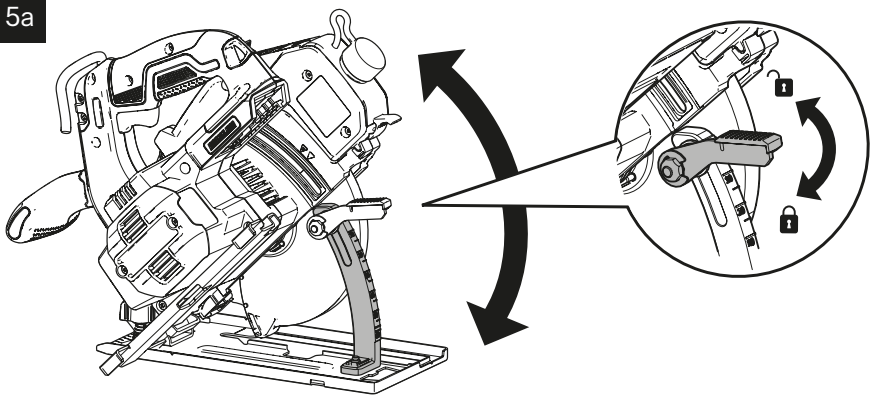


FIG. 5b

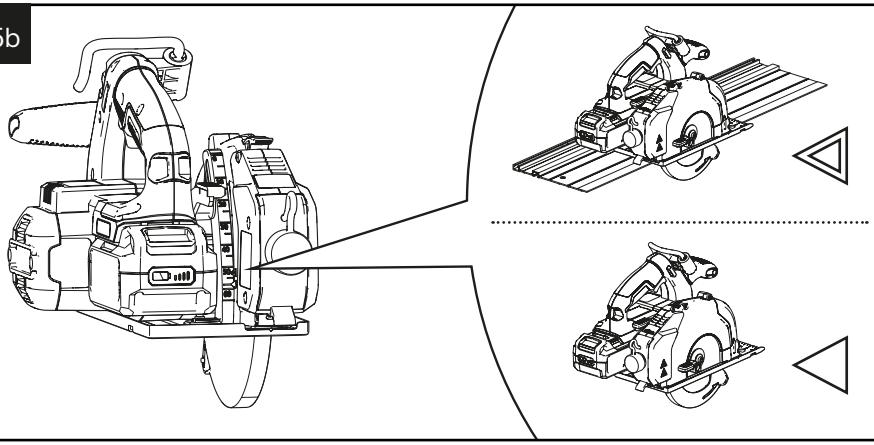


FIG. 6

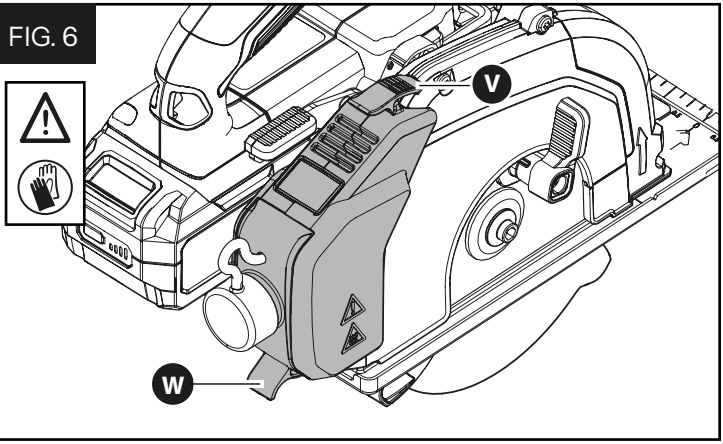


FIG. 7

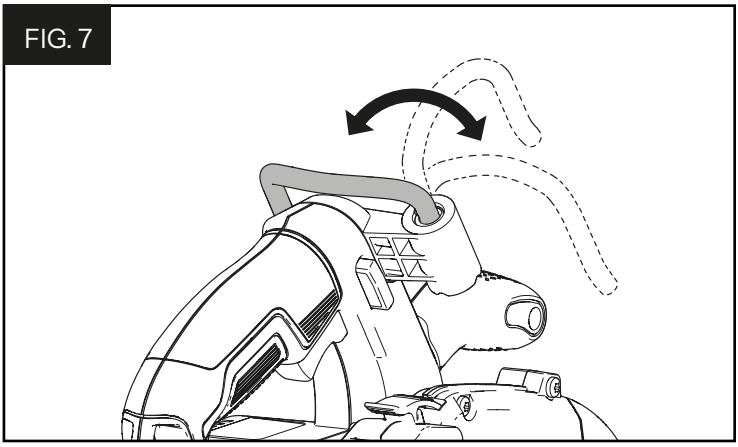


FIG. 8

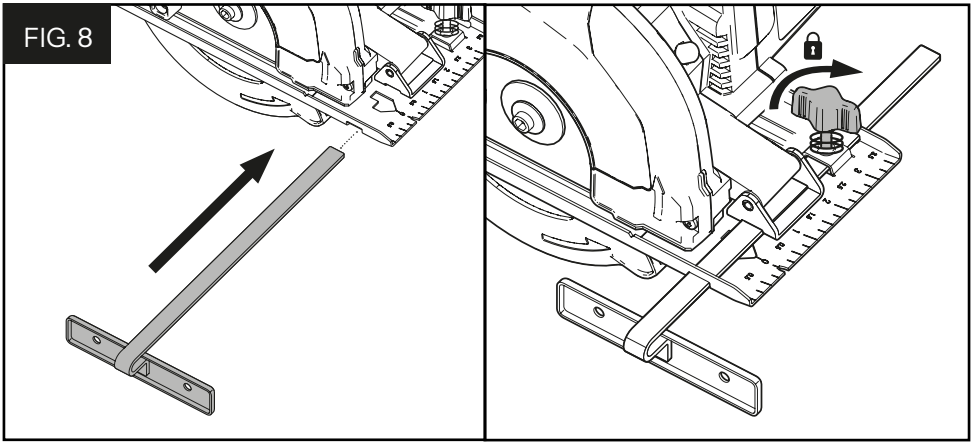


FIG. 9

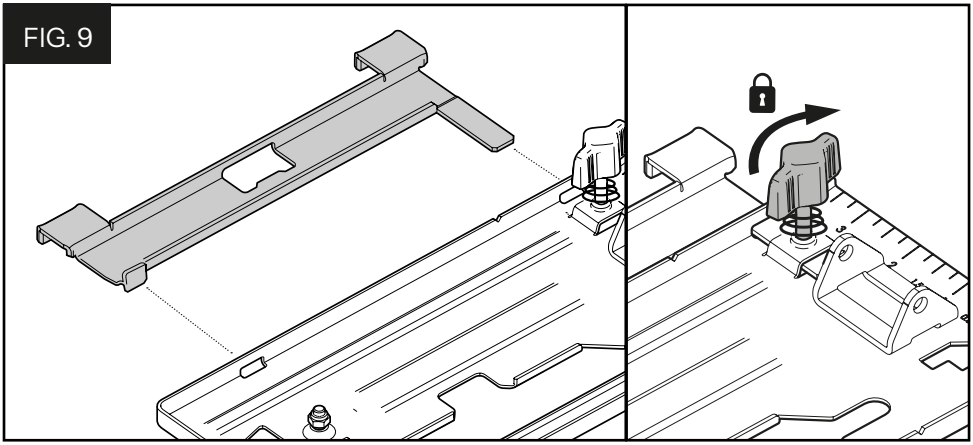


FIG. 10

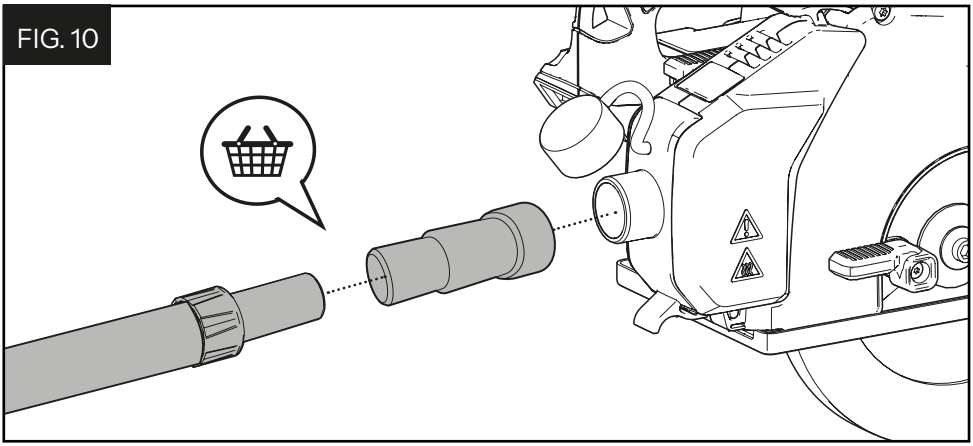


FIG. 11

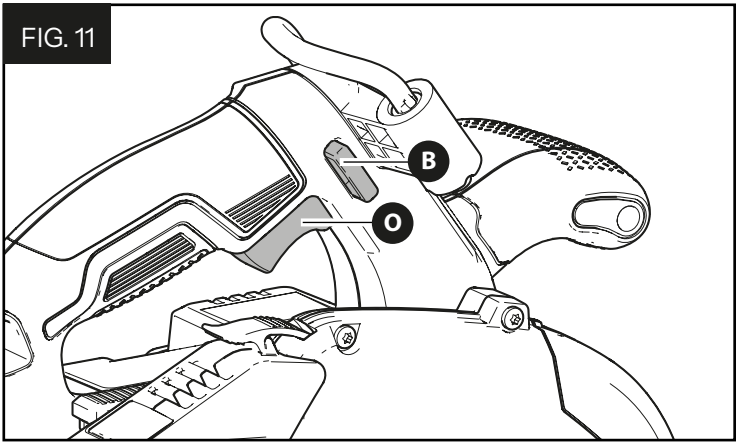
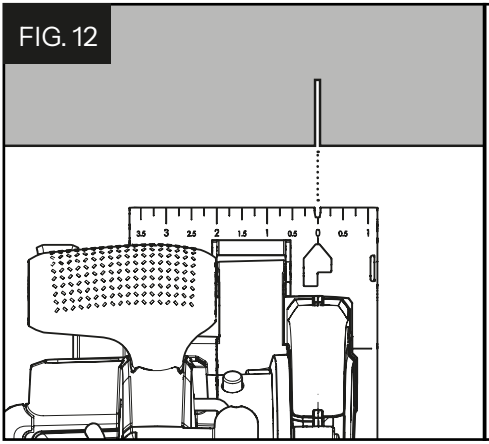


FIG. 12



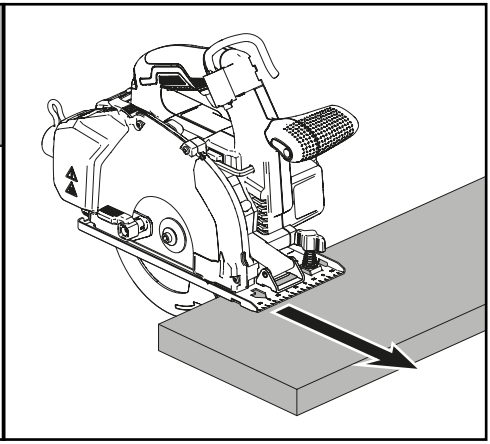


FIG. 13

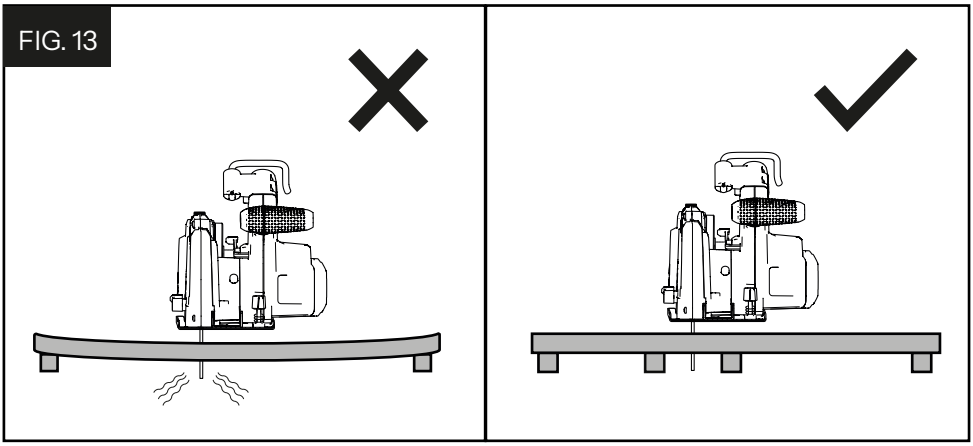
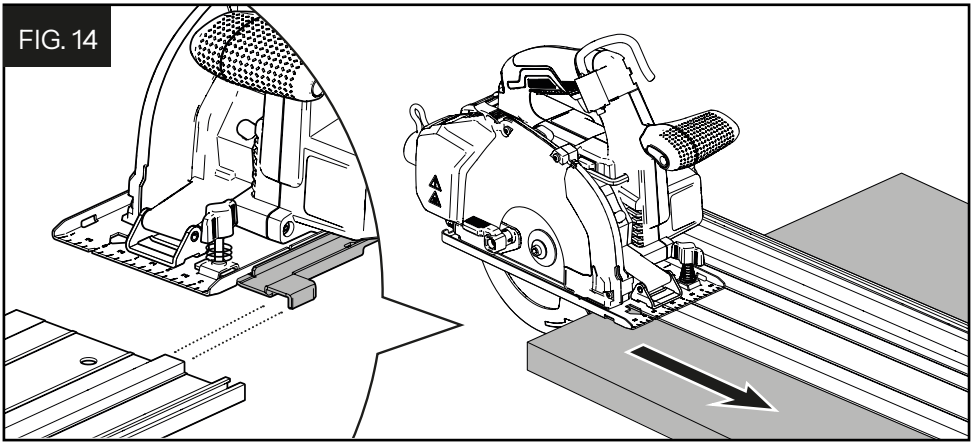


FIG. 14



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