



ORIGINAL INSTRUCTIONS  
**Compound Mitre Saw**

EMS1221RG





## **Important!**

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

Subject to technical modifications.





Safety, performance, and dependability have been given top priority in the design of your mitre saw.

## INTENDED USE

The mitre saw is intended for sawing solid and bonded wood, materials similar to wood, with or without glued veneer and plastics.

The mitre saw is intended to be used only by adult operators who have read the instruction manual and understand the risks and hazards.

The mitre saw is designed to be fixed at the base to a solid bench top. If the base is not securely fixed, the whole machine may move during cutting operations, which increases the possibility of serious personal injury.

The mitre saw is designed make bevel and mitre cuts. The capacities for the various cuts are provided in the mitre saw product specifications in this manual.

The mitre saw is to be used in dry conditions, with excellent ambient lighting and adequate ventilation.

The mitre saw is intended for consumer use and should only be used as described above and is not intended for any other purpose.

## 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 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 a key left attached to a rotating part of the 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 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 the 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.

## 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.

## SAFETY INSTRUCTIONS FOR MITRE SAWS

- **Mitre saws are intended to cut wood or wood-like products, they cannot be used with abrasive cut-off wheels for cutting ferrous material such as bars, rods, studs, etc.** Abrasive dust causes moving parts such as the lower guard to jam. Sparks from abrasive cutting will burn the lower guard, the kerf insert and other plastic parts.
- **Use clamps to support the workpiece whenever possible. If supporting the workpiece by hand, you must always keep your hand at least 100 mm from either side of the saw blade. Do not use this saw to cut pieces that are too small to be securely clamped or held by hand.** If your hand is placed too close to the saw blade, there is an increased risk of injury from blade contact.
- **The workpiece must be stationary and clamped or held against both the fence and the table. Do not feed the workpiece into the blade or cut "freehand" in any way.** Unrestrained or moving workpieces could be thrown at high speeds, causing injury.
- **Push the saw through the workpiece. Do not pull the saw through the workpiece. To make a cut, raise the saw head and pull it out over the workpiece without cutting, start the motor, press the saw head down and push the saw through the workpiece.** Cutting on the pull stroke is likely to cause the saw blade to climb on top of the workpiece and violently throw the blade assembly towards the operator.
- **Never cross your hand over the intended line of cutting either in front or behind the saw blade.** Supporting the workpiece "cross handed" i.e. holding the workpiece to the right of the saw blade with your left hand or vice versa is very dangerous.
- **Do not reach behind the fence with either hand closer than 100 mm from either side of the saw blade, to remove wood scraps, or for any other reason while the blade is spinning.** The proximity of the spinning saw blade to your hand may not be obvious and you may be seriously injured.
- **Inspect your workpiece before cutting. If the workpiece is bowed or warped, clamp it with the outside bowed face toward the fence. Always make certain that there is no gap between the workpiece, fence and table along the line of the cut.** Bent or warped workpieces can twist or shift and may cause binding on the spinning saw blade while cutting. There should be no nails or foreign objects in the workpiece.
- **Do not use the saw until the table is clear of all tools, wood scraps, etc., except for the workpiece.** Small debris or loose pieces of wood or other objects that contact the revolving blade can be thrown with high speed.
- **Cut only one workpiece at a time.** Stacked multiple workpieces cannot be adequately clamped or braced and may bind on the blade or shift during cutting.
- **Ensure the mitre saw is mounted or placed on a level, firm work surface before use.** A level and firm work surface reduces the risk of the mitre saw becoming unstable.
- **Plan your work. Every time you change the bevel or mitre angle setting, make sure the adjustable fence is set correctly to support the workpiece and will not interfere with the blade or the guarding system.** Without turning the tool "ON" and with no workpiece on the table, move the saw blade through a complete simulated cut to assure there will be no interference or danger of cutting the fence.
- **Provide adequate support such as table extensions, saw horses, etc. for a workpiece that is wider or longer than the table top.** Workpieces longer or wider than the mitre saw table can tip if not securely



supported. If the cut-off piece or workpiece tips, it can lift the lower guard or be thrown by the spinning blade.

- **Do not use another person as a substitute for a table extension or as additional support.** Unstable support for the workpiece can cause the blade to bind or the workpiece to shift during the cutting operation pulling you and the helper into the spinning blade.
- **The cut-off piece must not be jammed or pressed by any means against the spinning saw blade.** If confined, i.e. using length stops, the cut-off piece could get wedged against the blade and thrown violently.
- **Always use a clamp or a fixture designed to properly support round material such as rods or tubing.** Rods have a tendency to roll while being cut, causing the blade to "bite" and pull the work with your hand into the blade.
- **Let the blade reach full speed before contacting the workpiece.** This will reduce the risk of the workpiece being thrown.
- **If the workpiece or blade becomes jammed, turn the mitre saw off. Wait for all moving parts to stop and disconnect the plug from the power source and/ or remove the battery pack. Then work to free the jammed material.** Continued sawing with a jammed workpiece could cause loss of control or damage to the mitre saw.
- **After finishing the cut, release the switch, hold the saw head down and wait for the blade to stop before removing the cut-off piece.** Reaching with your hand near the coasting blade is dangerous.
- **Hold the handle firmly when making an incomplete cut or when releasing the switch before the saw head is completely in the down position.** The braking action of the saw may cause the saw head to be suddenly pulled downward, causing a risk of injury.

### SAFETY INSTRUCTIONS FOR WOOD CUTTING BLADE

- Please read the manual and instructions carefully before using the saw blade and the machine.
- The machine must be in good condition, the spindle without deformation and vibration.
- Do not use the saw without the guards in position, keep guards in good working order and properly maintained.
- Ensure the operator is adequately trained in safety precautions, adjustment and operation of the machine.
- Always wear goggles and ear protection when using the machine. It is recommended to wear gloves, sturdy non slipping shoes and apron.
- Before using any accessory, consult the instruction manual. The improper use of an accessory can cause damage and increase the potential for injury.
- Use only blades specified in this manual, complying with EN 847-1.
- Observe the maximum speed marked on the saw blade. Ensure the speed marked on the saw blade is at least equal to the speed marked on the saw.

- Always use blades with correct size and shape of arbor holes. Blades that do not match the mounting hardware of the saw will run eccentrically, causing loss of control.
- Do not use blades of larger or smaller diameter than recommended. Do not use any spacers to make the blade fit onto the spindle.
- Check the tips of the saw blade for damage or abnormal appearance before each use. Tips that are damaged or loose can become flying objects in use and increase the chance of personal injury.
- Do not use cracked or distorted saw blades. Do not use saw blades that are damaged or deformed.
- Scrap the saw blade if damaged, deformed, distorted or cracked, repairing is not permitted.
- Do not use HSS blades.
- Ensure the saw blade is mounted correctly, tighten the arbor nut securely before use (tightening torque approx. 12-15 Nm).
- Fastening screw and nuts shall be tightened using the appropriate spanner, etc.
- Extension of the spanner or tightening using hammer blows is not permitted.
- Make sure the blade and flanges are clean and the recessed sides of the collar are against the blade.
- Make sure the blade rotates in the correct direction.
- Before work, make a dummy cut without the motor turned on so the position of the blade, operation of the guards with respect to other machine parts and work piece may be checked.
- Never leave the machine unattended.
- Do not apply lubricants on the blade when it is running.
- Never perform any cleaning or maintenance work when the machine is still running and the head is not in the rest position.
- Never attempt to stop a machine in motion rapidly by jamming a tool or other means against the blade, serious accidents can be caused unintentionally in this way.
- Disconnect the saw from the mains supply before changing blades or carrying out maintenance.
- Pay attention to blade packing and unpacking, it is easy to be injured by the sharp blade tips.
- Use a blade holder or wear gloves when handling a saw blade.
- Keep and store the blade in original packaging or other suitable packaging, keep in dry conditions and away from chemicals which may damage the blade.

### ADDITIONAL SAFETY WARNINGS FOR MITRE SAWS

- Always clamp the work piece safely and securely.
- Ensure that the machine is always stable and secure (e.g., fixed to a bench).
- Always wear ear protectors. Exposure to noise can



cause hearing loss.

- Always wear safety goggles when using the machine. It is recommended to wear gloves for handling blades and rough material, plus sturdy non slip shoes to protect the feet from work pieces which may fall from the cutting area.
- Always disconnect the plug from the socket before carrying out any maintenance or cleaning the tool.
- Only plug the power lead into the socket when the tool is switched off.
- Keep the mains lead clear from the working range of the machine. Keep it out of the area the operator stands in.
- Never reach into the area near the blade unless the blade has completely stopped.
- Before use, thoroughly check the tool, cable, and plug for any damage or material fatigue. Repairs to the whole machine, including the power cable should only be carried out by authorised service agents.
- Always use the guards on the machine. Do not use the machine if the guards are not in place and working correctly.
- The lower blade guard should only open when the blade is lowered to the work piece.
- Never alter or modify the saw or its function. Your safety may be compromised.
- Do not use saw blades which are cracked, damaged or deformed.
- Do not use saw blades made of high-speed steel.
- Only use blades that are sharp. Replace dull blades.
- Always use blades with correct size and shape of arbour holes. Blades that do not match the mounting hardware of the saw will run eccentrically, causing loss of control.
- Use only woodworking blades specified in this manual, which comply with EN 847-1.
- Do not use any flanges, washers and nuts to secure the saw blade other than those supplied or indicated in the instruction manual.
- It is necessary to select a saw blade which is suitable for the material being cut. Never use the mitre saw to cut materials other than those specified in the intended use section in this manual.
- It is important to avoid overheating the blade and melting the plastic when cutting.
- It is essential to adhere to the maximum speed specified on the saw blade, only use saw blade that are marked with a speed equal or higher than the speed marked on the tool.
- Replace the table insert when worn or damaged.
- Before work, make a dummy cut without the motor turned on so the position of the blade, operation of the guards with respect to other machine parts, and work piece may be checked.
- When performing mitre, bevel or compound mitre cuts,

adjust the sliding fence or sub-fence to ensure the correct clearance from the blade.

- The handle lock must always be engaged when transporting the mitre saw.
- Keep the floor area free of loose materials, such as chips and cut-offs.
- Refrain from removing any cut-offs or other parts of the work piece from the cutting area whilst the machine is running and the saw head is not in the rest position.
- Long work pieces must be adequately supported. The working area of the saw includes the whole extent of the work piece. The operator should secure this area from accidental contact from other persons or objects which may move the work piece during operation.
- The dust produced when using this tool may be harmful to health. Use a dust suction system and wear a suitable dust protection mask. Remove deposited dust thoroughly with a vacuum cleaner.
- The unit should be connected to a power circuit protection device (fuse or circuit breaker).
- It is recommended that the tool always be supplied via a residual current device having a rated residual current of 30mA or less.
- Do not replace the laser or LED with a different type. Any repairs must only be carried out by the manufacturer or authorised service agent.
- When using this tool, voltage fluctuations may affect other electrical products or lighting on the same power circuit. Connect the tool to a power source with an impedance equal to 0.095Ω to minimize voltage fluctuations. Contact your electric power supplier for further clarification.

## 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:

- risk of contact with uncovered parts of the rotating saw blade
  - kick-back of work pieces or parts of work pieces due to improper adjustment or handling
  - catapulting of faulty carbide tips from the saw blade
  - damage to the respiratory system
- NOTE:** 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.
- damage to hearing if effective hearing protection is not worn.





## ⚠ WARNING

Dust from certain paints, coatings and materials may cause irritation or allergic reactions to the respiratory system. Dust from wood such as oak, beech, MDF and others are carcinogenic. Material containing asbestos should only ever be worked or processed by qualified specialist operators.

## ⚠ WARNING

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

## KNOW YOUR PRODUCT

See page 8.

1. Handle
2. Power switch
3. Safety lock handle
4. Upper guard
5. Lower guard
6. Saw blade
7. Main fence
8. Sub-fence
9. Turntable
10. Mitre scale
11. Table insert
12. Base
13. Dust bag
14. Link plate
15. Lower blade guard cover
16. Bevel angle lock knob
17. Screw for left bevel angle adjustment
18. Rear anti-tip arm/carrying handle
19. Clamp
20. Mounting hole
21. Extension bar
22. Bevel scale
23. Bracket stop
24. Switchover lever
25. Screw for right bevel angle adjustment
26. Screws for fixing mitre fence

## MAINTENANCE

- Do not modify the product in any way or use accessories not approved by the manufacturer. Your safety and that of others may be compromised.
- Do not use the product if any switches, guards or other functions does not work as intended. Return to an authorised service centre for professional repair or adjustment.
- Do not make any adjustments whilst the saw blade is in motion.
- Always make sure the power plug has been

removed from the mains power source before making adjustments, lubricating or when doing any maintenance on the product.

- Before and after each use, check the product for damage or broken parts. Keep the product in top working condition by immediately replacing parts with spares approved by the manufacturer.
- The blade has sharp edges and may also remain hot after cutting operations. Exercise extreme caution when cleaning an exposed blade. Wear gloves to protect yourself from personal injury.
- Clean the saw and its accessories from dust regularly, especially moving parts including the blade guard. Use a hand brush or vacuum cleaner to remove dust effectively. Do not use compressed air.
- To assure safety and reliability, all repairs, including changing brushes, should be performed by an authorised service centre.
- If the power supply cord is damaged, it must be replaced only by the manufacturer or by an authorized service centre to prevent damage to the saw or risk of electrocution.

## ⚠ WARNING

Do not attempt to disassemble the blade guard assembly for cleaning or repair. Damaged guards should not be used. Return to an authorised service centre for repair or replacement.

## ⚠ WARNING

For greater safety and reliability, all repairs should be performed by an Authorised Ryobi Service Centre.

## ENVIRONMENTAL PROTECTION



Recycle raw materials instead of disposing of as waste. The machine, accessories and packaging should be sorted for environmental-friendly recycling.

## SYMBOL



Safety alert



Regulatory Compliance Mark (RCM). Product meets applicable regulatory requirements.



Please read the instructions carefully before starting the machine.



Class II tool, double insulation



## Safety



Wear ear protection



Always wear eye protection.



Keep hands away from the cutting area and sharp blade.



Wear safety gloves



Blade rotation direction (shown on saw blade)



Blade rotation direction (shown on blade guard)



Blade width of cut (Kerf)



Number of teeth on this saw blade



For cutting wood and analogous material



Not for cutting metals



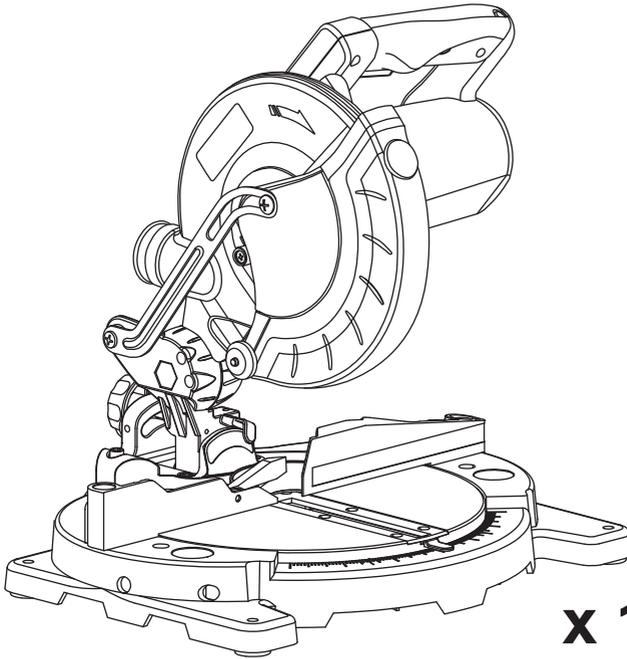
Cutting capacity



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.



# Unpacking



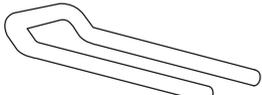
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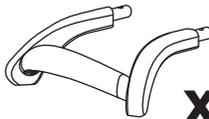
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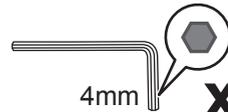
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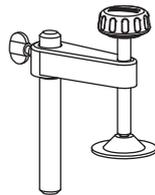


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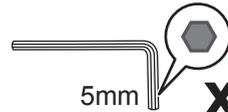
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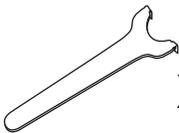


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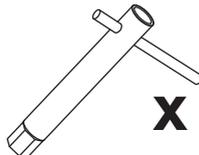


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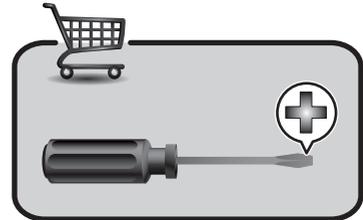
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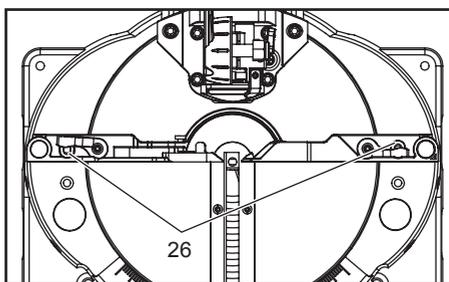
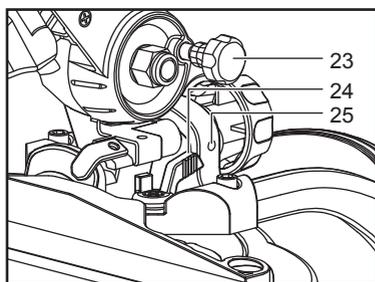
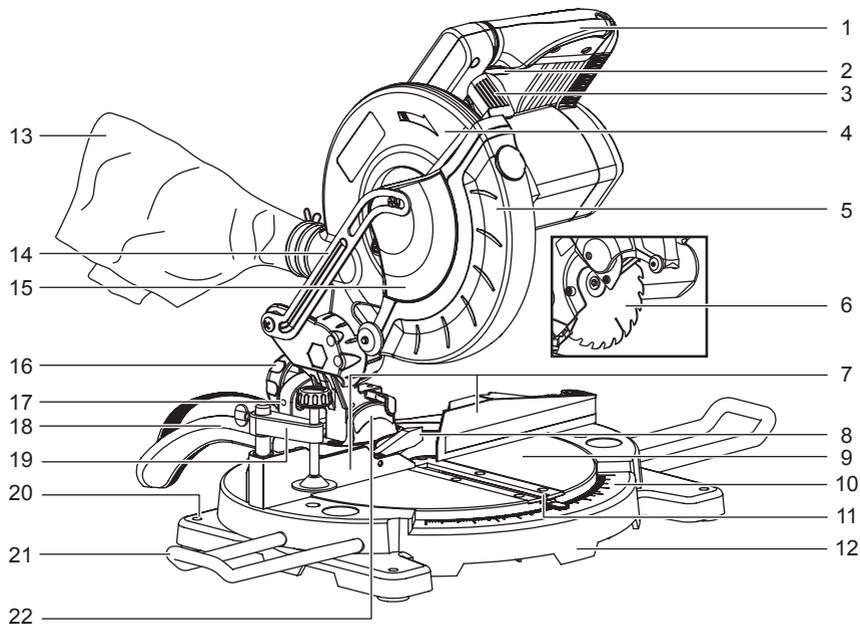


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# Know your product



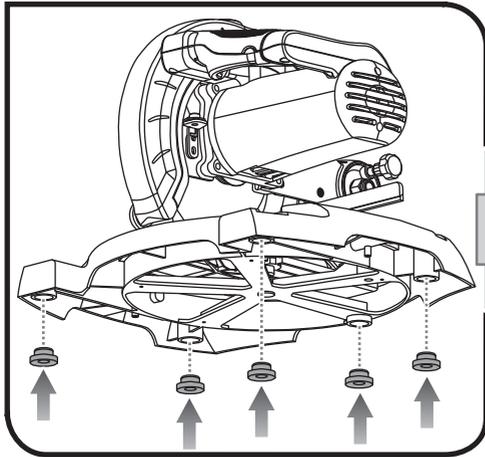


Getting started

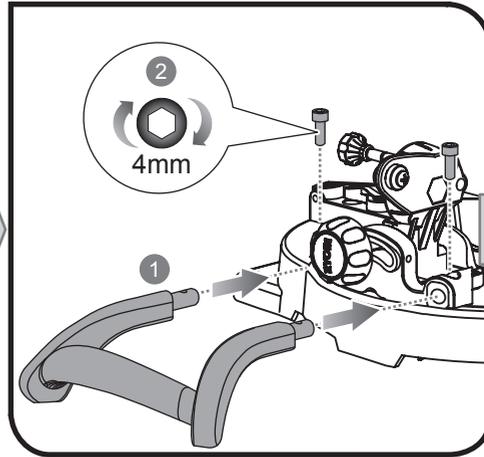


Getting started

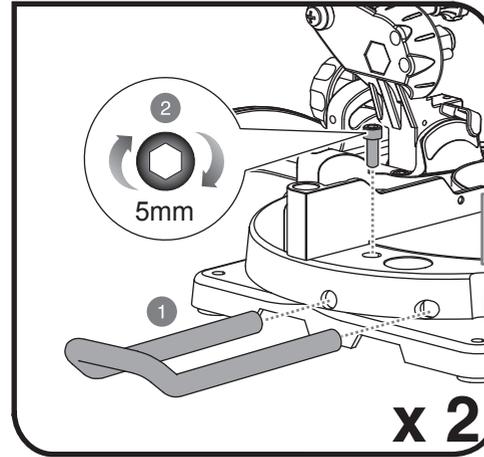
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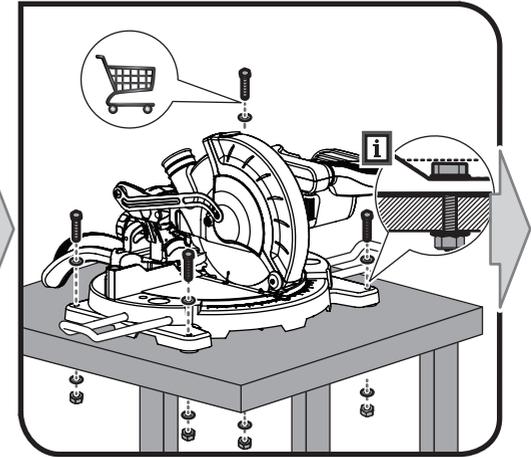
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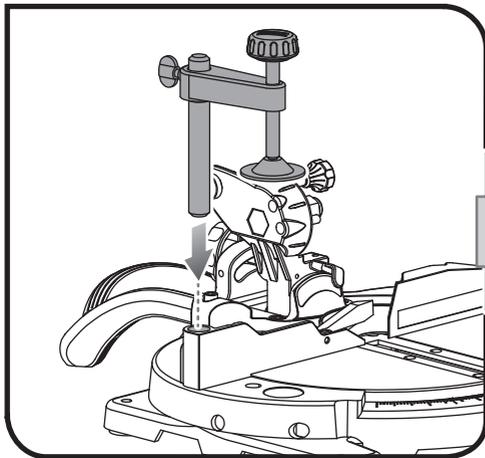
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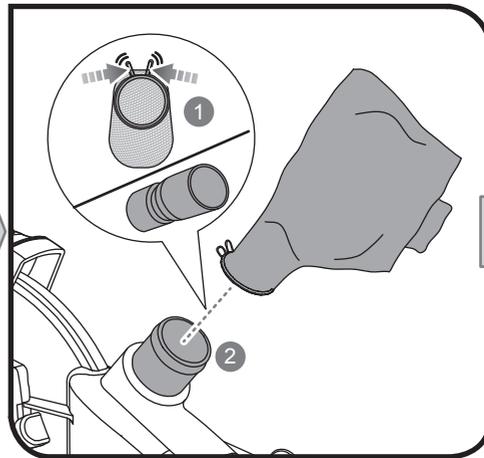
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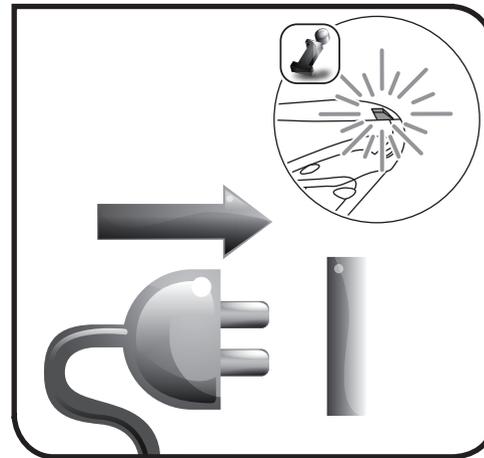
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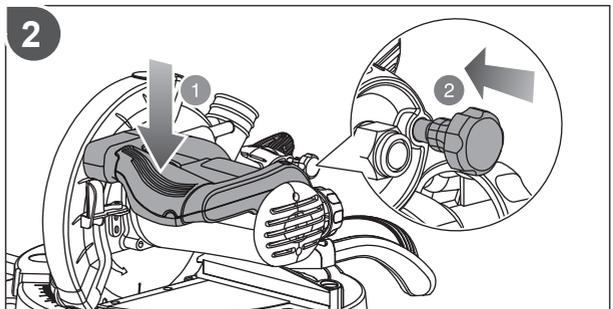
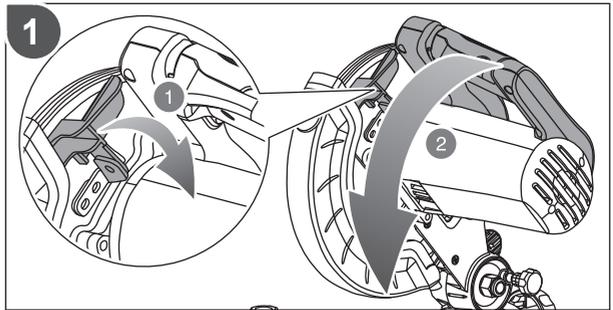
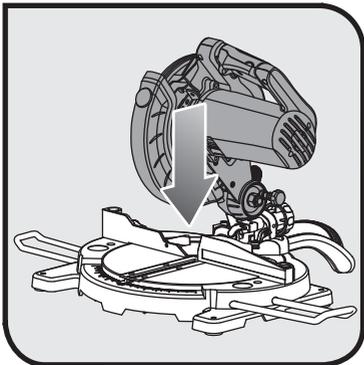
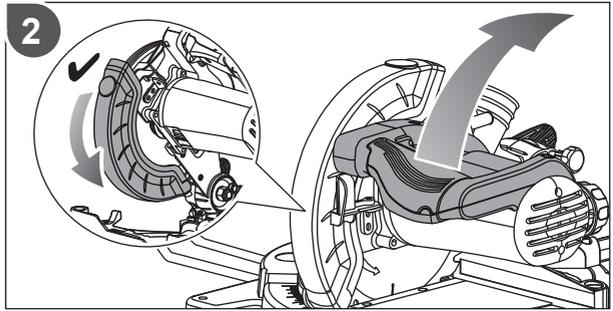
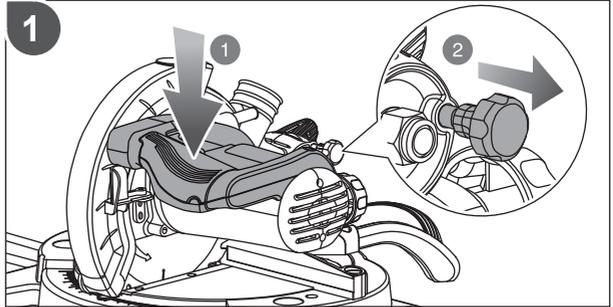
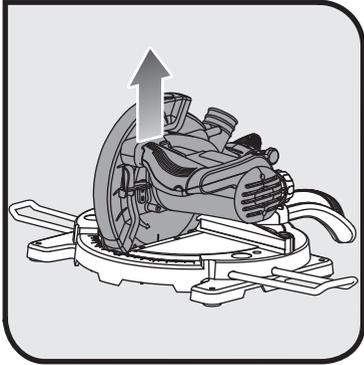
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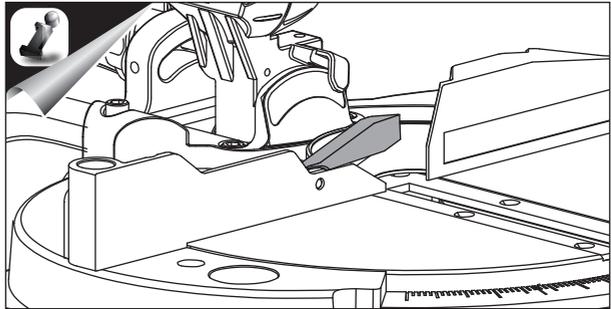
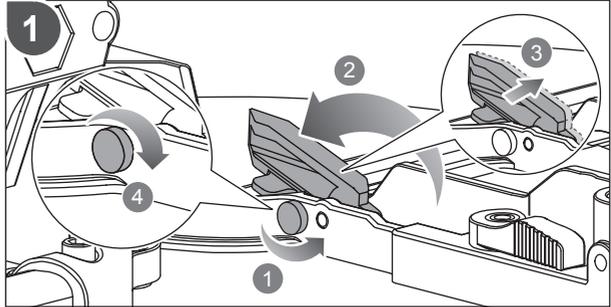
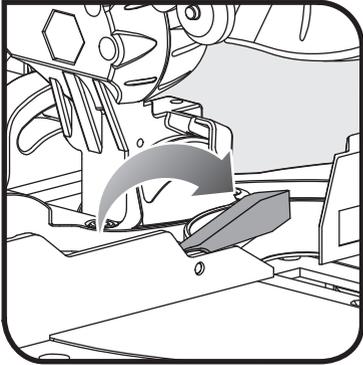


# Operation



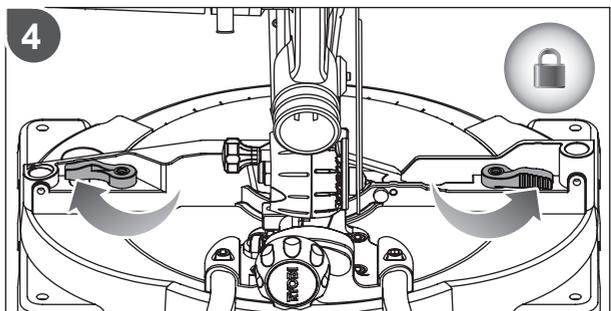
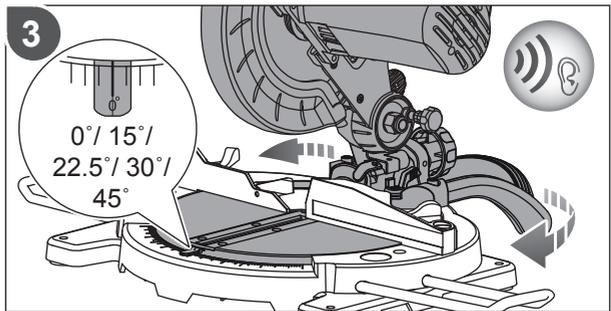
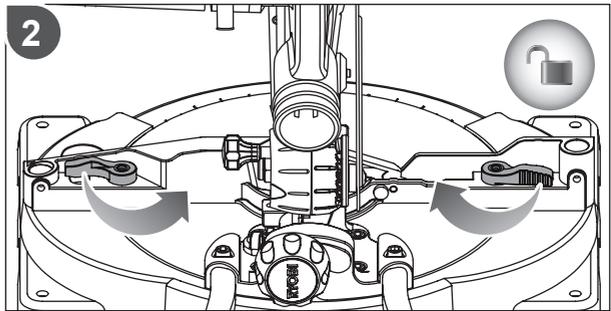
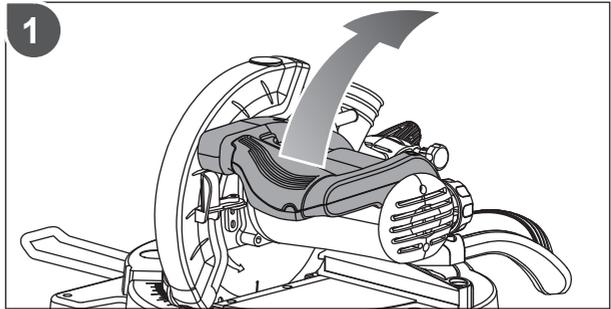
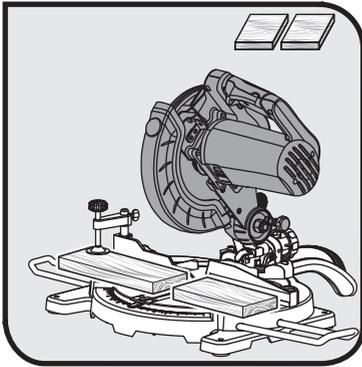


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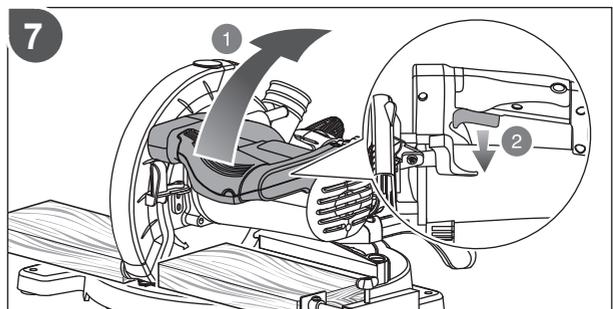
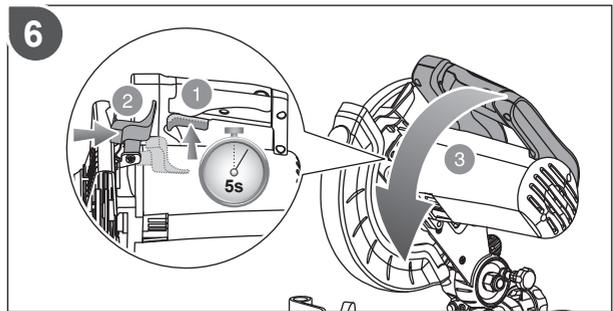
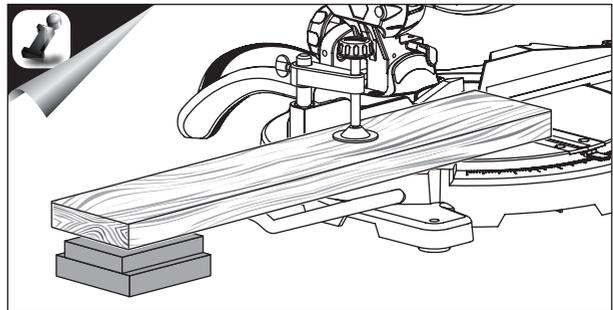
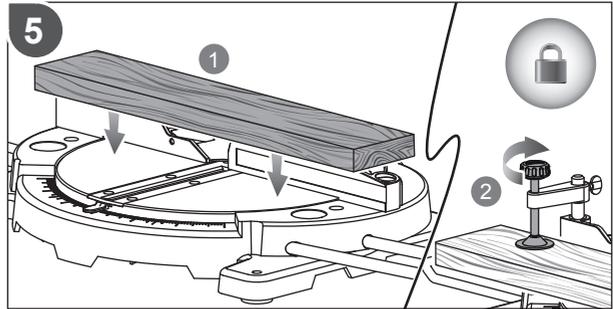


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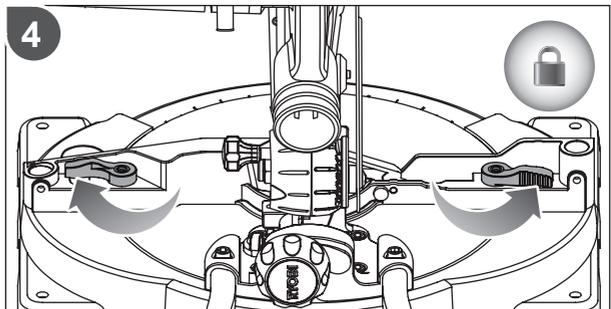
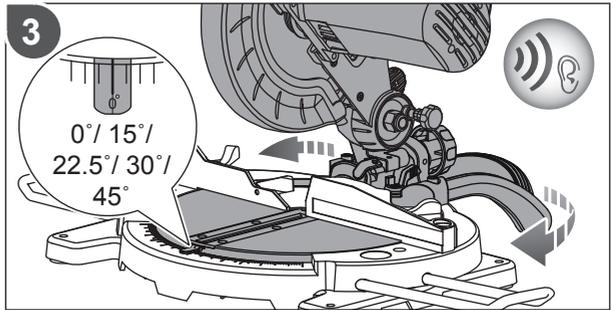
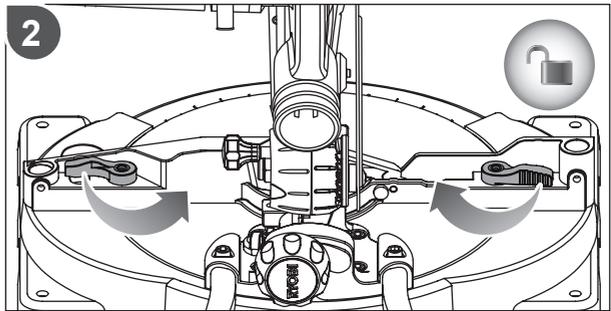
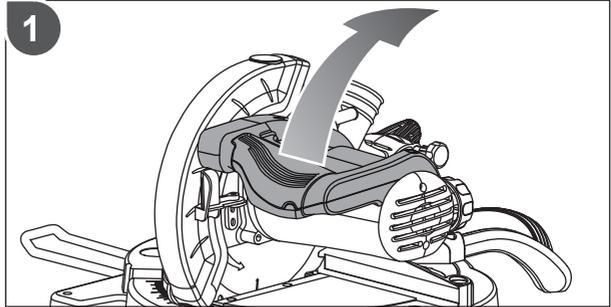
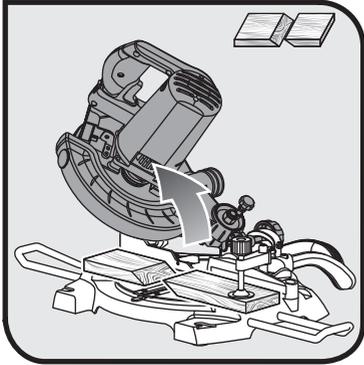


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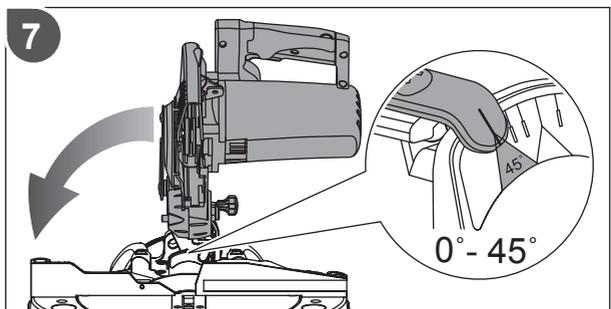
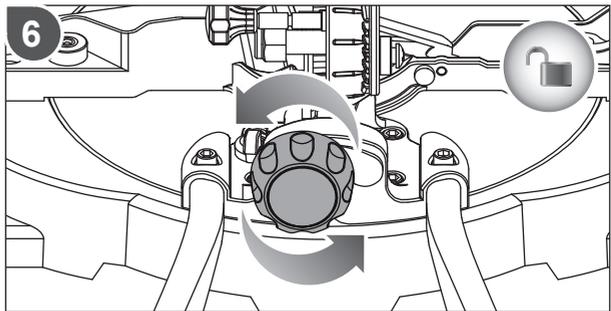
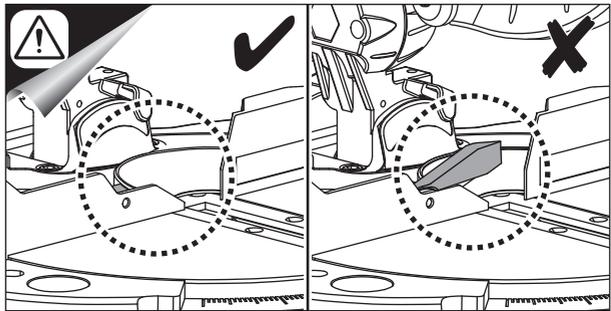
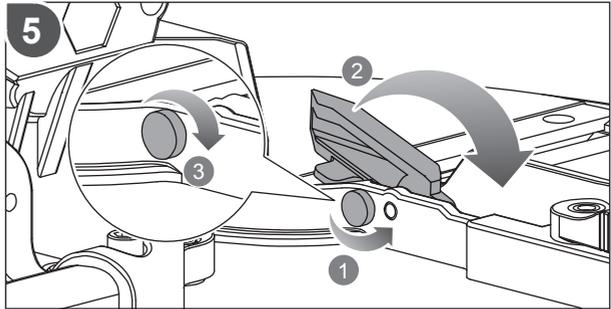


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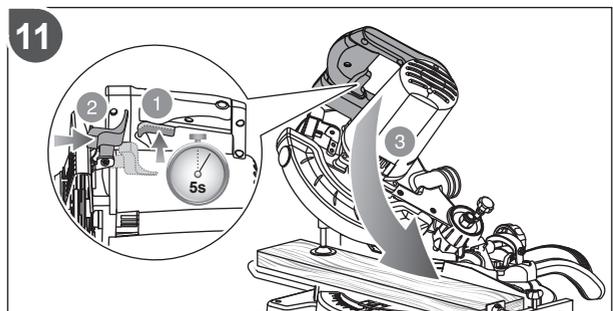
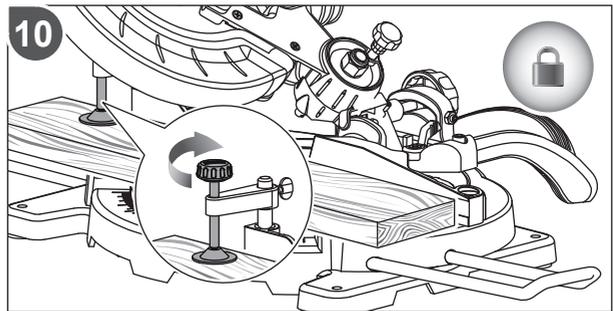
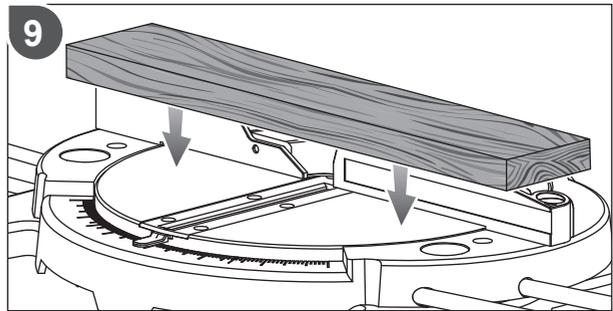
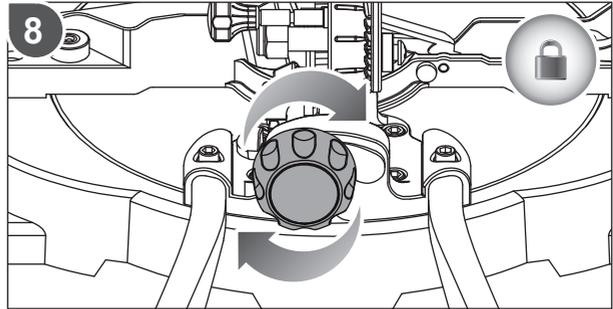


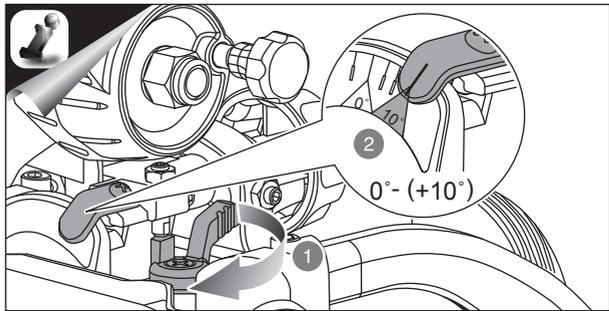
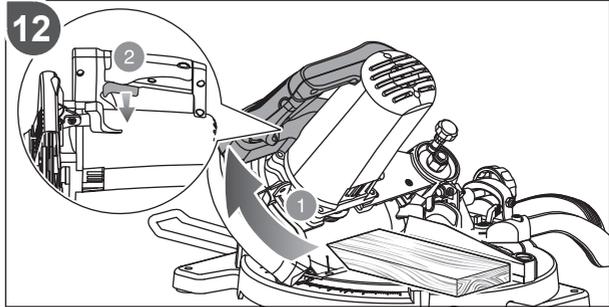
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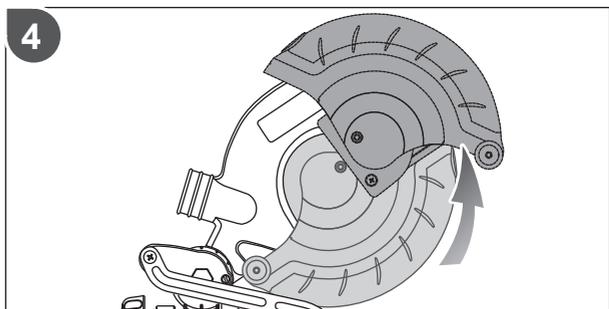
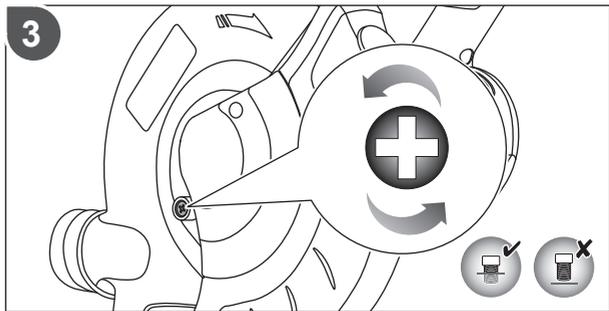
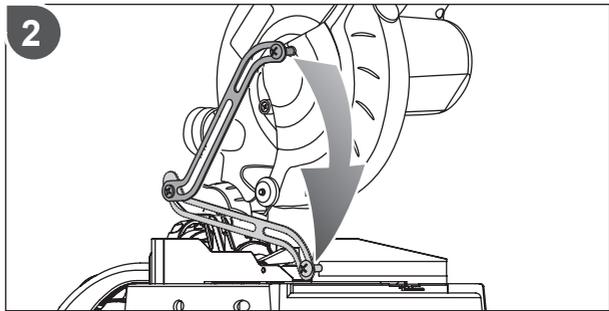
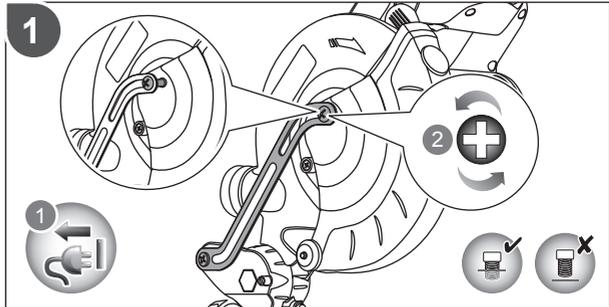
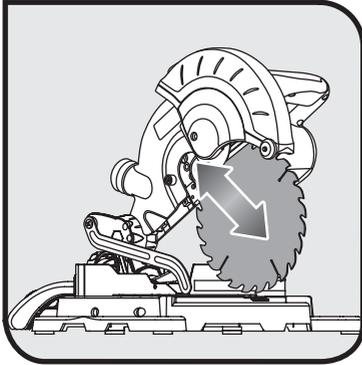
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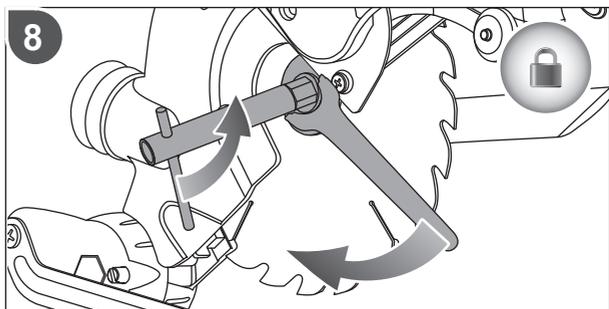
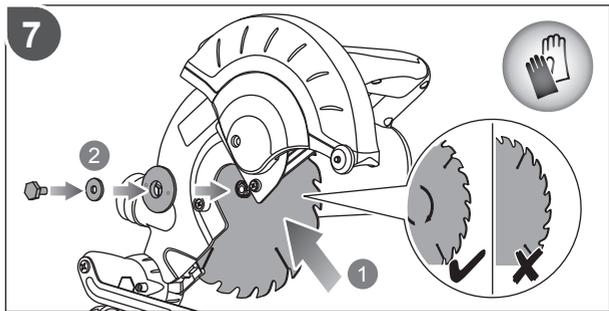
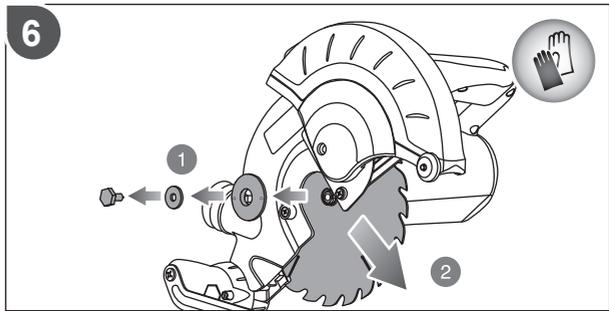
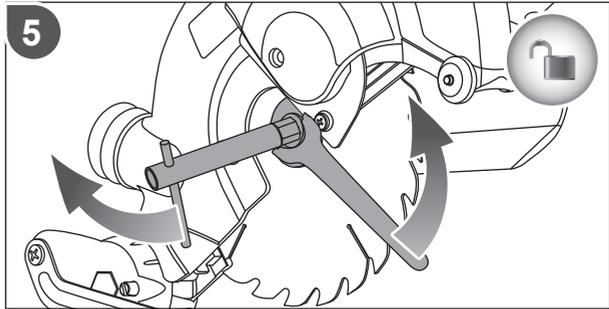


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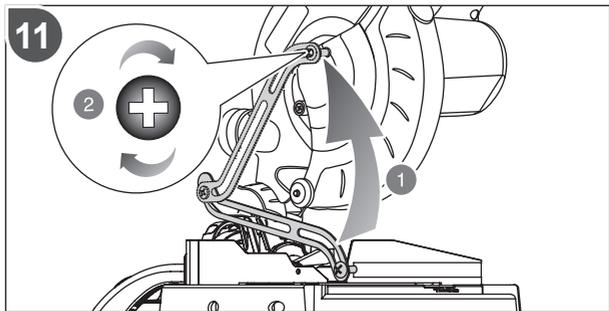
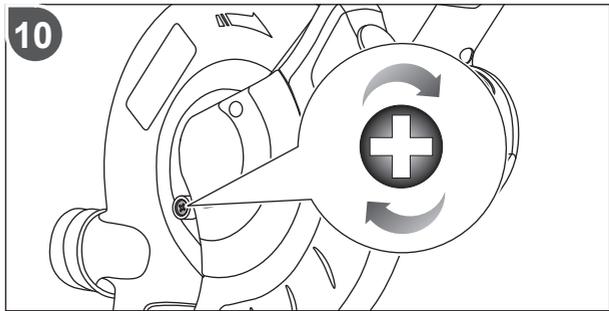
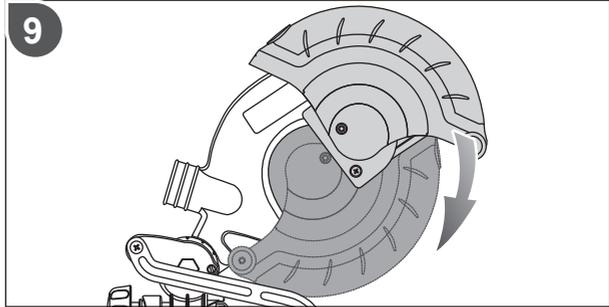


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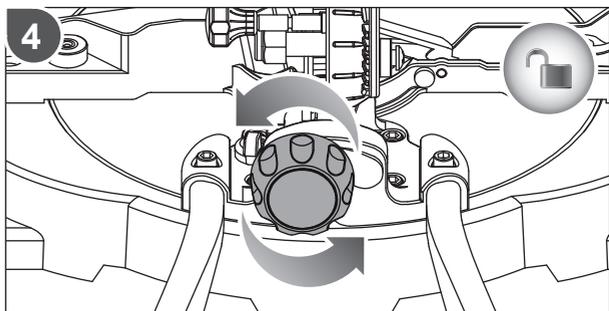
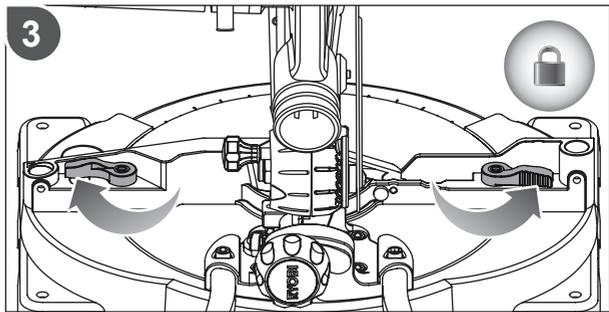
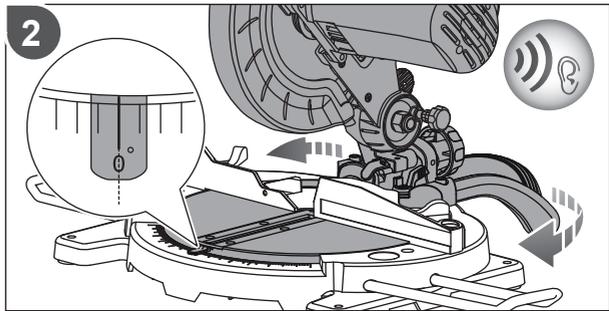
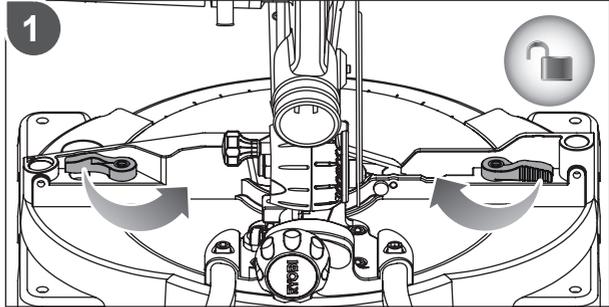
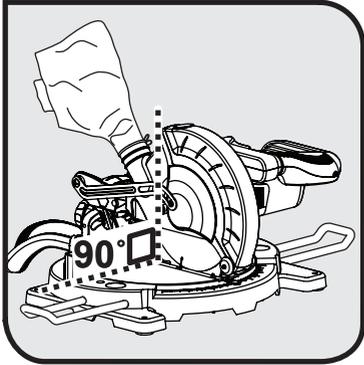


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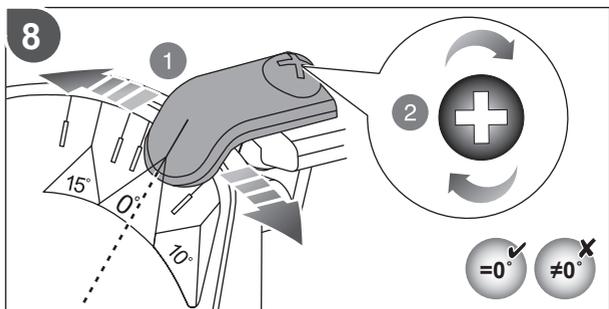
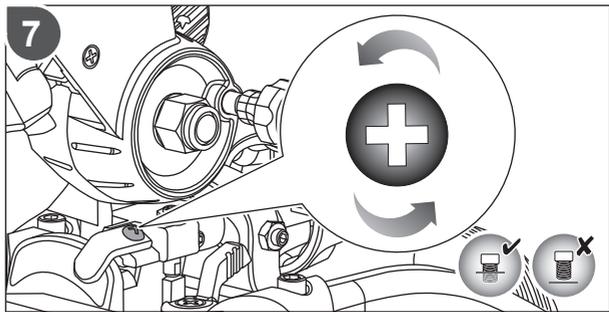
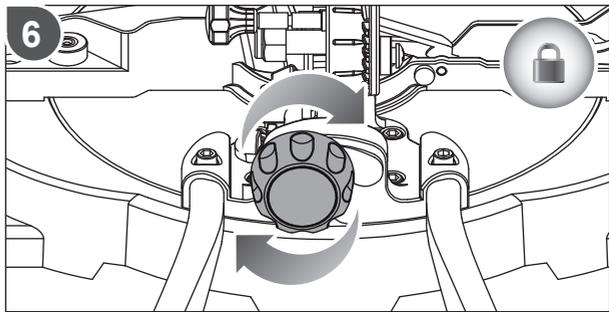
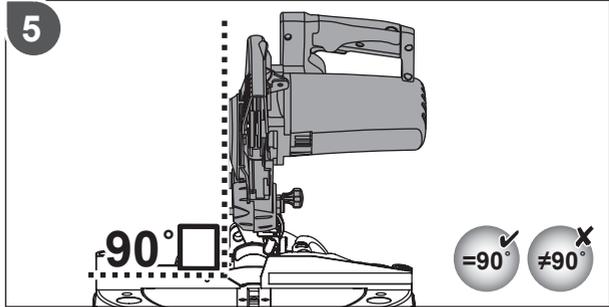


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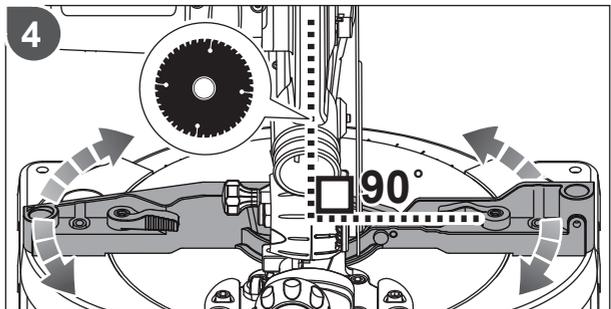
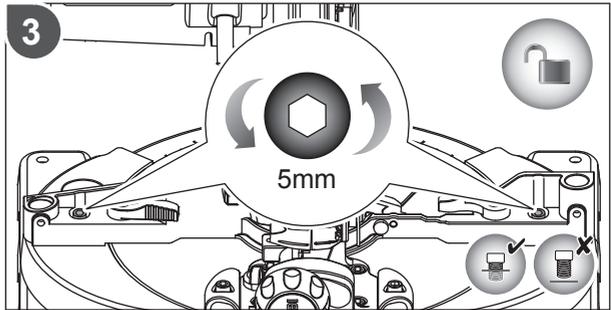
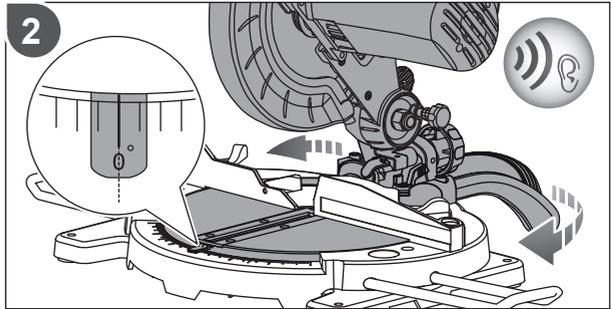
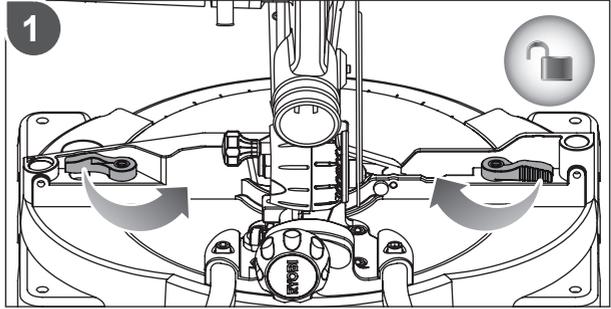
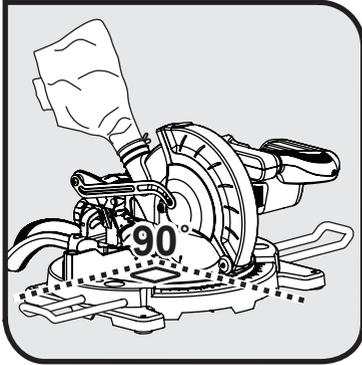


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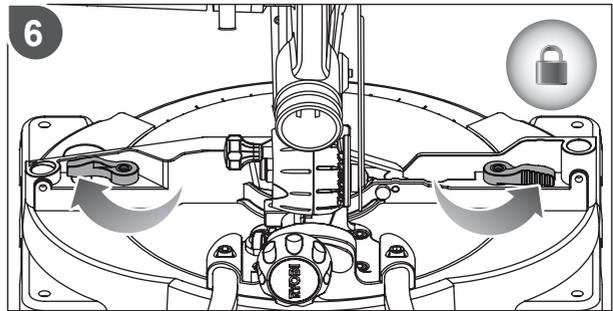
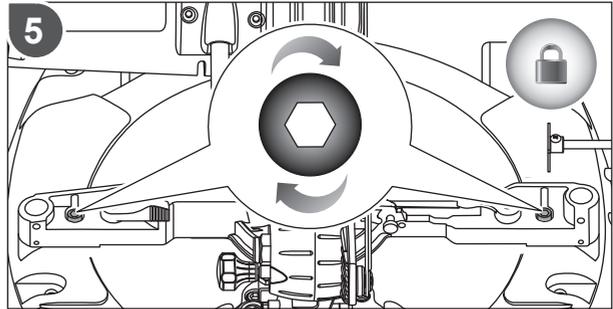


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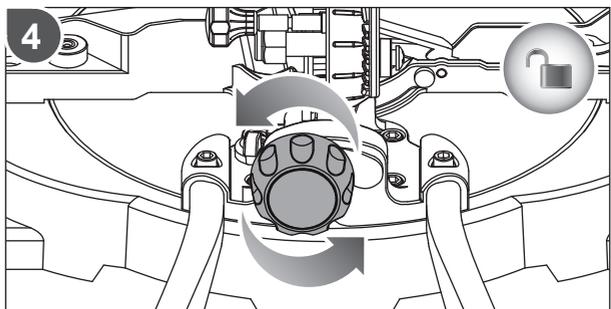
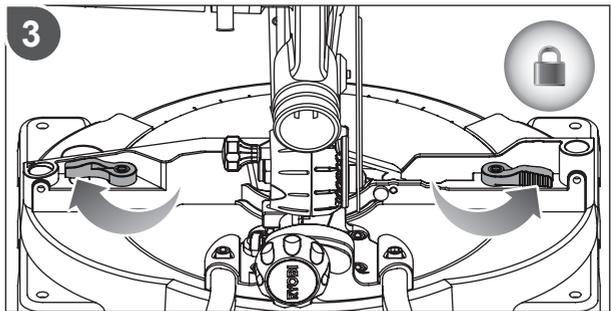
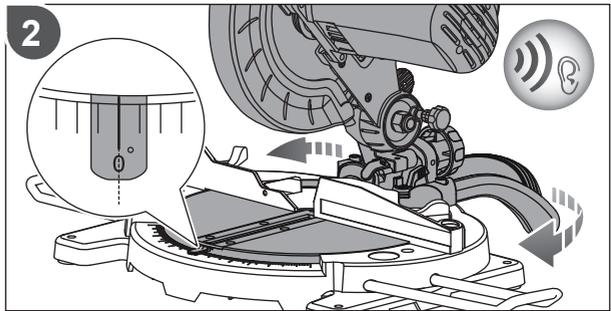
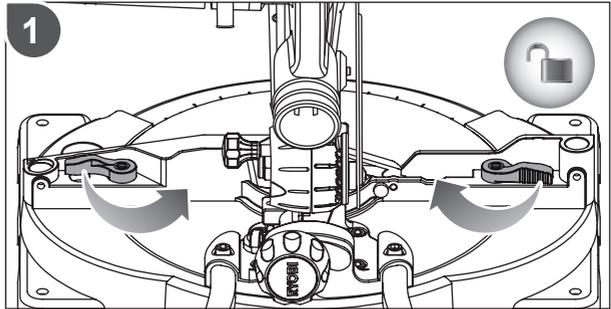
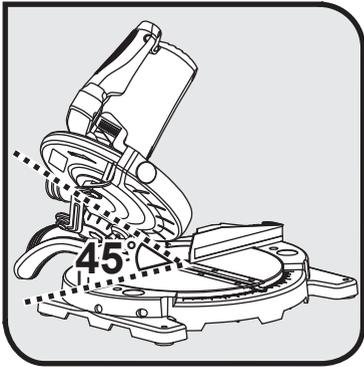


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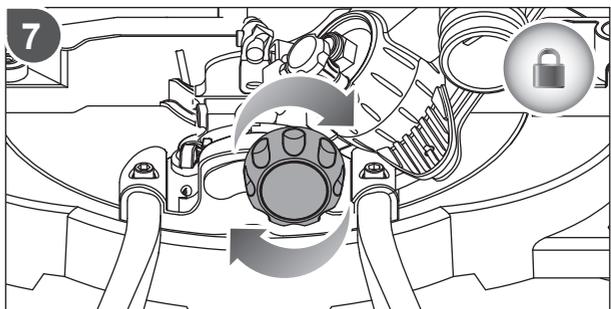
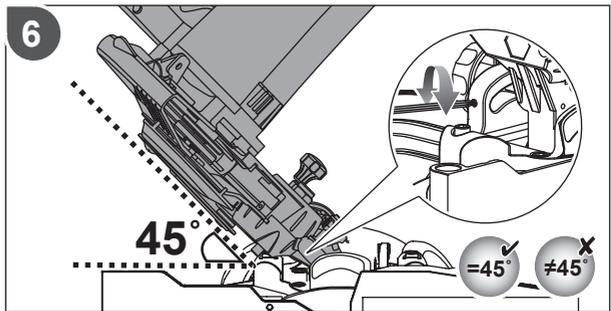
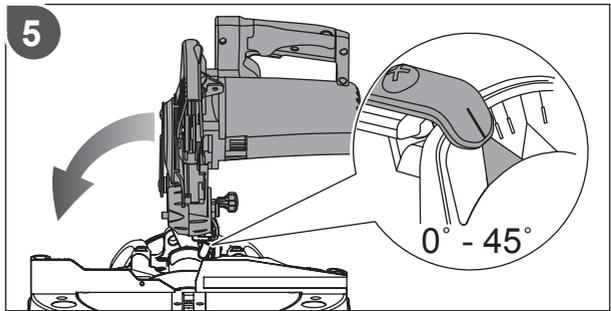
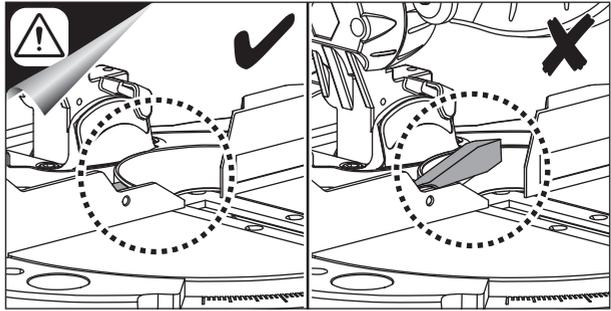


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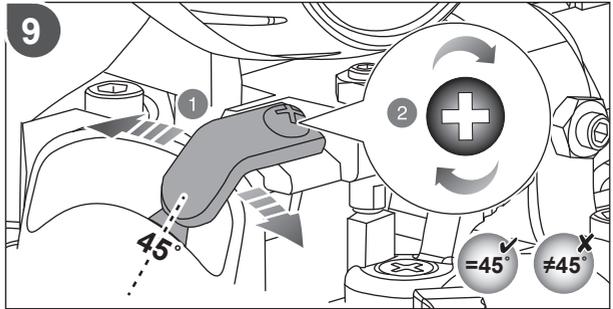
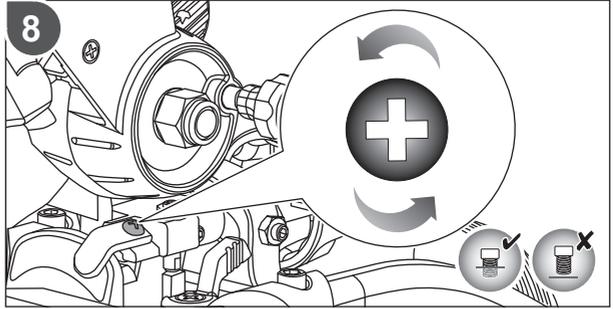


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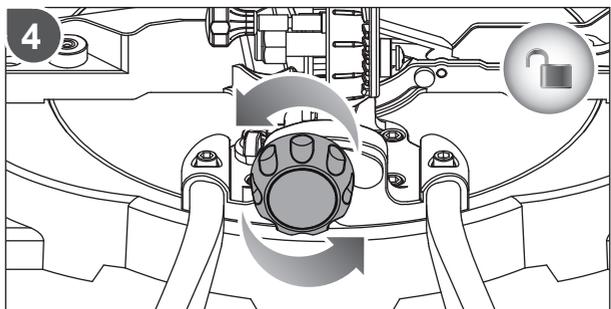
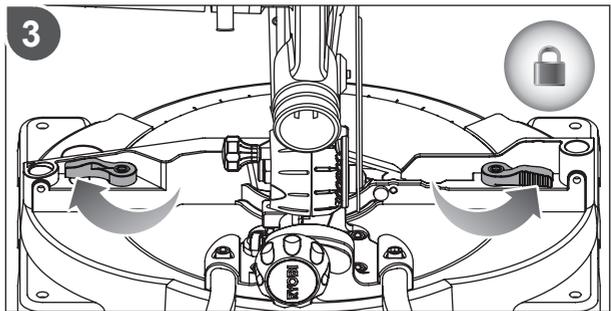
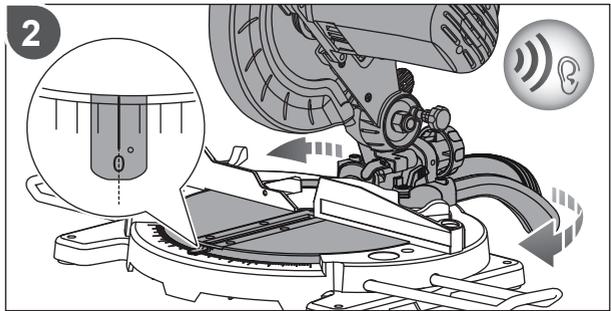
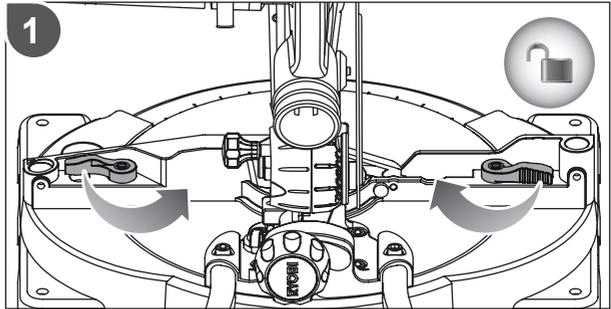
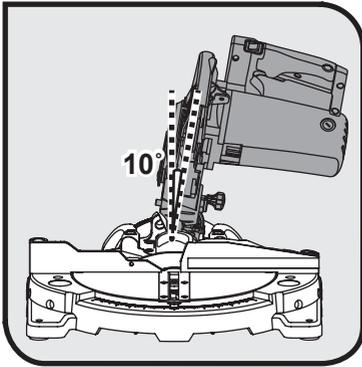


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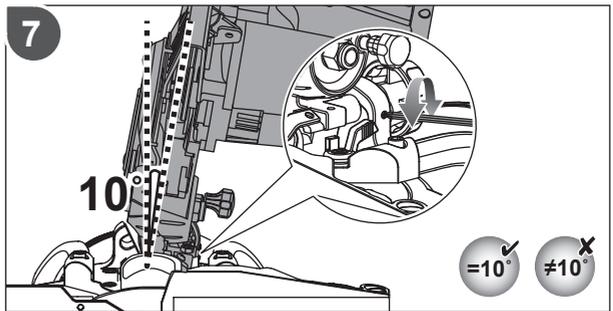
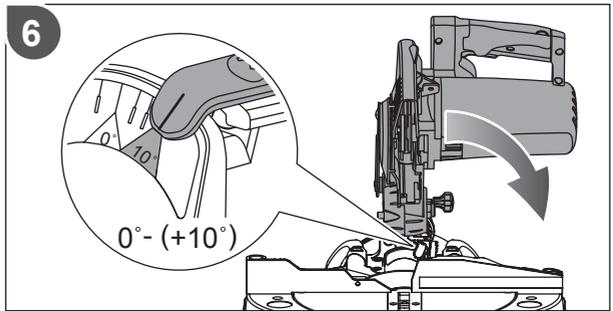
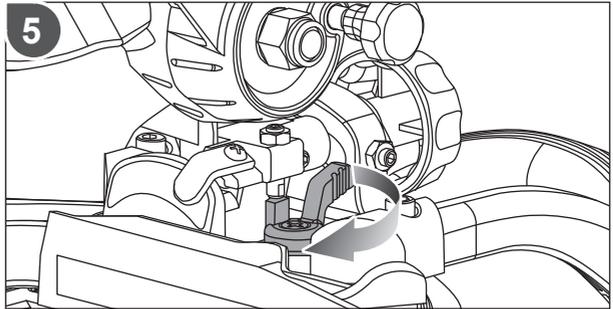


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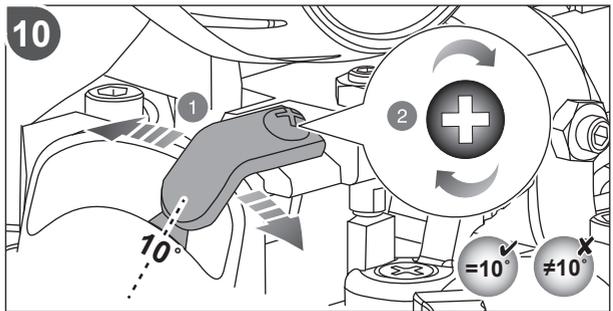
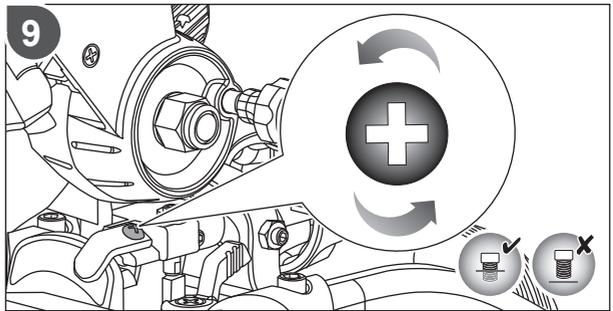
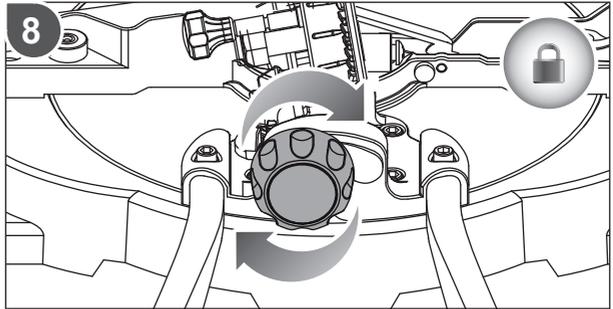


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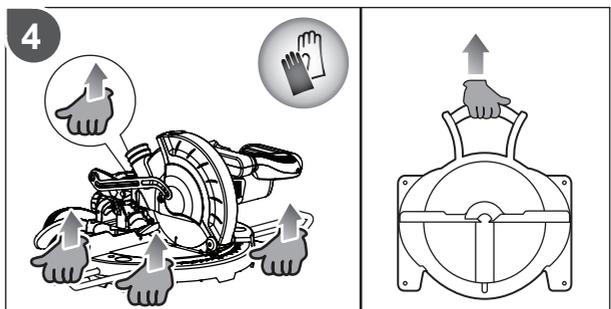
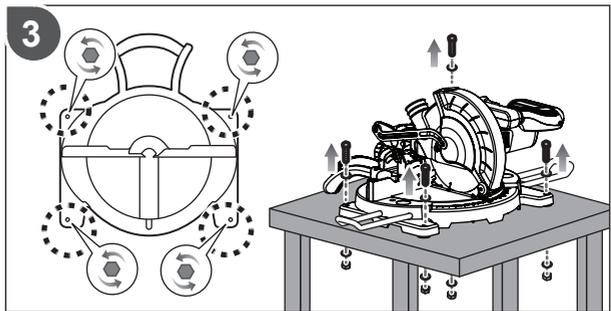
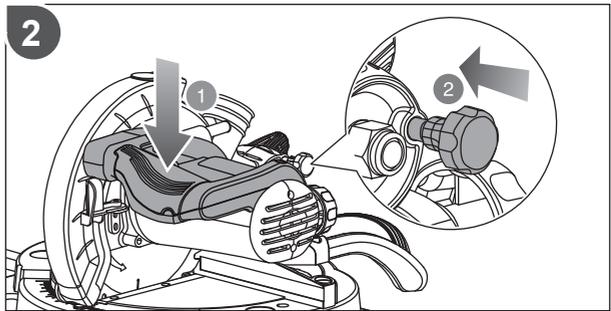
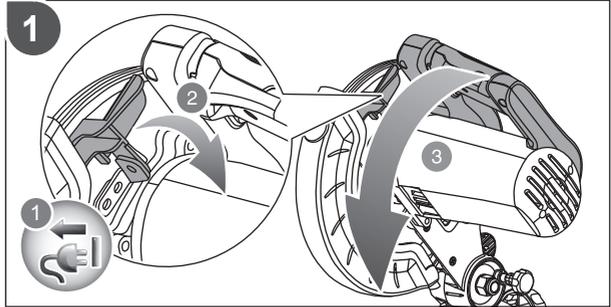
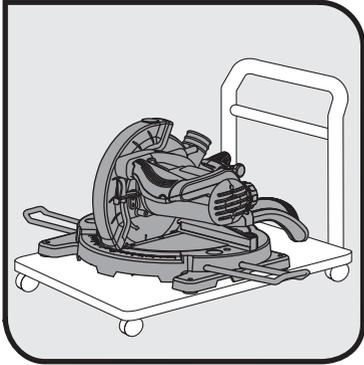


# Maintenance





# Maintenance



20170524v4

## PRODUCT SPECIFICATIONS

Mitre saw

Model	EMS1221RG
Net weight	8.5 kg
Blade diameter	210 mm
Arbor hole	16 mm
Blade teeth	24
Width of cut	2.8 mm
No-load speed	5,000 min <sup>-1</sup> (RPM)
Input	240V ~ 50 Hz
Power	1,200 W

Cutting capacity:

Mitre 0° x bevel 0°	120 mm x 45 mm
Mitre 0° x bevel 45° (L)	115 mm x 22 mm
Mitre 0° x bevel 10° (R)	115 mm x 19 mm
Mitre 45° x bevel 0°	80 mm x 40 mm
Mitre 45° x bevel 45° (L)	80 mm x 22 mm
Mitre 45° x bevel 10° (R)	80 mm x 22 mm
Minimum workpiece dimensions	130 mm x 35 mm x 2.5 mm

Measured values determined according to EN62841

A-weighted sound pressure level	LpA = 95.35 dB(A)
Uncertainty K	3 dB(A)

Measured values determined according to EN62841

A-weighted sound power level	LWA = 108.35 dB(A)
Uncertainty K	3 dB(A)

Replacement parts

Saw blade	089100712850
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Melbourne, Australia

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