

Milwaukee[®]

Nothing but **HEAVY DUTY**.[®]

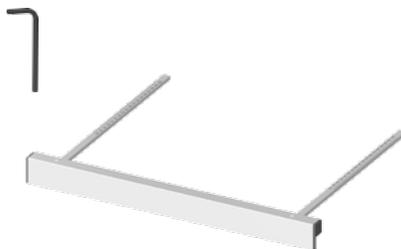


CS 85 CBE
CS 85 SB

Original instructions

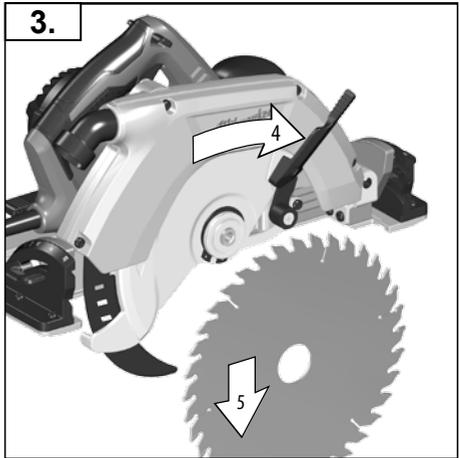
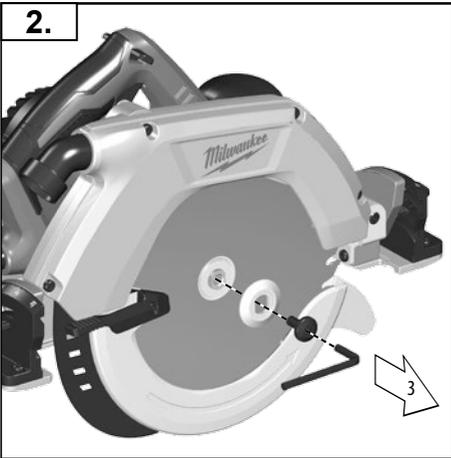
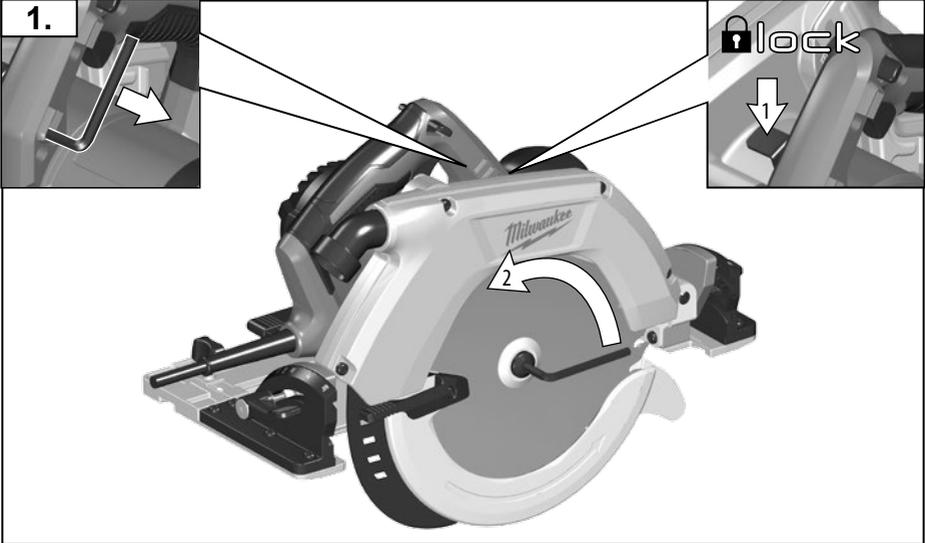
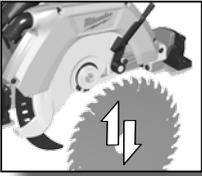


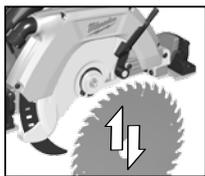
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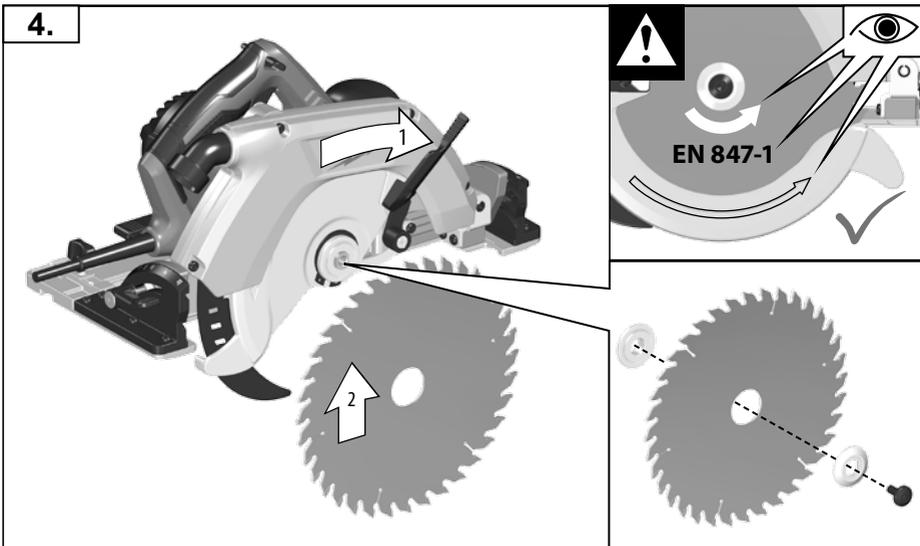
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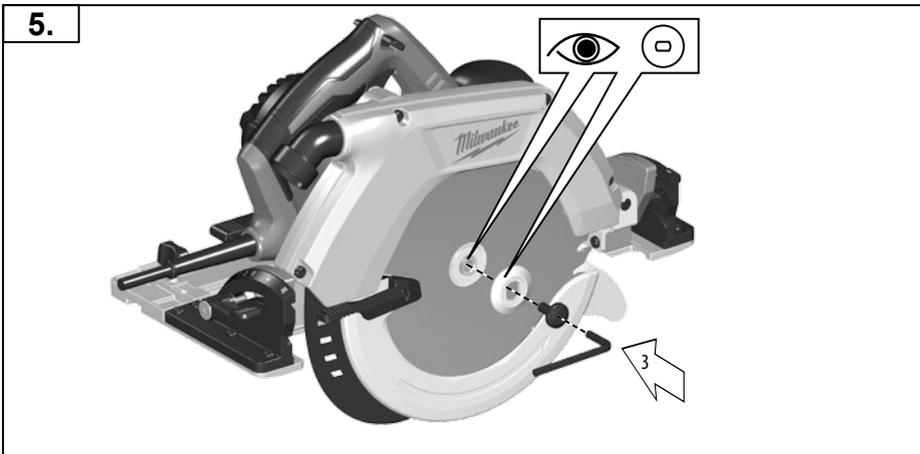


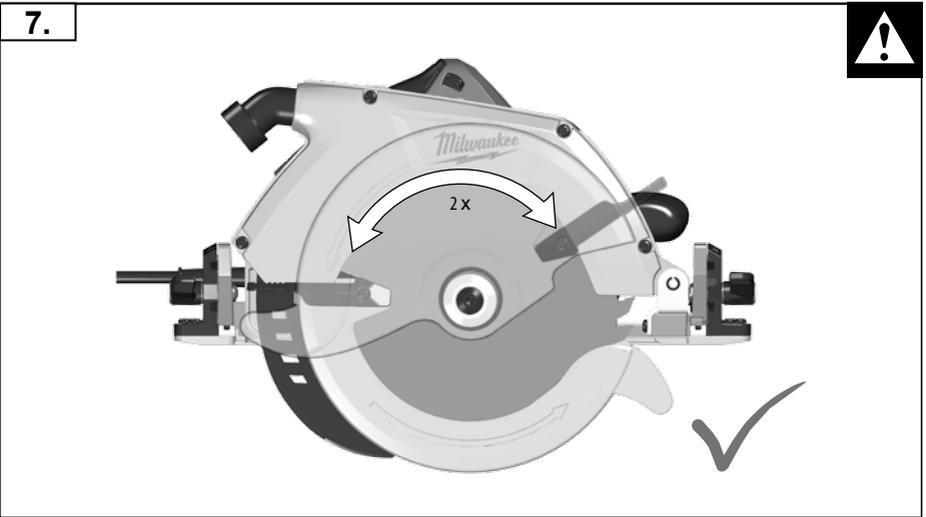
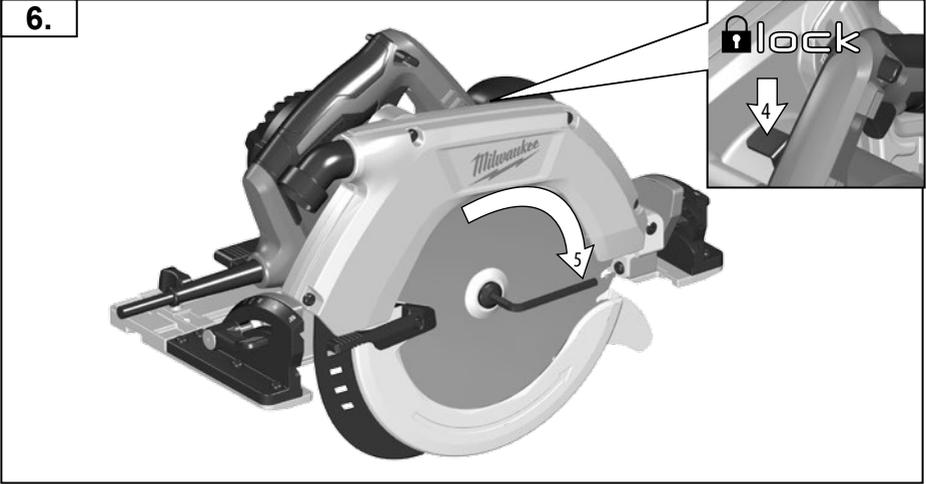
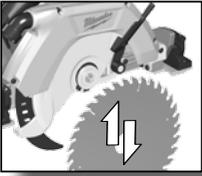


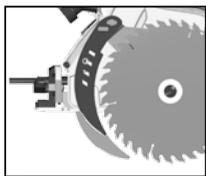
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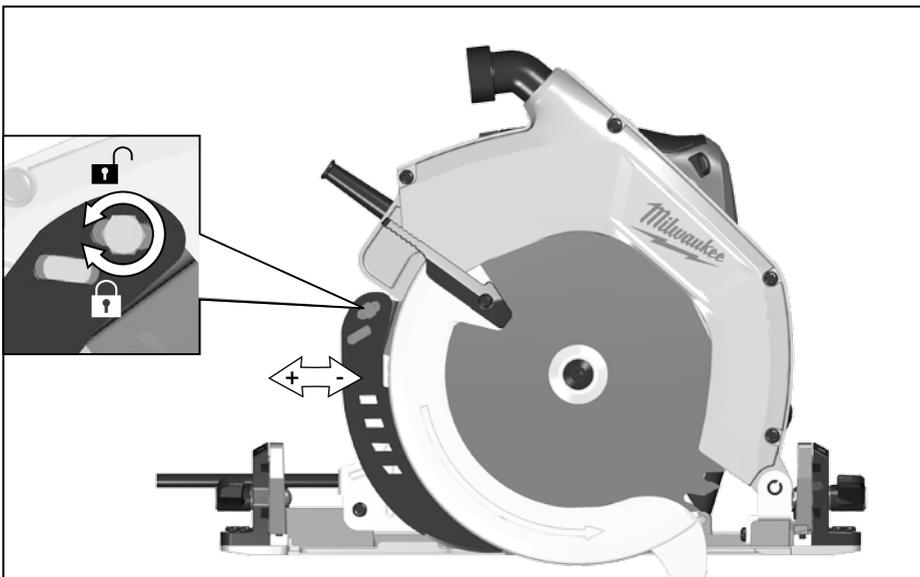
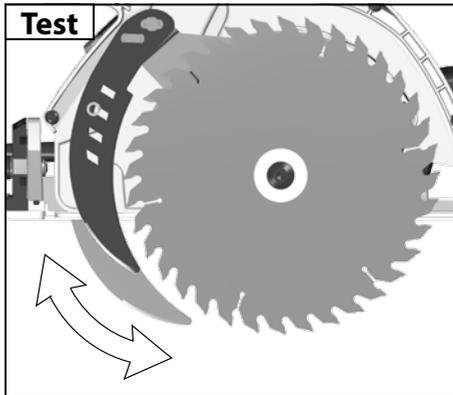
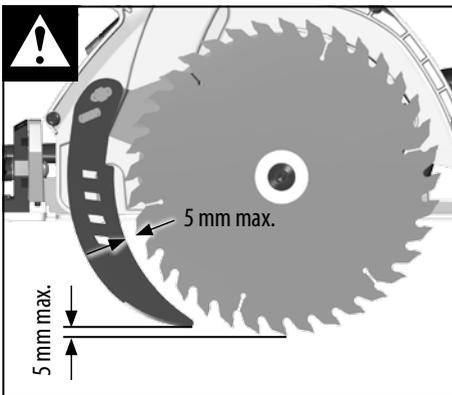
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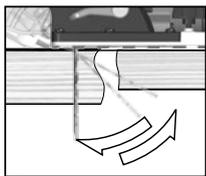


START
STOP

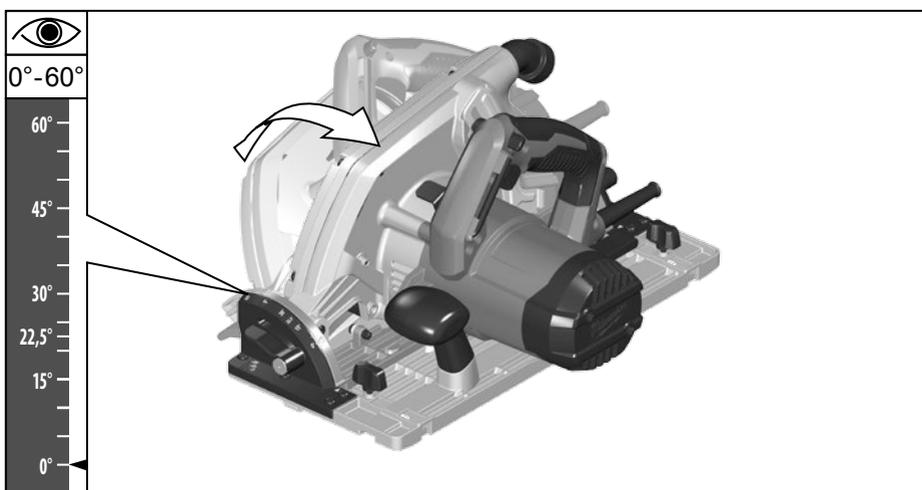
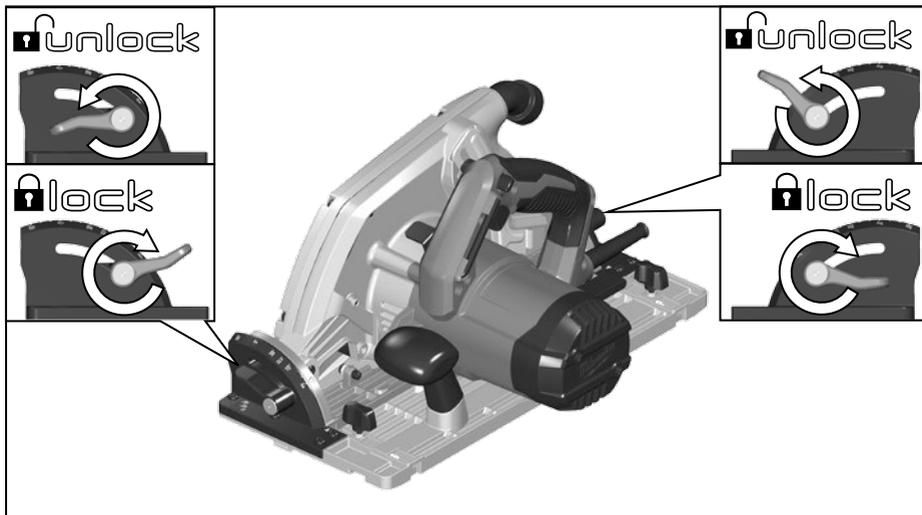


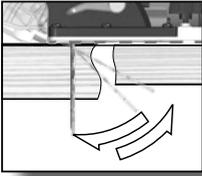
For safety reasons this power tool is fitted with a switch lock and the On-/Off switch cannot be locked in the „On“ position



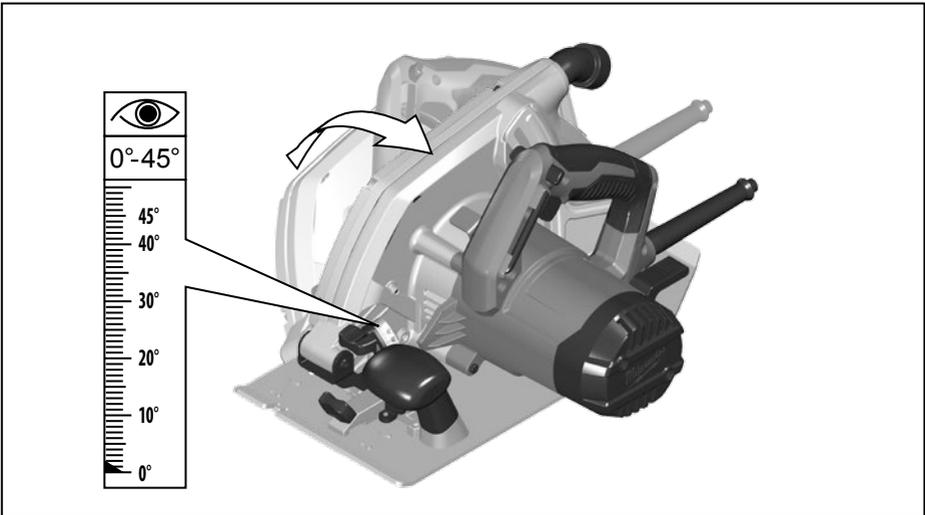
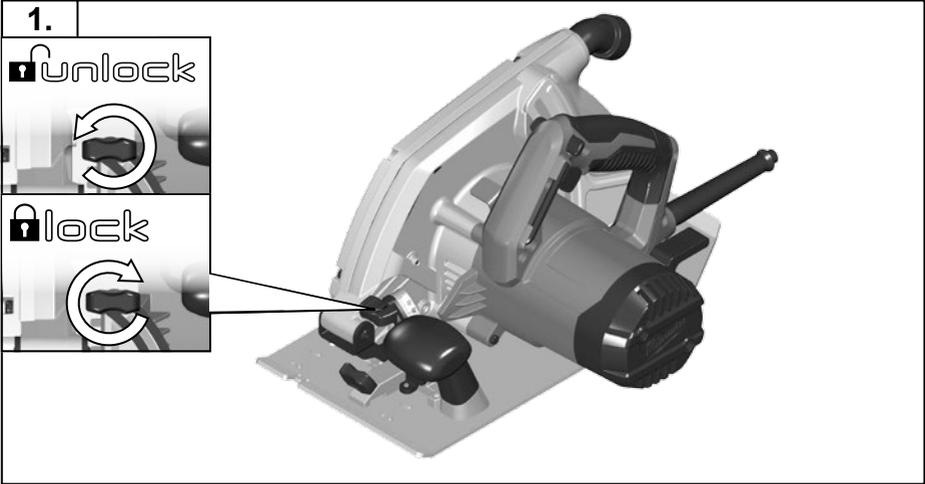


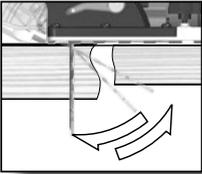
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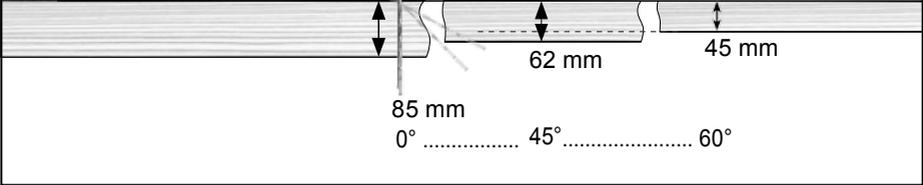
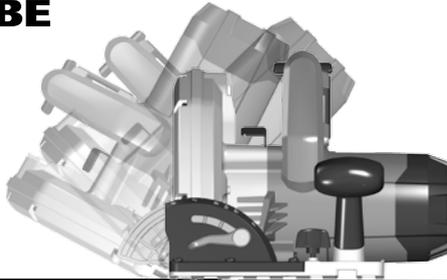


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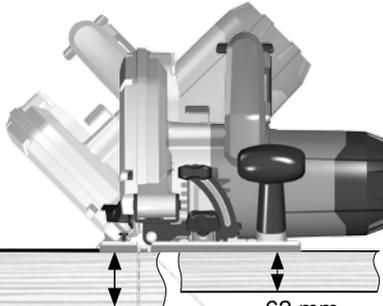


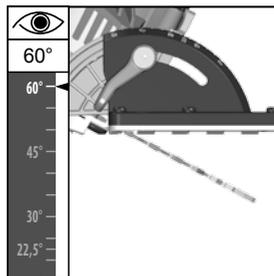
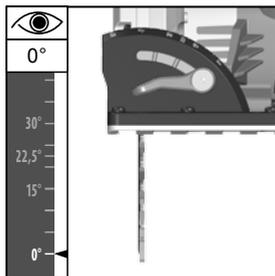
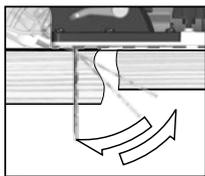


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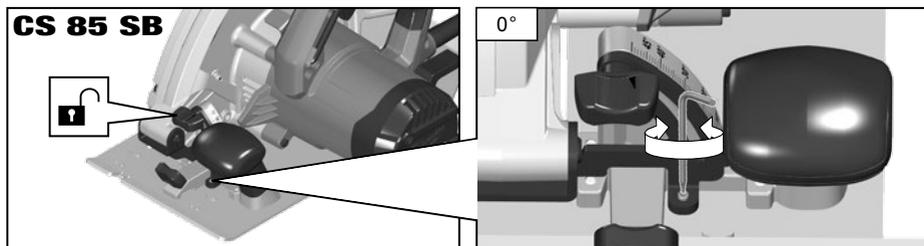
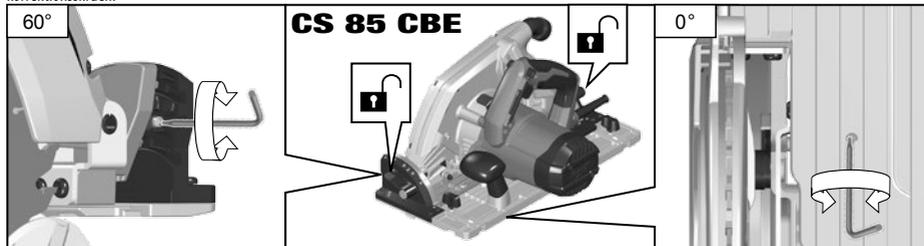
If a correction of the 0° (90°) / 60° angle of the guide-plate to the saw blade is necessary, use the correction screw.

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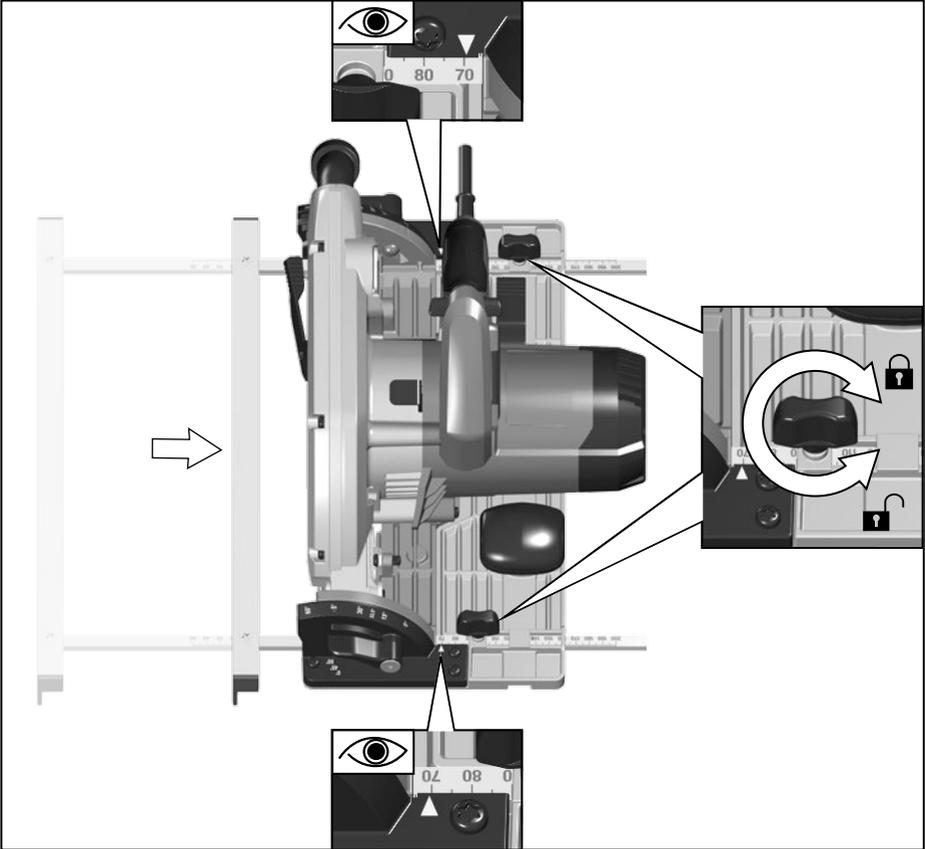
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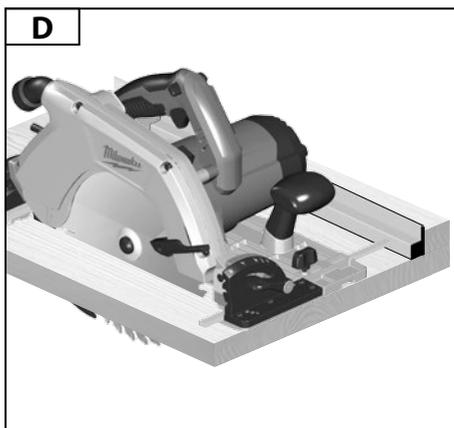
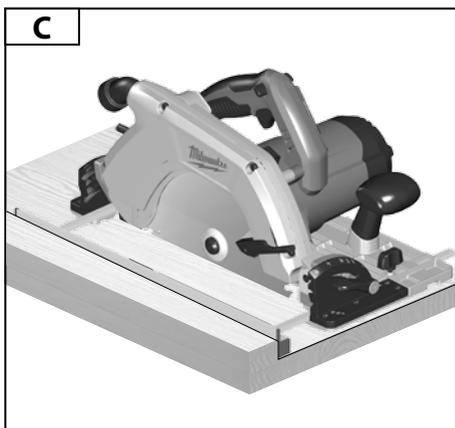
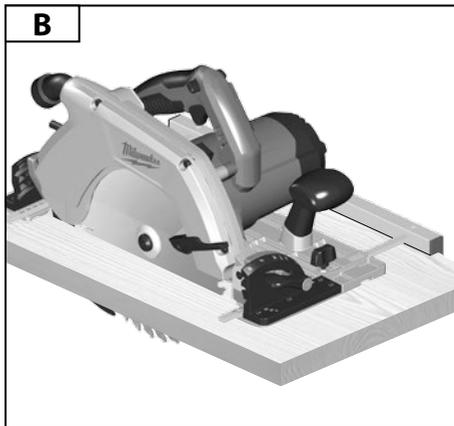
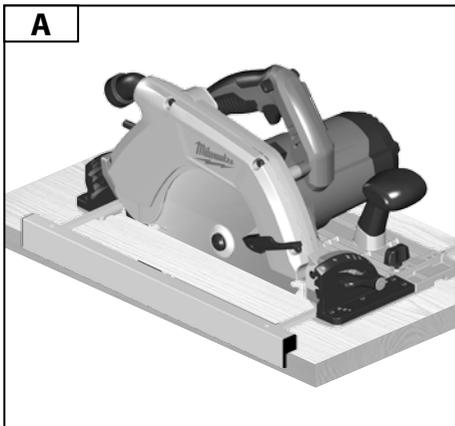
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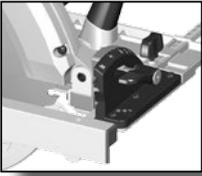


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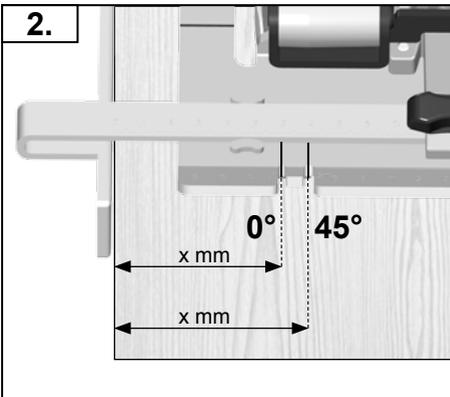
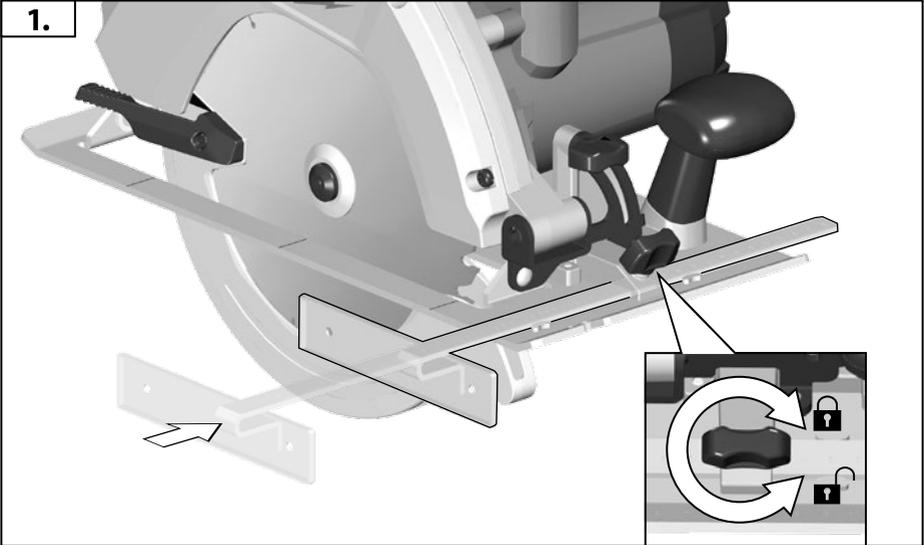


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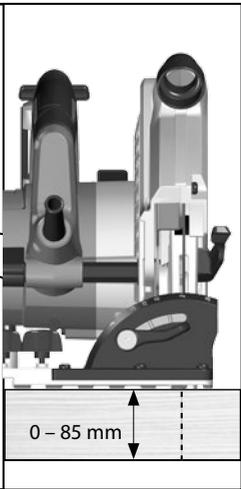
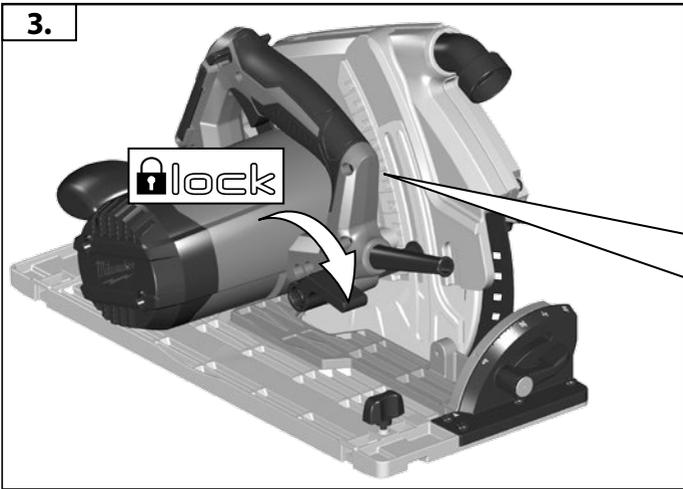
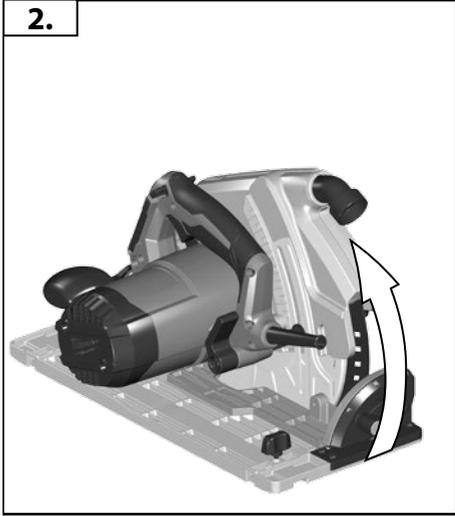
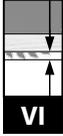
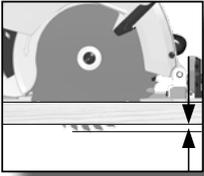


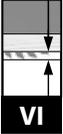
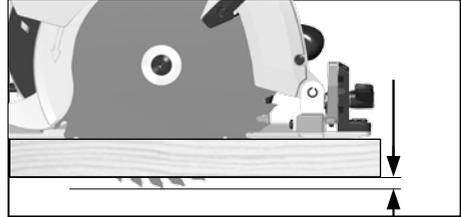
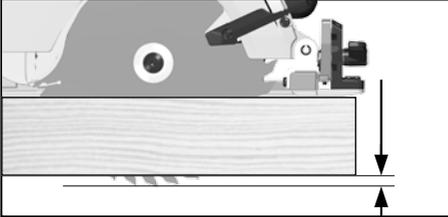
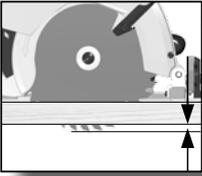


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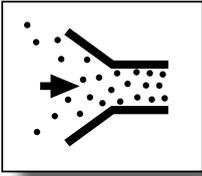


Carry out a test cut

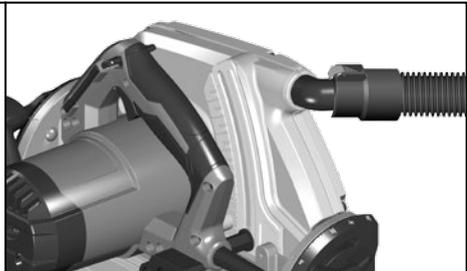
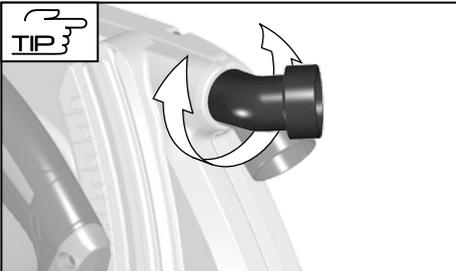
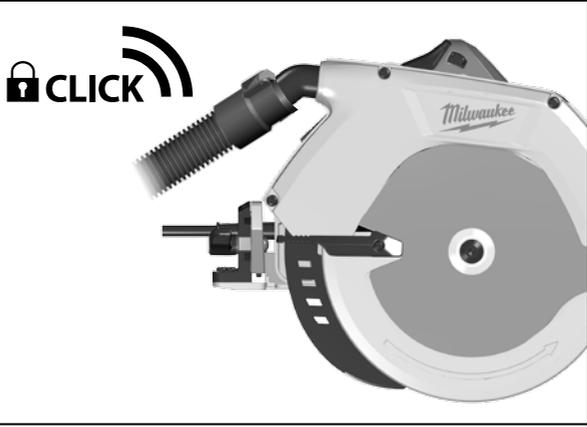
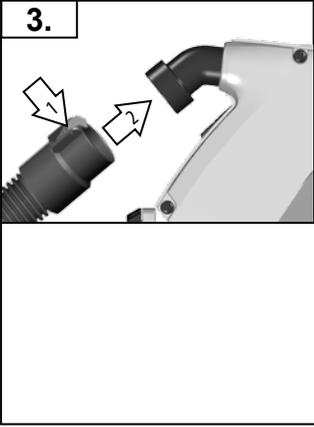
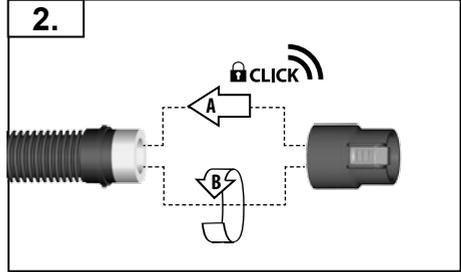
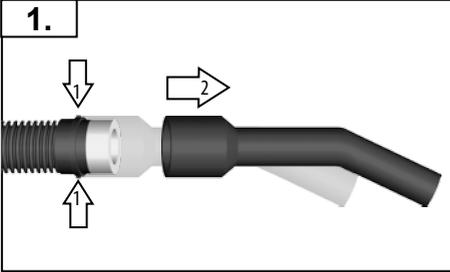


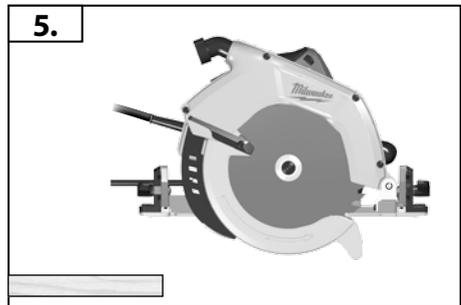
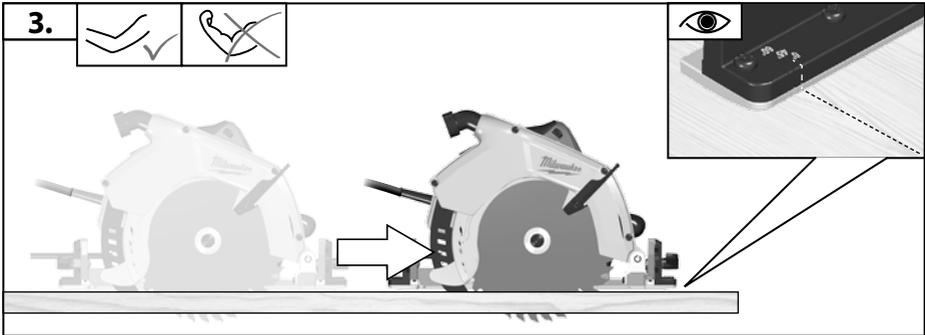
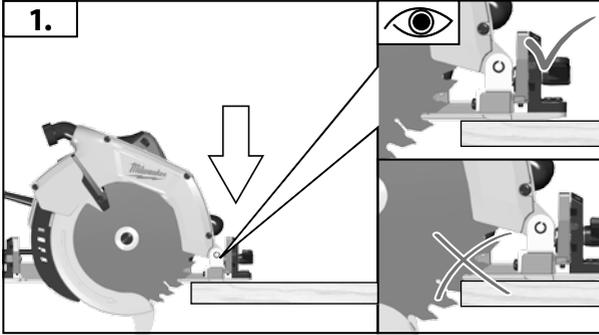
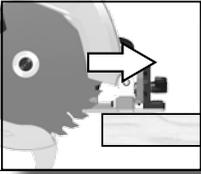


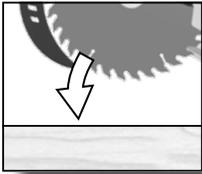
Adjust the cutting depth to the thickness of the workpiece. Less than a full tooth of the blade teeth should be visible below the workpiece.



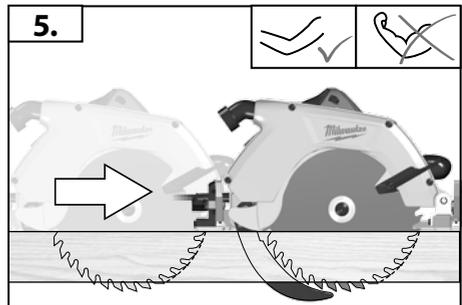
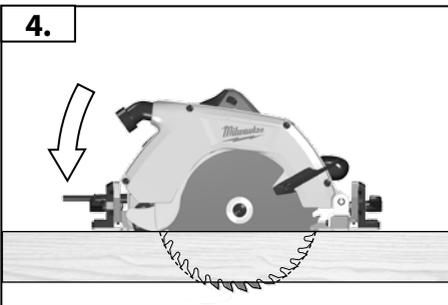
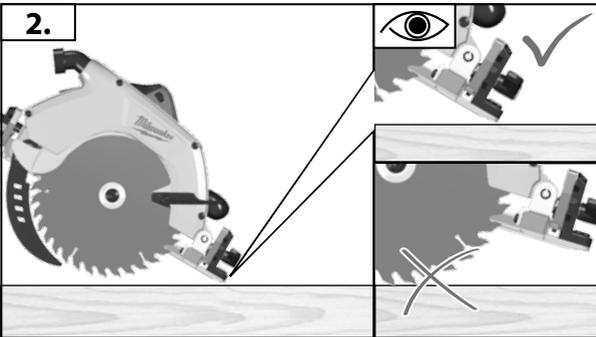
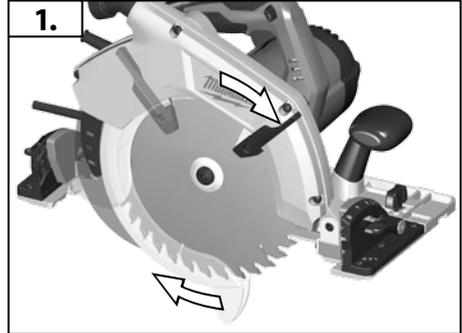
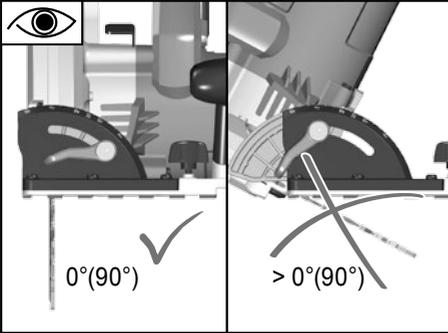
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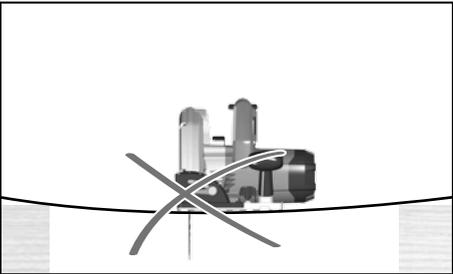
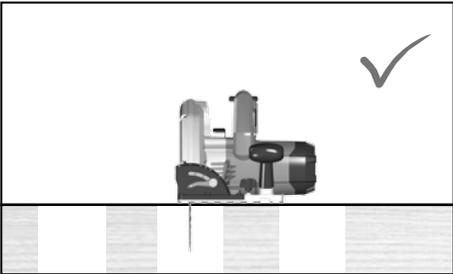
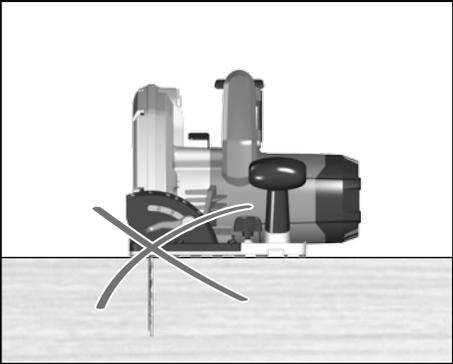
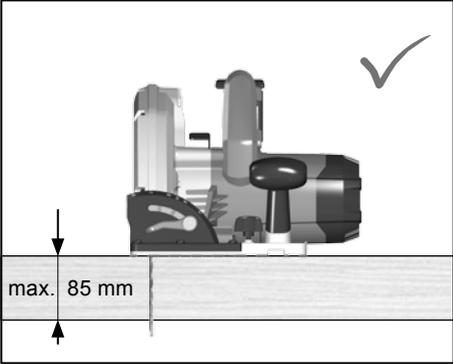
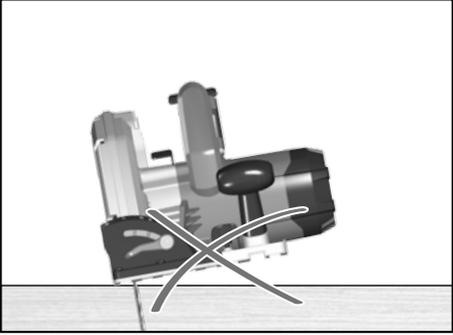
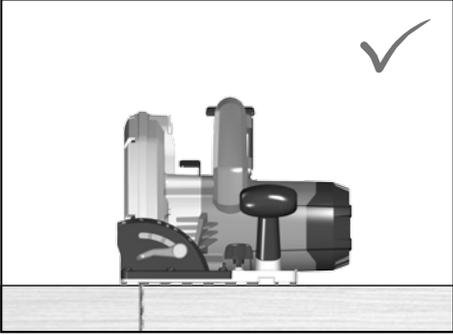
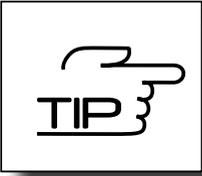


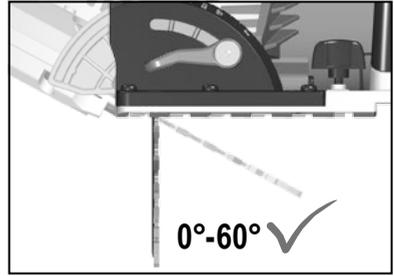
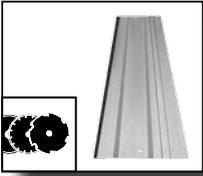




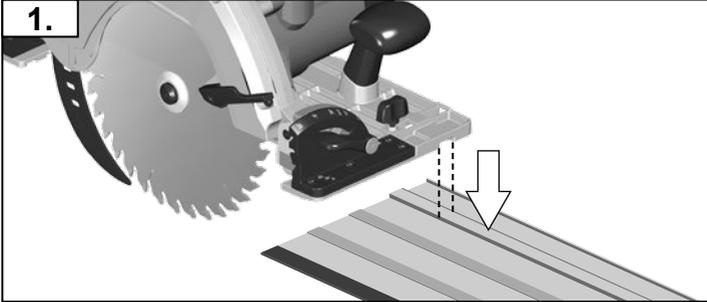
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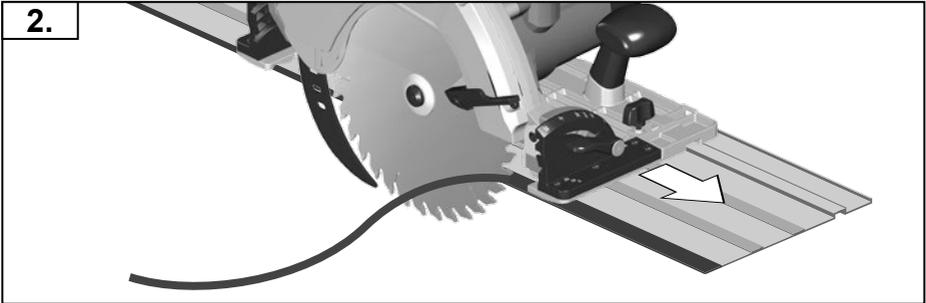
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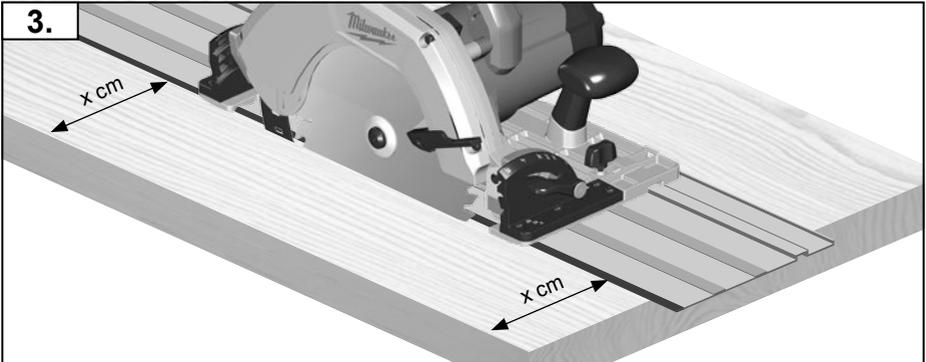
Milwaukee 4932 4512 65



2.



3.



TECHNICAL DATA Circular saw	CS 85 CBE 220 - 240 V	CS 85 SB 220 - 240 V
Rated input	2200 W	2200 W
No-load speed	4500 min ⁻¹	4500 min ⁻¹
Saw blade dia. x hole dia	235 x 25 mm	235 x 25 mm
Saw blade thickness	2,75 mm	2,75 mm
Max. Cutting depth at 0° / 45° / 60°	85 / 64 / 46 mm	85 / 67 / - mm
Weight	7,7 kg	6,6 kg

⚠ WARNING Read all safety warnings, instructions, illustrations and specifications provided with this device.

Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

⚠ CIRCULAR SAW SAFETY WARNINGS

Cutting procedures

a) ⚠ 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.

b) Do not reach underneath the workpiece. The guard cannot protect you from the blade below the workpiece.

c) 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.

d) 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.

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

f) When ripping, always use a rip fence or straight edge guide. This improves the accuracy of cut and reduces the chance of blade binding.

g) 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.

h) 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 causes 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.

a) 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.

b) 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.

c) 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.

d) Support large panels to minimise the risk of blade pinching and kickback. 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.

e) Do not use dull or damaged blades. Unsharpened or improperly set blades produce narrow kerf causing excessive friction, blade binding and kickback.

f) Blade depth and bevel adjusting locking levers must be tight and secure before making the cut. If blade adjustment shifts while cutting, it may cause binding and kickback.

g) 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

a) 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.

b) 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.

c) 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.

d) 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.

CS 85 CBE: Riving knife function

a) Use the appropriate saw blade for the riving knife. For the riving knife to function, the body of the blade must be thinner than the riving knife and the cutting width of the blade must be wider than the thickness of the riving knife.

b) Adjust the riving knife as described in this instruction manual. Incorrect spacing, positioning and alignment can make the riving knife ineffective in preventing kickback.

c) Always use the riving knife, even when "plunge cutting". The riving knife is being pressed upwards during plunge cutting and springs back automatically into the kerf after plunge cutting when you move the saw forward.

d) For the riving knife to work, it must be engaged in the workpiece. The riving knife is ineffective in preventing kickback during short cuts.

e) Do not operate the saw if the riving knife is bent. Even a light interference can slow the closing rate of a guard.

Additional Safety and Working Instructions

Wear ear protectors. Exposure to noise can cause hearing loss.

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

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

Do not use saw blades not corresponding to the key data given in these instructions for use.

It is necessary to select a saw blade which is suitable for the material being cut.

The rated speed of the accessory must be at least equal to the maximum speed marked on the power tool.

Only use tools that meet standard EN 847-1.

Do not use abrasion disks in this machine!

Do not fix the on/off switch in the "on" position when using the saw hand-held.

Adapt the feed speed to avoid overheating the blade tips.

ELECTRIC BRAKE

CS 85 CBE:

The electric brake engages when the trigger is released, causing the blade to stop and allowing you to proceed with your work. Generally, the saw blade stops within three seconds. However, there may be a delay between the time you release the trigger and when the brake engages. Occasionally the brake may miss completely. If the brake misses frequently, the saw needs servicing by an authorised MILWAUKEE® service facility.

You must always wait for the blade to stop completely before removing the saw from the workpiece.

MAINS CONNECTION

Connect only to single-phase AC system voltage as indicated on the rating plate.

Appliances used at many different locations including wet room and open air must be connected via a residual current device (FI, RCD, PRCD) of 30mA or less.

Only plug-in when machine is switched off.

Keep mains lead clear from working range of the machine. Always lead the cable away behind you.

Before use check machine, cable, safety harness and plug for any damages or material fatigue. Repairs should only be carried out by authorised Service Agents.



STARTING CURRENT LIMITER

The electronic reduced starting current limits the power consumption when switching the tool on and enables operation from a 16 ampere fuse.

SPECIFIED CONDITIONS OF USE

This electronic circular saw can cut lengthways and mitre accurately in wood.

MAINTENANCE

Always disconnect the plug from the socket before carrying out any work on the machine.

Be sure to disconnect the tool from the power supply before attaching or removing the saw blade.

Clean tool and guarding system with dry cloth. Certain cleaning agents and solvents are harmful to plastics and other insulated parts.

The ventilation slots of the machine must be kept clear at all times. Remove dust regularly. Remove the sawdust which has accumulated inside the saw in order to avoid the risk of fire.

Keep the apparatus handle clean, dry and free of spill oil or grease. Check the function of guards.

Regular maintenance and cleaning provide for a long service life and safe handling.

If the supply cord of this power tool is damaged, it must be replaced by a specially prepared cord available through the service organization.

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

If needed, an exploded view of the tool can be ordered. Please state the Article No. as well as the machine type printed on the label and order the drawing at your local service agents or directly from *MILWAUKEE*® Australia (Toll Free Telephone Number 1300 361 505 / Email: milwaukee@ttibrands.com.au) or *MILWAUKEE*® New Zealand (Toll Free Telephone Number 0800 279 624 / Email: milwaukee@ttibrands.co.nz).

SYMBOLS



CAUTION! WARNING! DANGER!



Please read the instructions carefully before starting the machine.



Always wear goggles when using the machine.



Wear ear protectors.



Wear a suitable dust protection mask.



Wear gloves!



Always disconnect the plug from the socket before carrying out any work on the machine.



Do not use force.



Accessory - Not included in standard equipment, available as an accessory.



Do not dispose of electric tools together with household waste material. Electric tools and electronic equipment that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility. Check with your local authority or retailer for recycling advice and collection point.



Class II tool. Tool in which protection against electric shock does not rely on basic insulation only, but in which additional safety precautions, such as double insulation or reinforced insulation, are provided. There being no provision for protective earthing or reliance upon installation conditions.



Regulatory Compliance mark (RCM). This product meets applicable regulatory requirements.



WARRANTY - AUSTRALIA and NEW ZEALAND

Please refer to Australian and New Zealand warranty supplied with tool. This warranty applies only to product sold in Australia and New Zealand.

SERVICE - AUSTRALIA and NEW ZEALAND

MILWAUKEE[®] prides itself in producing a premium quality product that is Nothing But Heavy Duty[®]. Your satisfaction with our products is very important to us! If you encounter any problems with the operation of this tool, please contact your authorised *MILWAUKEE*[®] dealer.

For a list of *MILWAUKEE*[®] dealers, guarantee or service agents please contact *MILWAUKEE*[®] Customer Service or visit our website.

(Australia Toll Free Telephone Number 1300 361 505)

(New Zealand Toll Free Telephone Number 0800 279 624)

or visit www.milwaukeetools.com.au / www.milwaukeetools.co.nz.

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Professionally made in China for Milwaukee Electric Tool Corporation