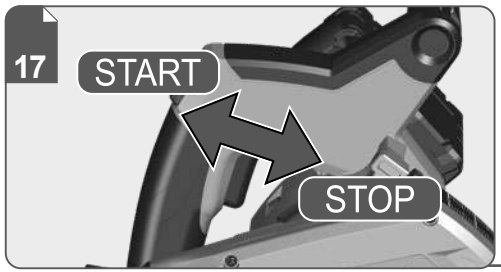
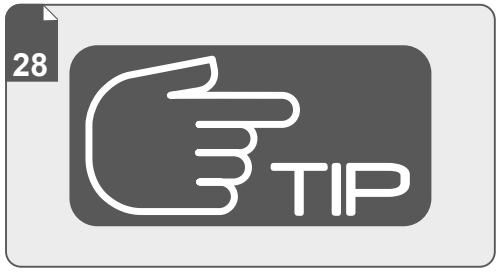
Nothing but **HEAVY DUTY.®**

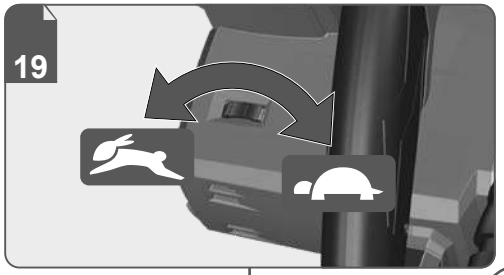


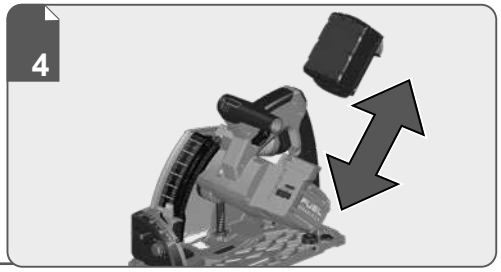
M18 FPS55

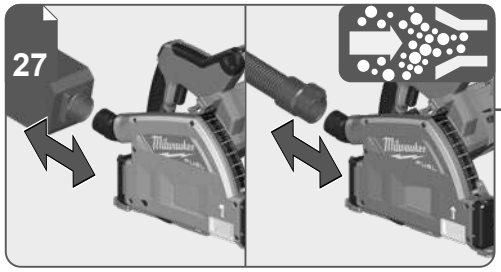
Original instructions

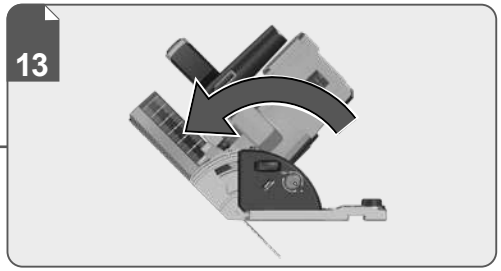

17
START
STOP

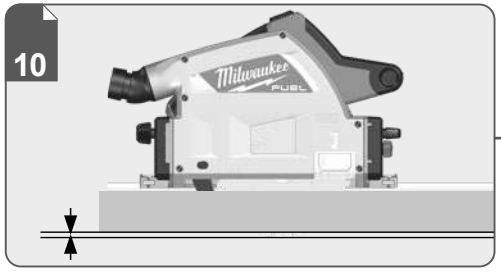

28
TIP

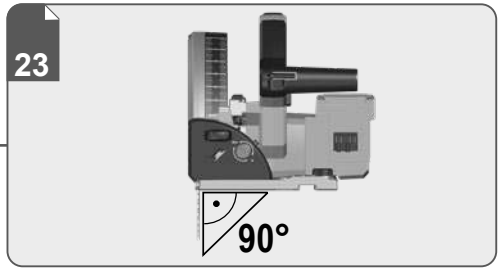

19

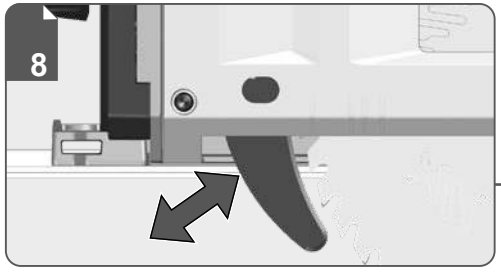

4

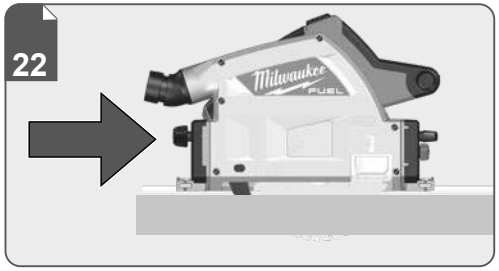

27

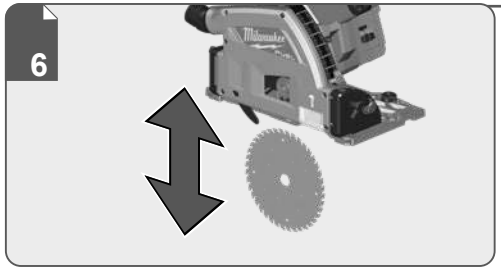

13

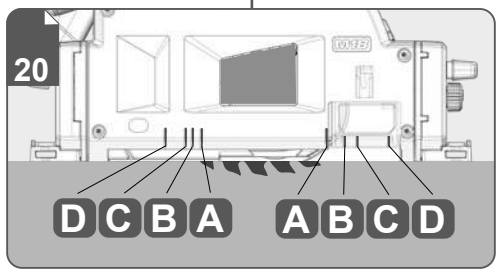

10

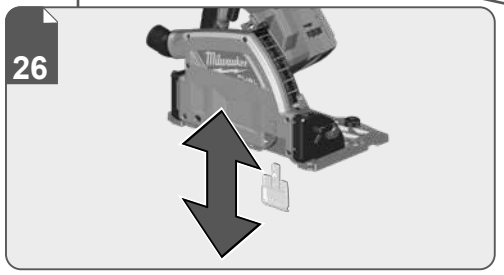

23
90°

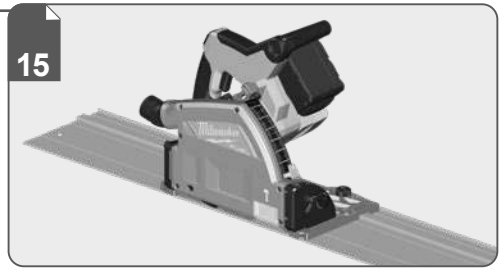

8


22

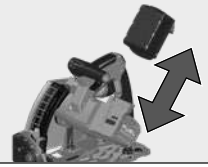

6


20
D C B A
A B C D


26

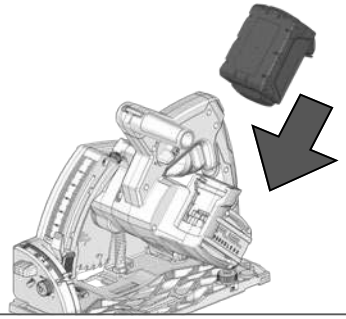

15


Milwaukee
FUEL

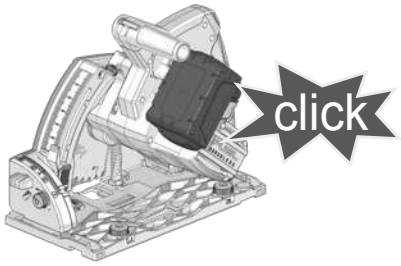


Remove the battery pack before starting any work on the machine.

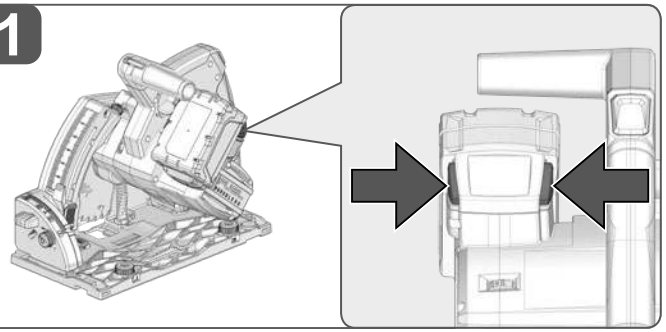
1



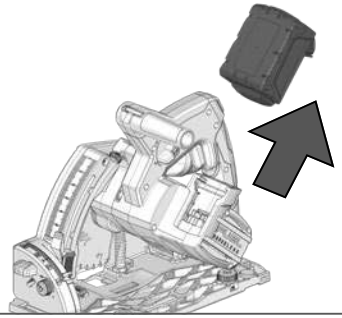
2

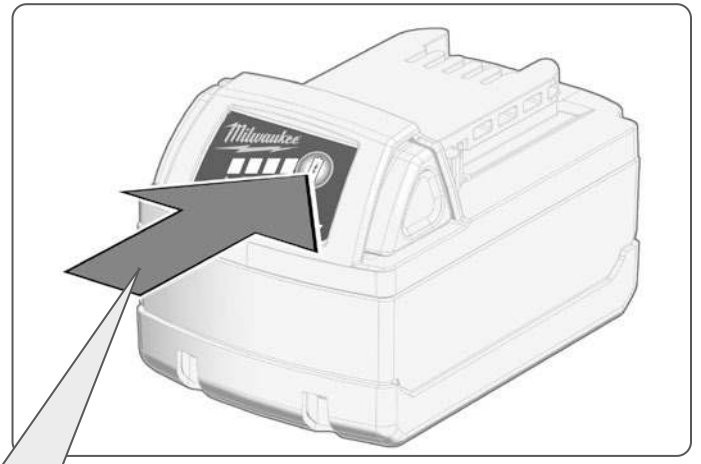


1



2







75-100 %



50-75 %



25-50 %

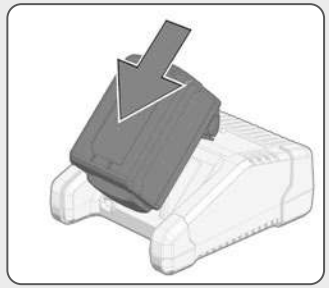


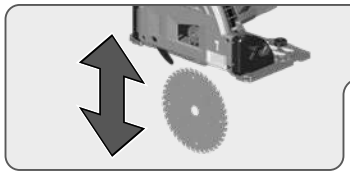
10-25 %

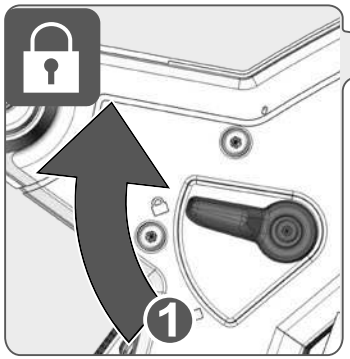


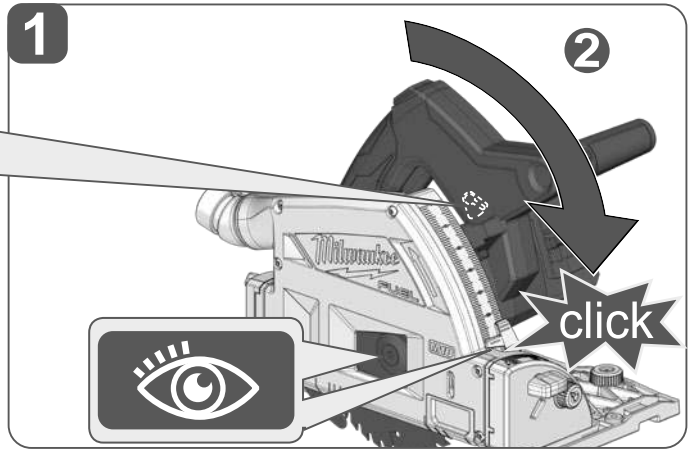
< 10 %

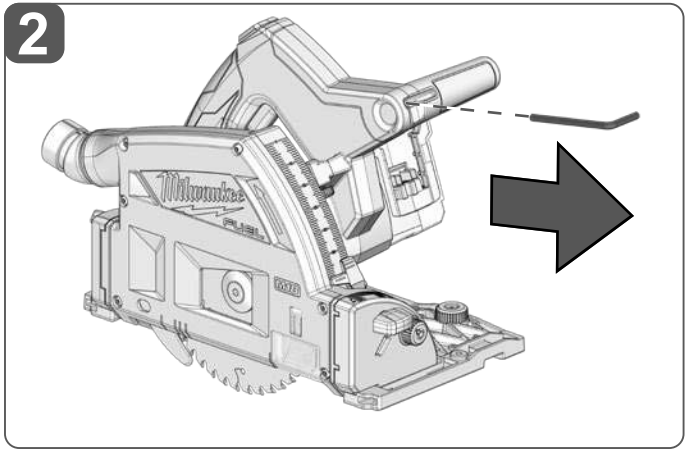


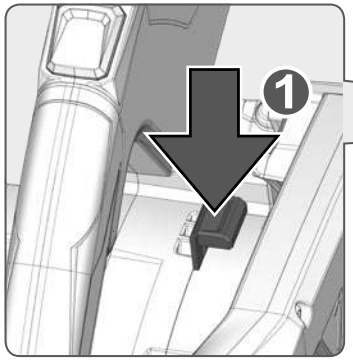


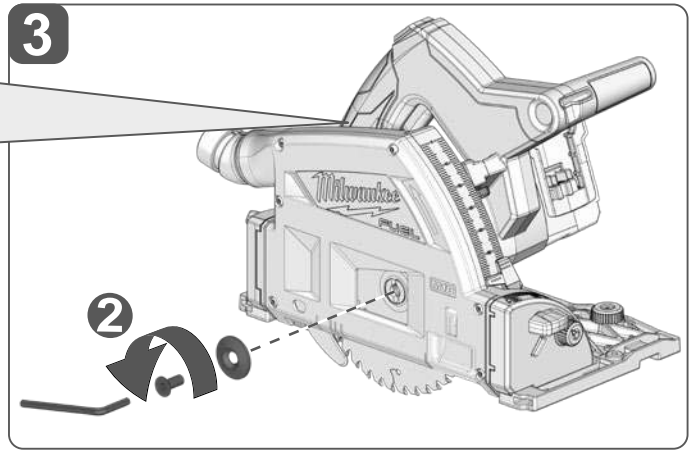


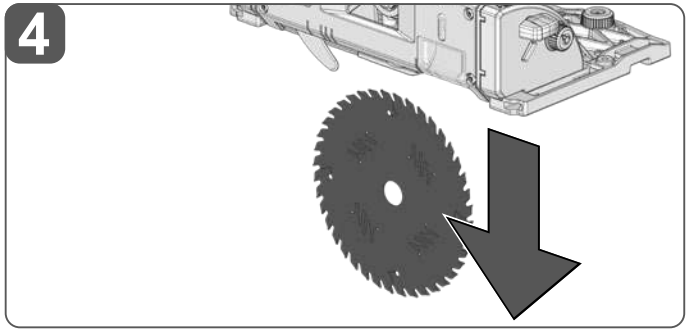

1


1
2
click

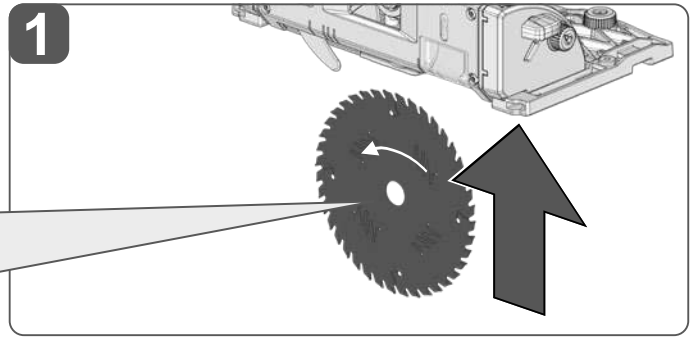

2

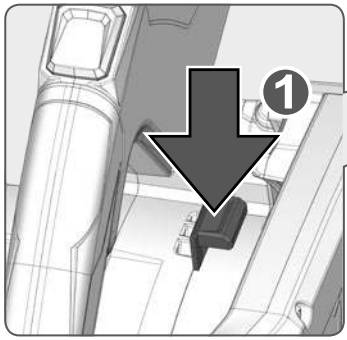

1

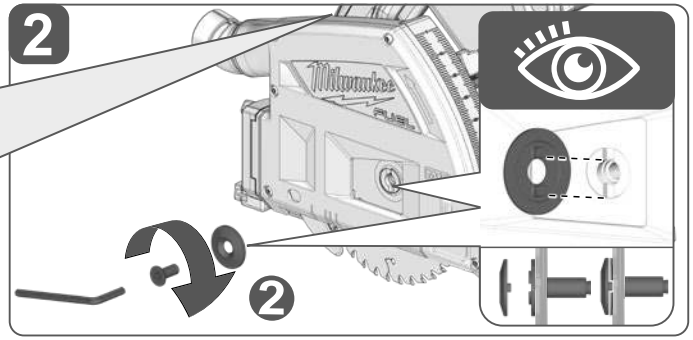

3
2

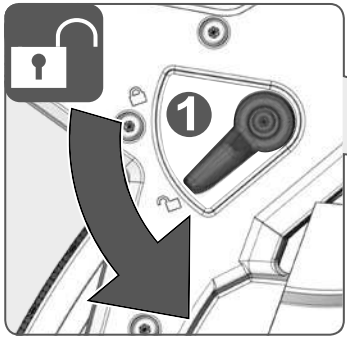

4

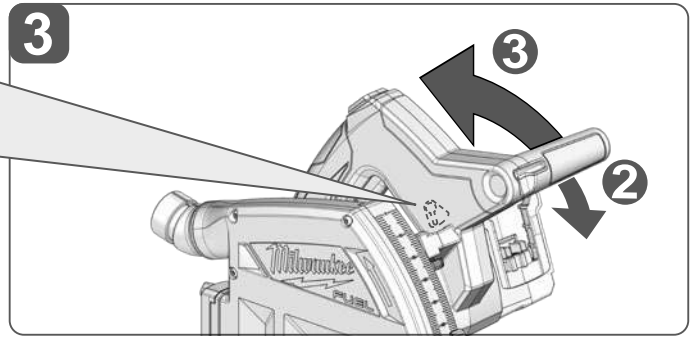

EN 847-1

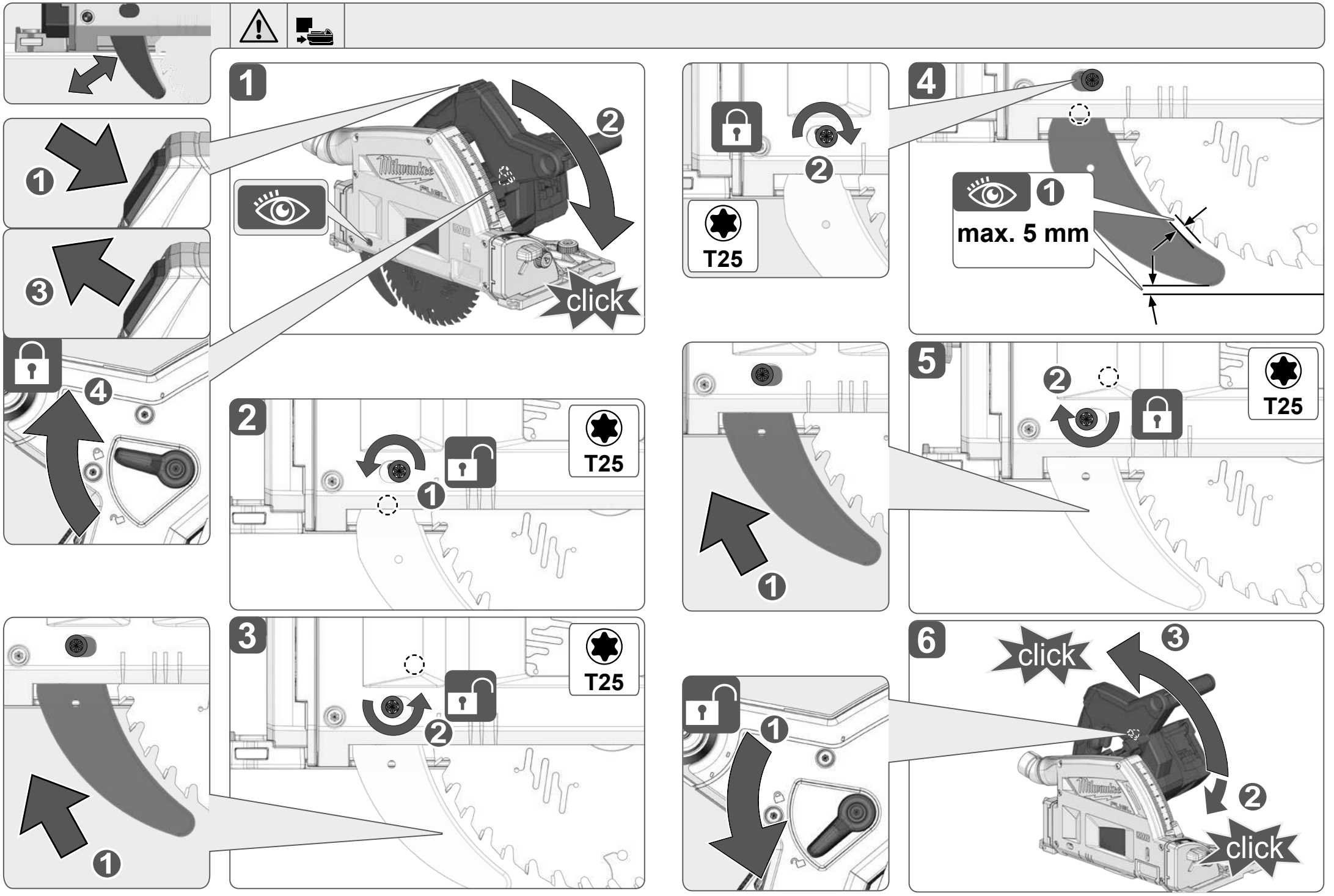

1

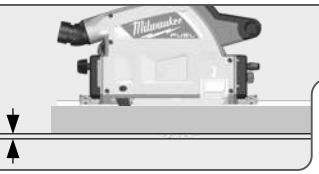

1

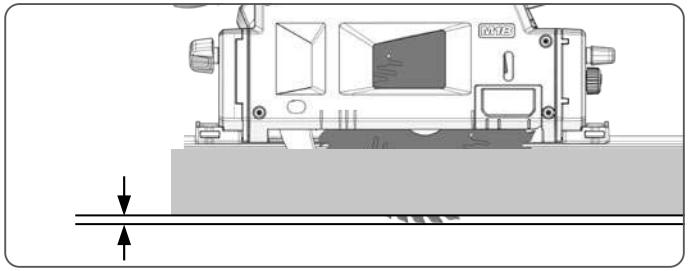

2
2

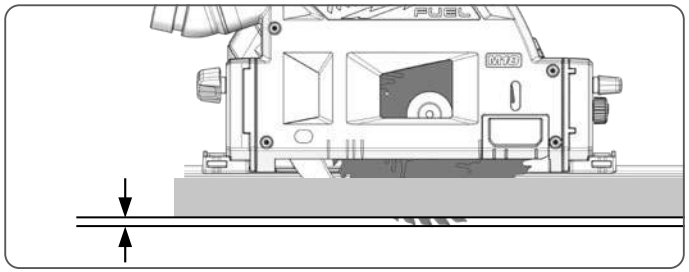

1


3
3
2

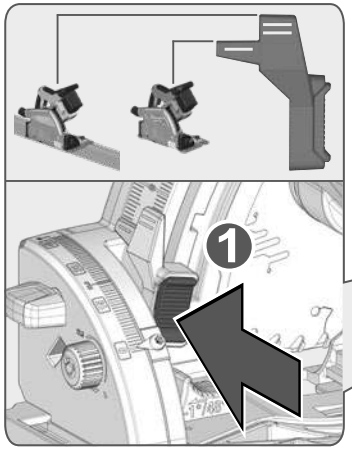

1
2
click
3
4
T25
max. 5 mm
5
6
click
click

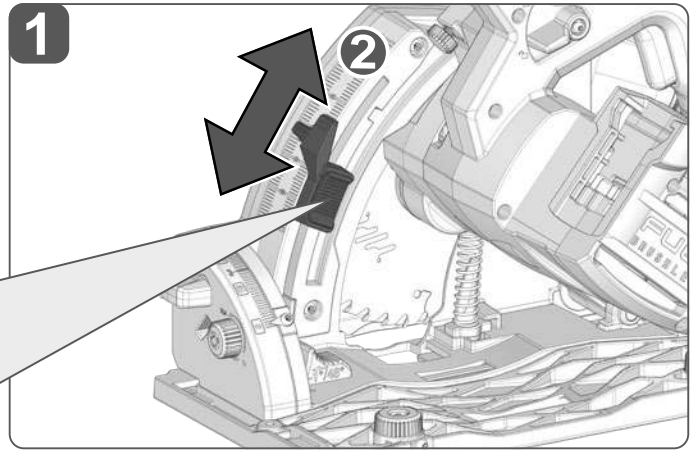


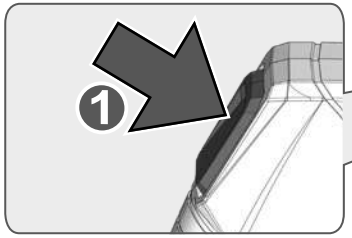


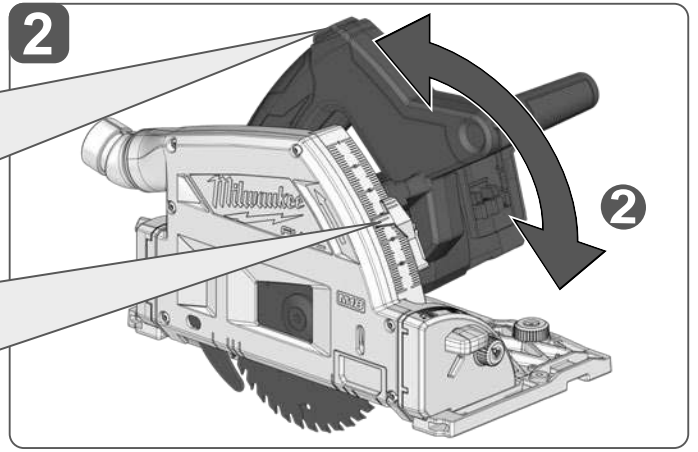


Adjust the cutting depth to the thickness of the workpiece.
Less than a full tooth of the blade teeth should be visible
below the workpiece.

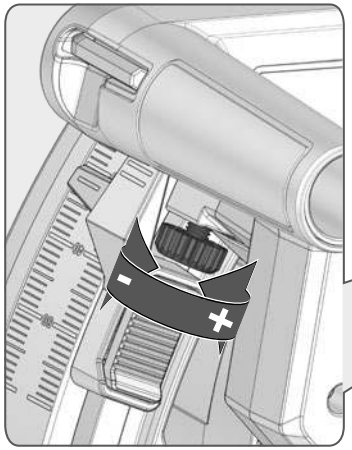


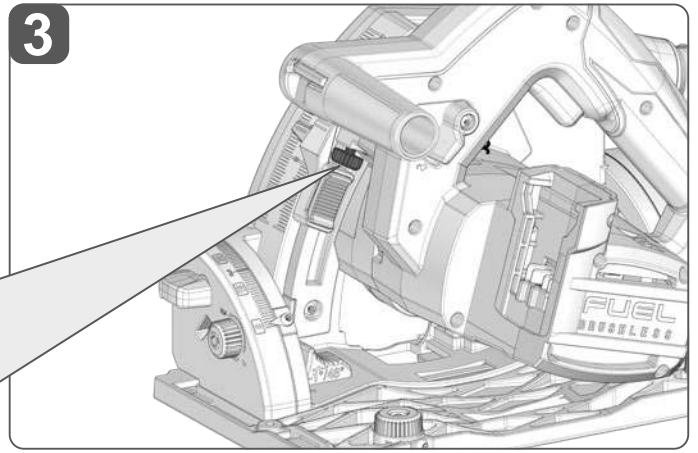




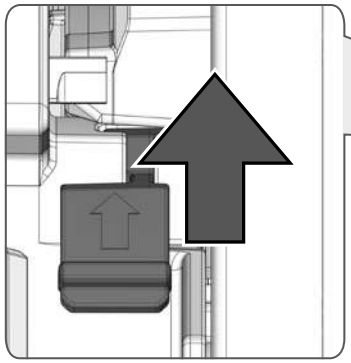


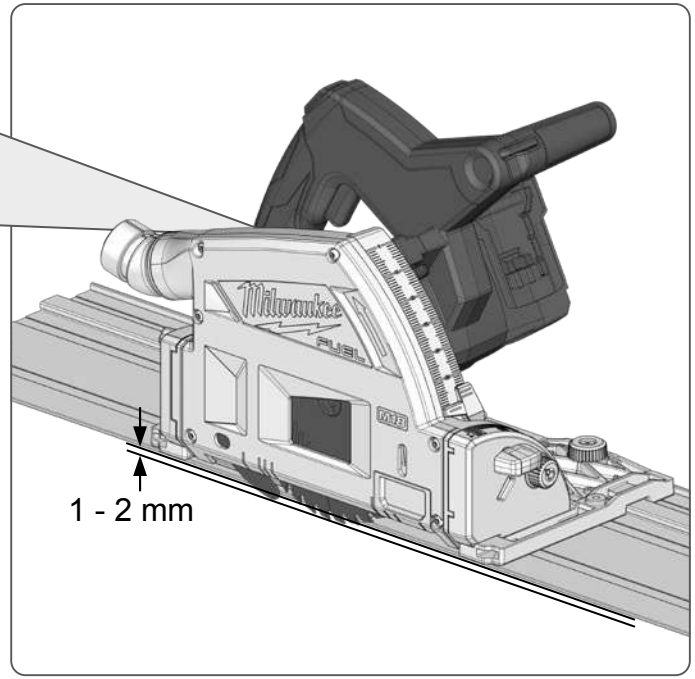


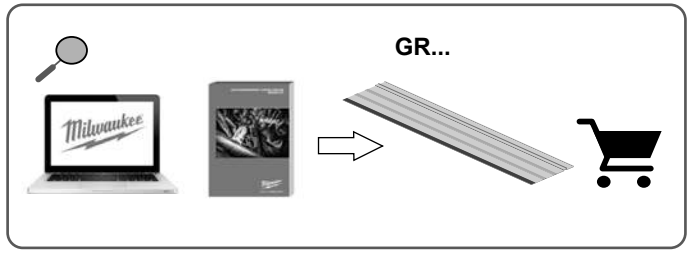


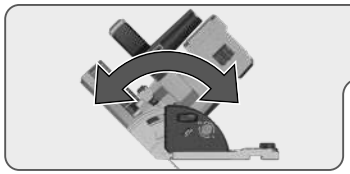


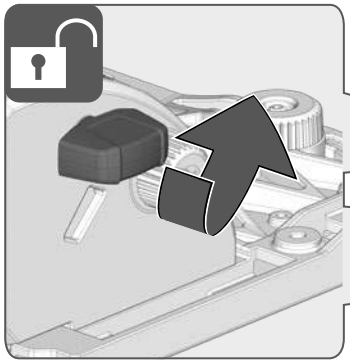


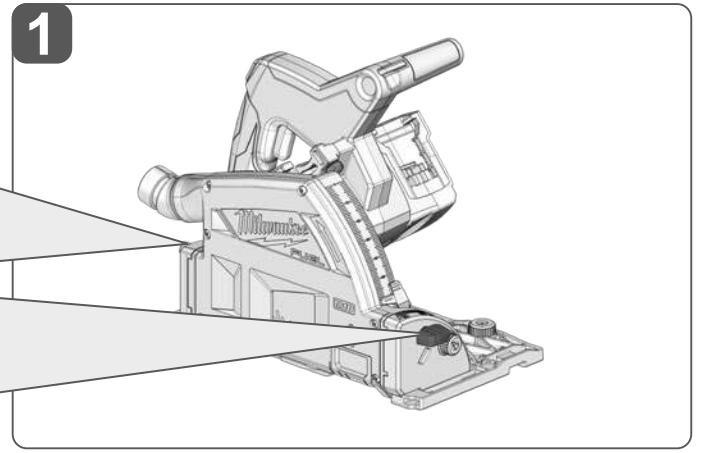


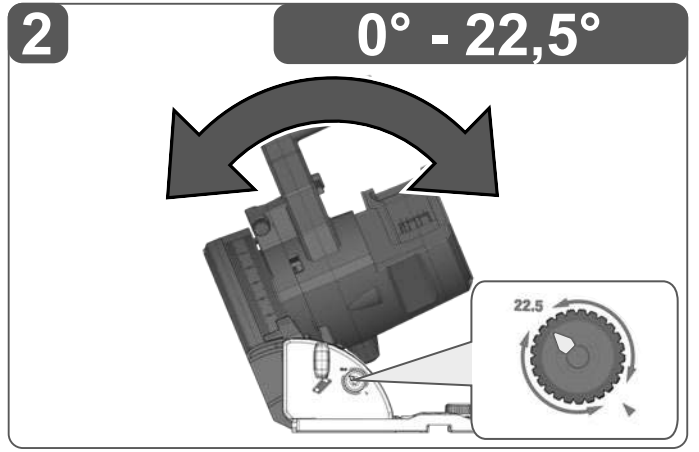

1 - 2 mm

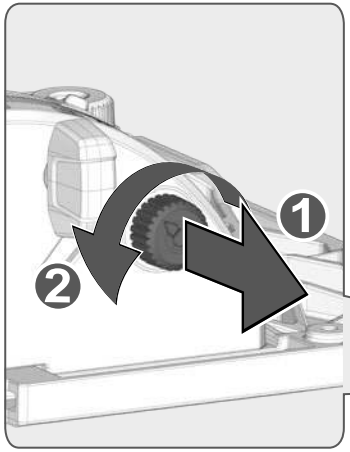

GR...

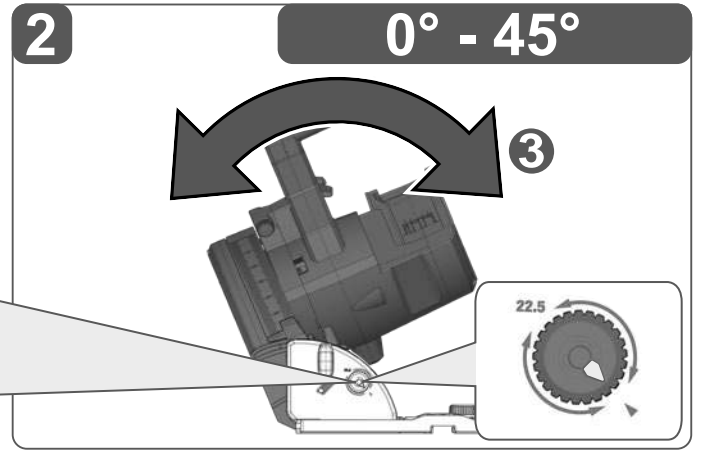


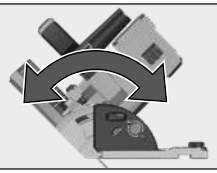


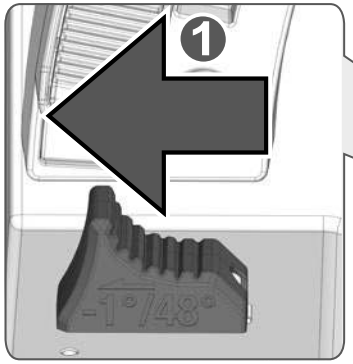

1

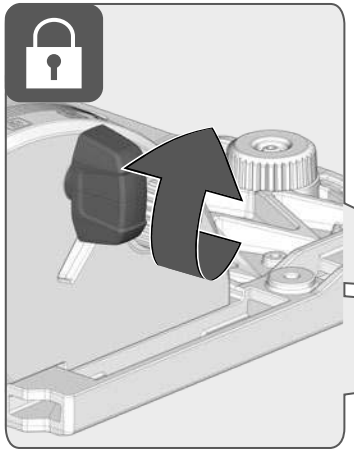

2
0° - 22,5°
22.5


1
2


2
0° - 45°
3
22.5

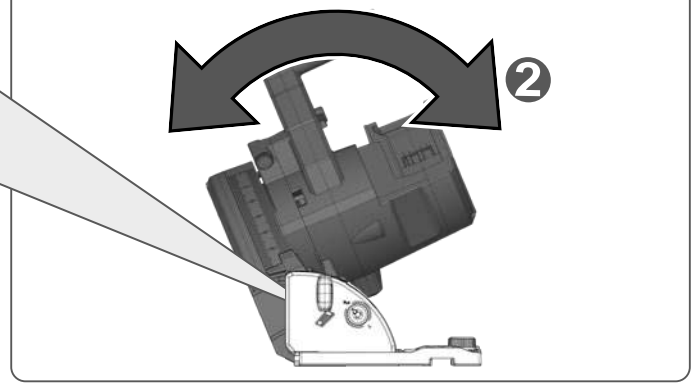




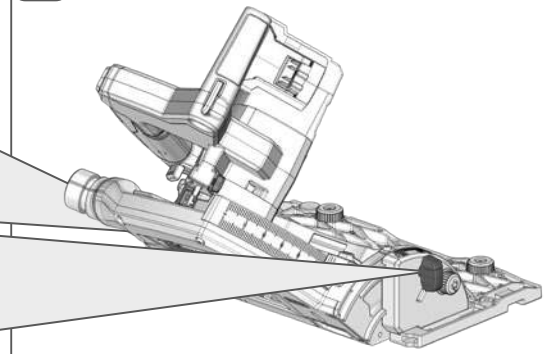


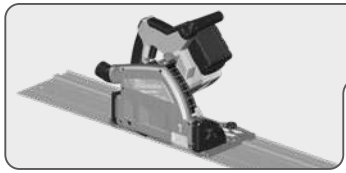
2

-1° / 45° - 48°



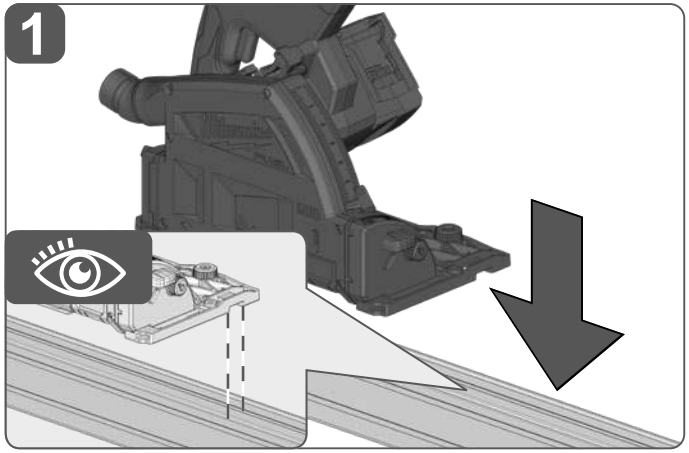
3



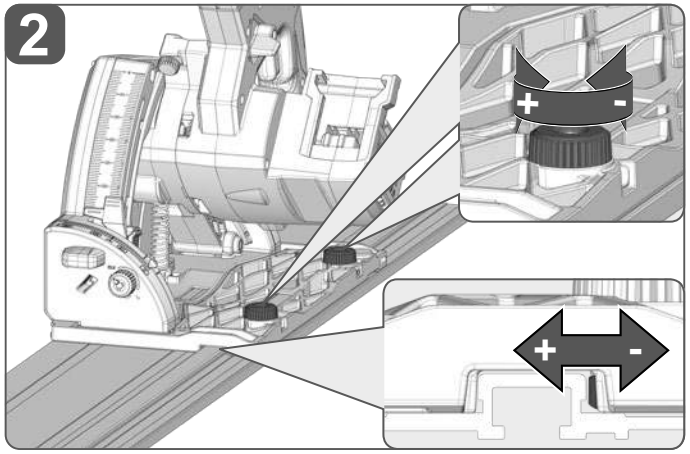


Before first use, cut the rubber lip of the guide rail.

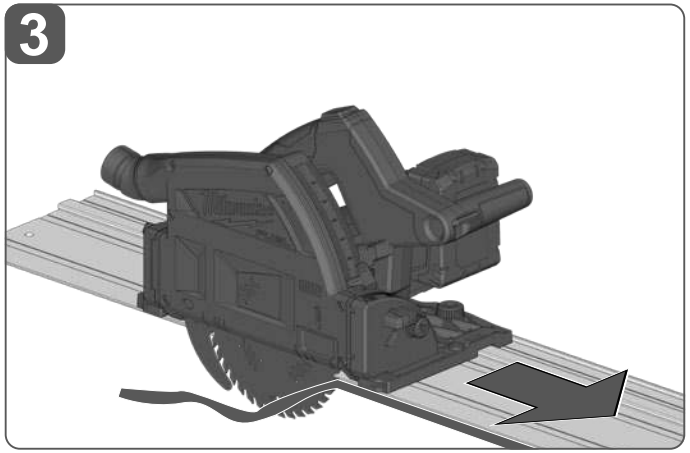
1

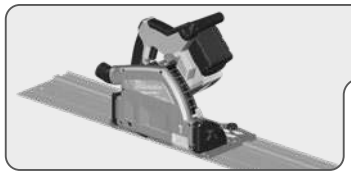


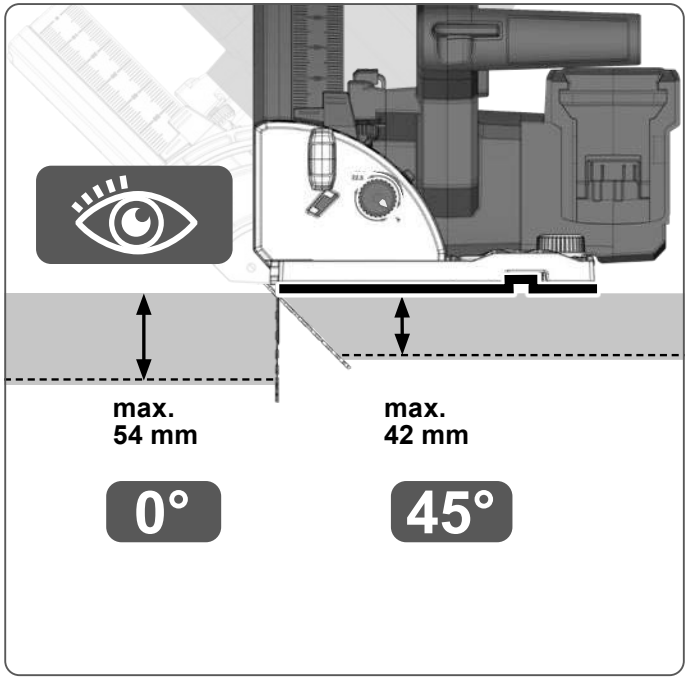
2

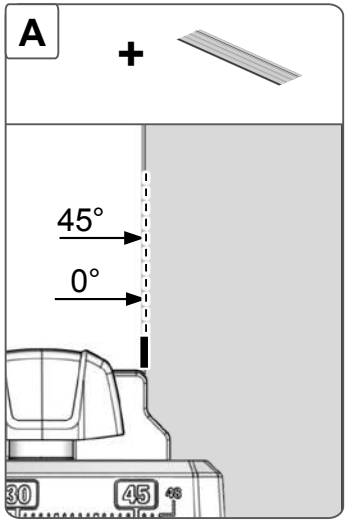


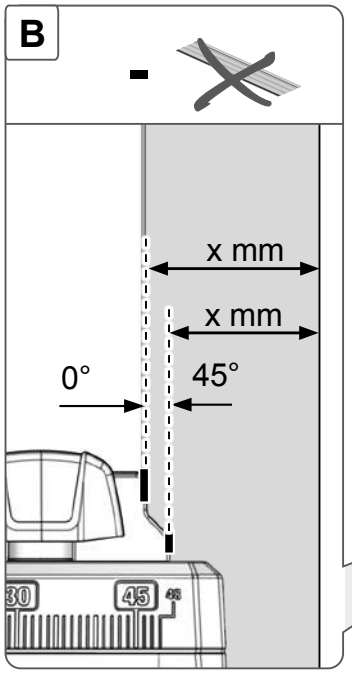
3

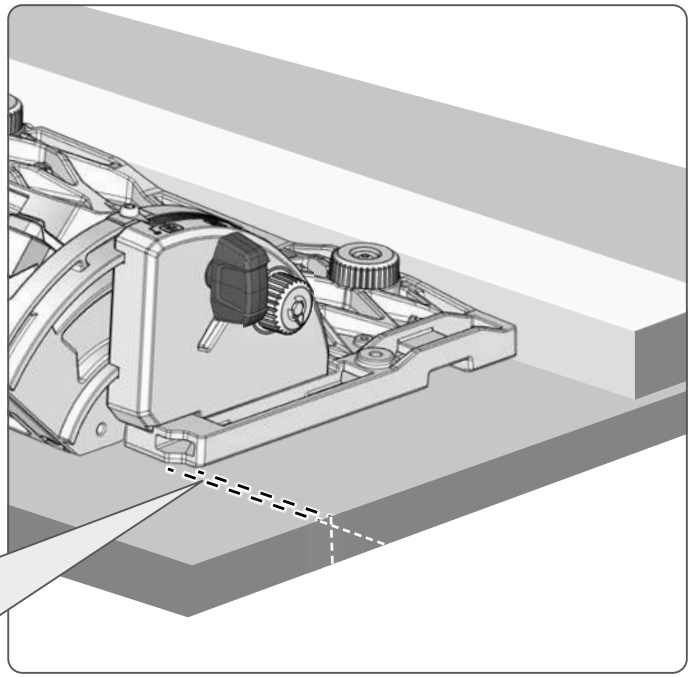


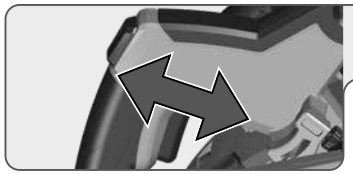


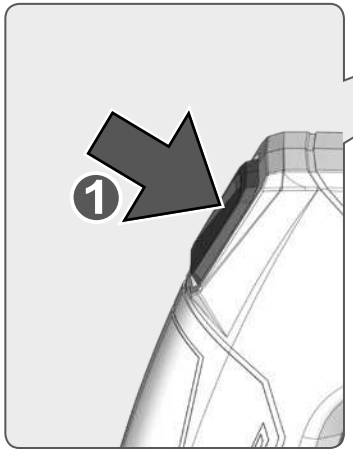


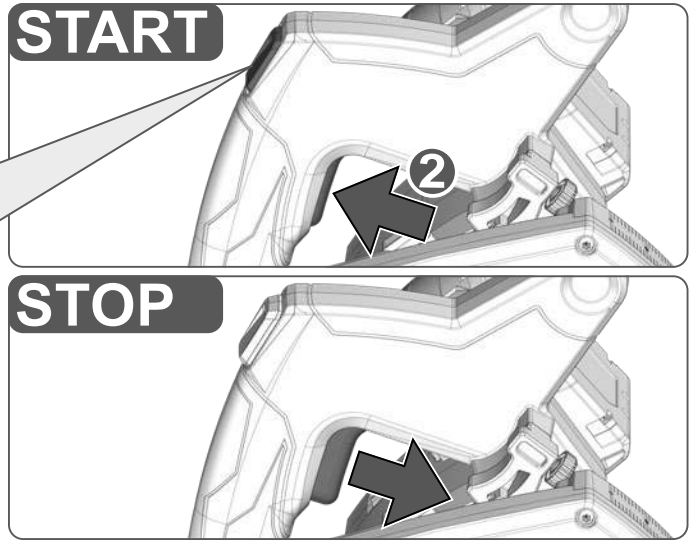




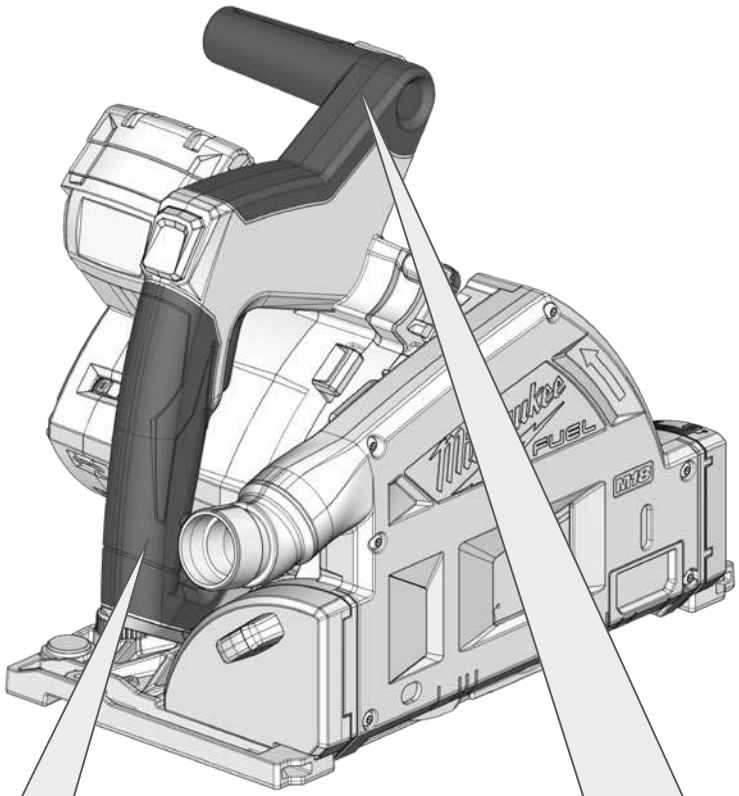






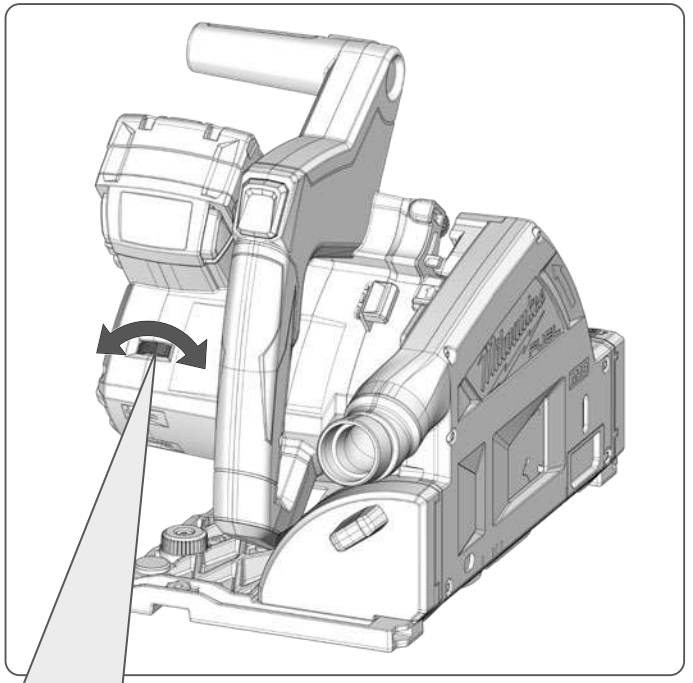


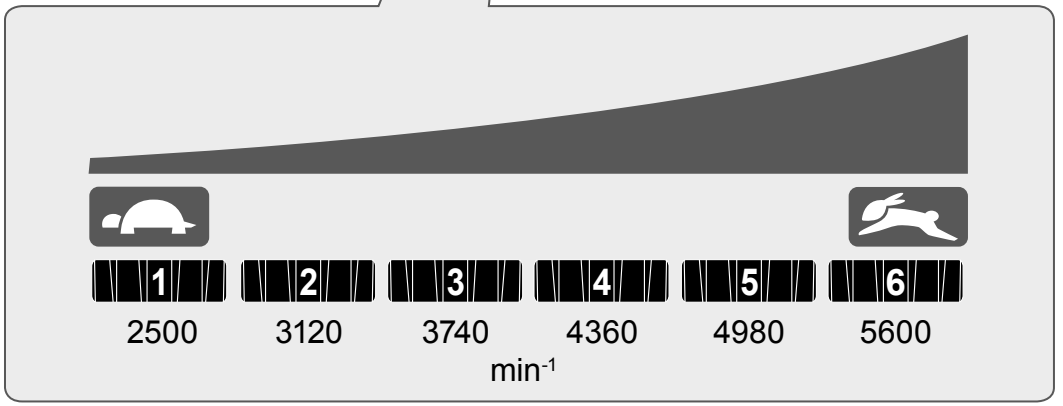
For safety reasons this power tool is fitted with a switch lock and the On-/Off switch cannot be locked in the „On“ position

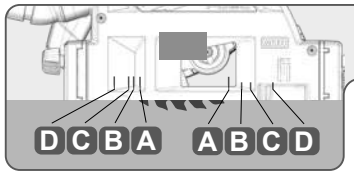


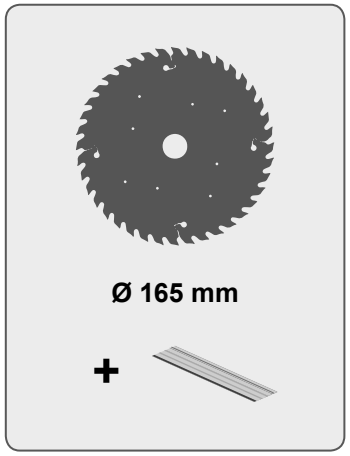
Insulated gripping surface



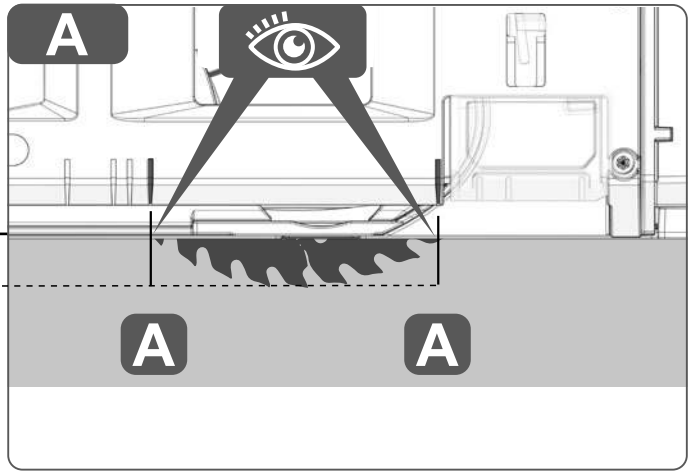


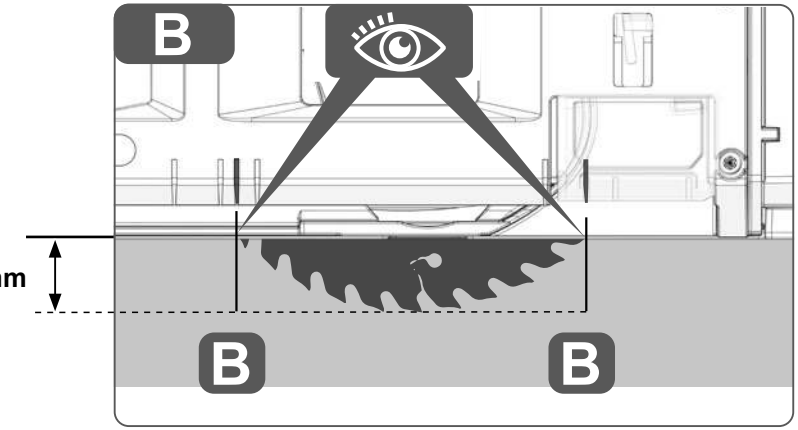


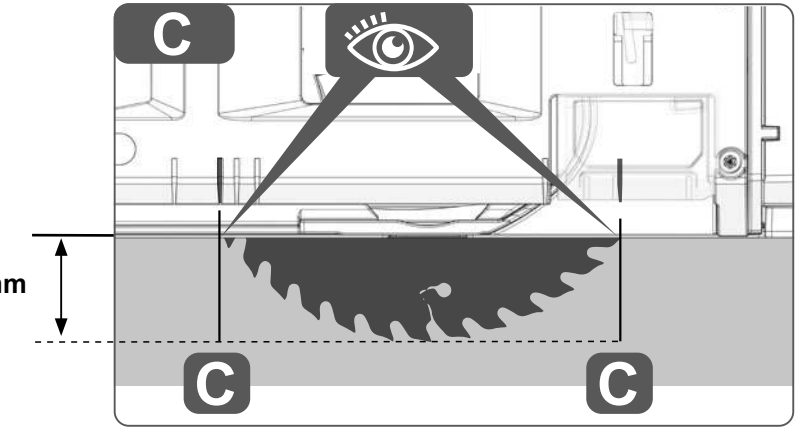

D C B A
A B C D

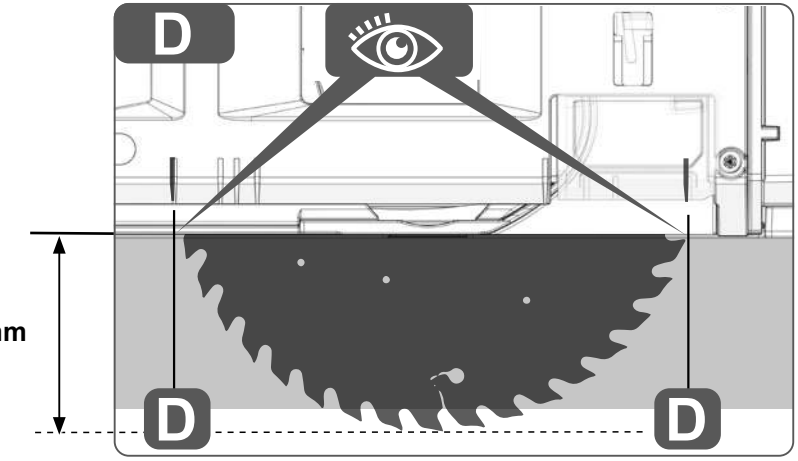

Ø 165 mm
+


Milwaukee
FUEL
M18
D C B A
A B C D


A
12,7 mm
A
A


B
19,1 mm
B
B

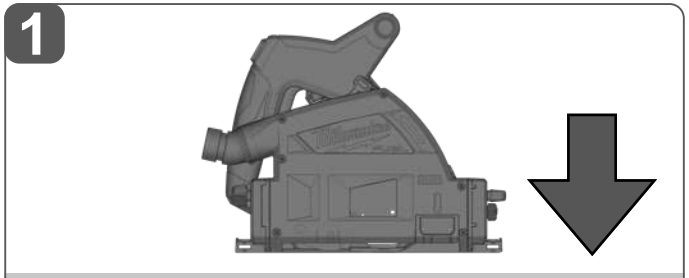

C
25,4 mm
C
C

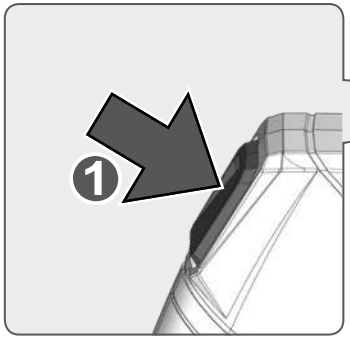

D
max. 59 mm
D
D



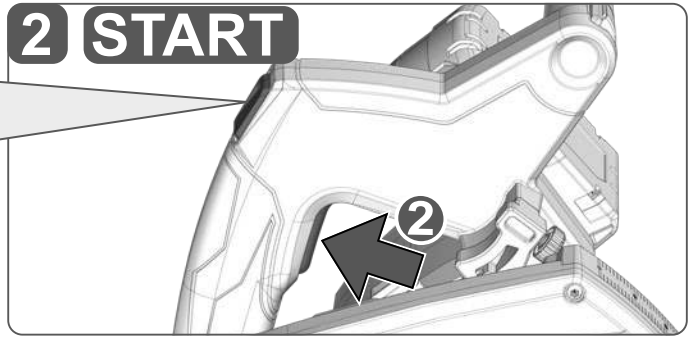


1

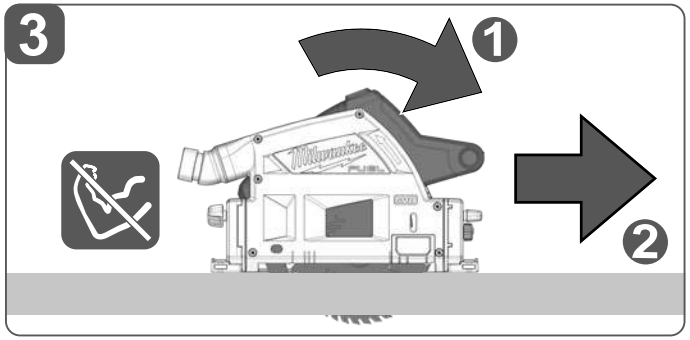




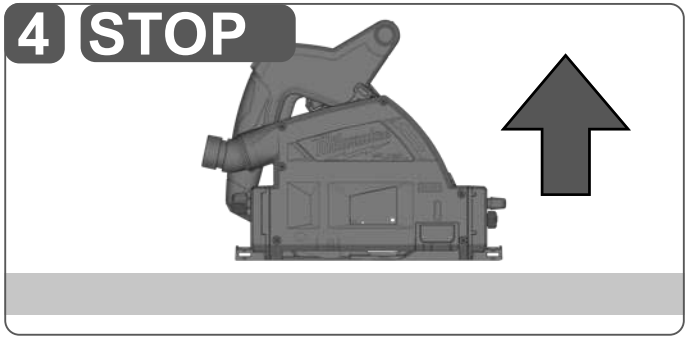
2 START

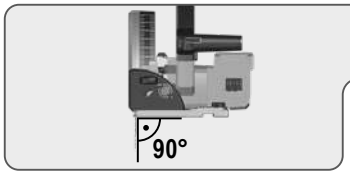


3



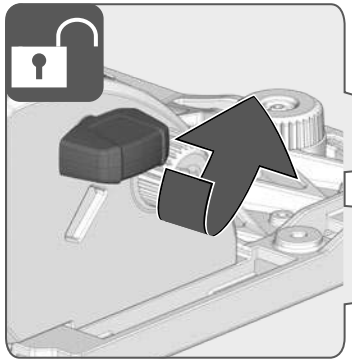
4 STOP



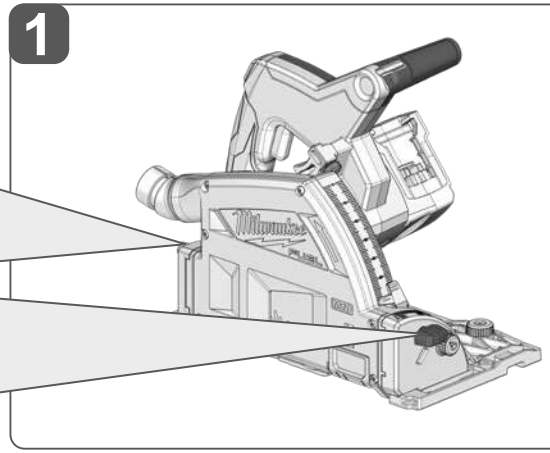


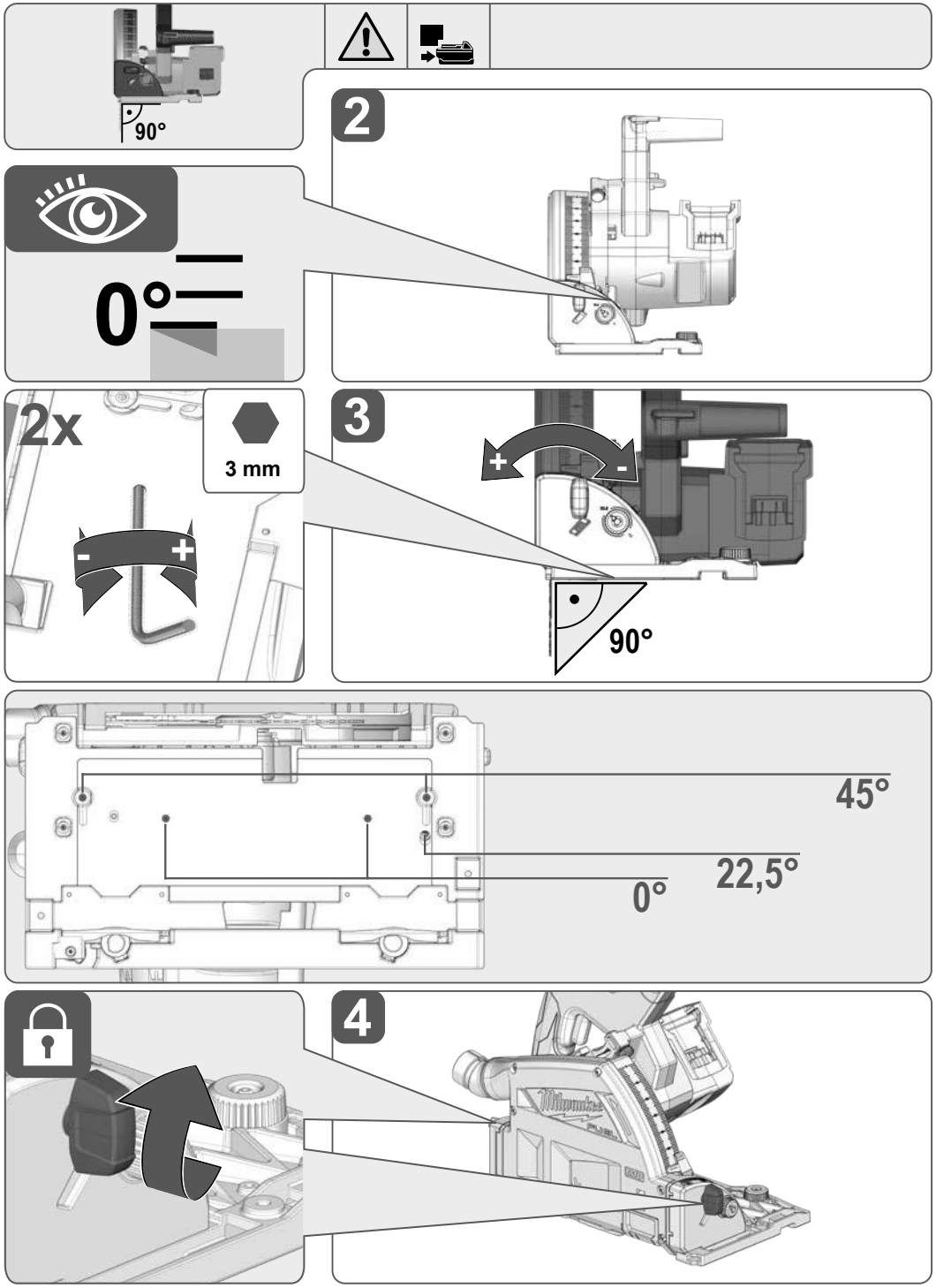


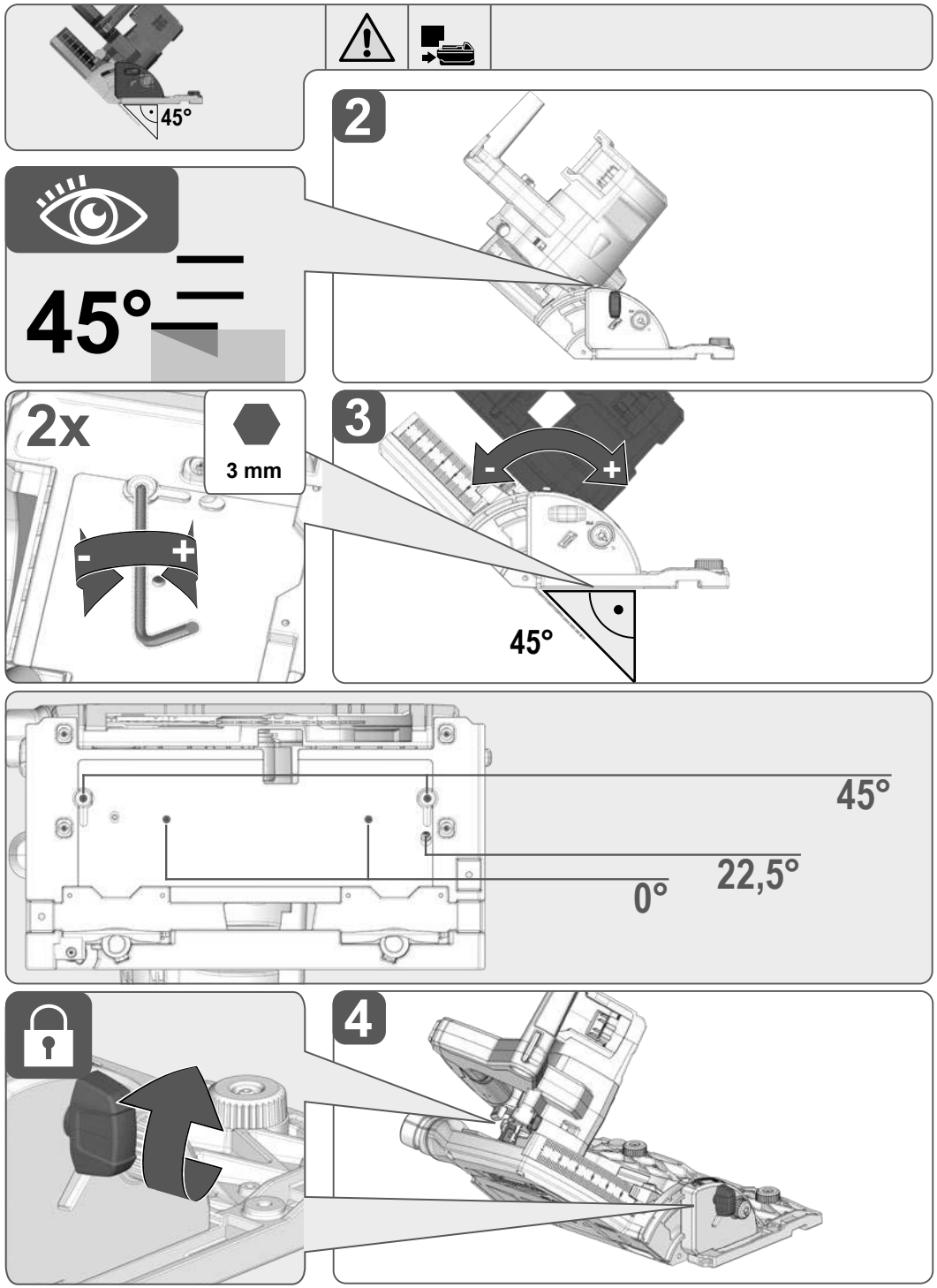
If a correction of the 90° angle of the guide-plate to the saw blade is necessary, use the correction screw.

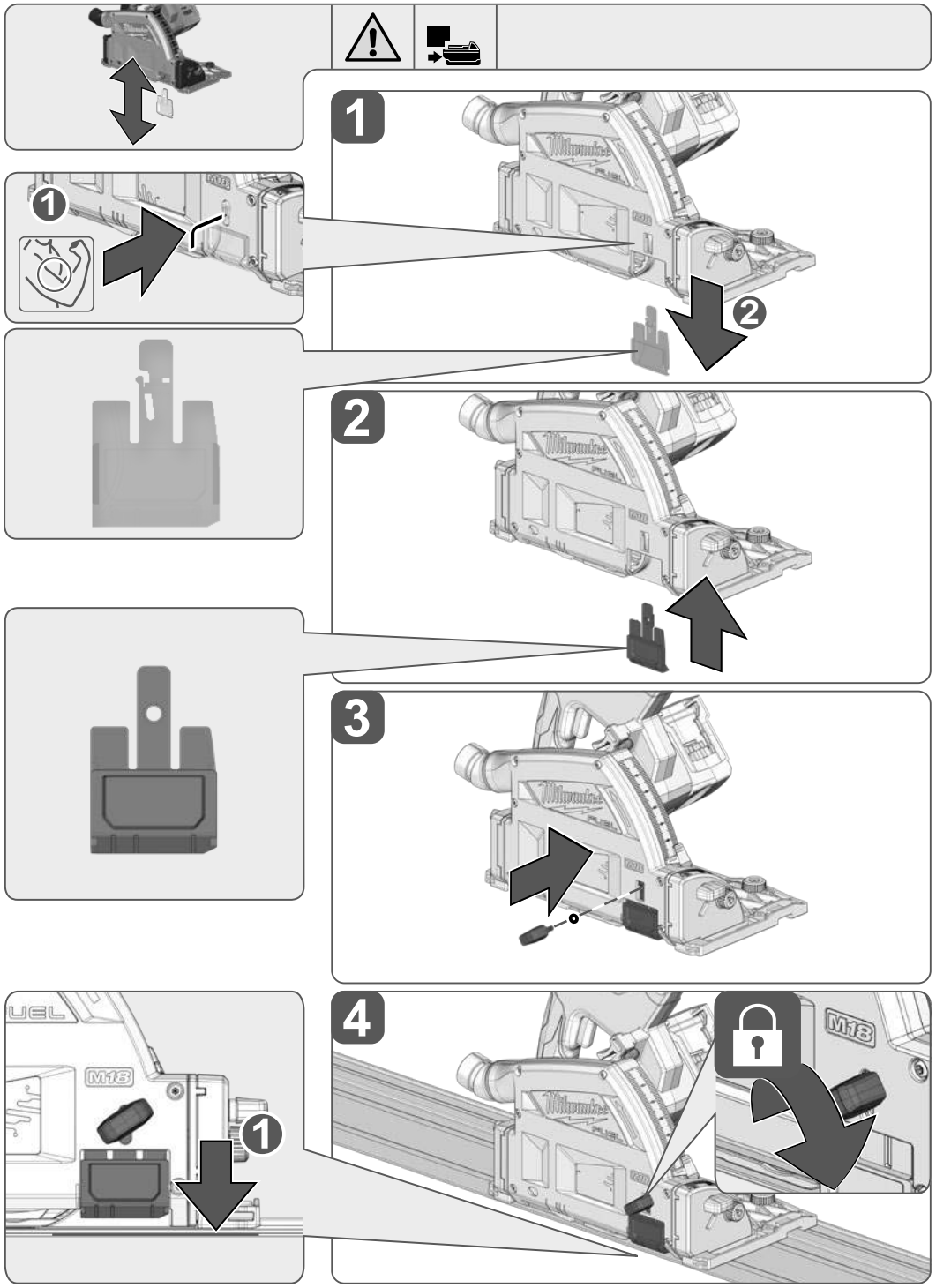


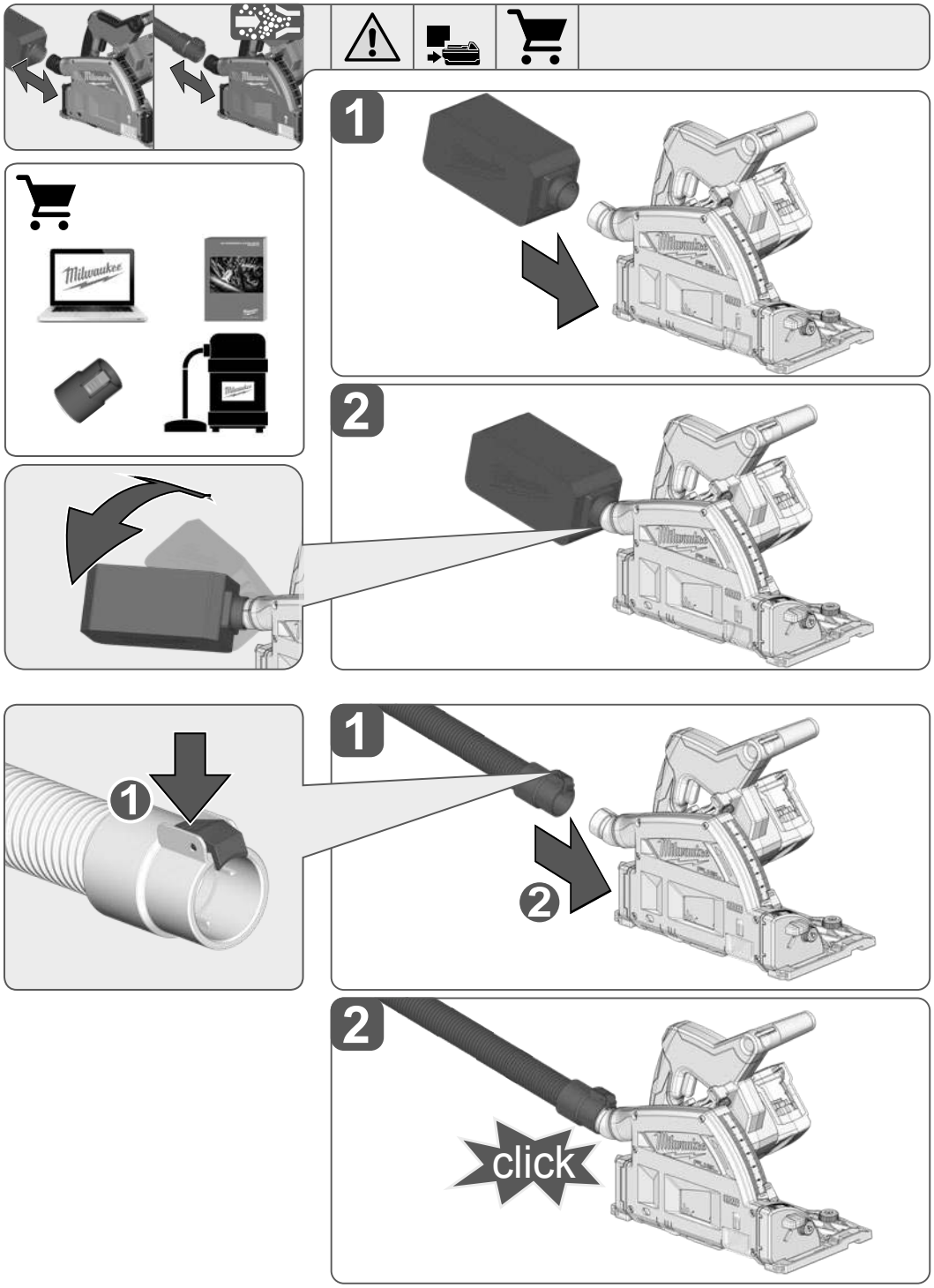
1



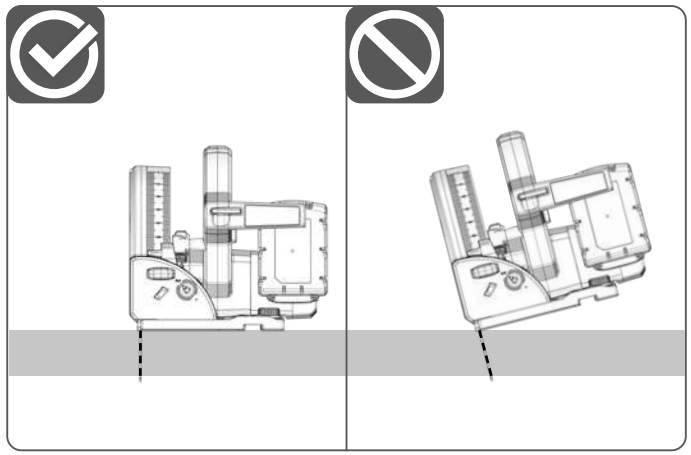

90°
2
0°
2x
3 mm
3
90°
45°
22,5°
0°
4

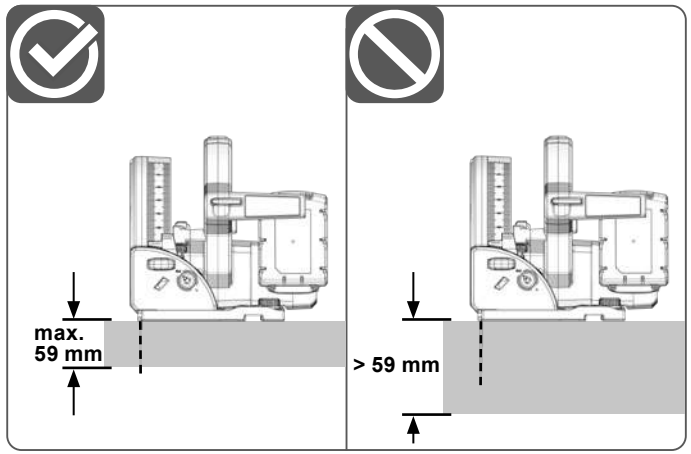

45°
2
45°
2x
3 mm
3
45°
45°
22,5°
0°
4

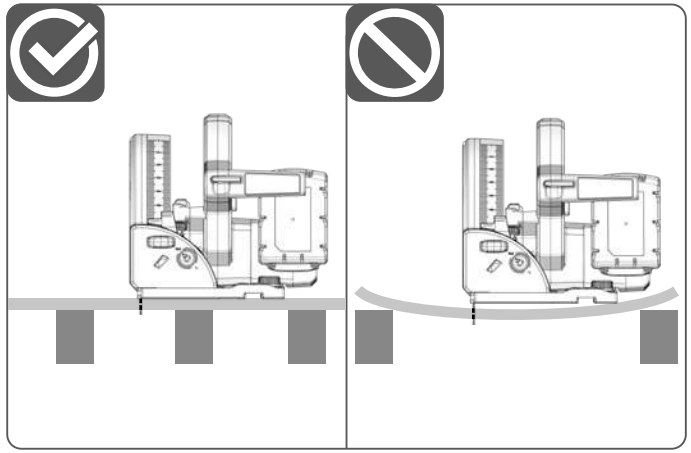

1
2
3
4
M18


1
2
click

TIP







TECHNICAL DATA	M18 FPS55
Type	Circular saw
Production code	4835 92 01 XXXXXX MJJJJ
Battery voltage	18 V
No-load speed	2500 - 5600 min^{-1}
Saw blade dia. x hole dia.	165 x 20 mm
Saw blade thickness	
Plate / Kerf	1,0 / 1,6 mm
Riving Knife Thickness	1,4 mm
Blade teeth	40
Bevel scale	-1° - 48°
Max. Cutting depth at 0° / 45°	
With Guiderail	54 / 42 mm
Without Guiderail	59 / 44 mm
Weight according EPTA-Procedure 01/2014 (Li-Ion 2,0 Ah ... 12,0 Ah)	4,48 ... 5,54 kg
Recommended Ambient Operating Temperature	-18 ... +50 °C
Recommended battery types	M18B...; M18HB...
Recommended charger	M12-18...; M1418C6
Noise information: Measured values determined according to EN 62841. Typically, the A-weighted noise levels of the tool are::	
Sound pressure level / Uncertainty K	92,4 dB (A) / 3 dB (A)
Sound power level / Uncertainty K	103,4 dB (A) / 3 dB (A)
Wear ear protectors!	
Vibration information: Vibration total values (triaxial vector sum) determined according to EN 62841	
Vibration emission value a_h / Uncertainty K=	
Sawing of wood	0,56 m/s^2 / 1,5 m/s^2

⚠ WARNING!

The vibration and noise emission level given in this information sheet has been measured in accordance with a standardized test given in EN 62841 and may be used to compare one tool with another. It may be used for a preliminary assessment of exposure.

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

An estimation of the level of exposure to vibration and noise should also take into account the times when the tool is switched off or when it is running but not actually doing the job. This may significantly reduce the exposure level over the total working period.

Identify additional safety measures to protect the operator from the effects of vibration and/or noise such as: maintain the tool and the accessories, keep the hands warm, organization of work patterns.

⚠ 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.

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 accessory 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.

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.

i) Always have the viewing window or splinter guard in place during use.

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.

Guard function

a) Check the guard for proper closing before each use. Do not operate the saw if the guard does not move freely and enclose the blade instantly. Never clamp or tie the guard so that the blade is exposed. If the saw is accidentally dropped, the guard may be bent. Check to make sure that the guard moves freely and does not touch the blade or any other part, in all angles and depths of cut.

b) Check the operation and condition of the guard return spring. If the guard and the spring are not operating properly, they must be serviced before use. The guard may operate sluggishly due to damaged parts, gummy deposits, or a build-up of debris.

c) Assure that the base plate of the saw will not shift while performing a "plunge cut". Blade shifting sideways will cause binding and likely kick back.

d) Always observe that the 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.

e) Keep the blade guard area free of accumulated sawdust and debris. Saw may operate sluggishly due to a build-up of debris which could result in possible serious injury. Wear appropriate PPE while clearing out the blade guard area using compressed air.

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

d) 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.

Use only woodworking blades specified in this manual, which comply with EN 847-1.

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

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

Do not use abrasion discs in this machine!

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

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

Use only System M18 chargers for charging System M18 battery packs.

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

When cutting plastic, avoid overheating the blade and blade teeth to prevent melting the workpiece.

SPECIFIED CONDITIONS OF USE

This electronic circular saw can cut lengthways and mitre accurately in wood.
Do not use the product in any way other than those stated for intended use.

RESIDUAL RISK

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

- Injury caused by vibration. Hold the product by designated handles and restrict working time and exposure.
- Exposure to noise can cause hearing injury. Wear ear protection and limit exposure.
- Injury due to flying debris. Wear eye protection, heavy long trousers, gloves and substancial footwear at all times.
- Inhalation of toxic dusts.

NOTES FOR LI-ION BATTERIES

Use of Li-Ion batteries

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

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

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

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

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

For battery pack storage longer than 30 days:

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

Battery protection for Li-Ion batteries

In extremely high torque, binding, stalling and short circuit situations that cause high current draw, the tool will vibrate for about 5 seconds, the fuel gauge will flash,and then the tool will turn OFF.

To reset, release the trigger. Under extreme circumstances, the internal temperature of the battery pack could raise too much. If this happens, the fuel gauge will flash until the battery pack cooled down. After the lights go off, the work may continue.

Transporting Lithium Batteries

Lithium-ion batteries are subject to the Dangerous Goods Legislation requirements.
Transportation of those batteries has to be done in accordance with local, national and international provisions and regulations.
The user can transport the batteries by road without further requirements.
Commercial transport of Lithium-Ion batteries by third parties is subject to Dangerous Goods regulations. Transport preparation and transport are exclusively to be carried out by appropriately trained persons and the process has to be accompanied by corresponding experts.
When transporting batteries::
Ensure that battery contact terminals are protected and insulated to prevent short circuit.
Ensure that battery pack is secured against movement within packaging. Do not transport batteries that are cracked or leak. Check with forwarding company for further advice.

WORKING INSTRUCTIONS

Adapt the feed speed to avoid overheating the blade tips.

CLEANING

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

Clean dust and debris from vents. Keep handle clean, dry and free of oil or grease. Use only mild soap and a damp cloth to clean, since certain cleaning agents and solvents are harmful to plastics and other insulated parts. Some of these include gasoline, turpentine, lacquer thinner, paint thinner, chlorinated cleaning solvents, ammonia and household detergents containing ammonia. Never use flammable or combustible solvents around tools.
Blade guard: Keep the blade guard area free of accumulated sawdust and debris. Saw may operate sluggishly due to a build-up of debris which could result in possible serious injury. Wear appropriate PPE while clearing out the blade guard area using compressed air.

MAINTENANCE

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 at: Techtronic Industries GmbH, Max-Eyth-Straße 10, 71364 Winnenden, Germany.

SYMBOLS

	Please read the instructions carefully before starting the machine.
	CAUTION! WARNING! DANGER!
	Remove the battery pack before starting any work on the appliance.
	Do not use force.
	Always wear goggles when using the machine.
	Wear ear protectors!
	Wear a suitable dust protection mask.
	Wear gloves!
	Rotation direction
	Accessory - Not included in standard equipment, available as an accessory.
	Do not dispose of waste batteries, waste electrical and electronic equipment as unsorted municipal waste. Waste batteries and waste electrical and electronic equipment must be collected separately. Waste batteries, waste accumulators and light sources have to be removed from equipment. Check with your local authority or retailer for recycling advice and collection point. According to local regulations retailers may have an obligation to take back waste batteries and Waste electrical and electronic equipment free of charge. Your contribution to re-use and recycling of waste batteries and waste electrical and electronic equipment helps to reduce the demand of raw materials. Waste batteries, in particular containing lithium and waste Electrical and electronic equipment contain valuable, recyclable materials, which can adversely impact the environment and the human health, if not disposed of in an environmentally compatible manner. Delete personal data from waste equipment, if any.
n_0	No-load speed
V	Voltage
⎓	Direct Current
CE	European Conformity Mark
UK CA	British Conformity Mark
001	Ukraine Conformity Mark
EAC	EurAsian Conformity Mark

GB-DECLARATION OF CONFORMITY

We declare as the manufacturer under our sole responsibility that the product described under “Technical Data” fulfills all the listed below relevant regulations and that the following designated standards have been used.

S.I. 2012/3032 (as amended)
S.I. 2016/1091 (as amended)

S.I. 2008/1597 (as amended)

BS EN 62841-1:2015
BS EN 62841-2-5:2014
BS EN IEC 55014-1:2021
BS EN IEC 55014-2:2021
BS EN IEC 63000:2018

Winnenden, 2022-06-07



Alexander Krug
Managing Director

Techtronic Industries GmbH
Max-Eyth-Straße 10
71364 Winnenden
Germany

Authorized to compile the technical file:

Techtronic Industries (UK) Ltd
Parkway
Marlow, SL7 1YL
UK

Techtronic Industries GmbH
Max-Eyth-Straße 10
71364 Winnenden
Germany

Copyright 2022

Techtronic Industries GmbH
Max-Eyth-Straße 10
71364 Winnenden
Germany
+49 (0) 7195-12-0
www.milwaukeetool.eu

Techtronic Industries (UK) Ltd
Parkway
Marlow, SL7 1YL
UK

(07.22)
4931 4252 80