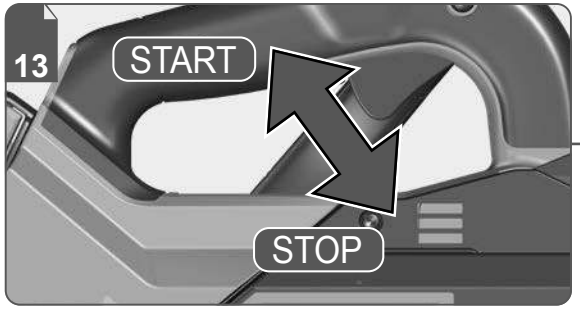
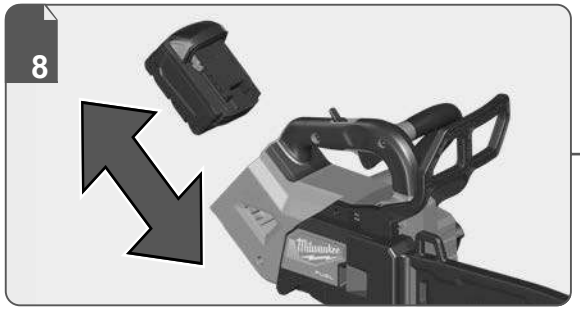
Nothing but **HEAVY DUTY.®**

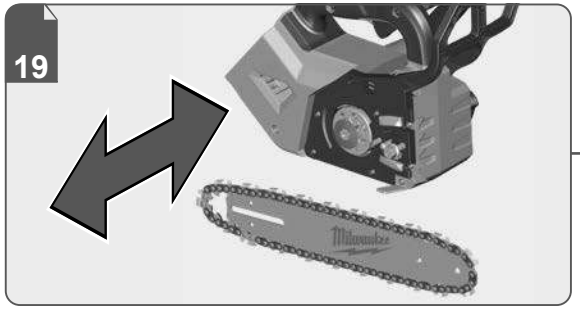


M18 FTHCHS30
M18 FTHCHS35

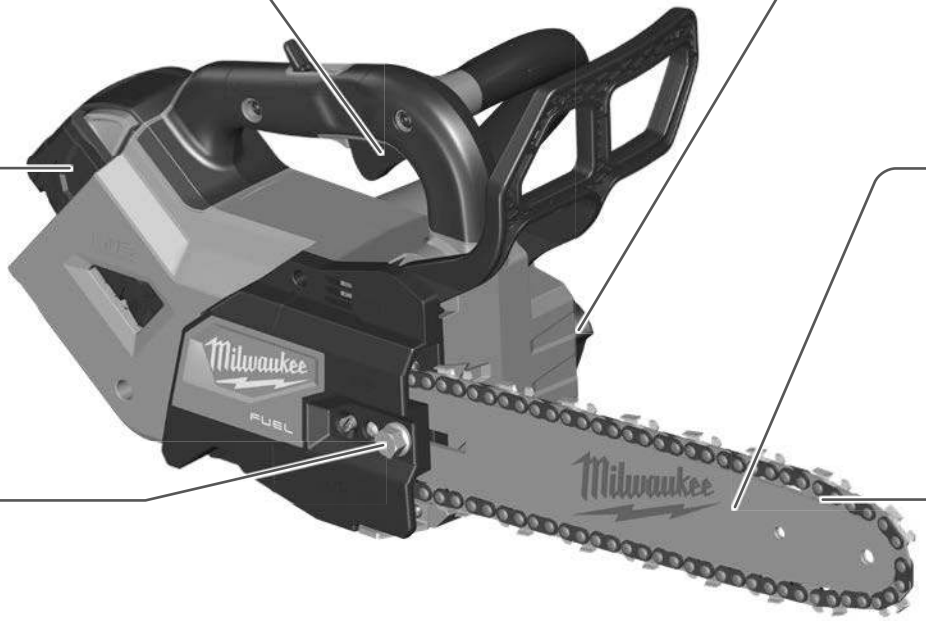
Original instructions

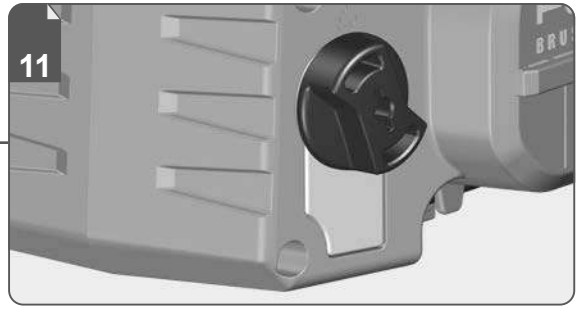

13
START
STOP

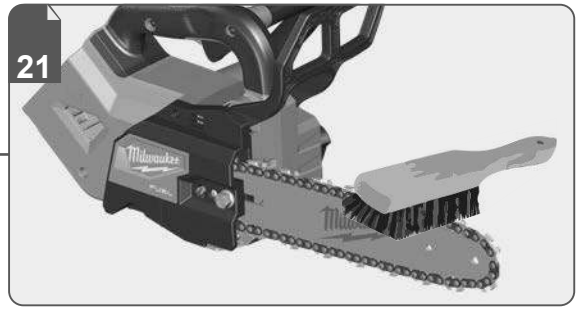

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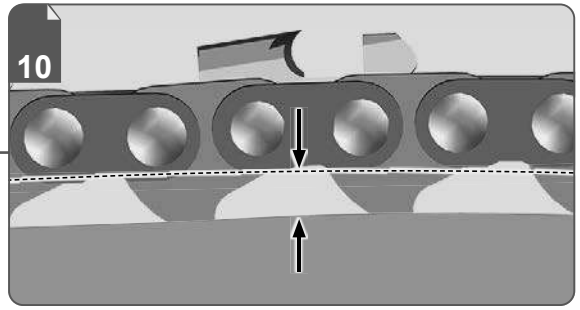

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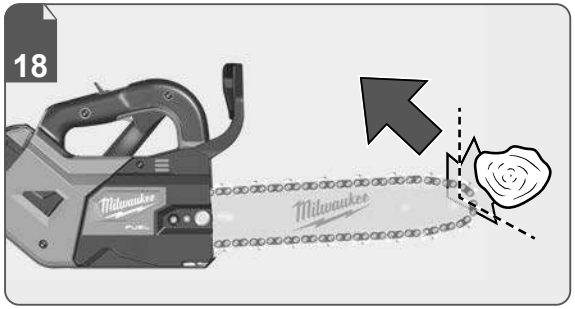

15


Milwaukee
FUEL
Milwaukee


11

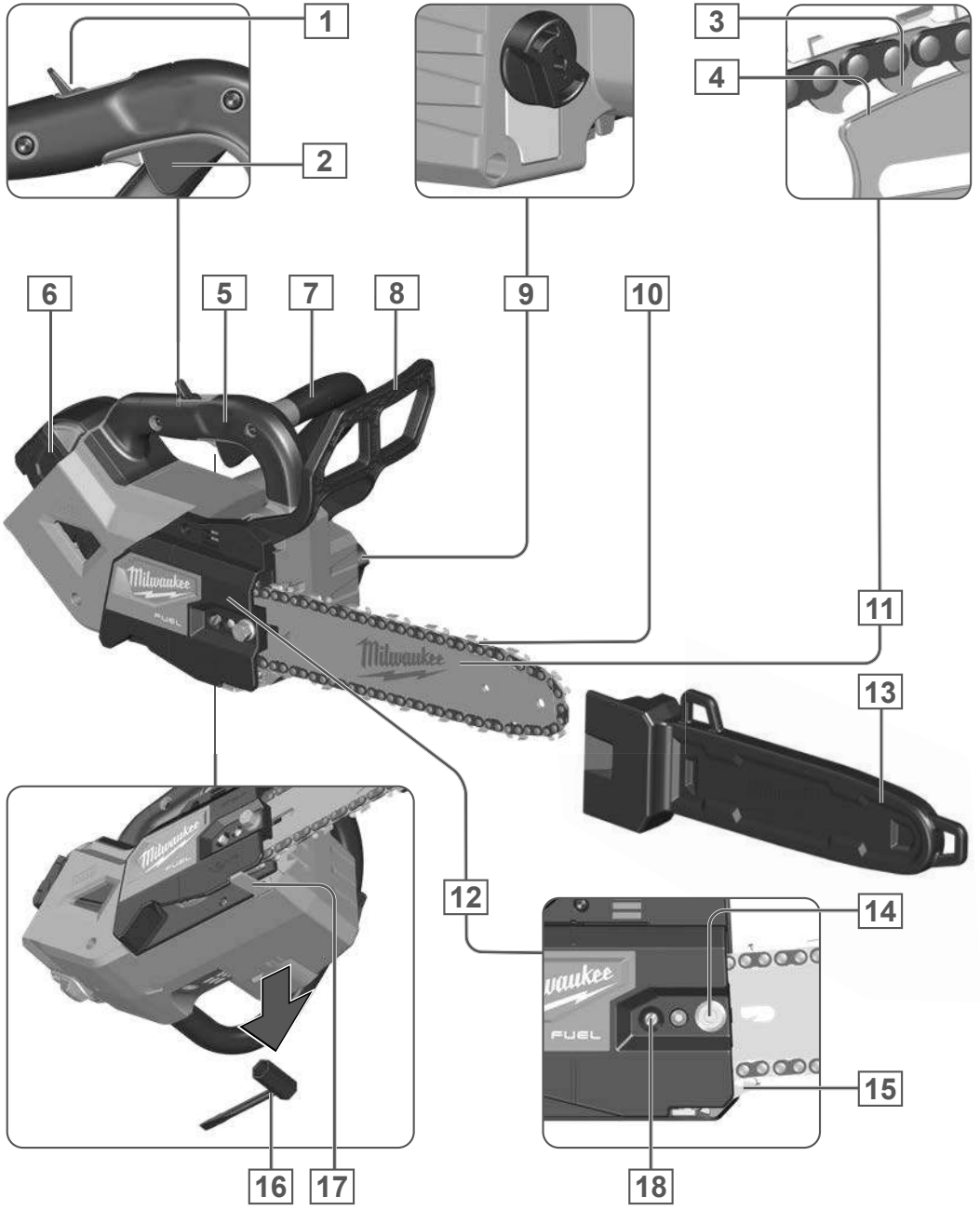

21


10


18




Milwaukee
FUEL
Milwaukee
OIL
Milwaukee


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Milwaukee
FUEL



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

Vor allen Arbeiten an der Maschine den Wechselakku herausnehmen.

Avant tous travaux sur la machine retirer l'accu interchangeable.

Prima di iniziare togliere la batteria dalla macchina.

Retire la batería antes de comenzar cualquier trabajo en la máquina.

Antes de efectuar qualquer intervenção na máquina retirar o bloco acumulador.

Voor alle werkzaamheden aan de machine de akku verwijderen.

Ved arbejde inden i maskinen, bør batteriet tages ud.

Ta ut vekselbatteriet før du arbeider på maskinen

Drag ur batteripaket innan arbete utföres på maskinen.

Tarkista pistotulppa ja verkkojohto mahdollisilta vauriolta. Viat saa korjata vain alan erikoismies.

Πριν από κάθε εργασία στη μηχανή αφαιρείτε την ανταλλακτική μπαταρία.

Aletin kendinde bir çalışma yapmadan önce kartuş aküyü çıkarın.

Před zahájením veškerých prací na vrtacím šroubováku vyjmout výměnný akumulátor.

Pred každou prácou na stroji výmenný akumulátor vytiahnuť.

Przed przystąpieniem do jakichkolwiek prac na elektronarzędziu należy wyjąć wkładkę akumulatorową.

Karbantartás, javítás, tisztítás, stb. előtt az akkumulátort ki kell venni a készülékből.

Pred deli na stroju izvlecite izmenljivi akumulator.

Prije svih radova na stroju izvaditi bateriju za zamjenu.

Pirms mašīnai veikt jebkāda veida apkopes darbus, ir jāizņem ārā akumulātors.

Prieš atlikdami bet kokius darbus įrenginyje, išimkite keičiamą akumuliatorių.

Enne kõiki töid masina kallal võtke vahetatav aku välja.

Выньте аккумулятор из машины перед проведением с ней каких-либо манипуляций.

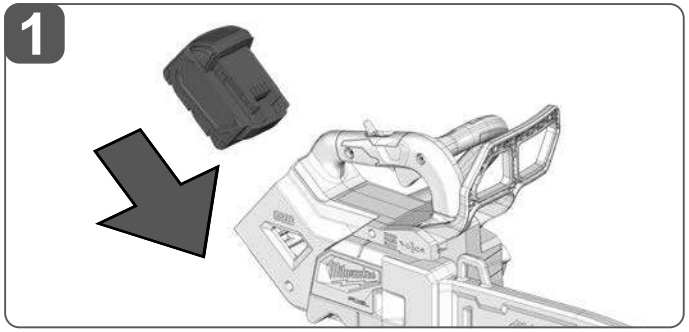
Преди започване на каквито е да е работи по машината извадете акумулатора.

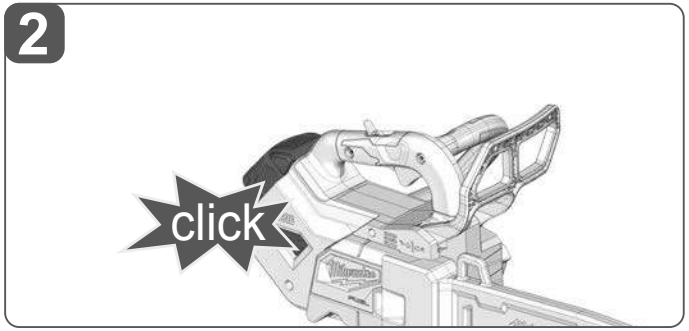
Scoateţi acumulatorul înainte de a începe orice intervenţie pe maşină.

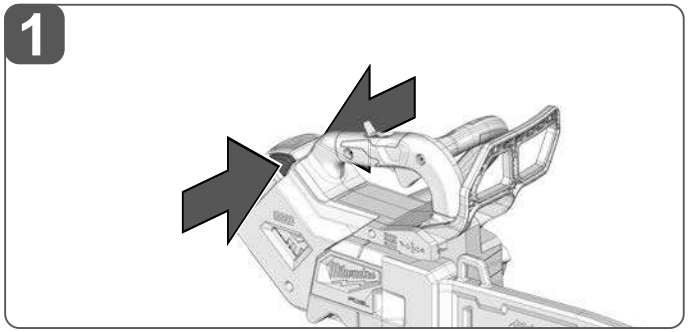
Отстранете ја батеријата пред да започнете да ја користите машината.

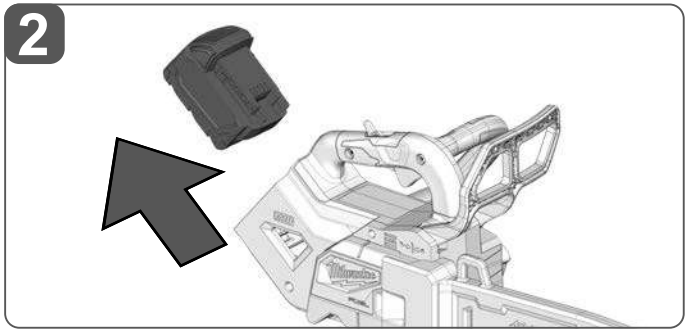
Перед будь-якими роботами на машині вийняти змінну акумуляторну батарею.

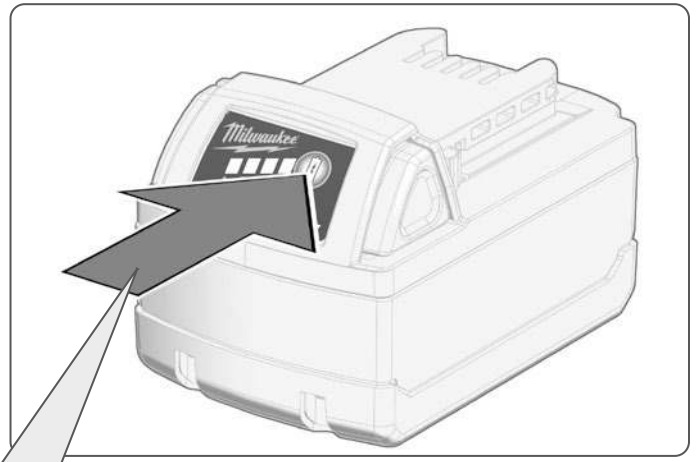
قم بإزالة حزمة البطارية قبل البدء في أي أعمال على الجهاز.













75-100 %



50-75 %



25-50 %

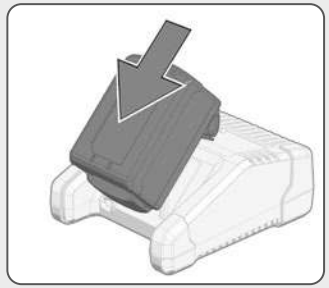


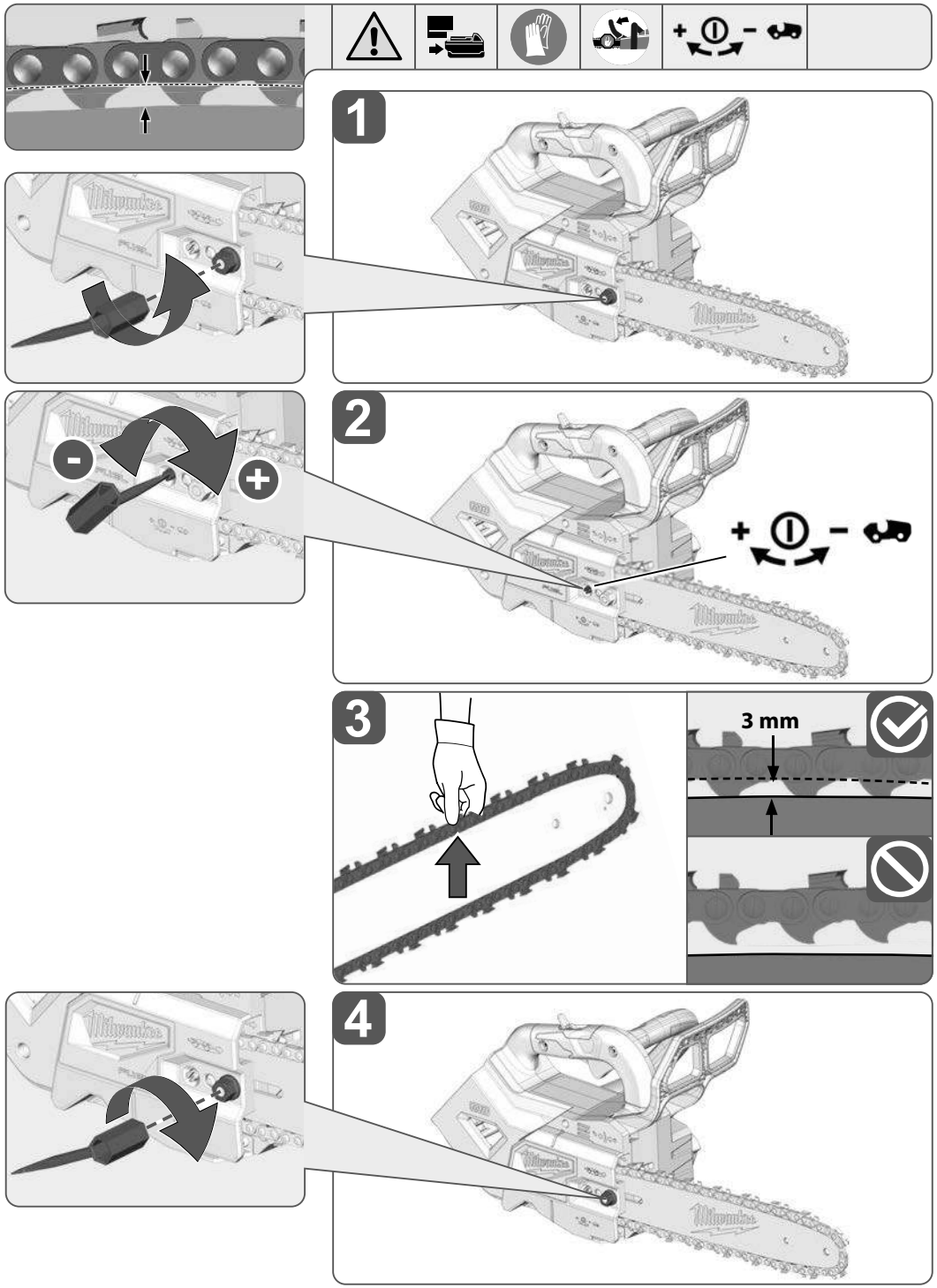
10-25 %

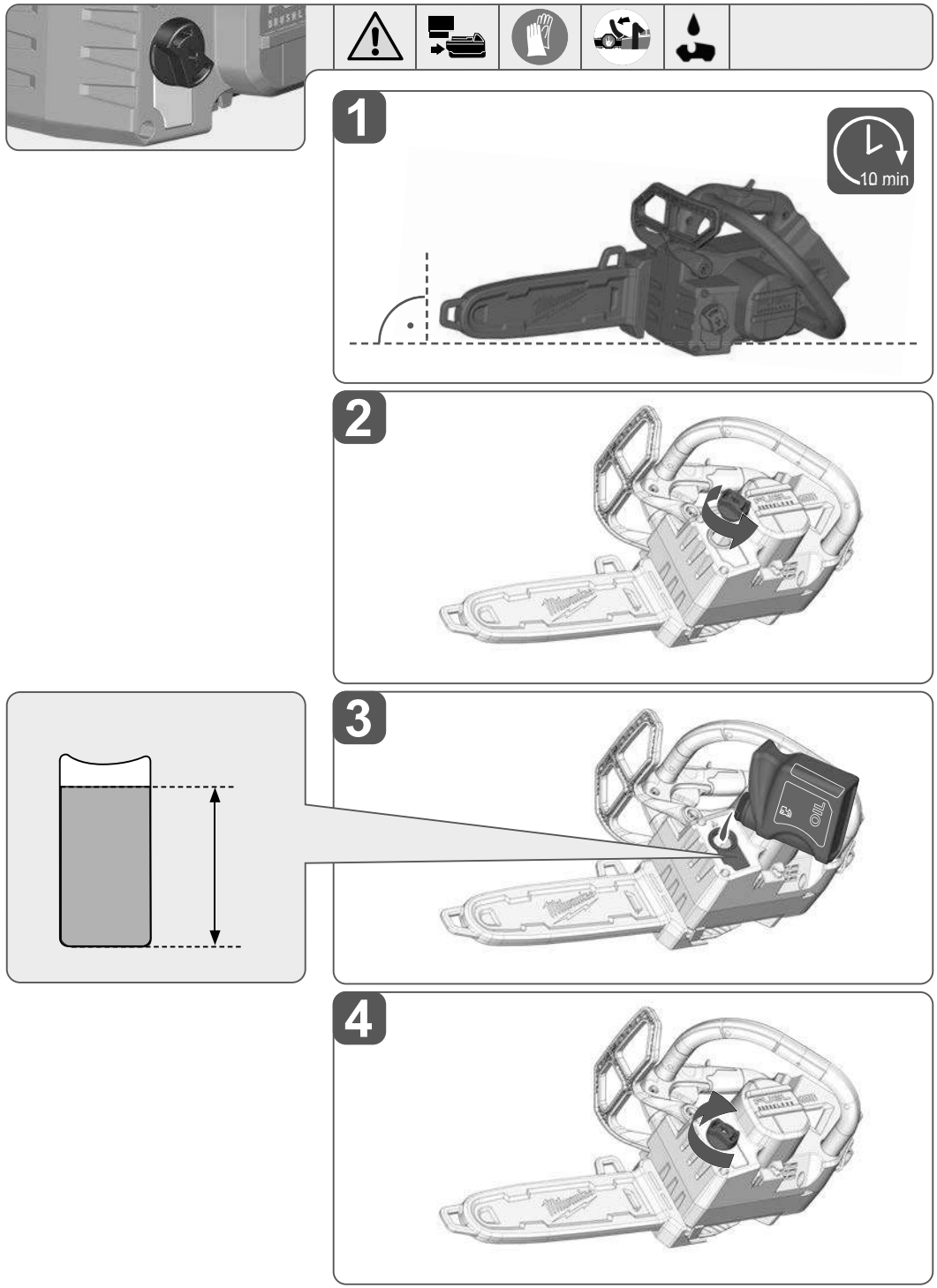


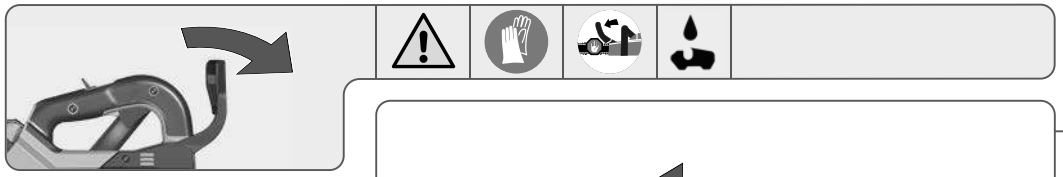
< 10 %



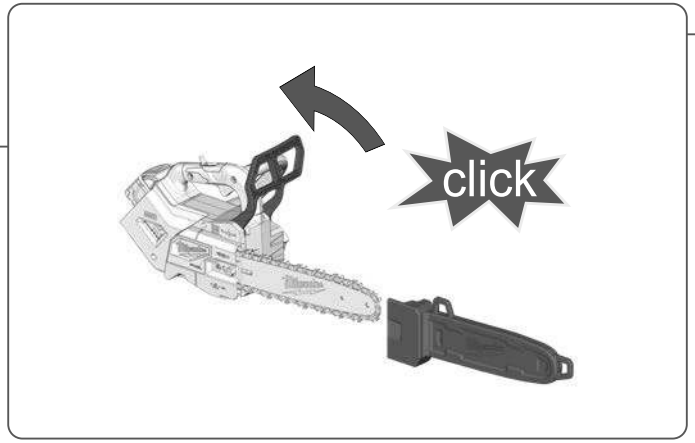


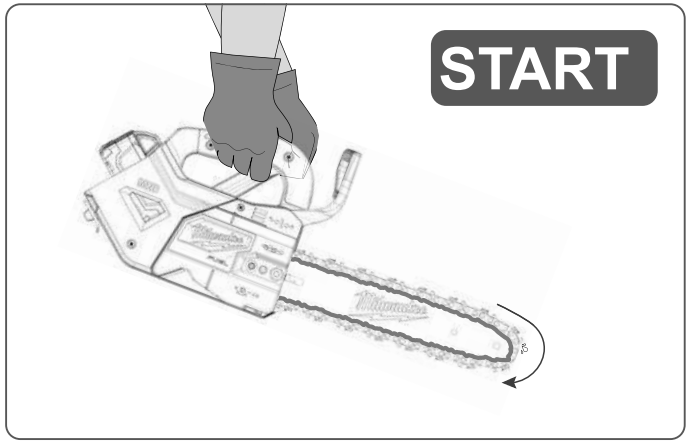

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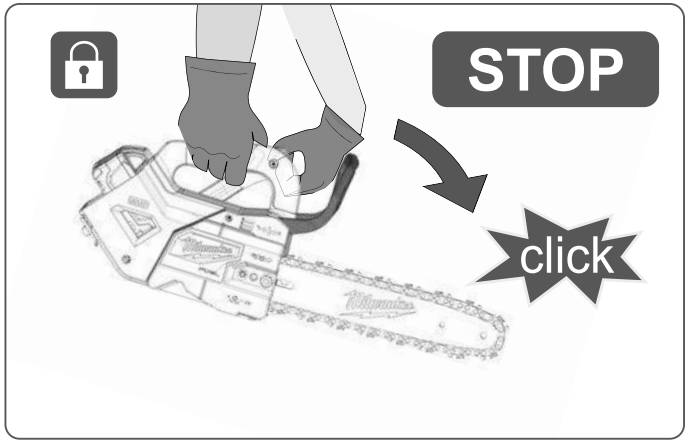

10 min
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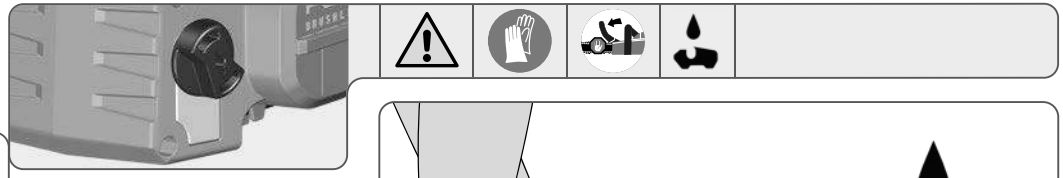


TEST

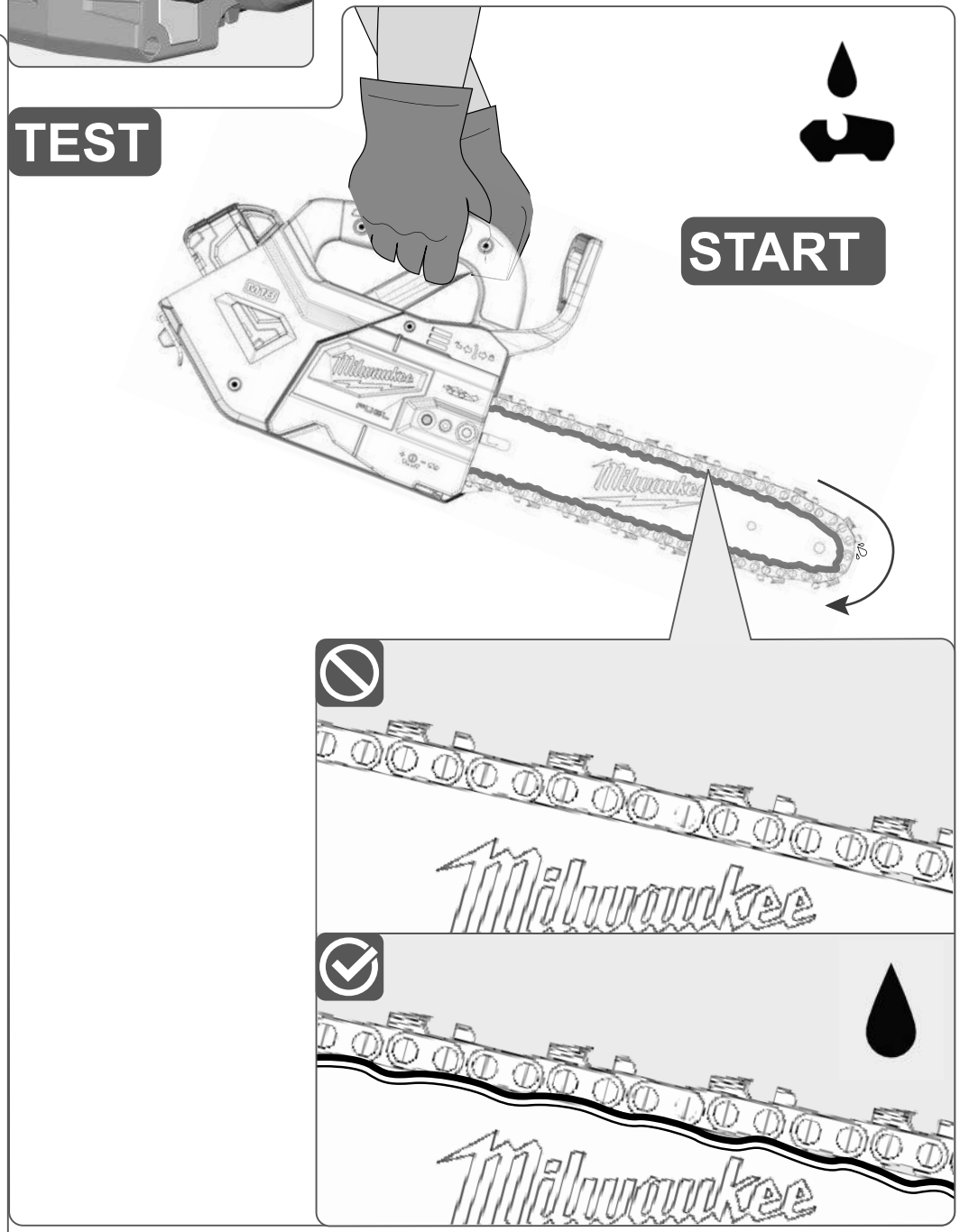


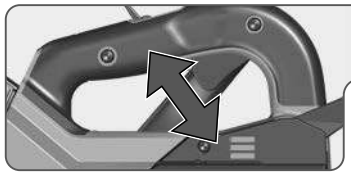


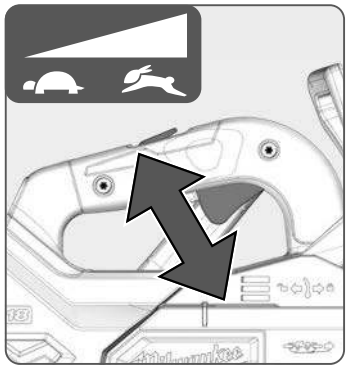




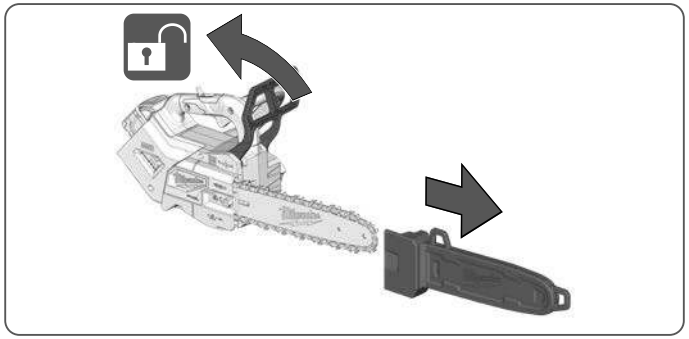
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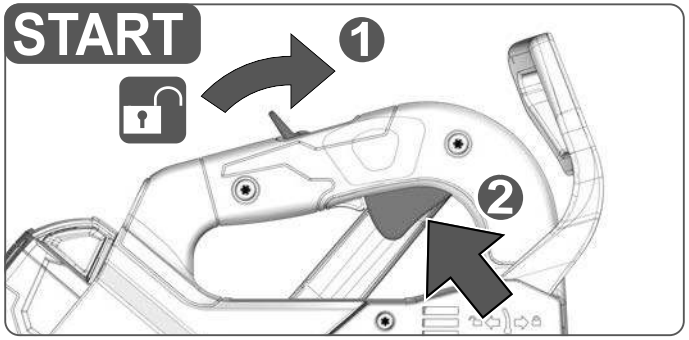


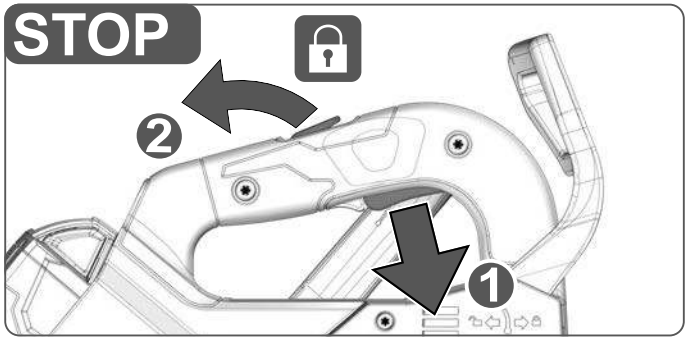


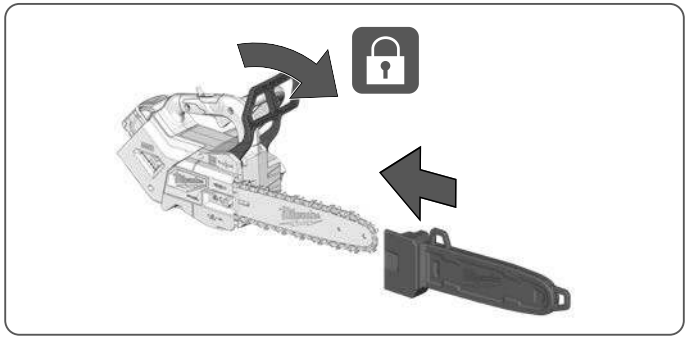


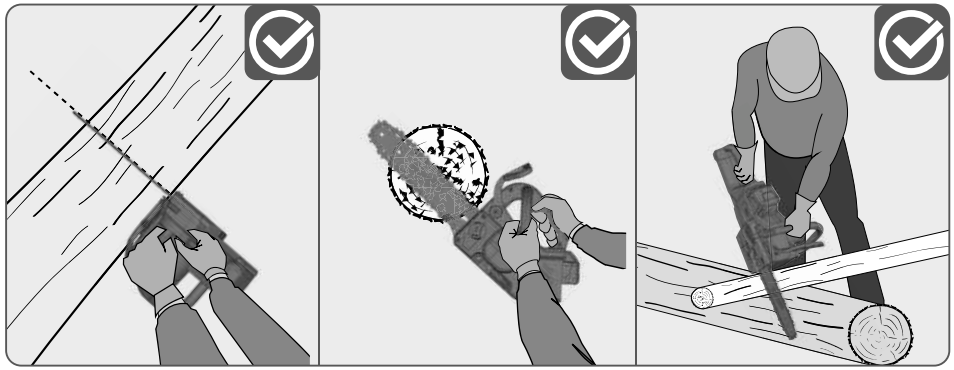
Carry out a test cut
Probeschnitt durchführen
Effectuer une coupe d'essai
Effettuare un taglio di prova
Efectuar corte de prueba
Efectuar experiências de corte
Proefsnede maken
Foretages et prøvesnit
Foreta prøvekutt
Gör ett provsnitt!
Πραγματοποιήστε μια δοκιμαστική τομή.
Deneme kesmesi yapın
Proveďte zkušební řez.
Vykonať skúšobný rez.
Wykonac próbę cięcia
Végezzen teszvágást
Opravite preizkusni rez!
Izvesti probno rezanje
Jāveic izmēģinājuma griezums!
Atlikite bandomąjį pjūvį!
Teha proovilõige!
Выполните пробный проход
Направете пробно рязане!
Efectuaţi un test de tăiere
Да се направи пробно сечење
Виконати пробне різання
إجراء اختبار القطع

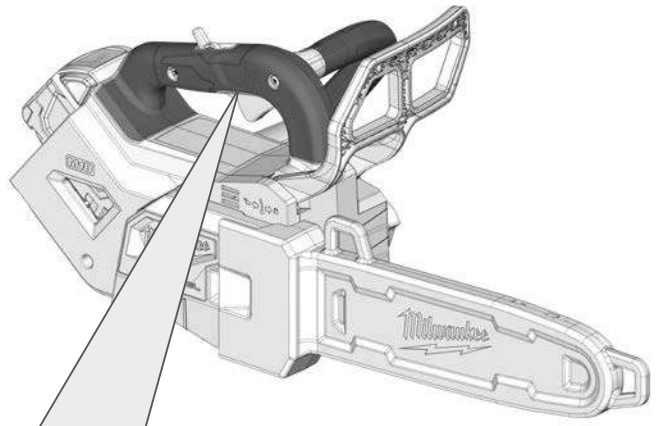




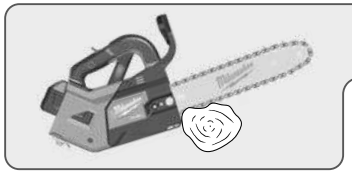




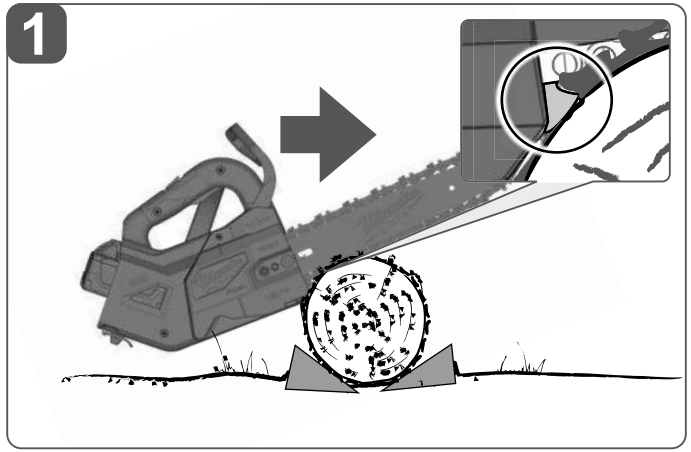


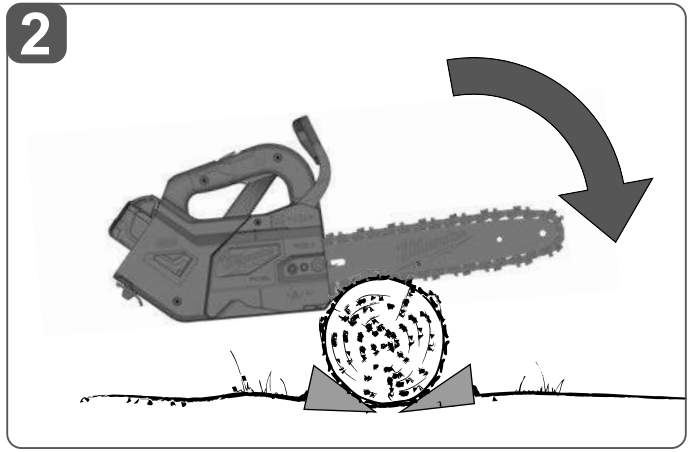


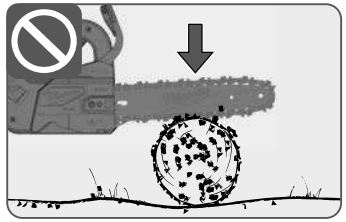
Insulated gripping surface
Isolierte Griffﬂäche
Surface de prise isolée
Superficie di presa isolata
Superficie de agarre con aislamiento
Superfície de pega isolada
Geïsoleerde handgrepen
Isolerede gribeflader
Isolert gripeflate
Isolerad greppyta
Eristetty tarttumapinta
Μονωμένη επιφάνεια λαβής
İzolasyonlu tutma yüzeyi
Izolovaná uchopovací plocha
Izolovaná úchopná plocha
Izolowana powierzchnia uchwytu
Szigetelt fogófelület
Izolirana prijemalna površina
Izolirana površina za držanje
Izolēta satveršanas virsma
Izoliuotas rankenos paviršius
Isoleeritud pideme piirkond
Изолированная поверхность ручки
Изолирана повърхност за хващане
Suprafaţă de prindere izolată
Изолирана површина на дршката
Ізольована поверхня ручки
مساحة المقبض معزولة

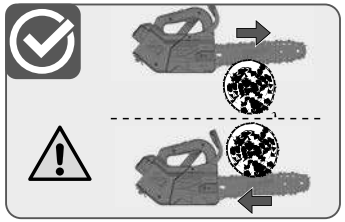


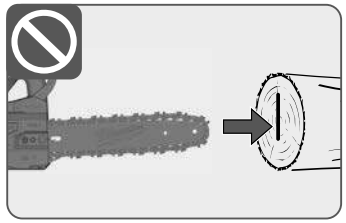


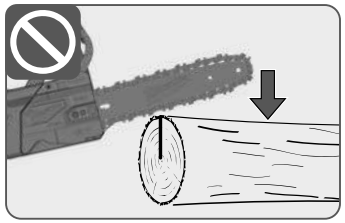

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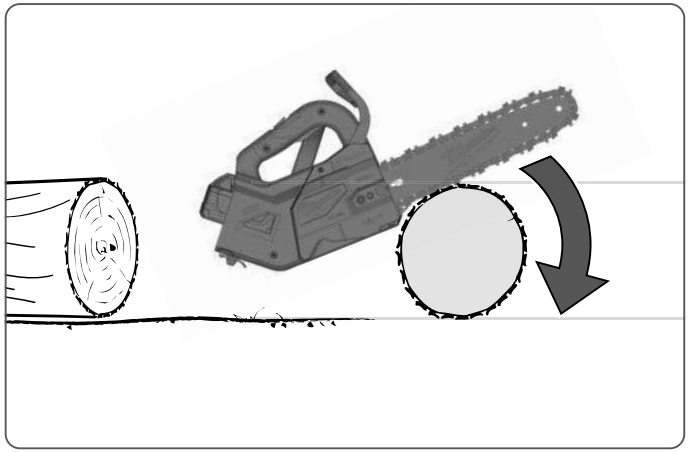

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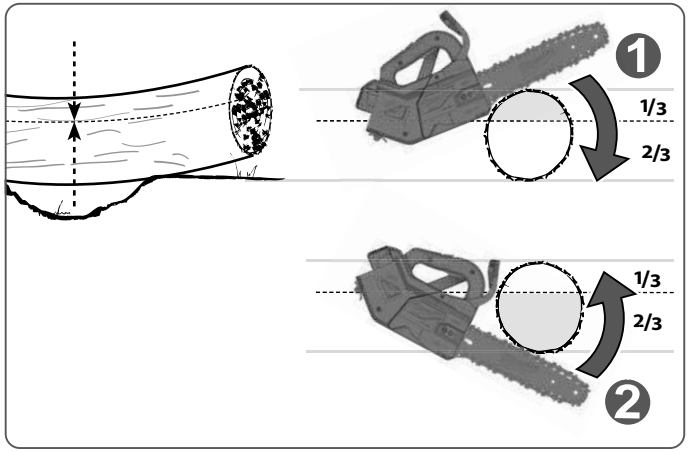


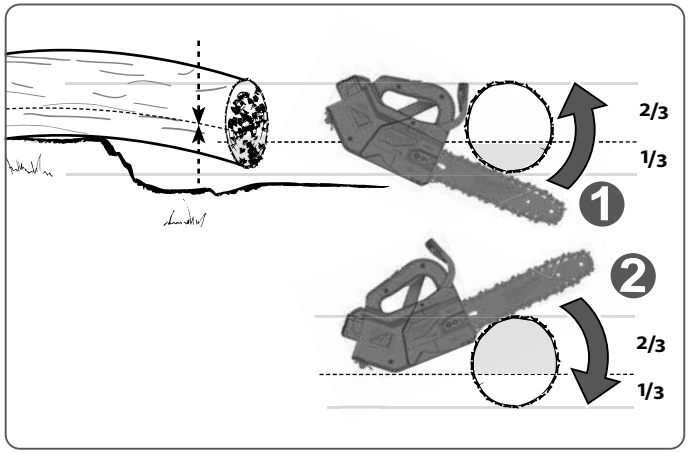




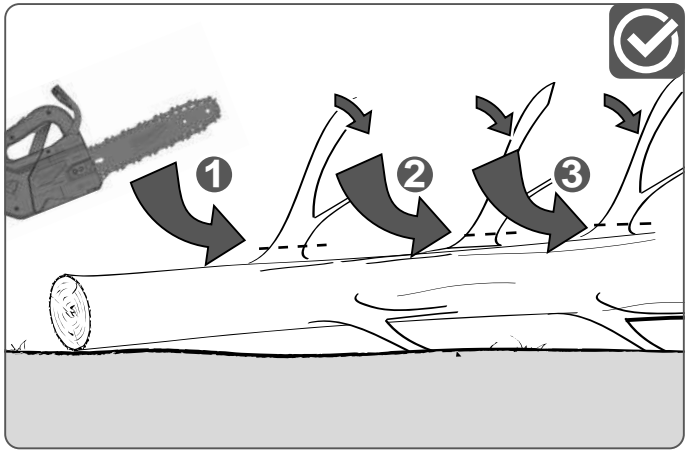


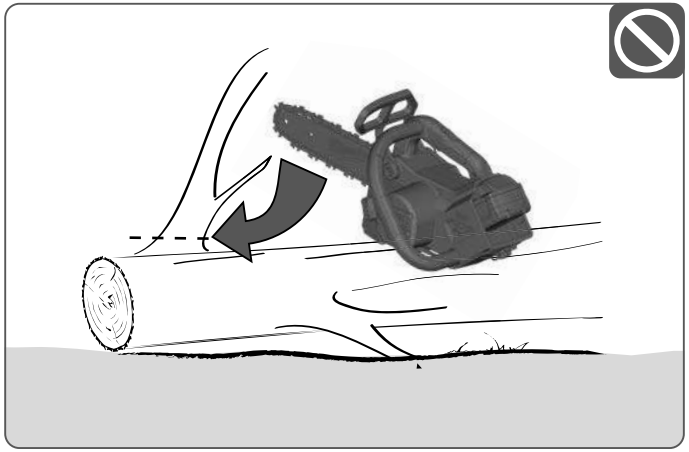


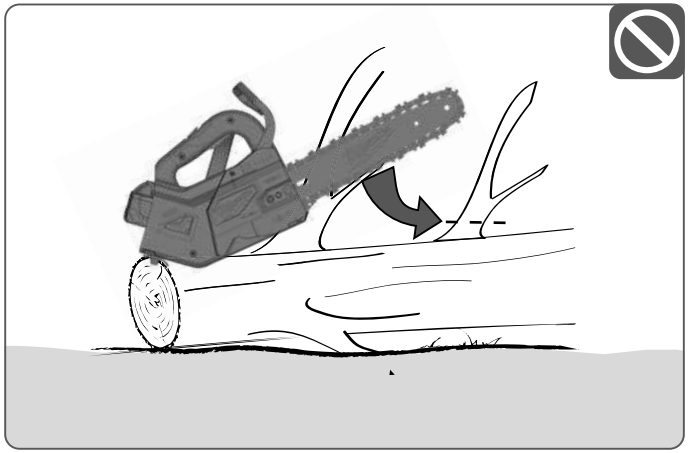

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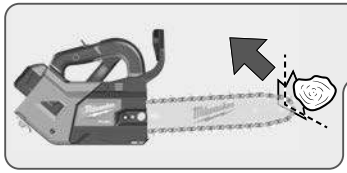

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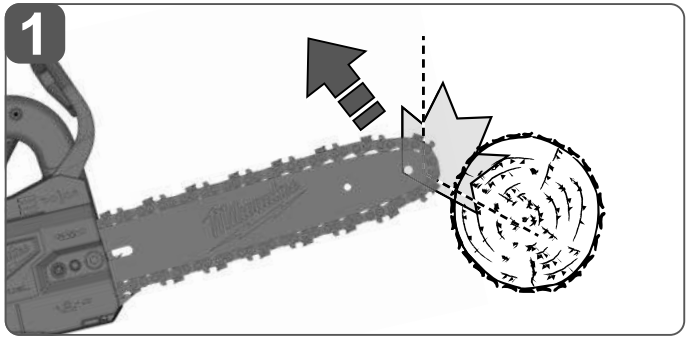


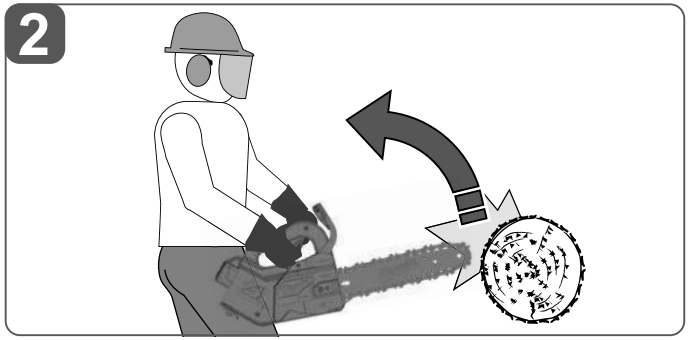

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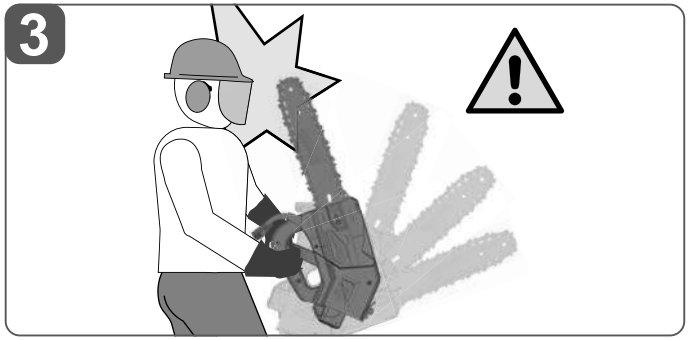


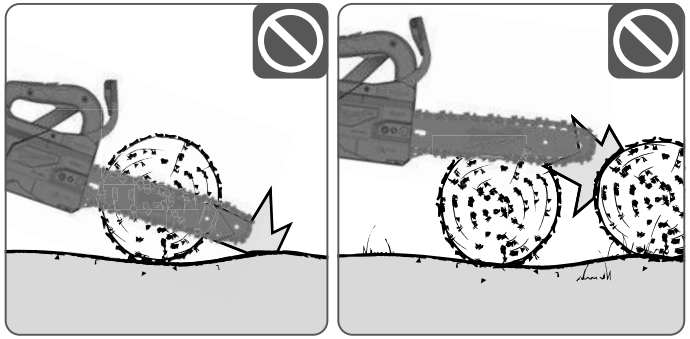


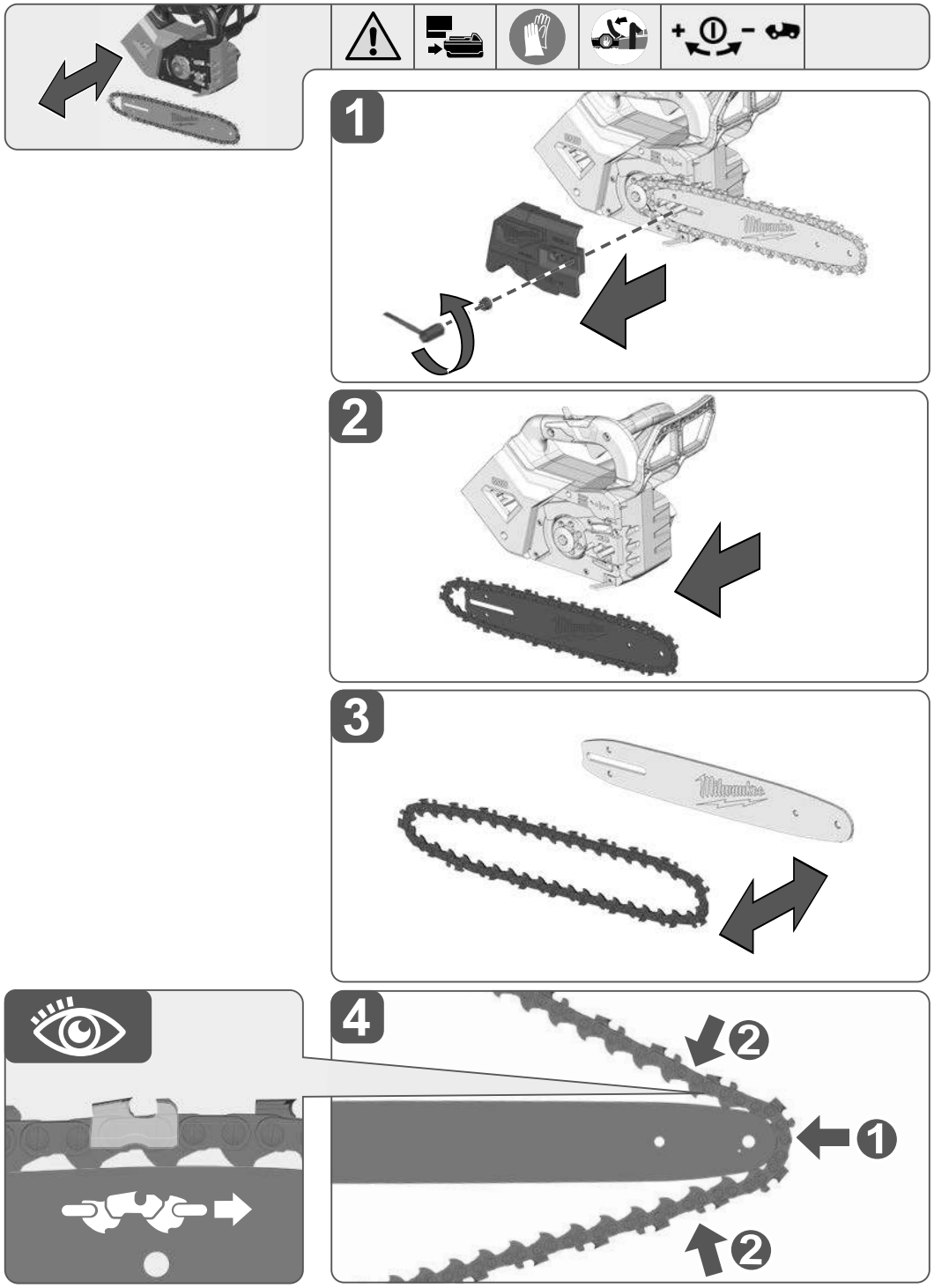


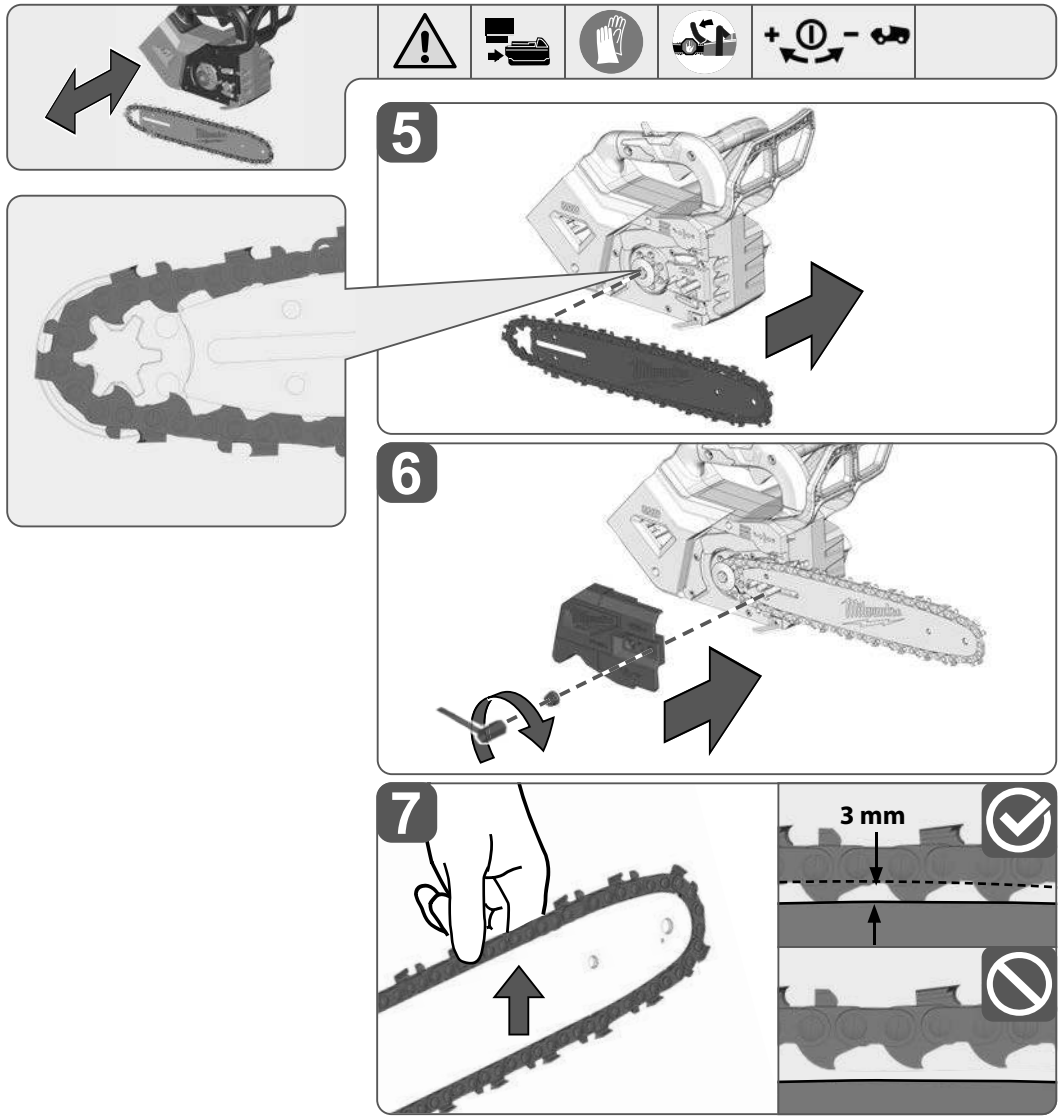

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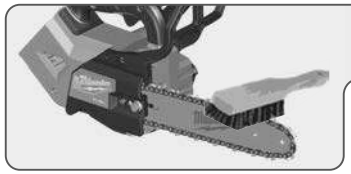

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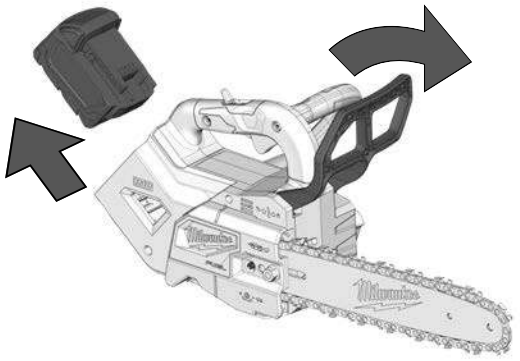



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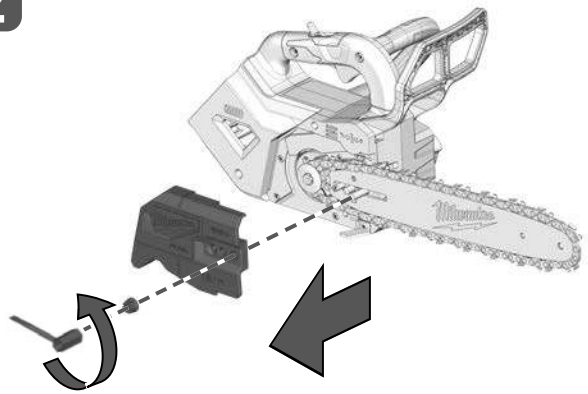

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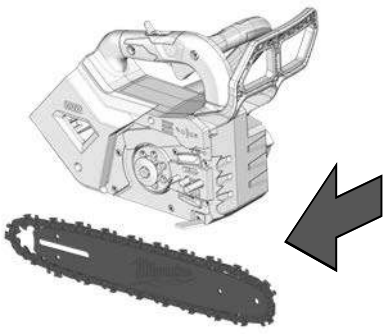
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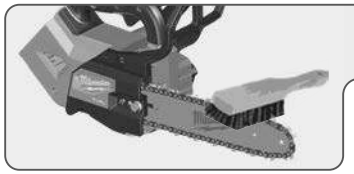


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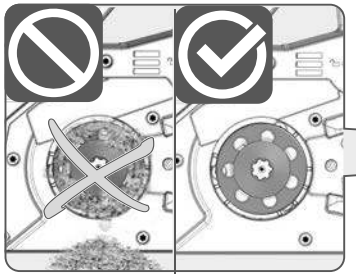


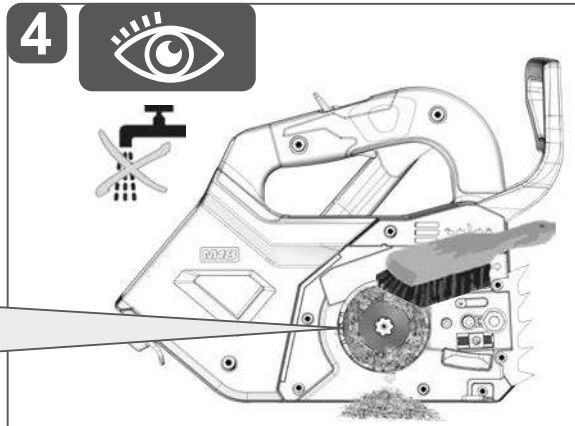
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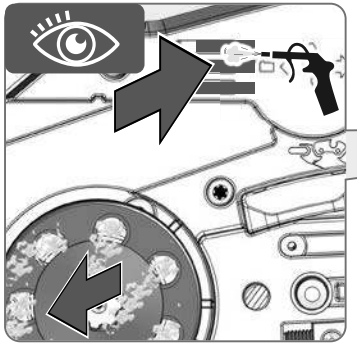


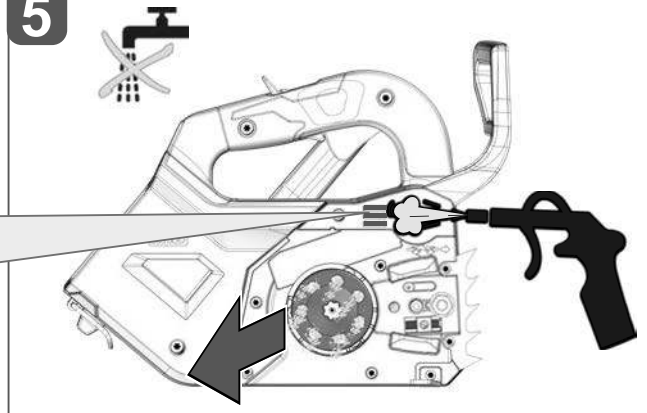
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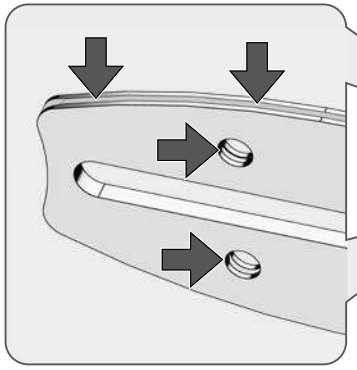


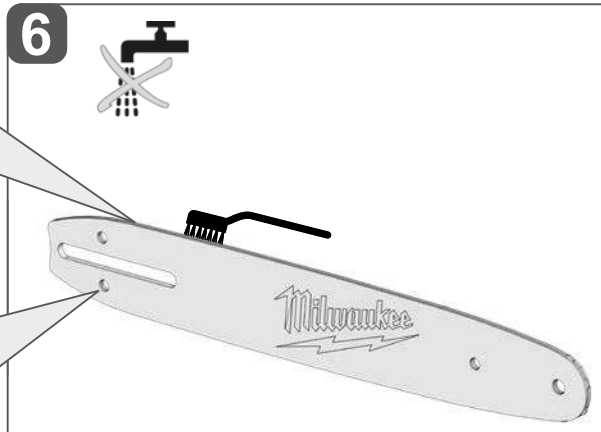
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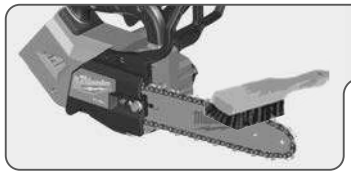


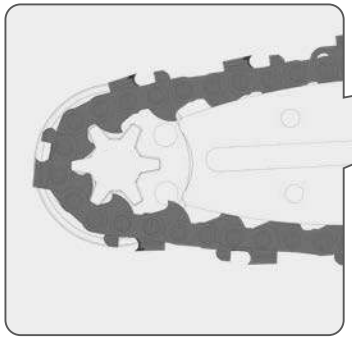


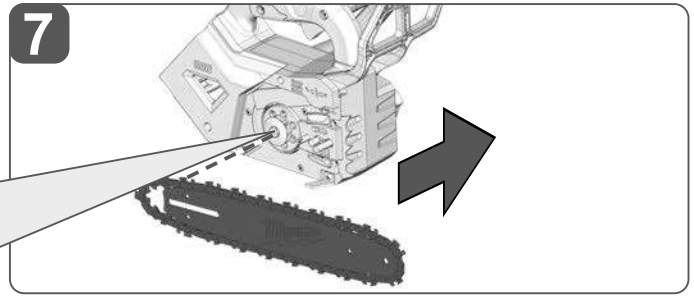
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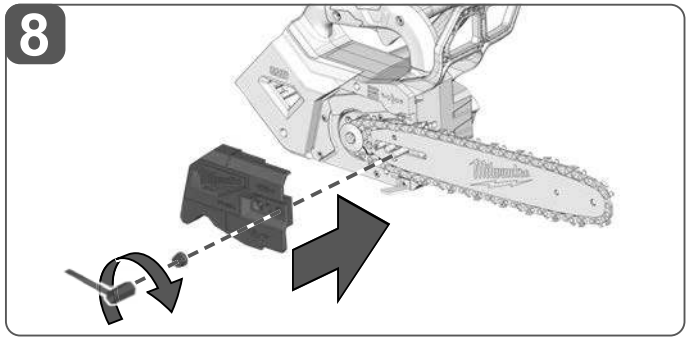


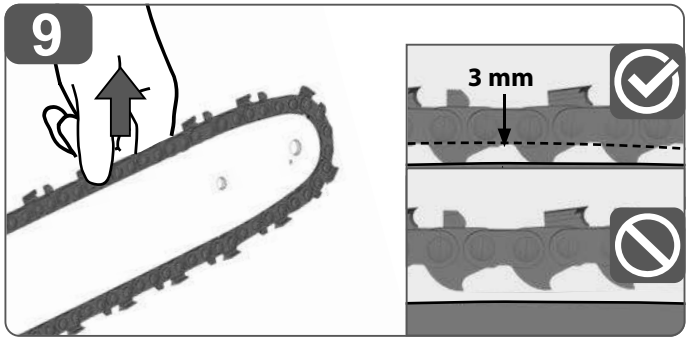


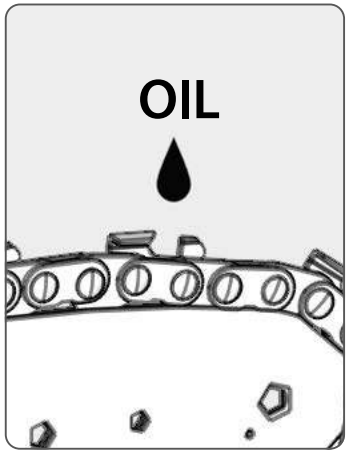


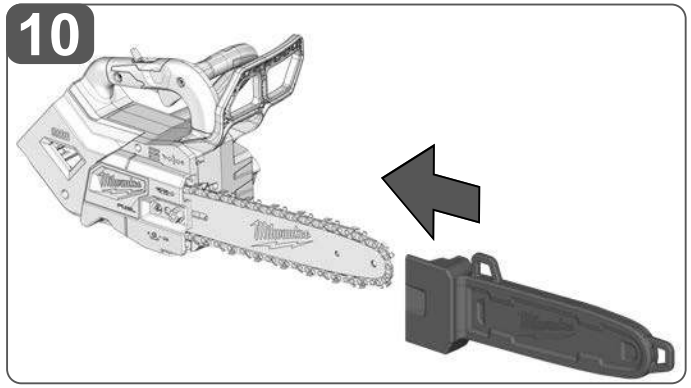


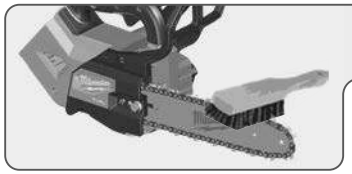

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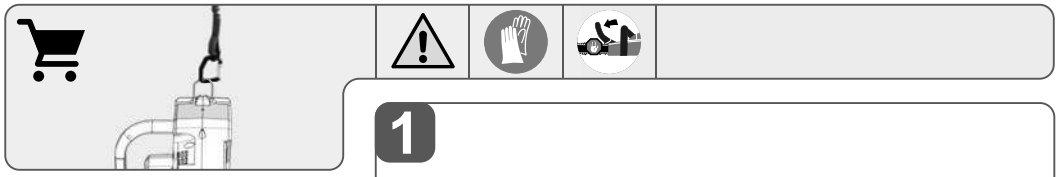

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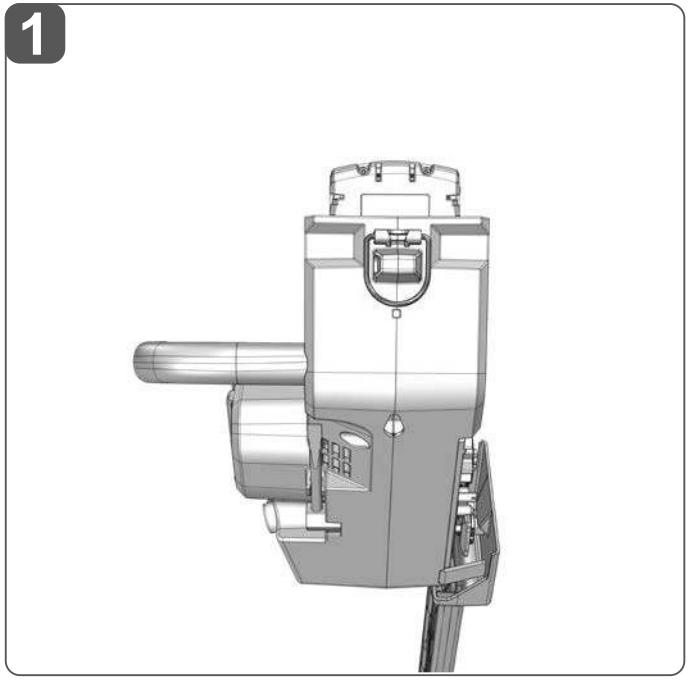

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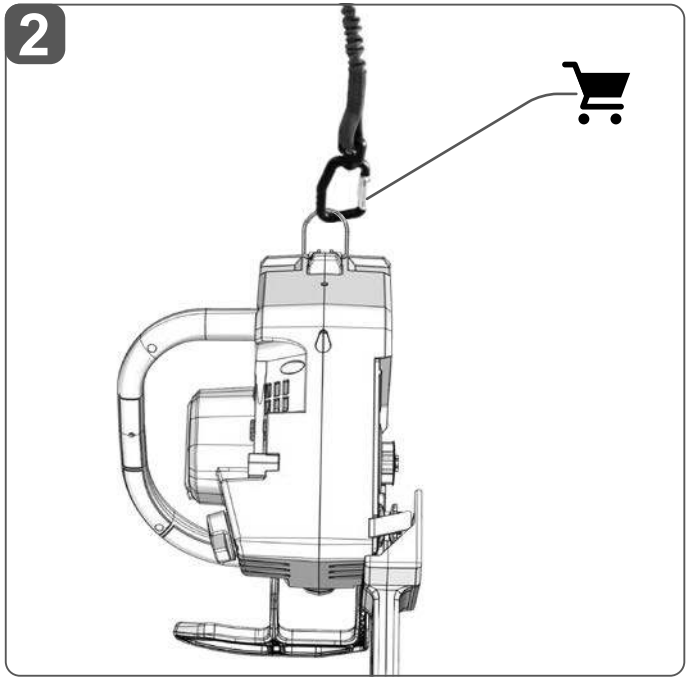



11


12







TECHNICAL DATA	M18 FTHCHS30	M18 FTHCHS35
Type	Chain saw	Chain saw
Production code	4914 40 01 XXXXXX MJJJJ	4914 52 01 XXXXXX MJJJJ
Battery voltage	18 V ⎓	18 V ⎓
No-load chain speed	15 m/s	15 m/s
Bar length max.	12" / 305 mm	14" / 356 mm
Usable cutting length	11,5" / 292 mm	13,5" / 343 mm
Chain oil tank capacity	200 ml	200 ml
Weight according EPTA-Procedure 01/2014 (Li-Ion 2.0 Ah ... 12.0 Ah)	3,6 ... 4,7 kg	3,6 ... 4,7 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	76,5 dB (A) / 3 dB (A)	76,5 dB (A) / 3 dB (A)
Sound power level / Uncertainty K	96,5 dB (A) / 3 dB (A)	96,5 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	2,56 m/s² / 1,5 m/s²	2,56 m/s² / 1,5 m/s²

⚠ 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.

GENERAL CHAIN SAW SAFETY WARNINGS

a) Keep all parts of the body away from the saw chain when the chain saw is operating. Before you start the chain saw, make sure the saw chain is not contacting anything. A moment of inattention while operating chain saws may cause entanglement of your clothing or body with the saw chain.

b) Always hold the chain saw with your right hand on the rear handle and your left hand on the front handle. Holding the chain saw with a reversed hand configuration increases the risk of personal injury and should never be done.

c) Hold the chain saw by insulated gripping surfaces only, because the saw chain may contact hidden wiring or its own cord. Saw chains contacting a ″live" wire may make exposed metal parts of the chain saw ″live" and could give the operator an electric shock.

d) Wear eye protection. Further protective equipment for hearing, head, hands, legs and feet is recommended. Adequate protective equipment will reduce personal injury from flying debris or accidental contact with the saw chain.

e) Do not operate a chain saw in a tree, on a ladder, from a rooftop, or any unstable support. Operation of a chain saw in this manner could result in serious personal injury.

f) Always keep proper footing and operate the chain saw only when standing on fixed, secure and level surface. Slippery or unstable surfaces may cause a loss of balance or control of the chain saw.

g) When cutting a limb that is under tension, be alert for spring back. When the tension in the wood fibres is released the spring loaded limb may strike the operator and /or throw the chain saw out of control.

h) Use extreme caution when cutting brush and saplings. The slender material may catch the saw chain and be whipped toward you or pull you off balance.

i) Carry the chain saw by the front handle with the chain saw switched off and away from your body. When transporting or storing the chain saw, always fit the guide bar cover. Proper handling of the chain saw will reduce the likelihood of accidental contact with the moving saw chain.

j) Follow instructions for lubricating, chain tensioning and changing the bar and chain. Improperly tensioned or lubricated chain may either break or increase the chance for kickback.

k) Cut wood only. Do not use chain saw for purposes not intended. For example: do not use chain saw for cutting metal, plastic, masonry or non-wood building materials. Use of the chain saw for operations different than intended could result in a hazardous situation.

l) This chain saw is not intended for tree felling. Use of the chain saw for operations different than intended could result in serious injury to the operator or bystanders.

m) Keep handles dry, clean, and free from oil and grease. Greasy, oily handles are slippery causing loss of control.

Causes and operator prevention of kickback:

Kickback may occur when the nose or tip of the guide bar touches an object, or when the wood closes in and pinches the saw chain in the cut.

Tip contact in some cases may cause a sudden reverse reaction, kicking the guide bar up and back towards the operator.

Pinching the saw chain along the top of the guide bar may push the guide bar rapidly back towards the operator.

Either of these reactions may cause you to lose control of the saw which could result in serious personal injury. Do not rely exclusively upon the safety devices built into your saw. As a chain saw user, you should take several steps to keep your cutting jobs free from accident or injury.

Kickback is the result of tool 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 thumbs and fingers encircling the chain saw handles, with both hands on the saw and position your body and arm to allow you to resist kickback forces. Kickback forces can be controlled by the operator, if proper precautions are taken. Do not let go of the chain saw.

b) Do not overreach and do not cut above shoulder height. This helps prevent unintended tip contact and enables better control of the chain saw in unexpected situations.

c) Only use replacement bars and chains specified by the manufacturer. Incorrect replacement guide bars and chains may cause chain breakage and/or kickback.

d) Follow the manufacturer's sharpening and maintenance instructions for the saw chain. Decreasing the depth gauge height can lead to increased kickback.

Follow all instructions when clearing jammed material, storing or servicing the chain saw. Make sure the switch is off and the battery pack is removed. Unexpected actuation of the chain saw while clearing jammed material or servicing may result in serious personal injury.

ADDITIONAL SAFETY AND WORKING INSTRUCTIONS

This chain-saw is for use by trained tree service operators only. Use without proper training can result in severe injuries.

It is recommended to cut logs on a saw-horse or cradle when operating the machine for the first time.

Tethering

For tethering with dynamic climbing rope or energy absorbing lanyards only. Do not hang tool from guide bar cover.

Ensure all guards, handles, and spiked bumper are properly fitted and are in good condition.

Persons using the chain saw should be in good health. The chain saw is heavy, so the operator must be physically fit.

The operator should be alert, have a good vision, mobility, balance, and manual dexterity. If there is any doubt, do not operate the chain saw.

Do not start using the chain saw until you have a clear work area, secure footing, and a planned retreat path away from a falling tree. Beware of the emission of lubricant mist and saw dust. Wear a mask or respirator, if required.

Do not cut vines and/or small undergrowth.

Always hold the chain saw with both hands during operation. Use a firm grip with thumbs and fingers encircling the chain saw handles. Right hand must be on the rear handle and left hand on the front handle.

Before starting the chain saw, make sure the saw chain is not contacting any object.

Do not modify the chain saw in any way or use it to power any attachments or devices not recommended by the manufacturer for your chain saw.

There should be a first-aid kit containing large wound dressings and a means to summon attention (e.g., whistle) close to the operator. A larger more comprehensive kit should be reasonably nearby.

An incorrectly tensioned chain can jump off the guide bar and could result in serious injury or fatality. The length of the chain depends on the temperature. Check the tension frequently.

You should get used to your new chain saw by making simple cuts on securely supported wood. Do this whenever you have not operated the saw for some time. To reduce the risk of injury associated with contacting moving parts, always stop the motor, apply the chain brake, remove the battery pack and make sure all moving parts have come to a stop before:

- cleaning or clearing a blockage
- leaving the machine unattended
- installing or removing attachments
- checking, conducting maintenance or working on the machine

The size of the work area depends on the job being performed as well as the size of the tree or work piece involved. For example, felling a tree requires a larger work area than making other cuts, i.e., bucking cuts, etc. The operator needs to be aware and in control of everything happening in the work area.

Do not cut with your body in line with the guide bar and chain. If you experience kickback, this will help prevent the chain coming into contact with your head or body.

Do not use a back-and-forward sawing motion, let the chain do the work. Keep the chain sharp and do not try to push the chain through the cut.

Do not put pressure on the saw at the end of the cut. Be ready to take on the weight of the saw as it cuts free from the wood. Failure to do so could result in possible serious personal injury.

Do not stop the saw in the middle of a cutting operation.

Keep the saw running until it is already removed from the cut. Do not fix the on/off switch in the ″on″ position when using the saw hand-held.

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. Do not use battery packs from other systems.

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

Push and pull

The reaction force is always opposite to the direction the chain is moving. Thus, the operator must be ready to control the tendency for the machine to pull away (forward motion) when cutting on the bottom edge of the bar and the push backwards (towards the operator) when cutting along the top edge.

Saw jammed in the cut

Stop the chain saw and make it safe. Do not try to force the chain and bar out of the cut as this is likely to break the chain, which may swing back and strike the operator. This situation normally occurs because the wood is incorrectly supported which forces the cut to close under compression, thereby pinching the blade. If adjusting the support does not release the bar and chain, use wooden wedges or a lever to open the cut and release the saw. Never try to start the chain saw when the guide bar is already in a cut or kerf.

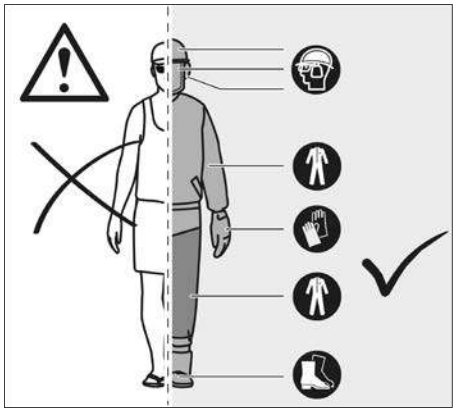
Skating / Bouncing

When the chainsaw fails to dig in during a cut, the guide bar can begin hopping or dangerously skidding along the surface of the log or branch, possibly resulting in the loss of control of the chainsaw. To prevent or reduce skating or bouncing, always use the saw with both hands make sure the saw chain establishes a groove for cutting. Never cut small, flexible branches or brushes with your chainsaw. Their size and flexibility can easily cause the saw to bounce towards you or bind up with enough force to cause a kickback. The best tool for that kind of work is a hand saw, pruning shears, an axe or other hand tools.

Personal protective equipment

Wear a helmet at all times when operating the machine. A helmet, equipped with mesh visor, can help reduce the risk of injury to the face and the head if kickback occurs. Wear ear protectors!

Good quality personal protective equipment, as used by professionals, will help reduce the risk of injury to the operator. The following items should be used when operating the machine:



Safety helmet

should comply with EN 397 and be CE marked

Hearing protection

should comply with EN 352-1 and be CE marked

Eye and face protection

should be CE marked and comply with EN 166 (for safety glasses) or EN 1731 (for mesh visors)

Gloves

should comply with EN381-7 and be CE marked

Leg protection (chaps)

should comply with EN 381-5, be CE marked and provide allround protection

Chain saw safety boots

should comply with EN ISO 20345:2004 and be marked with a shield depicting a chain saw to show compliance with EN 381-3. (Occasional users may use steel toe-cap safety boots with protective gaiters which conform to EN 381-9 if the ground is even and there is little risk of tripping or catching on undergrowth)

Chain saw jackets for upper body protection

should comply with EN 381-11 and be CE marked

KNOW YOUR CHAIN SAW

1. Trigger Release
2. Throttle Trigger
3. Chain Drive
4. Bar Groove
5. Rear Handle
6. Battery
7. Front handle
8. Chain Brake
9. Chain Lubricant Cap
10. Saw Chain
11. Guide Bar
12. Drive Sprocket Cover
13. Guide Bar Cover
14. Bar Mounting Nuts
15. Spiked Bumper
16. Combination Wrench
17. Chain Catcher
18. Chain Tension Screw

⚠ WARNING!

Consequences of improper maintenance, removal or modification of safety features like the chain brake, ignition switch, hand guard (front and back), spiked bumper, chain catcher, guide bar, low kick-back saw chain may cause the safety features to not function correctly, thus increasing the potential for serious injury.

Low kick-back saw chain

A low-kick-back saw chain helps to reduce the possibility of a kickback event. The rakers (depth gauges) ahead of each cutter can minimize the force of a kick-back reaction by preventing the cutters from digging in too deeply. Only use replacement guide bar and chain combinations recommended by the manufacturer. As saw chains are sharpened, they lose some of the low kickback qualities and extra caution is required. For your safety, replace saw chains when cutting performance decreases.

Spiked Bumper

The integral bumper spike may be used as a pivot when making a cut. It helps to keep the body of the chain saw steady while cutting. When cutting, push the machine forward until the spikes dig into the edge of the wood, then by moving the rear handle up or down in the direction of the cutting line it can help ease the physical strain of cutting.

Guide Bar

Generally, guide bars with small radius tips have somewhat lower potential for kick-back. You should use a guide bar and matching chain which is just long enough for the job. Longer bars increase the risk of loss of control during sawing. Regularly check the chain tension. When cutting smaller branches (less than the full length of the guide bar) the chain is more likely to be thrown off if the tension is not correct.

Chain Brake

Chain brakes are designed to quickly stop the chain from rotating. When the chain brake lever/hand guard is pushed towards the bar, the chain should stop immediately. A chain brake does not prevent kickback. It only lowers the risk of injury should the chain bar contact the operator's body during a kickback event. The chain brake should be tested before each use for correct operation in both the run and brake positions.

Chain Catcher

A chain catcher prevents the saw chain from being thrown back towards the operator if the saw chain comes loose or breaks.

INSTRUCTIONS CONCERNING THE PROPER TECHNIQUES FOR BASIC FELLING, LIMBING AND CROSS-CUTTING

Understanding the forces within the wood

When you understand the directional pressures and stresses inside the wood you can reduce the "pinches" or at least expect them during your cutting. Tension in the wood means the fibers are being pulled apart and if you cut in this area, the "kerf" or cut will tend to open as the saw goes through. If a log is being supported on a saw horse and the end is hanging unsupported over the end, tension is created on the upper surface due to the weight of the overhanging log stretching the fibers. Likewise, the underside of the log will be in compression and the fibers are being pushed together. If a cut is made in this area, the kerf will have the tendency to close up during the cut. This would pinch the blade.

Blocking Trees

Hazardous Conditions

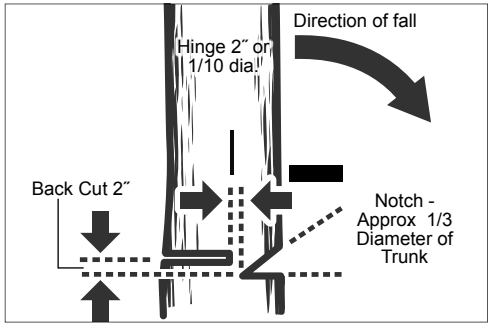
When blocking (removing sections from a standing tree) a tree, it is important that you follow these warnings and instructions to prevent possible serious injury.

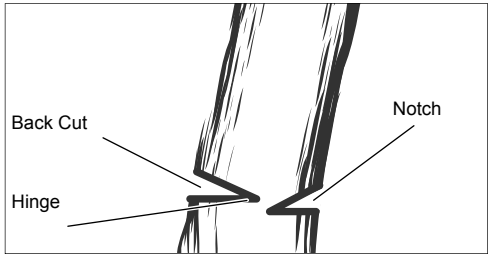
WARNING! Do not block trees during periods of high wind or heavy precipitation. Wait until the hazardous weather has ended. Closely check for broken or dead branches, which could fall while cutting and do not cut near buildings or electrical wires if you do not know the direction of tree fall. Do not cut at night or during bad weather conditions, such as rain, snow, or strong winds, which can reduce visibility and control of the chainsaw. If the tree you are blocking makes contact with any utility line, you should discontinue use of the chainsaw and immediately notify the utility company. Failure to follow these

instructions could result in death or serious personal injury.

These basic blocking techniques are not intended to substitute for the judgment of an experienced professional. Your circumstance may require a different type of notch or technique. Always exercise good professional judgment and discretion when evaluating how to safely complete a cutting task.

- Do not cut down trees having an extreme lean or large trees with rotten limbs, loose bark, or hollow trunks. Have these trees pushed or dragged down with heavy equipment, then cut them up.
- Do not cut trees near electrical wires or buildings.
- Check the tree for damaged or dead branches that could fall and hit you during felling.
- Periodically glance at the top of the tree during the backcut to assure the tree is going to fall in the desired direction.
- If the tree starts to fall in the wrong direction, or if the saw gets caught or hung up during the fall, leave the saw and save yourself!
- Blocking a tree - When bucking and blocking operations are being performed by two or more persons, at the same time, the blocking operation should be separated from the bucking operation by a distance of at least twice the height of the tree being blocked. Trees should not be blocked in a manner that would endanger any person, strike any utility line or cause any property damage. If the tree does make contact with any utility line, the utility company should be notified immediately.
- Before felling is started, consider the force and direction of the wind, the lean and balance of the tree, and the location of large limbs. These things influence the direction in which the tree will fall. Do not try to fell a tree along a line different from its natural line of fall.
- Remove dirt, stones, loose bark, nails, staples, and wire from the tree where felling cuts are to be made.
- Notched Undercut (a notch cut in a tree that directs the tree's fall). Cut a notch about 1/3 the diameter of the tree, perpendicular to the direction of fall. Make the cuts of the notch so they intersect at a right angle to the line of fall. This notch should be cleaned out to leave a straight line. To keep the weight of the wood off the saw, always make the lower cut of the notch before the upper cut.





WARNING! Never cut through to the notch when making a backcut. The hinge controls the fall of the tree, this is the section of wood between the notch and backcut. Never position yourself directly behind the trunk of a falling tree. There is a risk that the trunk may split and come back towards the operator.

- Backcut (the final cut in a tree blocking operation made on the opposite side of the tree from the notching undercut). The backcut is always made level and horizontal, and at a minimum of 2″ above the horizontal cut of the notch.
- Never cut through to the notch. Always leave a band of wood between the notch and backcut (approximately 2″ or 1/10 the diameter of the tree). This is called "hinge" or "hingewood." It controls the fall of the tree and prevents slipping or twisting or shootback of the tree off the stump.
- On large diameter trees, stop the back cut before it is deep enough for the tree to either fall or settle back on the stump. Then insert soft wooden or plastic wedges into the cut so they do not touch the chain. The wedges can be driven in, little by little, to help jack the tree over.
- As the tree starts to fall, stop the chainsaw and put it down immediately. Be alert for overhead limbs or branches that may fall and watch your footing.

Pruning

WARNING! Do not overreach and do not cut above shoulder height. Failure to do so could result in serious personal injury. If you are unable to follow these instructions, use a different tool such as a pole pruner. Load Second Cut

First Cut

1/3 Diameter

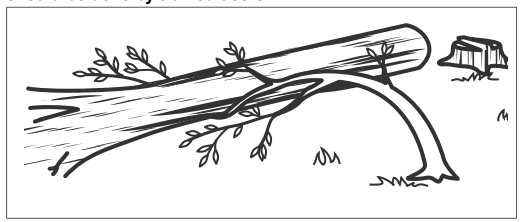
Finishing Cut

Pruning is trimming limbs from a live tree.

- Work slowly, keeping both hands on the chainsaw with a firm grip. Always make sure your footing is secure and your weight is distributed evenly on both feet.
- Do not cut from a ladder, this is extremely dangerous. Leave this operation for professionals.
- Do not cut above shoulder height as a saw held higher is difficult to control against kickback.
- Never position yourself under the branch you are cutting and watch for falling branches.
- When pruning trees it is important not to make the finishing cut next to the main limb or trunk until you have cut off the limb further out to reduce the weight. This prevents stripping the bark from the main member.
- Underbuck the branch 1/3 through for your first cut.
- Your second cut should overbuck to drop the branch off.
- Now make your finishing cut smoothly and neatly against the main member so the bark will grow back to seal the wound.

Springpoles

WARNING! Springpoles are dangerous and could strike the operator, causing the operator to lose control of the chain saw. This could result in severe or fatal injury to the operator. This should be done by trained users.



Cutting springpoles

A springpole is any log, branch, rooted stump, or sapling which is bent under tension by other wood so that it springs back if the wood holding it is cut or removed.

On a fallen tree, a rooted stump has a high potential of springing back to the upright position during the bucking cut to separate the log from the stump. Watch out for springpoles, they are dangerous.

SPECIFIED CONDITIONS OF USE

The cordless chain saw is only intended for use outdoors.

For safety reasons, the chain saw must be adequately controlled by using two-handed operation at all times.

It is only designed to cut wood. It is only to be used by adults who have received adequate training on the hazards and preventative measures/actions to be taken while using the chain saw.

The chain saw is designed for cutting branches, trunks, logs, and beams of a diameter determined by the cutting length of the guide bar. It is only designed to cut wood. It is only to be used by adults who have received adequate training on the hazards and preventative measures/actions to be taken while using the chain saw.

Do not use the chain saw for any purpose not listed in the specified conditions of use. The chain saw is not to be used by children or by persons not wearing adequate personal protective equipment and clothing.

WARNING! When using the chain saw, the safety rules must be followed. For your own safety and that of bystanders, you must read and fully understand these instructions before operating the chain saw. You should attend a professionally organized safety course in the use, preventative actions, first-aid, and maintenance of chain saws. Please keep these instructions safe for later use.

WARNING! Chain saws are potentially dangerous tools. Accidents involving the use of chain saws often result in loss of limbs or death. It is not just the chain saw that is the hazard. Falling branches, toppling trees, and rolling logs can all kill. Diseased or rotting timber poses additional hazards. You should assess your capability of completing the task safely. If there is any doubt, leave it to a professional tree surgeon.

This chainsaw is to be used only by trained tree surgeons. Use without proper training can result in serious injury.

Do not use this product in any other way as stated for normal 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:

- Damage to hearing due to exposure to noise Wear hearing protection and limit exposure.
- Injury caused by contact with exposed saw teeth of the chain
- Injury caused by thrown-out pieces of the workpiece (wood chips, splinters)
- Injury caused by dust and particles
- Injury to the skin caused by contact with lubricants
- Parts ejected from the saw chain (cutting/injection hazards)
- Unforeseen, abrupt movement, or kickback of the guide bar (cutting hazards)

RISK REDUCTION

- It has been reported that vibrations from handheld tools may contribute to a condition called Raynaud's Syndrome in certain individuals. Symptoms may include tingling, numbness, and blanching of the fingers, usually apparent upon exposure to cold. Hereditary factors, exposure to cold and dampness, diet, smoking and work practices are all thought to contribute to the development of these symptoms. There are measures that can be taken by the operator to possibly reduce the effects of vibration:
- Keep your body warm in cold weather. When operating the unit wear gloves to keep the hands and wrists warm.
- After each period of operation, exercise to increase blood circulation.
- Take frequent work breaks. Limit the amount of exposure per day.
- Protective gloves available from professional chain saw retailers are designed specifically for chain saw use which give protection, good grip and also reduce the effect of handle vibration. These gloves should comply with EN 381-7 and must be CE marked.

If you experience any of the symptoms of this condition, immediately discontinue use and see your doctor.

⚠ 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.

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

ASSEMBLY

Assembling saw chain and guide bar

⚠ WARNING! If any parts are damaged or missing do not operate the machine until the parts are replaced. Failure to heed this warning could result in serious personal injury.

Make sure to remove the battery. Wear gloves!

1. Remove the bar mounting nuts using the combination wrench provided.
2. Remove the drive sprocket cover.
3. Put the chain in the correct direction onto the bar and make sure that the drive links are aligned in the bar groove.
4. Attach the bar to the chain saw and loop the chain around the drive sprocket.
5. Replace the drive sprocket cover and bar mounting nuts.

6. Finger-tighten the bar mounting nuts. The bar must be free to move for chain tension adjustment.
7. Adjust the chain tension. Refer to the “Adjusting chain tension” section.
8. Hold the tip of the guide bar up and tighten the bar mounting nuts securely.

⚠ WARNING! The saw chain is sharp. Always wear protective gloves when performing maintenance to the chain.

Adjusting the chain tension

Remove the battery pack before you do any work on the chain saw.

To increase the chain tension, turn the chain tensioning screw clockwise and check the chain tension frequently. To reduce the chain tension, turn the chain tensioning screw counterclockwise and check the chain tension frequently.

The chain tension is correct when the gap between the cutter in the chain and the bar is about 6,8 mm. Pull the chain in the middle of the lower side of the bar downwards (away from the bar) and measure the distance between the bar and the chain cutters. Tighten the bar mounting nuts by turning it counter clockwise.

Note: Do not over-tension the chain - excess tension will cause excessive wear and will reduce the life of the chain and could damage the bar. New chains could stretch and loosen during initial use. Remove battery pack and check chain tension frequently during the first two hours of use. The temperature of the chain increases during normal operation causing the chain to stretch. Check the chain tension frequently and adjust as required. A chain tensioned while warm may be too tight upon cooling. Make sure that the chain tension is correctly adjusted as specified in these instructions.

OPERATION

Adding the chain lubricating oil

WARNING! Never work without chain lubricant. If the saw chain is running without lubricant, the guide bar and the saw chain can be damaged. It is essential to frequently check the oil level in the oil level gauge and before starting to use the chain saw.

Keep the reservoir more than ¼ full to ensure sufficient oil is available for the job.

Note: It is recommended to use a vegetable based chain oil when pruning trees. Mineral oil may harm trees. Never use waste oil automotive oil, or very thick oils. These could damage the chain saw. Clear surface around the oil cap to prevent contamination.

Unscrew and remove the cap from the oil tank.

Pour the oil into the oil tank and monitor the oil level gauge.

Put the oil cap back on and tighten it up. Wipe away any spillage.

Holding the chain saw

Always hold the chain saw with your right hand on the rear handle and your left hand on the front handle. Grip both handles with the thumbs and fingers encircling the handles.

Starting the chain saw

Before starting the chain saw, you should install the battery pack in the chain saw and make sure the chain brake is in run position by pulling the chain brake lever/hand guard toward the front handle.

Checking and operating the chain brake

Engage the chain brake by rotating your left hand around the front handle. Allow the back of your hand to push the chain brake lever/hand guard toward the bar while the chain is rotating rapidly. Be sure to maintain both hands on the saw handles at all times.

Reset the chain brake back into the run position by grasping the top of the chain brake lever/hand guard and pulling toward the front handle until you hear a click.

WARNING! If the chain brake does not stop the chain immediately, or if the chain brake will not stay in the run position without assistance, bring the chain saw to an MILWAUKEE service station for repair prior to use.

TRANSPORTATION AND STORAGE

Always lightly oil the chain when storing to prevent rust. Always empty the oil tank when storing to prevent leakage.

Stop the machine, remove the battery, and allow it to cool before storing or transporting.

Clean all foreign materials from the machine. Store the machine in a cool, dry, and well-ventilated place that is inaccessible to children. Keep away from corrosive agents, such as garden chemicals and de-icing salts. Do not store outdoors.

Fit the guide bar cover before storing the machine or during transportation.

For transportation in vehicles, secure the machine against movement or falling to prevent injury to persons or damage to the machine.

CLEANING

Clean dust and debris from openings. 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.

MAINTENANCE

WARNING! Use only Milwaukee accessories and Milwaukee spare parts. Failure to do so can cause possible injury, contribute to poor performance, and may void your warranty.

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).

WARNING! Servicing requires extreme care and knowledge and should be performed only be a qualified service technician. For service, we suggest you bring the machine to your nearest MILWAUKEE service station for repair. When servicing, use only identical replacement parts. WARNING! Remove the battery before adjustment, maintenance or cleaning. Failure to do so could result in serious personal injury. You may only make adjustments or repairs described in this manual. For other repairs, contact the authorised service agent.

Consequences of improper maintenance may cause the chain brake and other safety features to not function correctly, thus increasing the potential for serious injury.

Keep your chain saw professionally maintained and safe. • Sharpening the chain safely is a skilled task. Therefore, the manufacturer strongly recommends that a worn or dull chain is replaced with a new one, available at your MILWAUKEE service agent. The part number is available in the product specification table in this manual.

Follow instructions for lubricating and chain tension checking and adjustment.

After each use, clean the machine with a soft dry cloth.

Remove any chips, dirt and debris in the battery bay.

Check all nuts, bolts, and screws at frequent intervals for security to ensure the machine is in safe working condition. Any part that is damaged should be properly repaired or replaced by an MILWAUKEE service station.

Replacing the guide bar and saw chain

Wear protective gloves.

1. Remove the bar mounting nuts using the combination wrench provided.
2. Remove the drive sprocket cover.
3. Put the new chain in the correct direction onto the bar and make sure that the drive links are aligned in the bar groove.
4. Attach the bar to the chain saw and loop the chain around the drive sprocket.
5. Replace the chain cover and bar mounting nuts.
6. Finger-tighten the bar mounting nuts. The bar must be free to move for chain tension adjustment.
7. Adjust the chain tension. Refer to the “Adjusting chain tension” section.
8. Hold the tip of the guide bar up and tighten the bar mounting nuts securely.

WARNING! A dull or improperly sharpened chain can cause excessive motor speed during cutting which may result in severe motor damage.

WARNING! Improper chain sharpening increases the potential of kickback.

WARNING! Failure to replace or repair a damaged chain can cause serious injury.

WARNING! The saw chain is sharp. Always wear protective gloves when performing maintenance to the chain.

Inspecting and cleaning the chain brake

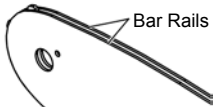
Always keep the chain brake mechanism clean by lightly brushing the linkage free from dirt.

Always test the chain brake performance after cleaning.

Refer to “Checking and operating the chain brake” section in this manual for additional information.

Guide Bar Maintenance

When the guide bar shows signs of wear, flip the guide bar from bottom to top on the saw to distribute the wear for maximum bar life. The bar should be cleaned every day of use and checked for wear and damage. Feathering or burring of the bar rails is a normal process of bar wear. Such faults should be smoothed with a file as soon as they occur.



A bar with any of the following faults should be replaced.

- Wear inside the bar rails which permits the chain to lay over sideways.
- Bent guide bar.
- Cracked or broken rails.
- Spread rails.

Lubricate guide bars with a sprocket at their tip weekly. Using a grease syringe, lubricate weekly in the lubricating hole. Turn the guide bar and check that the lubrication holes and bar rails are free from impurities.

Maintenance schedule

Daily check

Bar lubrication	Before each use
Chain tension	Before each use and frequently
Chain sharpness	Before each use, visual check
For damaged parts	Before each use
For loose fasteners	Before each use
Chain brake function	Before each use Inspect and clean
Guide Bar	Before each use
Complete saw	After each use
Chain Brake	Every 5 hours of operation

Replacement parts (Bar and chain)

M18 FTHCHS30

Manufacturer	MILWAUKEE	OREGON
Chain	4932480177	80TXL051XTR
Guide Bar	4932480171	629399

M18 FTHCHS35

Manufacturer	MILWAUKEE	OREGON
Chain	4932480178	80TXL059XTR
Guide Bar	4932480173	629400

Chain must be fitted with bar from the same manufacturer according to above combinations.

Exploded view

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.


This saw should only be used by persons who are specifically trained in tree maintenance work.


Never expose tool to rain.


Not use one-handed


Always use chain saw two-handed


Wear safety shoes with cut protection, grippy sole and steel toe!


Wear gloves!


Always wear protective clothing and footwear.


Weare a protective helmet.
Wear ear protectors!
Use safety glasses.


Set the chain brake to the RUN position.


Set the chain brake to the BRAKE position.


Beware of chain saw kickback and avoid contact with bar tip


Keep bystanders at least 50' away during use.


Chain Brake UNLOCKED / LOCKED

	Chain Oil Reservoir
	Rotate to adjust chain tension
	Chain running 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.
	Guaranteed sound power level 104 dB(A)
V_0	No-load chain speed
V	Voltage
	Direct Current
	European Conformity Mark
	British Conformity Mark
	Ukraine Conformity Mark
	EurAsian Conformity Mark

EC DECLARATION OF CONFORMITY

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

2011/65/EU (RoHS)
2014/30/EU
2006/42/EC
2000/14/EC
2005/88/EG

EN 62841-1:2015
EN 62841-4-1:2020
EN ISO 11681-2:2011+A1:2017
EN IEC 55014-1:2021
EN IEC 55014-2:2021
EN IEC 63000:2018

Notified body, 0366, VDE Prüf- u. Zertifizierungsinstitut,

Merianstrase 28, D-63069 Offenbach, Germany has carried out the EC type approval.

Measured sound power level: 102,3 dB (A)
Guaranteed sound power level: 104 dB (A)

Conformity assessment to Annex V Directive 2000/14/EC amended by 2005/88/EC.

Winnenden, 2023-03-01

Alexander Krug
Managing Director

Authorized to compile the technical file
Bevollmächtigt die technischen Unterlagen zusammenzustellen.
Autorisé à compiler la documentation technique.
Autorizzato alla preparazione della documentazione tecnica
Autorizado para la redacción de los documentos técnicos.
Autorizado a reunir a documentação técnica.
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Műszaki dokumentáció összeállításra felhatalmazva
Pooblaščen za izdelavo spisov tehnične dokumentacije.
Ovlašten za formiranje tehničke dokumentacije.
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Įgaliotas parengti techninius dokumentus.
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Упълномощен за съставяне на техническата документация
Împuternicit să elaboreze documentaţia tehnică.
Ополномоштен за составување на техничката документација.
Уповноважений із складання технічної документації.
معتمدة للمطابقة مع الملف الفني

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

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)
S.I. 2001/1701 (as amended)

BS EN 62841-1:2015
BS EN 62841-4-1:2020
BS EN ISO 11681-2:2011+A1:2017
BS EN IEC 55014-1:2021
BS EN IEC 55014-2:2021
BS EN IEC 63000:2018

Approved body, 0673, Technology International (Europe) Ltd.,

56 Shrivenham Hundred Business Park, Shrivenham, Swindon, SN6 8TY, United Kingdom has carried out the UK type approval.

Measured sound power level: 102,3 dB (A)
Guaranteed sound power level: 104 dB (A)

Conformity assessment to Schedule 8 Directive S.I. 2001/1701

Winnenden, 2023-03-01

Alexander Krug
Managing Director

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

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