

Milwaukee[®]

Nothing but **HEAVY DUTY**.[®]



M18 FOPH-CSA

Original instructions



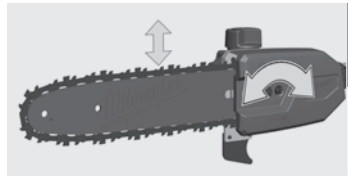
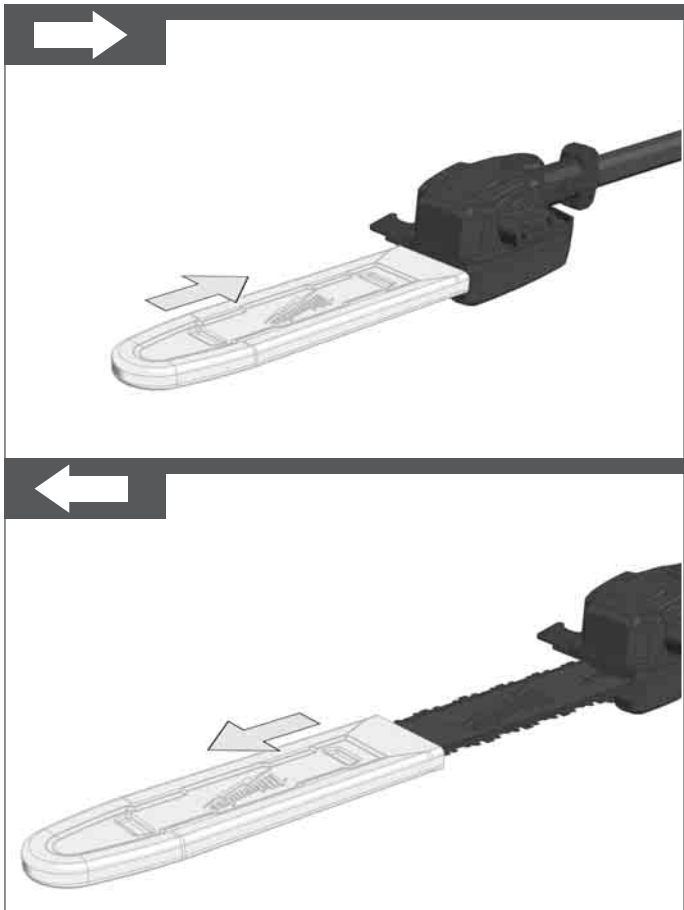
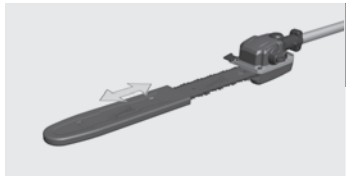
The illustration shows the application head M18FOPH-CSA connected to the Milwaukee powerbase M18FOPH-0. This application head may only be operated in connection with the powerbase shown here.

Depending on the equipment package you have purchased various application heads. Other application heads and powerbases can be purchased separately.

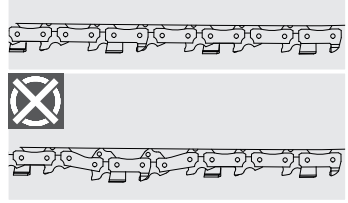
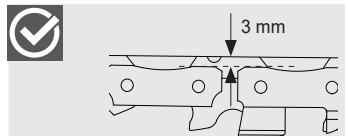
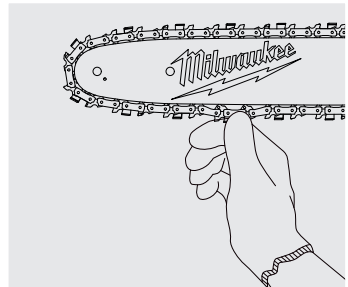
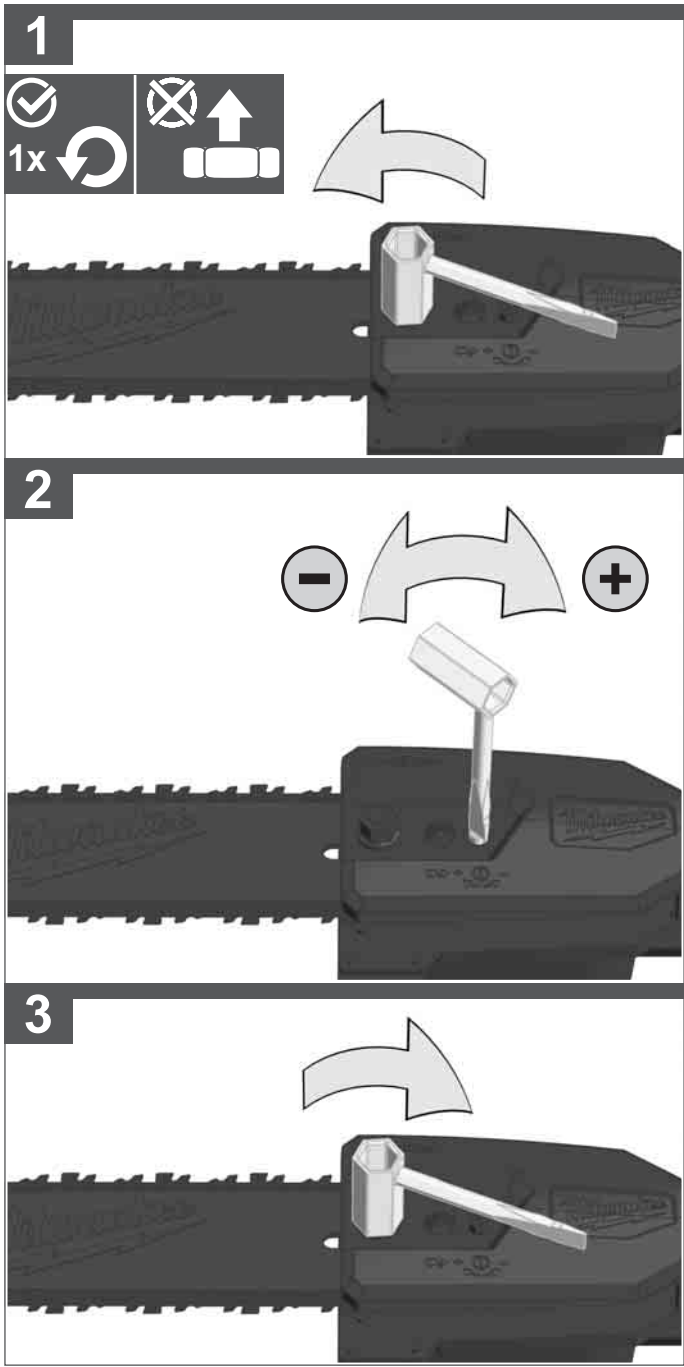


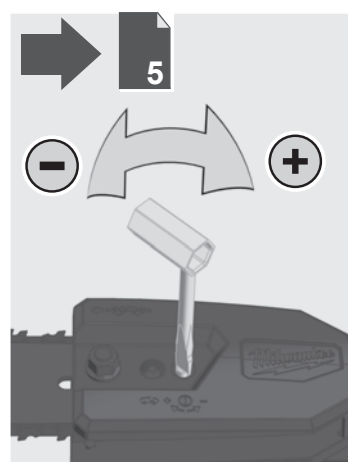
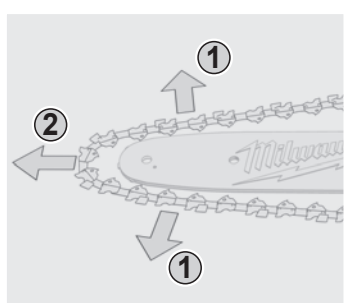
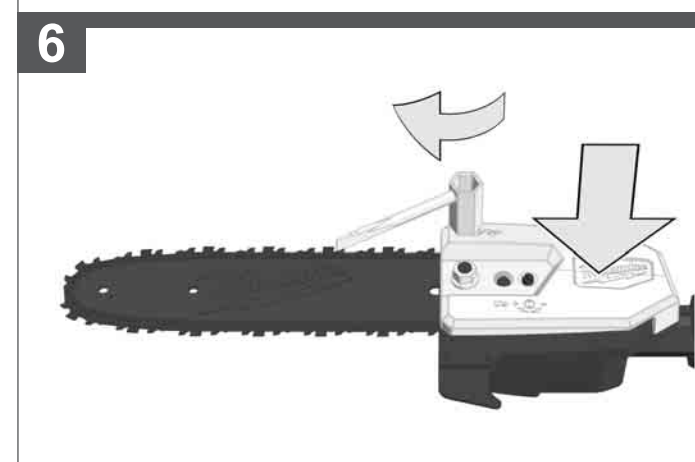
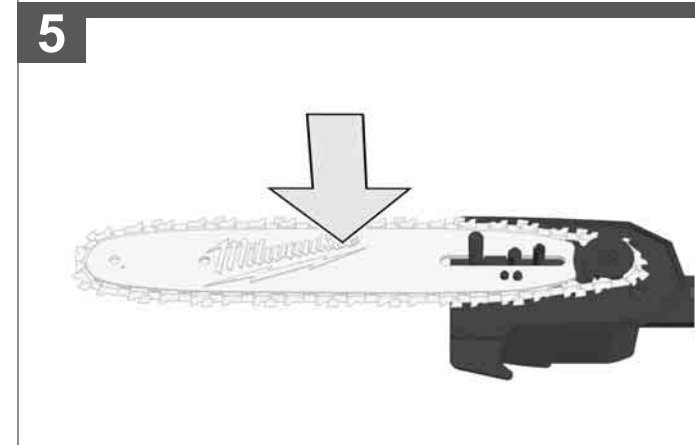
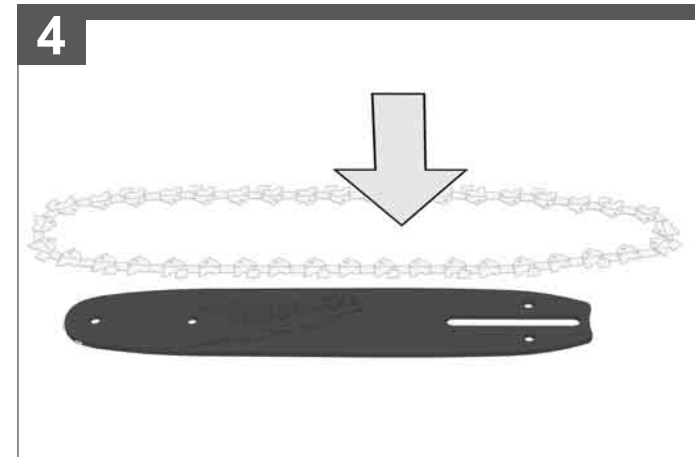
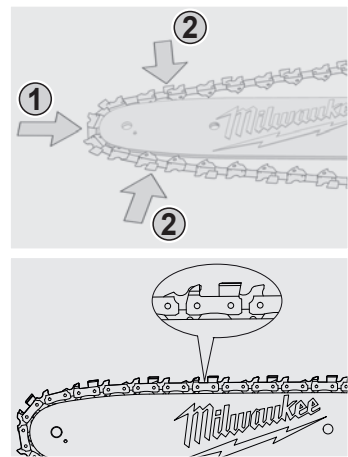
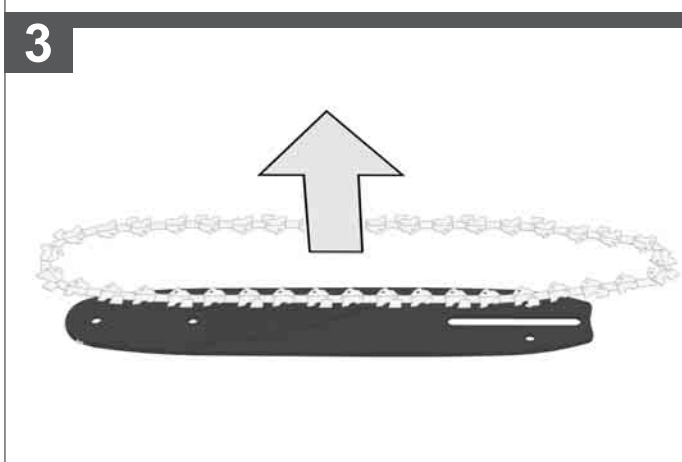
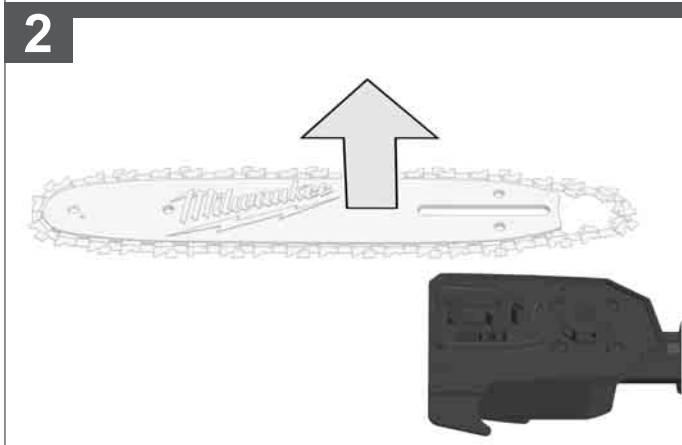
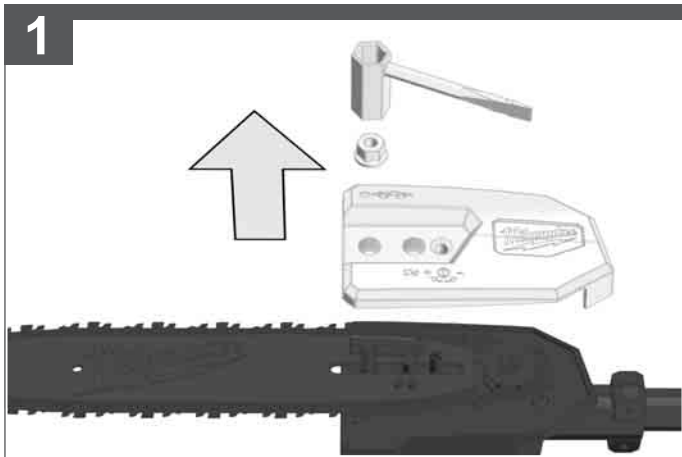
For the following instructions of the powerbase in connection with this application head please refer to the separate instructions for the power base

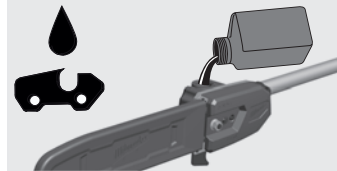
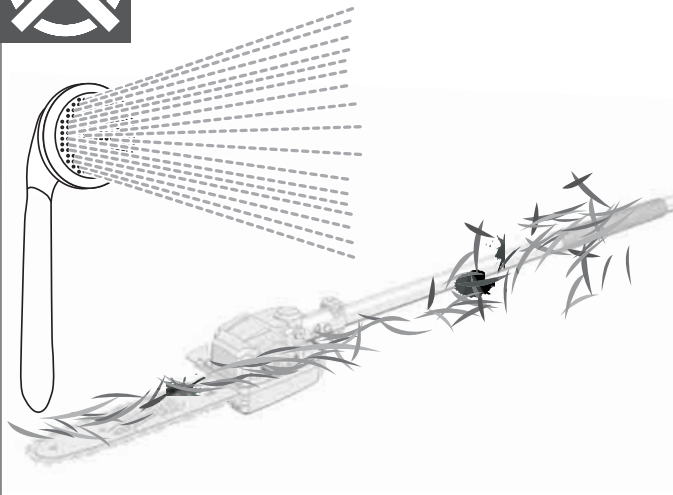
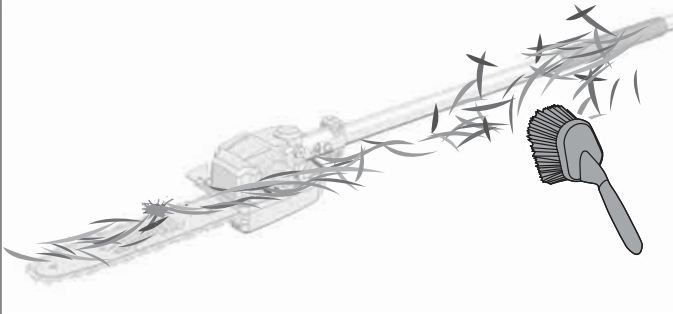
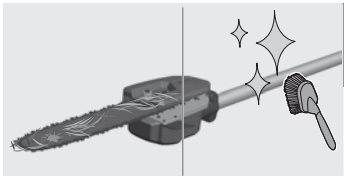
- connecting the application head with the powerbase
- switching on-off
- speed selection
- change battery



Chain Tension Adjustment

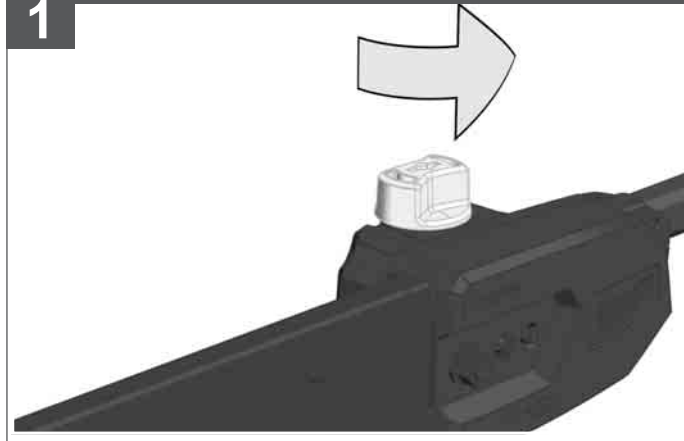




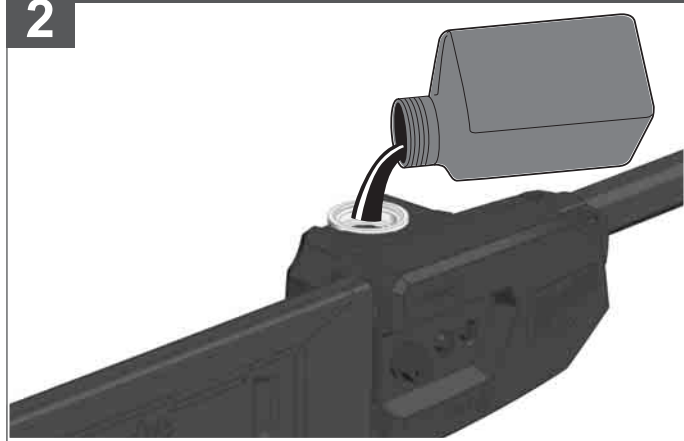


If level less than 1/4 than refill chain oil.

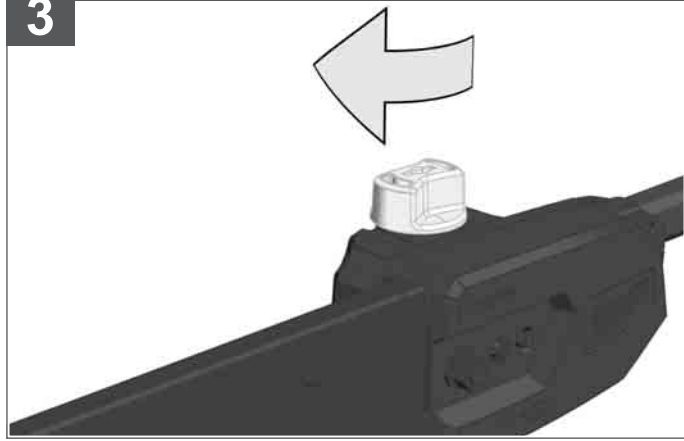
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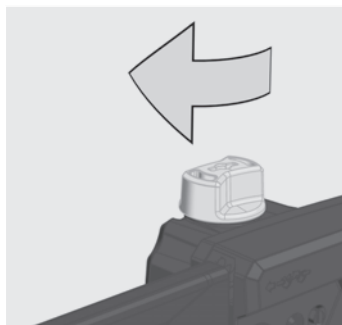
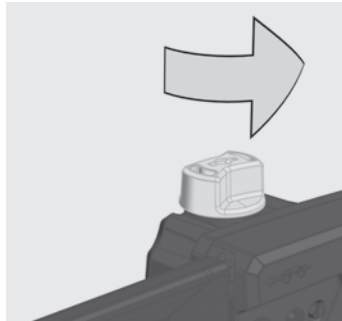
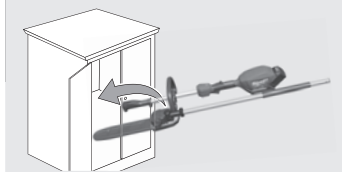
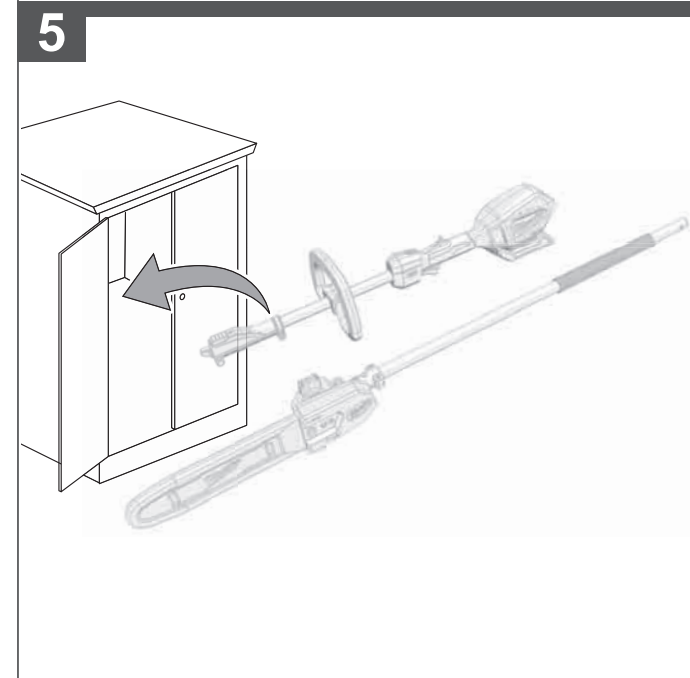
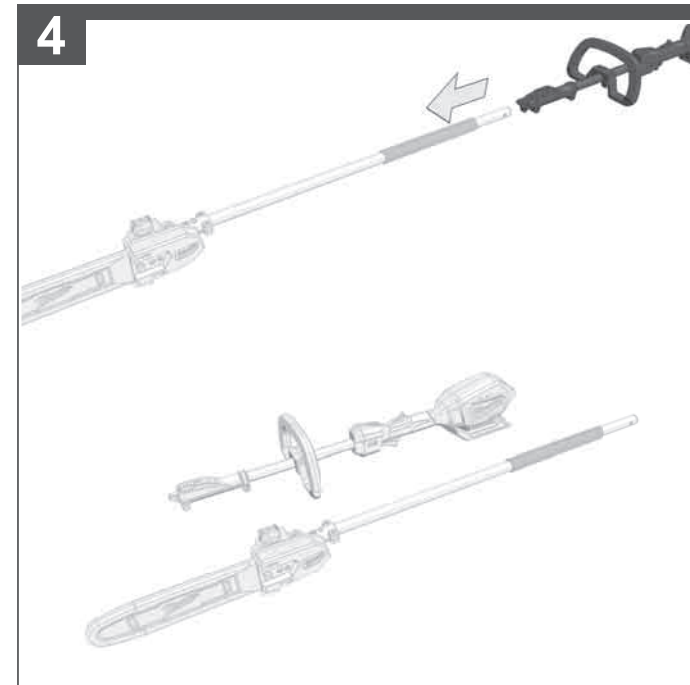
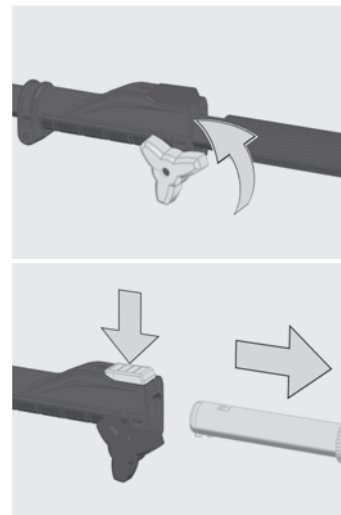
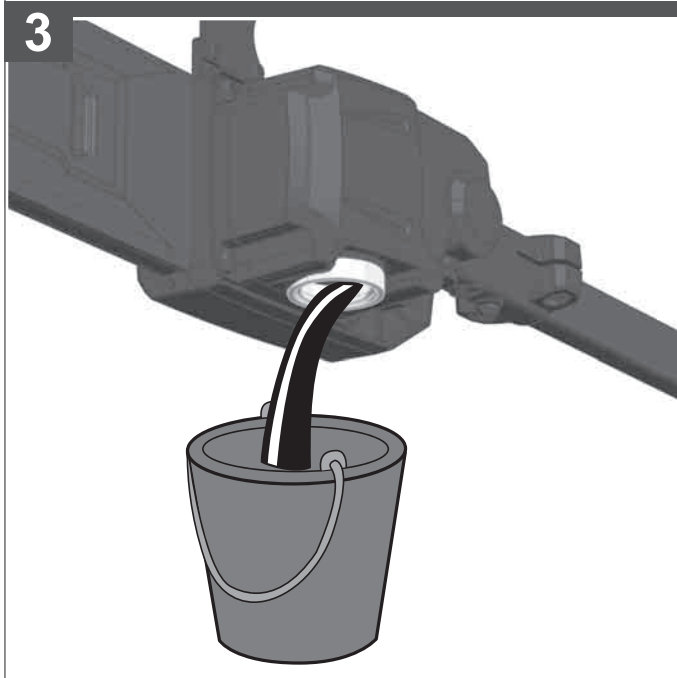
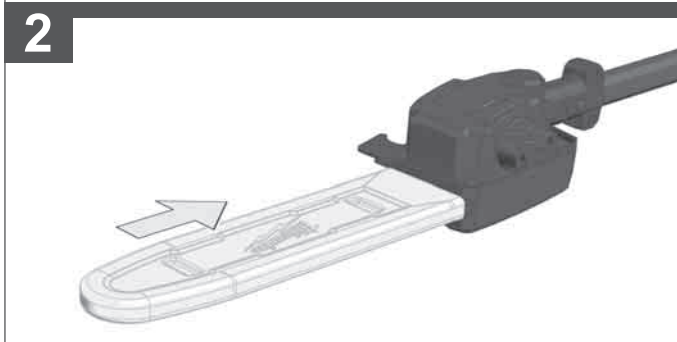


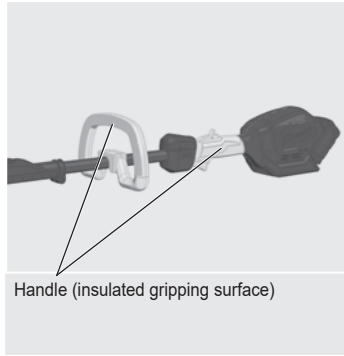
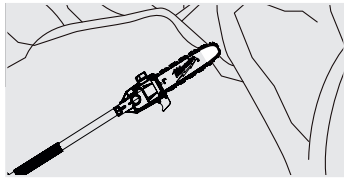
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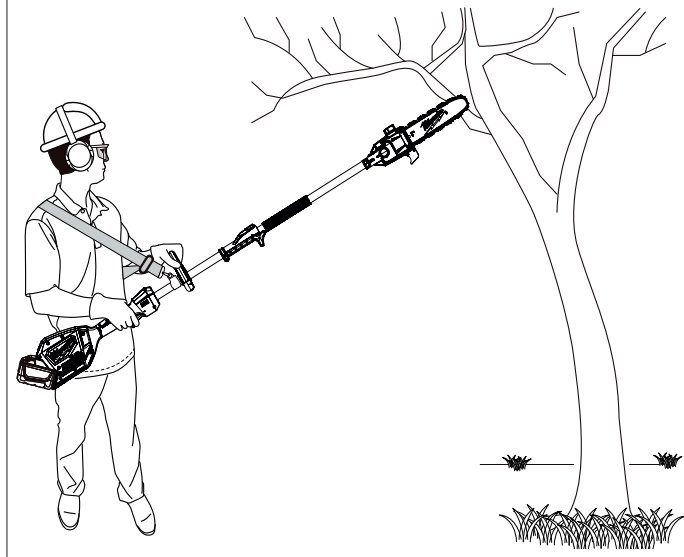
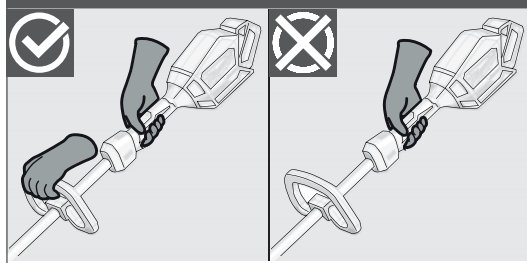
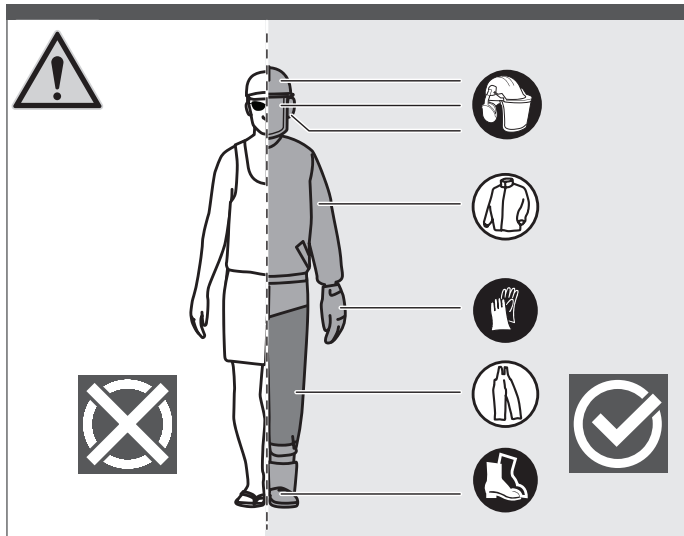
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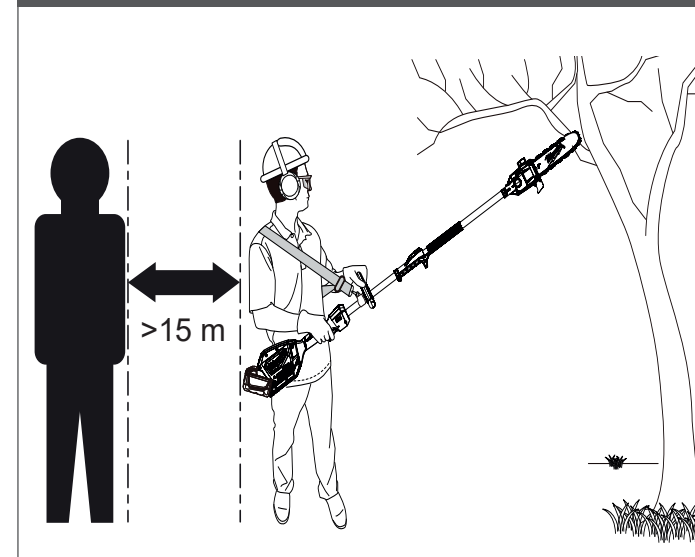
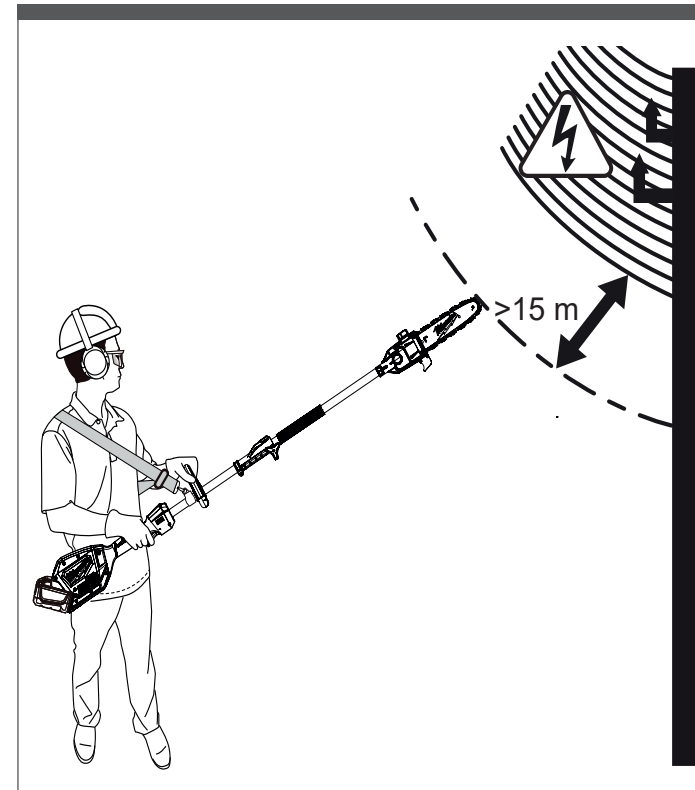




Handle (insulated gripping surface)

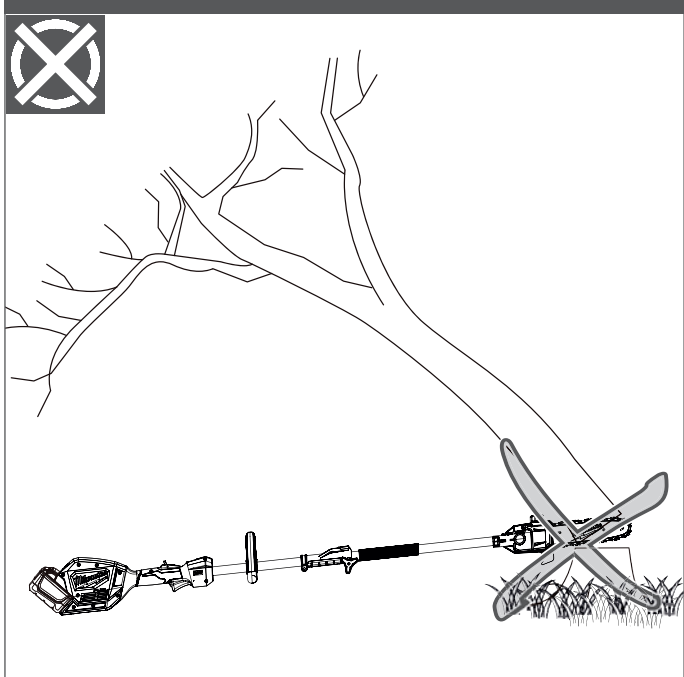


15 m minimum distance to electrical power lines and to other persons!





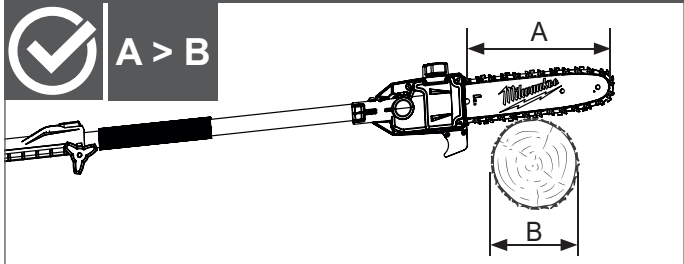
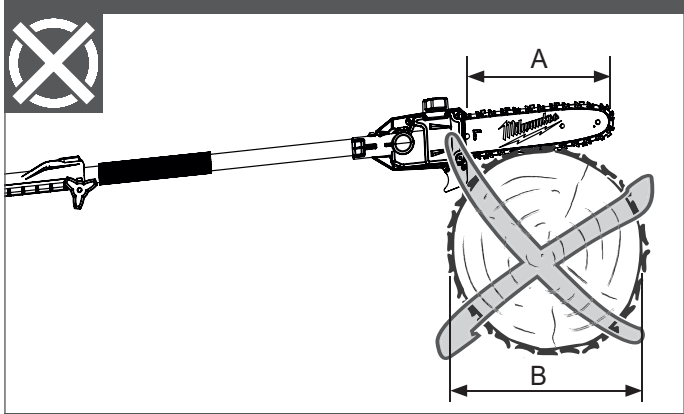
Do not fell trees!



Do not work on ladder!



Saw blade must be larger than wood!

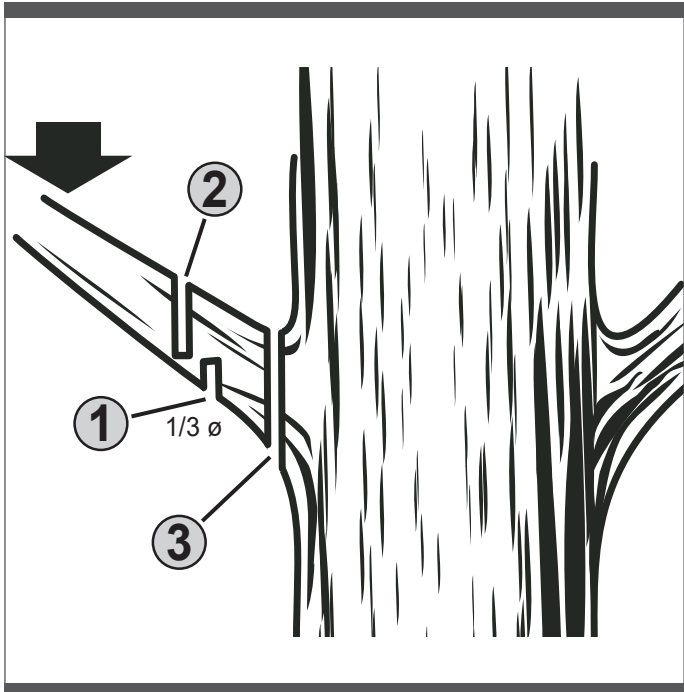


Use caution when sawing springpoles - for information see text section.

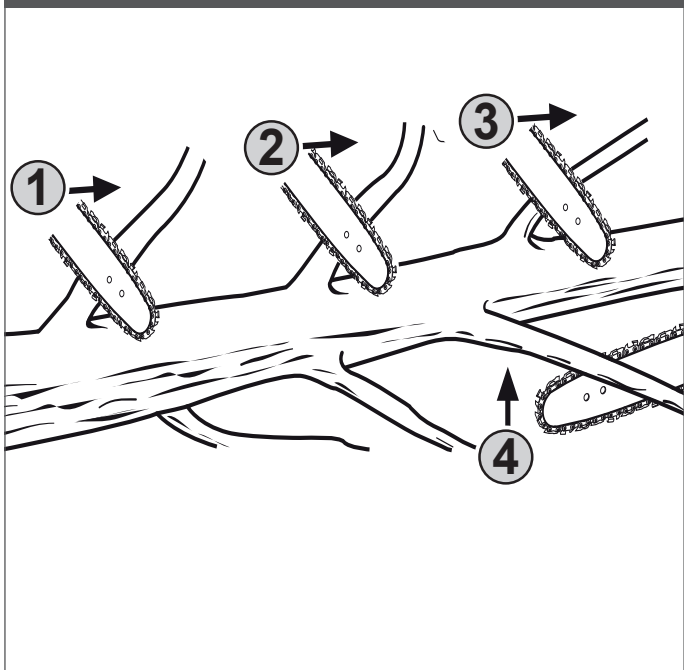




Cutting sequence when pruning.



Cutting sequence when limbing.



TECHNICAL DATA **CORDLESS POLE SAW** **M18 FOPH-CSA**

Production code.....	4697 64 02... ...000001-999999
No-load speed, low speed.....	0-3700 min ⁻¹
No-load speed, high speed.....	0-4600 min ⁻¹
No-load chain speed.....	8,6 m/s
Bar length.....	254 mm
Usable cutting length.....	230 mm
Chain oil tank capacity.....	140 ml
Weight according EPTA-Procedure 01/2014.....	1,94 kg

Noise/vibration information

Measured values determined according to EN ISO 22868 / EN ISO 4871.

Typically, the A-weighted noise levels of the tool are:

Sound pressure level (Uncertainty K=1,4dB(A)).....	85 dB(A)
Sound power level (Uncertainty K=1,4dB(A)).....	95 dB(A)

Wear ear protectors!

Total vibration values (vector sum in the three axes) determined according to EN ISO 22867.

Vibration a _w	1,54 m/s ²
Uncertainty K=.....	0,65 m/s ²

For technical data and approvals of application heads for use on various powerbases please refer to the operating instructions of the used application head.

WARNING

The vibration emission level given in this information sheet has been measured in accordance with a standardised test given in EN ISO 22867 and may be used to compare one tool with another. It may be used for a preliminary assessment of exposure.

The declared vibration 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 emission may differ. This may significantly increase the exposure level over the total working period.

An estimation of the level of exposure to vibration 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 such as: maintain the tool and the accessories, keep the hands warm, organisation 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.**

⚠ CORDLESS POLE SAW SAFETY WARNINGS

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

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

Hold the Pole saw by insulated gripping surfaces only, because the saw chain may contact hidden wiring. Saw chains contacting a „live“ wire may make exposed metal parts of the Pole saw „live“ and could give the operator an electric shock. (war bei der Astsäge dabei, macht aber eigentlich keinen Sinn)

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.

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

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

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 Pole saw out of control.

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.

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

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.

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

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

Do not attempt to fell a tree. Serious injury could occur to the operator or bystanders while felling a tree.

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

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 Pole 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:

Maintain a firm grip, with thumbs and fingers encircling the Pole 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 Pole saw.

Do not overreach. This helps prevent unintended tip contact and enables better control of the Pole saw in unexpected situations.

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

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

National regulations may restrict the use of the Pole saw. Note the local regulations.

ADDITIONAL SAFETY AND WORKING INSTRUCTIONS

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

Persons using the Pole saw should be in good health. The Pole 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 Pole saw.

Do not start using the Pole saw until you have a clear work area and secure footing. 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 (less than 75 mm in diameter).

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

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

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

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.

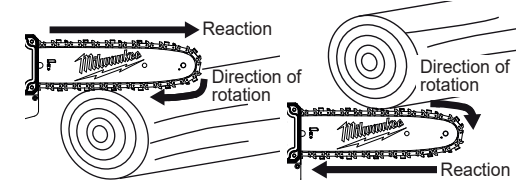
WARNING! To reduce the risk of fire, personal injury, and product damage due to a short circuit, never immerse your tool, battery pack or charger in fluid or allow a fluid to flow inside them. Corrosive or conductive fluids, such as seawater, certain industrial chemicals, and bleach or bleach containing 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 Pole 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 Pole saw when the guide bar is already in a cut or kerf.

Skating / Bouncing

When the Pole saw 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 Pole saw. 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 bushes with your Pole saw. 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 (see page 14)

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. Exposure to noise can cause hearing loss.

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

SAFETY DEVICES

⚠ WARNING! Consequences of improper maintenance, removal or modification of safety features like the 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.

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.

INSTRUCTIONS CONCERNING THE PROPER TECHNIQUES FOR, 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.

Pruning (see picture section)

⚠ WARNING! If the limbs to be pruned are out of the reach of the Pole saw, hire a professional to perform the pruning. Failure to do so could result in serious personal injury.

Pruning is trimming limbs from a live tree.

- Work slowly, keeping both hands on the tool 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.
- During use, right hand holding power unit should not rise above chest height. Holding power head higher is difficult to control against kickback forces. 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.

Pull Hook

Use the pull hook to grab the trimmed branches and pull them from the tree canopy.

Limbing a tree

Limbing is removing the branches from a fallen tree. When limbing, leave larger lower limbs to support the log off the ground. Remove the small limbs in one cut. Branches under tension should be cut from the bottom up to avoid binding the Pole saw.

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.

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

ADDITIONAL SAFETY WARNINGS

Some regions have regulations that restrict the use of the machine. Check with your local authority for advice.

Never allow children or people unfamiliar with the instructions to use the machine. Local regulations may restrict the age of the operator.

Ensure before each use that all controls and safety devices function correctly. Do not use the machine if the "off" switch does not stop the motor.

Do not wear loose fitting clothing, short trousers, or jewellery of any kind.

Secure long hair so it is above shoulder level to prevent entanglement in moving parts.

Beware of thrown, flying, or falling objects. Keep all bystanders, children, and animals at least 15 m away from the work area.

Do not operate in poor lighting. The operator requires a clear view of the work area to identify potential hazards.

Use of hearing protection reduces the ability to hear warnings (shouts or alarms). The operator must pay extra attention to what is going on in the work area.

Operating similar tools nearby increases both the risk of hearing injury and the potential for other persons to enter your work area.

Keep firm footing and balance. Do not overreach.

Overreaching can result in loss of balance and can increase the risk of kickback.

Keep all parts of your body away from any moving part.

Inspect the Pole saw before each use. Check for correct operation of all controls. Check for loose fasteners, make sure all guards and handles are properly and securely attached. Replace any damaged parts before use.

Do not modify the machine in any way or use parts and accessories which are not recommended by the manufacturer.

WARNING! If the machine is dropped, suffers heavy impact or begins to vibrate abnormally, immediately stop the machine and inspect for damage or identify the cause of the vibration. Any damage should be properly repaired or replaced by an MILWAUKEE service station.

Do not dispose of used battery packs in the household refuse or by burning them. Milwaukee Distributors offer to retrieve old batteries to protect our environment. Do not store the battery pack together with metal objects (short circuit risk).

Use only System M18 chargers for charging System M18 battery packs. Do not use battery packs from other systems.

Battery acid may leak from damaged batteries under extreme load or extreme temperatures. In case of contact with battery acid wash it off immediately with soap and water. In case of eye contact rinse thoroughly for at least 10 minutes and immediately seek medical attention.

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.

TRANSPORTATION AND STORAGE

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

Clean all foreign materials from the product. Store the product 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 attachment and during transportation.

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

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

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 contact with the blades. Contact with the blades can cause serious injury. Keep the blade away from yourself and others. Cover it with the blade protector whenever you are not cutting.
- 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 substantial footwear at all times.

SPECIFIED CONDITIONS OF USE

The cordless Pole saw is only intended for use outdoors.

The Pole saw is not suitable for felling trees!

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

The Pole 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.

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

WARNING! When using the Pole 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 Pole saw. You should attend a professionally organized safety course in the use, preventative actions, first-aid, and maintenance of Pole saws. Please keep these instructions safe for later use.

WARNING! Pole saws are potentially dangerous tools. Accidents involving the use of Pole saws often result in loss of limbs or death. It is not just the Pole 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.

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

EC-DECLARATION OF CONFORMITY

We declare under our sole responsibility that the product described under "Technical Data" fulfills all the relevant provisions of the directives 2011/65/EU (RoHS), 2014/30/EU, 2014/30/EU, 2006/42/EC, 2000/14/EC, 2005/88/EC and the following standards have been used:

EN 60745-1:2009+A11:2010
EN ISO 11680-1:2011
EN 55014-1:2017+A11:2020
EN 55014-2:2015
EN ISO 3744:2010
EN IEC 63000:2018

Measured sound power level: 95 dB(A)
Guaranteed sound power level: 97 dB(A).

Winnenden, 2019-10-31



Alexander Krug
Managing Director



Authorized to compile the technical file.

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 relevant provisions of the following Regulations S.I. 2008/1597 (as amended), S.I. 2016/1091 (as amended), S.I. 2012/3032 (as amended) and that the following designated standards have been used:

BS EN 60745-1:2009+A11:2010
BS EN ISO 11680-1:2011
BS EN 55014-1:2017+A11:2020
BS EN 55014-2:2015
BS EN ISO 3744:2010
BS EN IEC 63000:2018

Winnenden, 2019-10-31



Alexander Krug
Managing Director

Authorized to compile the technical file.

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

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, after use, the battery packs have to be fully charged.

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.

MAINTENANCE

Adding the chain lubricating oil (see picture section)

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 Pole 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 Pole saw. Clear surface around the oil cap to prevent contamination.

Adjusting the chain tension (see picture section)

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

The chain tension is correct when the gap between the cutter in the chain and the bar is about 3 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.

Chain and Bar

After every few hours of use, remove the drive cover, guide bar and chain and clean thoroughly using a soft bristle brush. Ensure oiling hole on bar is clear of debris. When replacing dull chains with sharp chains it is good practice to flip the chain bar from bottom to top.

Maintenance schedule

The following listed work must be done at least daily!

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, visual check
For loose fasteners	Before each use, inspect and clean
Guide Bar	After each use, inspect and clean
Complete saw	Every 5 hours of operation or after each use, complete check

ACCESSORIES












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 machine type printed as well as the six-digit No. 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.

Replacement parts (bar and chain)

Chain 4932471329
Guide Bar 4931466694

SYMBOLS

	CAUTION! WARNING! DANGER!
	Please read the instructions carefully before starting the machine.
	Remove the battery pack before starting any work on the machine.
	Wear gloves!
	Always wear protective clothing and footwear.
	Wear a protective helmet. Wear ear protectors! Use safety glasses.
	Always use two hands when operating.
	Wear upper body protection.
	Wear leg protection.
	Keep bystanders at least 15 m away during use.
	Keep tool at least 15 m away from electric power lines.
	Avoid contact with bar tip.
	DANGER Beware of kickback.

	Chain Oil Reservoir.
	Chain Direction.
	Chain Tension Adjustment
	Do not use in the rain or leave outdoors while it is raining.
	The guaranteed sound power level shown on this label is 97 dB.
	Do not dispose electric tools, batteries/rechargeable batteries together with household waste material. Electric tools and batteries that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility. Check with your local authority or retailer for recycling advice and collection point.
	No-load speed
	Volts
	Direct current
	European Conformity Mark
	British Conformity Mark
	Ukraine Conformity Mark
	EurAsian Conformity Mark

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