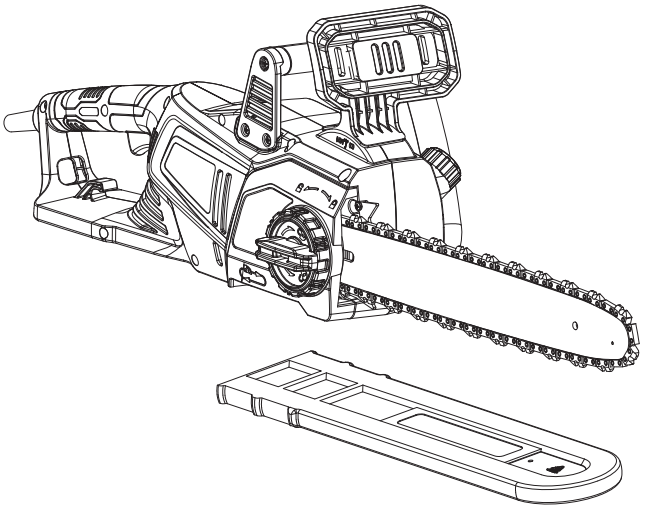
EAN: 5063022106193
Impala Ref: PRJ27468
KNG: KNG-2208-0030

EN Electric Chain Saw 2200W (16") / 2400W (18")



MCS2200 / MCS2400-4

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TTCS2200 / TTCS2400

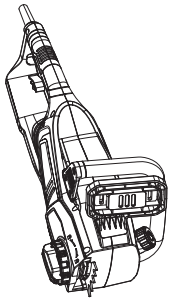
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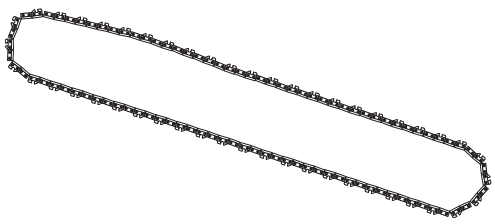
IMPORTANT - These instructions are for your safety. Please read through them thoroughly prior to handling the product and retain them for future reference.

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EN Parts



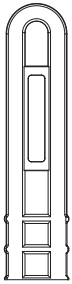
01. x1



02. x1



03. x1



04. x1

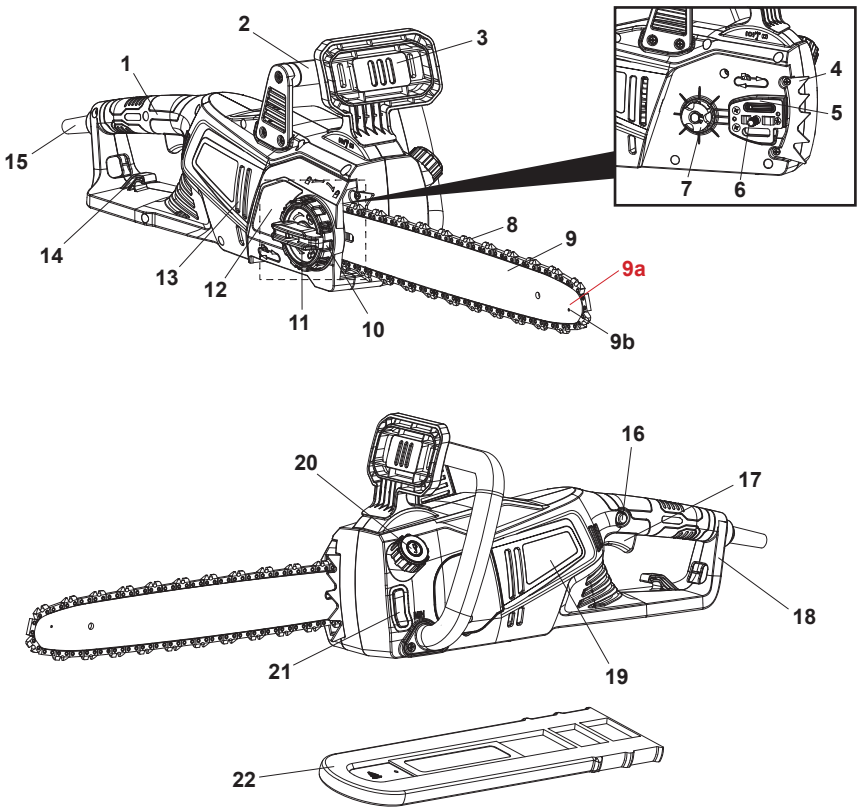
EN You will need



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1. Rear handle
2. Front handle
3. Front safeguard (chain brake lever)
4. Spiked bumper
5. Oiling port
6. Mounting bolt
7. Drive sprocket
8. Saw chain
9. Guide bar
   a. Sprocket wheel
   b. Lubrication hole
   c. Tensioning wheel*
10. Chain tension wheel
11. Locking wheel
12. Chain saw cover
    a. Spigot* (x2)
13. Air vents
14. Cord retainer
15. Power cord with plug
16. Lock-off button
17. On/off switch
18. Rear safeguard
19. Motor housing
    a. Motor*
20. Oil tank cap
21. Oil level window
22. Guide bar cover

NOTE: Parts marked with * are not shown in this overview. Please refer to the respective part in the instruction manual.

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General power tool safety warnings

WARNING! Read all safety warnings, instructions, illustrations and specifications provided with this power tool. *Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.*

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

Work area safety

a) **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.

b) **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** *Power tools create sparks which may ignite the dust or fumes.*

c) **Keep children and bystanders away while operating a power tool.** *Distractions can cause you to lose control.*

Electrical safety

a) **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** *Unmodified plugs and matching outlets will reduce risk of electric shock.*

b) **Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.** *There is an increased risk of electric shock if your body is earthed or grounded.*

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c) **Do not expose power tools to rain or wet conditions.** *Water entering a power tool will increase the risk of electric shock.*
d) **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** *Damaged or entangled cords increase the risk of electric shock.*
e) **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** *Use of a cord suitable for outdoor use reduces the risk of electric shock.*
f) **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** *Use of an RCD reduces the risk of electric shock.*

Personal safety

a) **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** *A moment of inattention while operating power tools may result in serious personal injury.*
b) **Use personal protective equipment. Always wear eye protection.** *Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.*
c) **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source, picking up or carrying the tool.** *Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.*
d) **Remove any adjusting key or wrench before turning the power tool on.** *A wrench or a key left attached to a rotating part of the power tool may result in personal injury.*
e) **Do not overreach. Keep proper footing and balance at all times.** *This enables better control of the power tool in unexpected situations.*
f) **Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts.** *Loose clothes, jewellery or long hair can be caught in moving parts.*

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g) **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** *Use of dust collection can reduce dust-related hazards.*

h) **Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.** *A careless action can cause severe injury within a fraction of a second.*

Power tool use and care

a) **Do not force the power tool. Use the correct power tool for your application.** *The correct power tool will do the job better and safer at the rate for which it was designed.*

b) **Do not use the power tool if the switch does not turn it on and off.** *Any power tool that cannot be controlled with the switch is dangerous and must be repaired.*

c) **Disconnect the plug from the power source and/or remove the battery pack, if detachable, from the power tool before making any adjustments, changing accessories, or storing power tools.** *Such preventive safety measures reduce the risk of starting the power tool accidentally.*

d) **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** *Power tools are dangerous in the hands of untrained users.*

e) **Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** *Many accidents are caused by poorly maintained power tools.*

f) **Keep cutting tools sharp and clean.** *Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.*

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g) **Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** *Use of the power tool for operations different from those intended could result in a hazardous situation.*

h) **Keep handles and grasping surfaces dry, clean and free from oil and grease.** *Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.*

Service

a) **Have your power tools serviced by a qualified repair person using only identical replacement parts.** *This will ensure that safety of the power tool is maintained.*

Safety instructions for chain saws

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 power tool "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.*

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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) **Do not attempt to fell a tree until you have an understanding of the risks and how to avoid them.** *Serious injury could occur to the operator or bystanders while felling a tree.*

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.

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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 product 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 product.*
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 guide bars and chains specified by the manufacturer.** *Incorrect replacement guide bars and saw 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.*

Additional chain saw safety warnings:

a) **Follow all instructions when clearing jammed material, storing or servicing the chain saw. Make sure the switch is off and remove the plug from the power supply.** *Unexpected actuation of the chain saw while clearing jammed material or servicing may result in serious personal injury.*
b) **Keep handles dry, clean, and free from oil and grease.** *Greasy, oily handles are slippery causing loss of control.*

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c) **Pay attention to national and local regulations.** *National and local regulations may restrict the use of this product.*
d) Only use replacement guide bars and saw chains specified by the manufacturer or equivalent replacements. Using non-approved cutting attachments can result in personal injuries and damage to property.
e) Before using the product and after any impact or dropping, check for signs of wear or damage and repair as necessary.
f) Never remove or modify any guard or safety component. Ensure that guards and other safety components necessary for machine operation are in position, in good working condition and properly maintained to avoid injuries.
g) Training of all operation is necessary for first-time and inexperienced operator.
h) Remove branches in section.

Health surveillance

All employees should be part of an employer's health surveillance scheme to help identity any vibration related diseases at an early stage, prevent disease progression and help employees stay in work.

Vibration and noise reduction

To reduce the impact of noise and vibration emission, limit the time of operation, use low-vibration and low-noise operating modes as well as wear personal protective equipment.

Take the following points into account to minimise the vibration and noise exposure risks:

1. Only use the product as intended by its design and these instructions.
2. Ensure that the product is in good condition and well maintained.
3. Use correct attachments for the product and ensure they are in good condition.
4. Keep tight grip on the handles/grip surface.
5. Maintain this product in accordance with these instructions and keep it well lubricated (where appropriate).

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6. Plan your work schedule to spread any high vibration tool use across a longer period of time.
7. Prolonged use of the product exposes the user to vibrations that can cause a range of conditions collectively known as hand-arm vibration syndrome (HAVS) e.g. fingers going white; as well as specific diseases such as carpal tunnel syndrome. To reduce this risk when using the product, always wear protective gloves and keep your hands warm.

Emergency

Familiarise yourself with the use of this product by means of this instruction manual. Memorise the safety directions and follow them to the letter. This will help to prevent risks and hazards.

1. **Always be alert when using this product, so that you can recognise and handle risks early.** *Fast intervention can prevent serious injury and damage to property.*
2. **Switch off and disconnect from the power supply if there are malfunctions.** *Have the product checked by a qualified professional and repaired, if necessary, before you operate it again.*

Residual risks

Even if you are operating this product in accordance with all the safety requirements, potential risks of injury and damage remain. The following dangers can arise in connection with the structure and design of this product:

1. Health defects resulting from vibration emission if the product is being used over long periods of time or not adequately managed and properly maintained.
2. Injuries and damage to property due to broken attachments or the sudden impact of hidden objects during use.
3. Danger of injury and property damage caused by flying objects.

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WARNING! This product produces an electromagnetic field during operation! This field may under some circumstances interfere with active or passive medical implants! To reduce the risk of serious or fatal injury, we recommend persons with medical implants to consult their doctor and the medical implant manufacturer before operating this product!

Symbols

On the product, the rating label and within these instructions you will find among others the following symbols and abbreviations. Familiarise yourself with them to reduce hazards like personal injuries and damage to property.

V ~	Volt, (alternating voltage)	Hz	Hertz
W	Watt	kg	Kilogram
/min or min^{-1}	Per minute	mm	Millimetre
mm	Millimetre	ml	Milliliter
dB(A)	Decibel (A-rated)	m/s^2	Metres per second squared

 Lock / to tighten or secure.

 Unlock / to loosen.

 Read the instruction manual.

 Note / Remark.

 Caution / Warning.

yyWxx Manufacturing date code; year of manufacturing (20yy) and week of manufacturing (Wxx).

 Always wear hearing protection.

 Always wear eye protection.

 Wear a dust mask.

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Wear head protection, where there is a risk of falling objects.



Wear face shield.



Wear protective gloves.



Wear protective, slip-resistant footwear.



Wear tight-fitted protective clothes.



Use appropriate protection for foot-leg and hand-arm.



Switch the product off and disconnect it from the power supply before assembly, cleaning, adjustments, maintenance, storage and transportation.



This product is of protection class II. That means it is equipped with enhanced or double insulation.



Do not expose the product to rain or wet conditions (moisture).



Keep hands away from moving cutting device!



Objects thrown by the product could hit the user or other bystanders. Always ensure that other people and pets remain at a safe distance from the product when it is in operation. In general, children must not come near the area where the product is.

Minimum distance is 10 m.



Kickback! Tip contact may cause the guide bar to move suddenly upward and backwards what may cause serious injury to user.



Contact of the guide bar tip with any object should be avoided.

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Always use the product with two hands. Do not use one handed when operating the product.



Chain oil fill.



Correct direction of cutting-teeth.



Cutting of fingers or hand.



Remove plug from the mains immediately if the cable is damaged or cut.



Guaranteed sound power level value in 96 dB.



WEEE symbol. Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or local store for recycling advice.



The product complies with the applicable European directives and an evaluation method of conformity for these directives was done.



UK Conformity Assessed.

Rating label explanation

Chain Saw: MCS2200 / MCS2400-4	**TTCS2200 / TTCS2400**
M = Brand name (MAC Allister)	TT = Brand (Titan)
CS = Chain Saw	CS = Chain Saw
2200 / 2400 = Rated input (W)	2200 / 2400 = Rated input (W)

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General :

>	**Rated voltage, frequency**	: 220-240 V~, 50 Hz	
>	**Rated power input**	: 2200 W	2400W
>	**Rated no load speed n_0**	: 8500 min^{-1}	
>	**Oil tank volume**	: 140 cm^3 (ml)	
>	**Protection class**	: II / ⧈	
>	**Degree of protection**	: IP20	
>	**Weight**	: Approx. 5.30 kg	Approx. xxx kg
>	**Dimensions**	: Approx. 92*20*24 cm	Approx. xxxxxx cm

Saw chain and guide bar :

>	**Saw chain type**	: 91P056X Oregon	91P062X Oregon
>	**Guide bar type**	: 160SDEA041 Oregon	180SDEA041 Oregon
>	**Guide bar length**	: 40 cm (16”)	45 cm (18’’)
>	**Max. cutting length**	: 35 cm	40 cm
>	**Chain pitch**	: 9.525mm (0.375”)	9.525mm (0.375”)
>	**Chain gauge**	: 1.1 mm (0.043”)	1.1 mm (0.043”)
>	**Drive links**	: 56	62
>	**Max. chain speed**	: 16 m/s	16 m/s

Sound values :

>	**Sound pressure level L_{pA}**	: 84.6 dB(A)
>	**Uncertainty K_{pA}**	: 3 dB(A)
>	**Sound power level L_{WA}**	: 93.8 dB(A)
>	**Uncertainty K_{WA}**	: 3 dB(A)
>	**Guaranteed sound power level L_{WA}**	: 96 dB(A)

Hand arm vibration values :

>	**Front handle a_h**	: 3.80 m/s^2
>	**Rear handle a_h**	: 2.53 m/s^2
>	**Uncertainty K**	: 1.5 m/s^2

The sound value(s) have been determined according to noise test code given in EN 62841-1 and EN 62841-4-1, using the basic standards EN ISO 11201 and EN ISO 3744.The sound intensity level for the operator may exceed 80 dB(A) and ear protection measures are necessary.

The declared total vibration value(s) and the declared noise emission value(s) have been measured in accordance with a standard test method and may be used for comparing one tool with another;

The declared total vibration value(s) and the declared noise emission value(s) may also be used in a preliminary assessment of exposure.

WARNING! The vibration and noise emission during actual use of the power tool can differ from the declared total value depending on the ways in which the tool is used especially what kind of workpiece is processed;

The need to identify safety measures to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time).

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Unpacking

1. Unpack all parts and lay them on a flat, stable surface.
2. Remove all packing materials and shipping devices if applicable.
3. Make sure the delivery contents are complete and free of any damage. If you find that parts are missing or show damage do not use the product but contact your dealer. Using an incomplete or damaged product represents a hazard to people and property.
4. Ensure that you have all the accessories and tools needed for assembly and operation. This also includes suitable personal protective equipment.

WARNING! The product and the packaging are not children's toys! Children must not play with plastic bags, sheets and small parts! There is a danger of choking and suffocation!

You will need

(items not supplied)

Suitable personal protective equipment

Lubrication oil for saw chain

Grease for sprocket wheel

Nose lubrication

Sharpening set (chain file)

Suitable screwdriver

Suitable extension cord

(items supplied)

Saw chain (8)

Guide bar (9)

Guide bar cover (22)

NOTE: The accessories required depend on the intended application. I| Ask your dealer for advice.

Assembly

WARNING! The product must be fully assembled before operation! Do not use a product that is only partly assembled or assembled with damaged parts!

Follow the assembly instructions step-by-step and use the pictures provided as a visual guide to easily assemble the product!

Before using the product, familiarise yourself with the operating features read the entire instruction manual paying particular attention to the safety rules and operating procedures.

Do not connect the product to power supply before it is completely assembled.

Saw chain and guide bar

Assemble the guide bar (9) and the saw chain (8) before operation.

Use only the guide bar (9) and the saw chain (8) according to the technical parameter of this product.

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WARNING! Always use a saw chain designed as “low-kickback” or a saw chain which meets the low-kickback requirements! A standard saw chain (a chain which does not have the kickback reducing guard links) should only be used by an experienced professional operator.

Nevertheless, a low-kickback saw chain does not completely eliminate kickback! A low-kickback or “safety” chain should never be regarded as complete protection against injury! Therefore always use a low- kickback saw chain in conjunction with other kickback protection devices such as the front safeguard (chain brake lever) (3)!

WARNING! Pull the front safeguard (chain brake lever) (3) fully backward to disengage the chain brake.

1. Place the product on a suitable flat surface.
2. Pull back the front safeguard (3) to disengage the chain brake (Fig. 1, step 1).
3. Unscrew the locking wheel (11) anticlockwise and then remove it together with the chain saw cover (12) (Fig. 1, steps 2, 3).

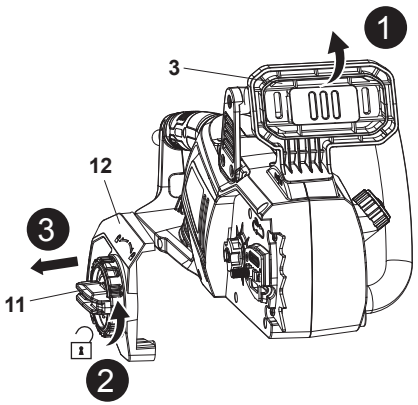


Fig. 1

4. Spread the saw chain (8) out with the cutting edges of the chain pointing in the direction of rotation. The direction of rotation can see seen marked on the body of the saw, on the inside of the chain saw cover (12).

   Slide the saw chain (8) into the groove around the guide bar (9). Ensure saw chain (8) is installed in correct direction of rotation (Fig. 2).

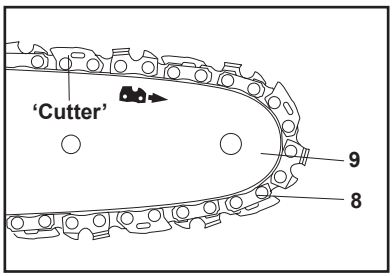


Fig. 2

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WARNING! The direction of the saw chain 'cutters' must be same as indicated by the symbol and arrow on the guide bar!

5. Rotate the tensioning wheel (9c) anticlockwise to slide it to the left to the end of slot (Fig.3, steps 1, 2). Align the saw chain (8) and guide bar (9) assembly with the drive sprocket (7) and the mounting bolt (6). Lay the saw chain (8) around the drive sprocket (7) and then lower the guide bar (9) to install it to the mounting bolt (6) (Fig. 3).

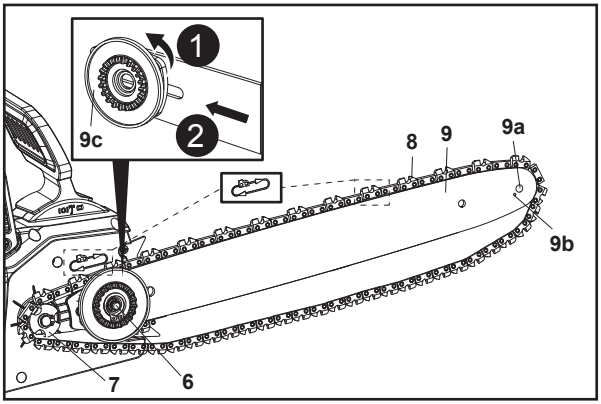


Fig. 3

6. The saw chain direction is as indicated by the arrow. Make sure the saw chain (8) is properly placed over the sprocket wheel (9a) of the guide bar (9) (Fig. 4).

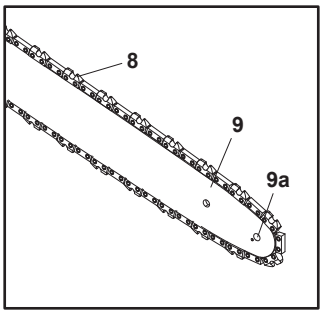


Fig. 4

WARNING! The direction of the saw chain 'cutters' must be as indicated by the symbol and arrow on the guide bar! Ensure the guide bar and saw chain are properly assembled in correct orientation; otherwise the saw chain will not function correctly and can cause a hazard to the user.

7. Rotate the turning wheel (9c) clockwise to adjust the guide bar (9) towards the right to tighten the saw chain (8) (Fig. 5, steps 1, 2), then align and place the chain saw cover (12) over the mounting bolt (6) (Fig. 5, step 3).
8. Refit the chain saw cover (12) and slightly tighten the locking wheel (11) clockwise (Fig. 5, step 4). Ensure that the two spigots (12a) engage correctly in the corresponding slots.

   Do not tighten the locking wheel (11) completely as saw chain tensioning is required first.

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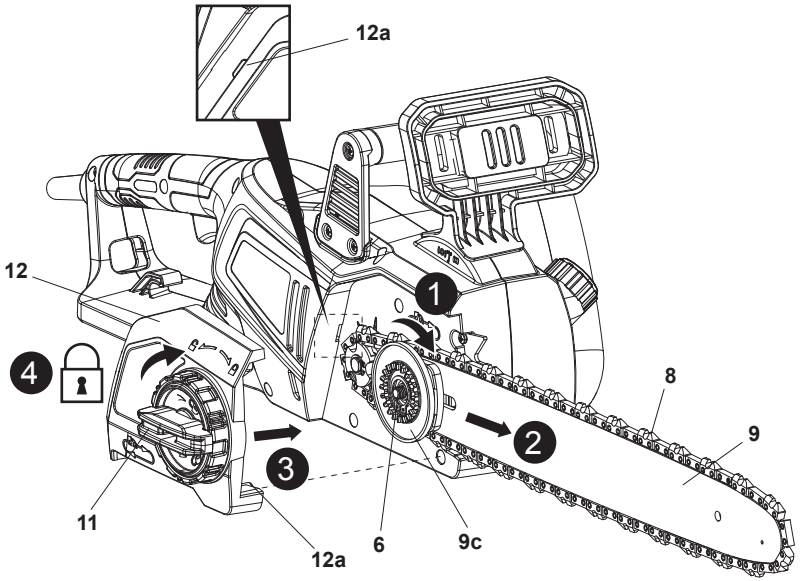


Fig. 5

NOTE: The saw chain (8) has not yet been tensioned. Tension the chain as described under “Saw chain tensioning”. After operating the product for approx. 1 hour, adjust the chain tension again.

Saw chain tensioning

Always check the saw chain tension before use, after the first cuts and regularly during use, approx. every five cuts. Upon initial operation, new chains can lengthen considerably. This is normal during the break-in period and the interval between future adjustments will lengthen quickly.

WARNING! Disconnect the plug from the power supply before adjusting saw chain tension!

The cutting edges of the saw chain are sharp! Always wear protective gloves when handling chain!

Always maintain proper chain tension! A loose chain increases the risk of kickback! A loose chain may jump out of the guide bar groove! This may injure the operator and damage the chain! A loose chain will cause rapid wear to the chain, guide bar and sprocket!

Tensioning the chain too tightly will overload the motor and cause damage, and insufficient tension can cause chain derailing, whereas a correctly tightened chain provides the best cutting characteristics and prolonged working life! The chain life mainly depends upon sufficient lubrication and correct tensioning!

1. Place the product on a suitable flat surface with the chain saw cover (12) facing towards you.
2. Check the chain tension using one hand to lift the saw chain (8) against the weight of the product. The correct chain tension is achieved when the saw chain can be lifted by approximately 2 - 4 mm from the guide bar (9) in the centre (Fig. 6, 7).

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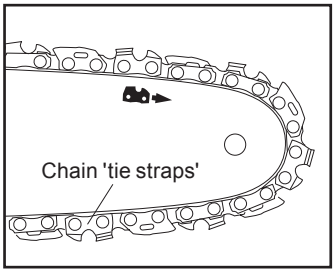


Fig. 6

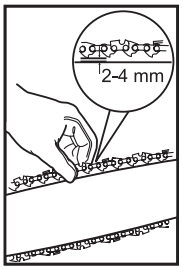


Fig. 7

3. Adjust the tension if you find that the saw chain (8) is too loose or tight.
4. Slightly loosen the locking wheel (11), then rotate the chain tension wheel (10) anticlockwise or clockwise to adjust the guide bar (9) towards the left or right until the chain 'tie straps' are just touching the bottom edge of the guide bar (9), hold it in the position (Fig. 8).

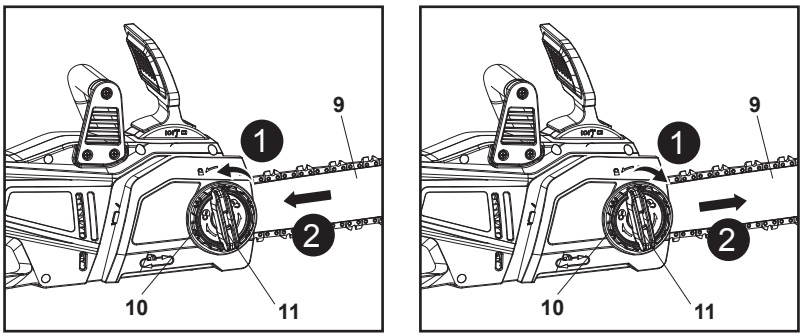


Fig. 8

5. Pull the saw chain (8) along the top of the guide bar (9) by gloved hand from one end to the other, several times. The saw chain (8) should feel tight but still move freely. If the tension of the chain has been adjusted, re-check the tension again in accordance with Step 2.
6. After the adjustment, re-tighten the locking wheel (11).

Chain lubrication

WARNING! The product is not filled with chain oil. It is essential to fill the product with chain oil before using it! Never operate the product without chain oil as this will result in extensive damage to the product!

Operating the saw chain dry or with too little chain oil will decrease cutting efficiency, shorten the product life span and cause rapid wear to the saw chain and guide bar from overheating!

Insufficient chain oil is evident by smoke or bar discoloration! Adequate lubrication of the saw chain during cutting operations is essential to minimise friction with the guide bar!

1. Place the product on a stable, level surface with the oil tank cap (20) facing upward. We recommend laying a non-flammable sheet under the product.
2. Unscrew and remove the oil tank cap (20) (Fig. 9).

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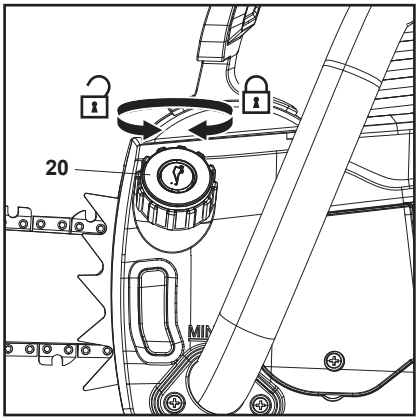


Fig. 9

3. Fill suitable lubricant into the tank using an oil funnel fitted with a filter to avoid debris entering the tank. We recommend using environmentally friendly chain oil specially intended to be used with this product.

NOTE: In summer use SAE #30; in winter, or if the trees have excessive sap, use SAE #10.

4. Don't fill the oil lower than the "MIN" mark on the oil level window (21), but also do not overfill and leave approximately 5 mm of space between the top of the oil and the inside edge of the tank to allow for expansion (Fig. 10).

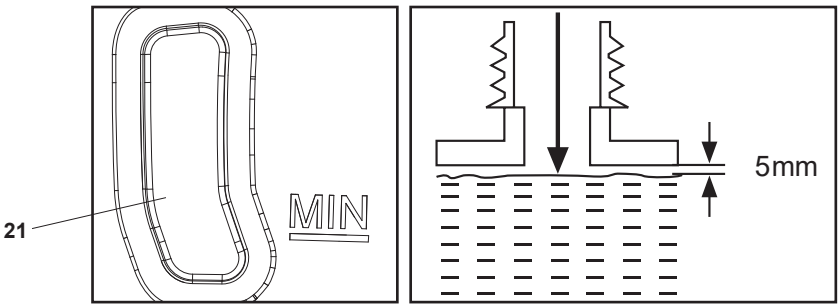


Fig. 10

NOTE: Towards the end of the season, it is advisable to put only as much lubricant in the tank as you need for each cut, so that it is completely used up before you store the product.

5. Check the oil level window (21) prior to start-up and regularly during operation. Refill oil when the oil level is close to the bottom of the oil level window (21) (Fig. 10).
6. Wipe up spilled lubricant with a soft cloth and refit the oil tank cap (20).

NOTE: Always dispose of lubricant, used oil and objects contaminated with them in accordance with local regulations.

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Checking

NOTE: Perform the following test before operating your product.

This product is equipped with an automatic oiling system. The oiling system automatically delivers the proper amount of oil to the bar and chain.

Checking the lubrication requires starting the product. Before checking, the product must be fully assembled and all instructions must have been read.

1. Make sure the guide bar (9) and the saw chain (8) are in place when you check the oil delivery.
2. Start the product; keep it running at no load and check if the chain oil is delivered as shown in the figure (Figs.11, 12).

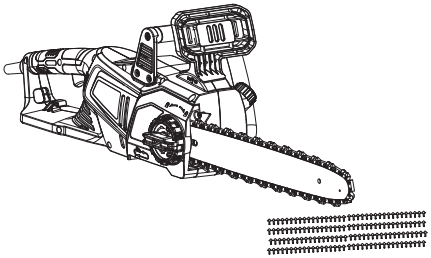


Fig. 11

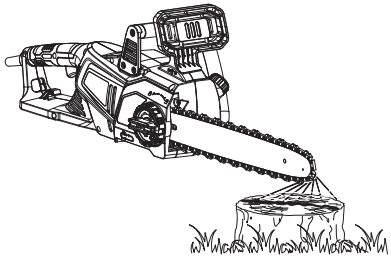


Fig. 12

Connection to power supply

For safety reasons the product is equipped with a short power cord (15). Do not connect the product directly to the power supply using this power cord. A proper extension cord is required for operation. Observe the technical requirements for this product when purchasing an extension cord.

NOTE: For your safety, it is required that the plug attached to this product is always connected to an extension cord! The extension cord must be suitable for outdoor use with sockets protected against water splashing! Ensure the extension cord is of the proper size and type for your product (≥ 1.0 mm^2)!

Always use a residual current supply (RCD, 30 mA or less) protected supply.

1. Double the extension cord back, about 40 cm from the end and lead the loop through the hole of the rear safeguard (18) (Fig. 13, step 1).
2. Pull the extension cord over the cord retainer (14) and gently tug on the cord to ensure that it is firmly secured (Fig. 13, step 2).
3. Connect the power cord (15) to the socket of the extension cord (Fig. 13, step 3).

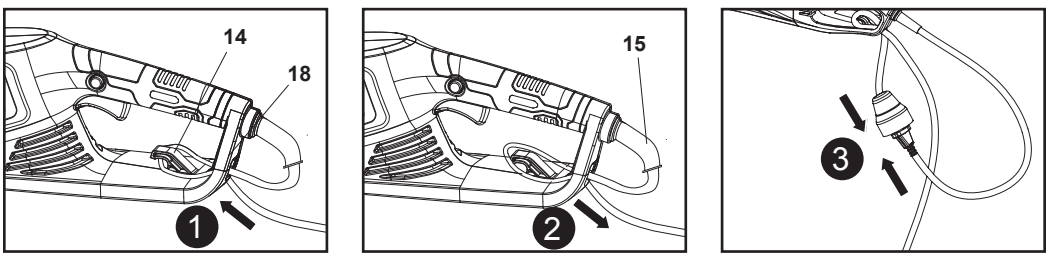


Fig. 13

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4. Make sure that the on/off switch (17) is not pressed.
5. Connect the plug of extension cord into a suitable socket.

WARNING! Check the voltage! The voltage must comply with the information on the rating label!

If using an extension cord it must be suitable for outdoor use with sockets protected against water splashing.

Ensure the extension cord is of the proper size and type for your product:
- 1.5 mm2 for up to 60 m in length
- 2.5 mm2 for up to 100 m in length

6. Your product is now ready to be used.

EN Functions & Settings

Intended use

This electric chain saw MCS2200 / MCS2400-4 / TTCS2200 / TTCS2400 is designated with a rated input of 2200 / 2400 Watts.

The product is intended for cutting logs and limbs with a thickness of max. 35cm (MCS2200/TTCS22000 or 40cm (MCS2400-4/TTCS2400).

It must not be used for cutting other materials, such as plastic, stone, metal, wood that contains foreign objects, or materials that are harmful to health. This product should not be used outside of domestic premises e.g. for cutting firewood in forested areas.

The product may only be used with the guide bar/saw chain combination stated within these instructions. It is not permitted to use other types or sizes.

Vertical and horizontal cuts can be performed with this product. Longitudinal sections can only be cut by professionals.

Do not use this product in wet or humid conditions.

For safety reasons it is essential to read the entire instruction manual before first operation and to observe all the instructions therein.

This product is intended for private domestic use only, not for any commercial trade use. It must not be used for any purposes other than those described.

Chain brake

The chain brake is a safety mechanism activated by the front safeguard (chain brake lever) (3). When kickback occurs the chain stops immediately.

Disengaged chain brake: When the chain brake lever (3) is in the disengaged position, the product can be operated normally (Fig. 14).

Engaged chain brake: When the chain brake lever (3) is in the engaged position, the saw chain is stopped immediately (Fig. 15).

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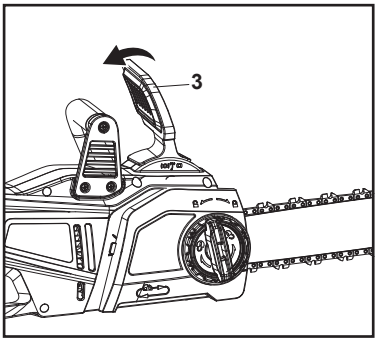


Fig. 14, Disengaged chain brake

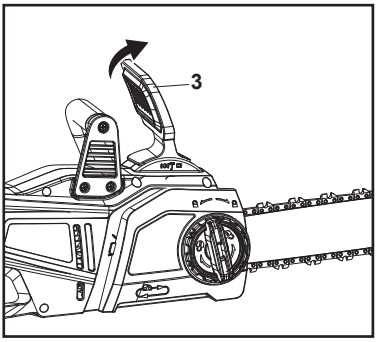


Fig. 15, Engaged chain brake

Chain brake test

WARNING! Before operating this product, always check that the chain brake is in perfect working condition!

The following function check should be carried out before each use. The purpose of the chain brake testing is to reduce the possibility of injury due to kickback.

1. Make sure the chain brake is disengaged. Disengage the chain brake by pulling the front safeguard (chain brake lever) (3) back towards the front handle (2).
2. Place the product on any suitable flat surface, make sure the saw chain (8) is not touching the surface or other objects.
3. Hold the product with left hand on the front handle (2) and right hand on the rear handle (1) (Fig. 16).

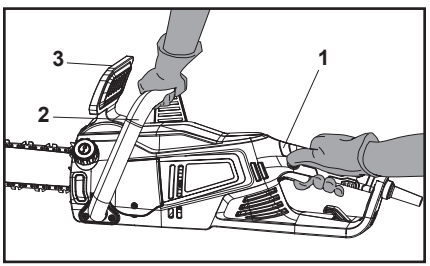


Fig. 16

4. Press the lock-off button (16), then squeeze the on/off switch (17) to switch the product on and wait until it runs at full speed.
5. While the motor is running, engage the chain brake by rolling your left hand forward against the front safeguard (chain brake lever) (3). The saw chain (8) should stop immediately.

WARNING! The motor will not start if the chain brake is in the engaged position.

WARNING! If the saw chain (8) and motor fail to stop when the chain brake is engaged, take the product to the nearest authorised service centre or a similarly qualified person! Do not use the product if the chain brake is not in working properly!

The chain brake should not be used for starting and stopping the product during normal operation!

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On/off switch

1. Press the lock-off button (16) and hold it in position (Fig. 17, step 1).
2. Squeeze the on/off switch (17) to switch the product on (Fig. 17, step 2). Release the lock-off button (16) afterward.
3. Release the on/off switch (17) to switch the product off.

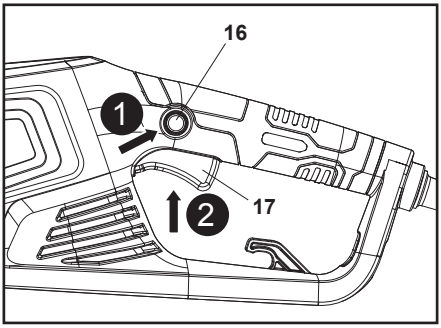


Fig. 16

WARNING! The product will continue to work for some time even after the motor has been switched off! Wait until it comes to a complete stop before you put the product down!

EN Operation

General operation

1. Check the product, its power cord and plug as well as accessories for damage before each use. Do not use the product if it is damaged or shows wear. Take care of any problem you find or have the product checked by qualified specialist.
2. Double check that the accessories and attachments are properly fixed.
3. Check the chain lubrication oil level regularly, refill if necessary.
4. Position the cord so that it will not be caught on branches and the like, during cutting.
5. The first-time user should, as a minimum, practise cutting logs on a saw- horse or cradle.
6. Always hold the product on its handles (1, 2). Keep the handles dry and free from lubricant to ensure safe support.
7. Ensure that the air vents (13) are always unobstructed and clear. Clean them if necessary with a soft brush. Blocked air vents may lead to overheating and damage the product.
8. Switch the product off immediately if you are disturbed while working by other people entering the working area. Always let the product come to complete stop before putting it down.
9. Do not overwork yourself. Take regular breaks to ensure you can concentrate on the work and have full control over the product.
10. Before switching the product on, check whether it has been assembled correctly and all the moving parts are running smoothly!
11. While working, ensure that the product does not strike hard objects, as this can cause damage.
12. Before switching the product on, check whether it has been assembled correctly and all the moving parts are running smoothly! Always test the correct function of the residual current device (RCD) before starting to operate your product.

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Basic operating / cutting procedure

WARNING! Chain saws by their very nature are extremely dangerous machines and should be handled with respect!

We strongly recommend that before use of this product, you attend a chainsaw training course to familiarise yourself with the maintenance and usage of these products!

Thoroughly read this manual and adhere to all safety instructions at all times. Manufacturer will not be held liable for any accidents / injuries caused due to misuse or incorrect maintenance of this product!

1. To become proficient attend a recognised chain saw training course to learn how to operate chain saws safely and effectively. Familiarise yourself with all the controls and switches. Practise all movements with the product switched off.
2. Always hold the product firmly with both hands; front handle (2) with the left hand and rear handle (1) with the right hand. Fully grip both handles at all times during operation. Never operate the product using only one hand.
3. Only use the product with a secure stance. Hold the product at the right-hand side of your body (Fig. 18).

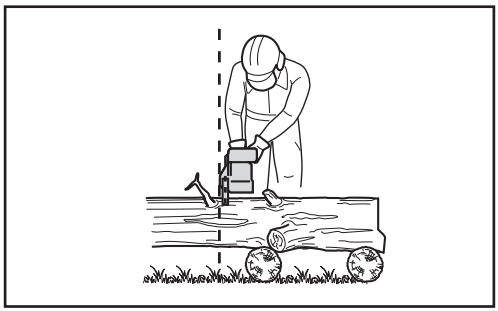


Fig. 18

4. Check the proper lubrication as described in section “Assembly-Chain lubrication” before performing any cut.
5. Ensure the saw chain (8) is running at full speed before it makes contact with the wood. Use spiked bumper (4) to secure the product onto the wood before starting to cut and use it as a leverage point while cutting (Fig. 19).

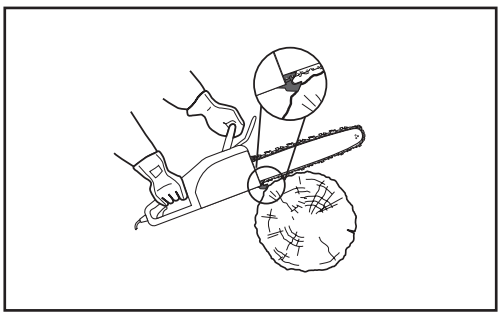


Fig. 19

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6. Reset the spiked bumper (4) at a low point when cutting thicker logs by pulling the product slightly backwards until the gripping teeth release, and reposition at lower level to continue sawing. Do not remove the product completely from the wood.
7. Do not force the saw chain while cutting, let the chain do the work, using the gripping teeth to apply minimal leverage pressure.
8. Do not operate the product with arms fully extended or attempt to saw areas which are difficult to reach, or on a ladder. Never use the product above shoulder height (Fig. 20).

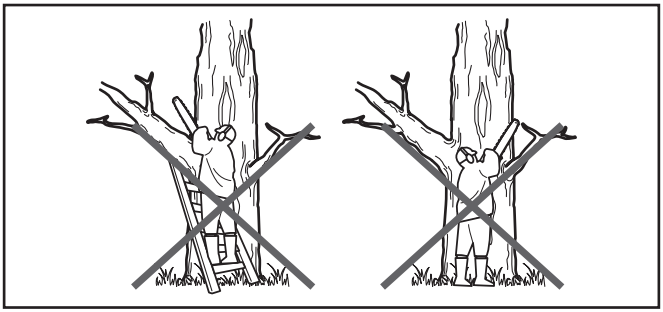


Fig. 20

9. Optimum sawing is achieved if the chain speed remains constant during cutting.
10. Be careful when reaching the end of the cut. The weight of the product may change unexpectedly as it cuts free from the wood. This can cause accidents to the legs and feet. Always remove the product from a wood cut while the product is running.
11. Check that the oil feed to the chain is operating correctly; run the chain saw at medium speed and ensure that the chain has received a consistent coating of oil.

Kickback

WARNING! Beware of kickback! Kickback can lead to dangerous loss of control of the product and result in serious or fatal injury to the operator or anyone standing close by! Always be alert because rotational kickback and pinch kickback are major product operational dangers and the leading cause of most accidents!

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

In some cases, contact with the tip of the guide bar (9) may cause a lightning-fast reverse reaction, kicking the guide bar up and back toward the operator (Figs. 21, 22, 23).

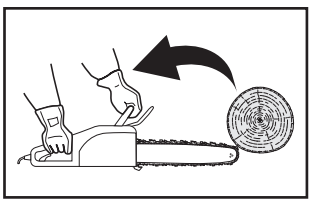


Fig. 21

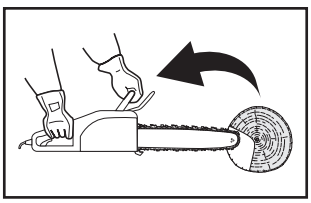


Fig. 22

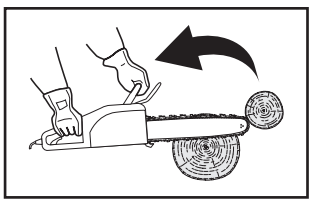


Fig. 23

1. Pinching the saw chain (8) along the bottom of the guide bar (9) may pull the product forward away from the operator (Fig. 24).
2. Pinching the saw chain (8) along the top of the guide bar (9) may push the guide bar rapidly back toward the operator (Fig. 25).

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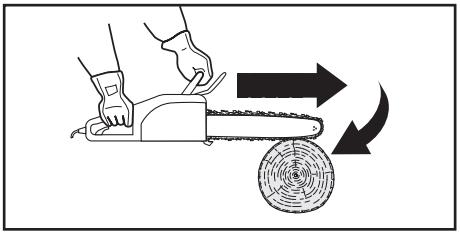


Fig. 24

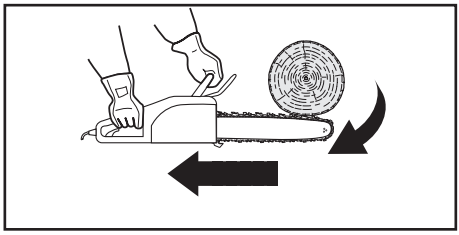


Fig. 25

3. Any of these reactions may cause loss of control of the product, which could result in serious personal injury or even death.
4. With a basic understanding of 'kickback', the element of surprise can be reduced or eliminated. Sudden surprise contributes to the majority of accidents.
5. Keep a good firm grip on the product with both hands, the right hand on the rear handle (1) and the left hand on the front handle (2), when the motor is running. Maintain a firm grip with your thumbs and fingers encircling the product handles (1, 2). A firm grip will help you reduce 'kickback' and maintain control of the product.
6. You should carefully read all safety warnings and user instructions carefully before attempting to operate this product.

To avoid kickback:

1. Saw with guide bar at a flat angle.
2. Never work with a loose, widely stretched or the heavily worn out chain.
3. Ensure chain is sharpened correctly.
4. Never saw above shoulder height.
5. Never work with the tip of the guide bar.
6. Always hold the product firmly with both hands.
7. Always use a low kickback chain.
8. Apply the metal gripping teeth for leverage the work piece.
9. Ensure correct chain tension.
10. Do only cut with the motor at high speeds.
11. Do not let the nose of the guide bar contact a log, branch, or any other obstruction which could be hit while you are operating the product.
12. Follow manufacturer's sharpening and maintenance instructions for the saw chain.
13. Only use replacement guide bars and saw chains specified by the manufacturer or equivalent replacements.



WARNING! Most 'kickback' accidents happen during limbing! Pay close attention to the position of the 'kickback' zone of the bar when you are 'limbing' branches that are under tension!



Felling a tree



WARNING! Before commencing work or attempting to fell any tree, check with your Local Council to ensure you have permission!

Even in your own garden you may be in a conservation area, the tree you wish to fell may have a conservation order against it or the tree may be visible on the plans of your house - In all these instances and more, you may be required to obtain permission before work can begin!

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1. When bucking and felling operations are being performed by two or more persons at the same time, the felling operations should be separated from the bucking operation by a distance of at least twice the height of the tree being felled. Trees should not be felled 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 company should be notified immediately.
2. The product operator should keep on the uphill side of the terrain as the tree is likely to roll or slide downhill after it is felled.
3. An escape path should be planned and cleared as necessary before cuts are started. The escape path should extend back and diagonally to the rear of the expected line of fall (Fig. 26).

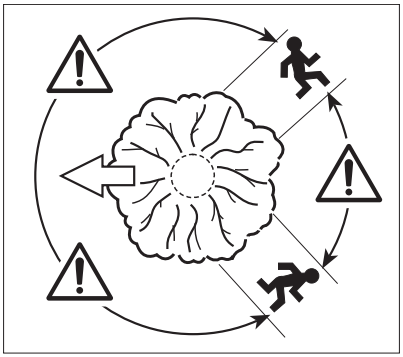


Fig. 26

4. Before felling is started, consider the natural lean of the tree, the location of larger branches and the wind direction to judge which way the tree will fall.
5. Remove dirt, stones, loose bark, nails, staples and wire from the tree.

Notching undercut

Make the notch (Fig. 27, B) 1/3 the diameter of the tree, perpendicular to the direction of fall (Fig. 27). Make the lower horizontal notching cut first. This will help to avoid pinching either the saw chain or the guide bar when the second notch is being made.

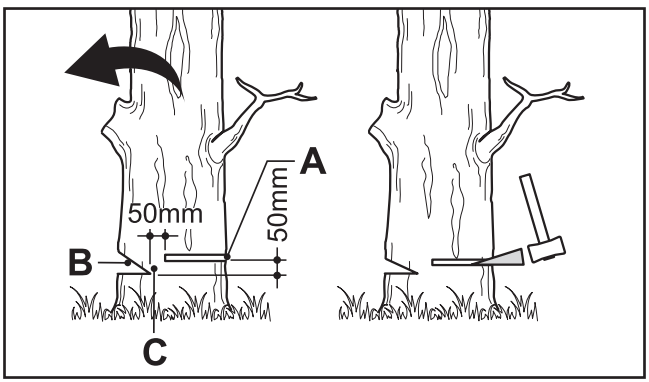


Fig. 27

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Felling back cut

1. Make the felling back cut (Fig. 27, A) at least 50 mm higher than the horizontal notching cut (Fig. 27). Keep the felling back cut parallel to the horizontal notching cut. Make the felling back cut so enough wood is left to act as a hinge. The hinge wood (Fig. 27, C) keeps the tree from twisting and falling in the wrong direction. Do not cut through the hinge.
2. As the felling gets close to the hinge, the tree should begin to fall. If there is any chance that the tree may not fall in desired direction or it may rock back and bind the saw chain, stop cutting before the felling back cut is complete and use wedges of wood, plastic or aluminium to open the cut and drop the tree along the desired line of fall.
3. When the tree begins to fall remove the product from the cut, stop the motor, put the product down, and then use the retreat path planned. Be alert for overhead limbs falling and watch your footing.

Limbing and pruning

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 (Fig. 28). Branches under tension should be cut from the bottom up to avoid binding the product.

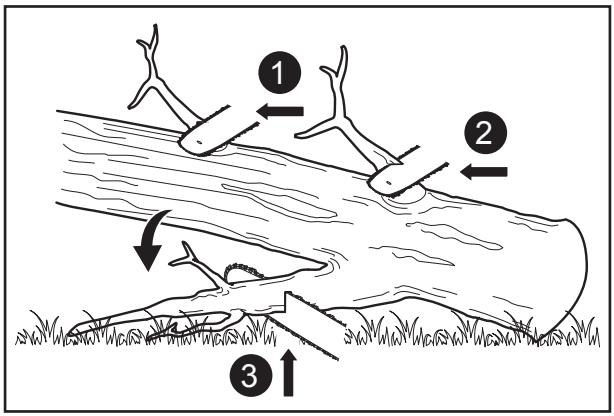


Fig. 28

Warning! Never climb into a tree to limb or prune! Do not stand on ladders, platforms, logs, or in any position which may cause you to lose the balance or control of the saw! When pruning trees, it is important not to make the flush cut next to main limp or trunk until you have cut off the limb further out to reduce the weight! This prevents stripping the bark from the main member!

Warning! If the limbs to be pruned are above chest height, hire a professional to perform the pruning!

Cutting spring poles

A spring pole 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 (Fig. 29).

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 spring poles, they are dangerous.

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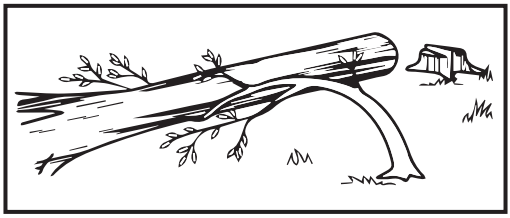


Fig. 29

Bucking a log

Bucking or cross-cutting is cutting a log into lengths. It is important to make sure your footing is firm and your weight is evenly distributed on both feet. When possible, the log should be raised and supported by the use of limbs, logs or chocks.

1. Follow the simple directions for easy cutting. When the log is supported along its entire length (Fig. 30), it is cut from the top (overbuck).

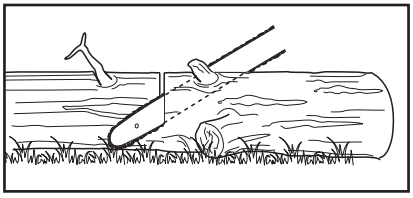


Fig. 30

2. When the log is supported on one end (Fig. 31), cut 1/3 the diameter from the underside (underbuck). Then make the finished cut by overbucking to meet the first cut.

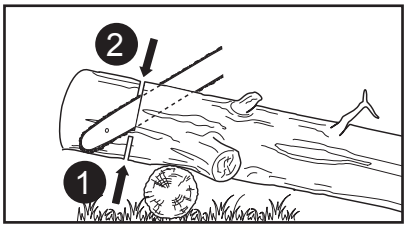


Fig. 31

3. When the log is supported on both ends (Fig. 32), cut 1/3 the diameterfrom the top (overbuck). Then make the finished cut by underbucking the lower 2/3 to meet the first cut.

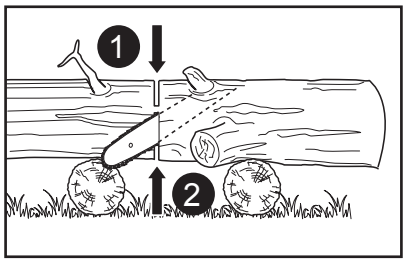


Fig. 32

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4. When bucking on a slope always stand on the uphill side of the log (Fig. 33). When “cutting through”, to maintain complete control release the cutting pressure near the end of the cut without relaxing your grip on the product handles. Don’t let the chain contact the ground. After completing the cut, wait for the saw chain to stop before you move the product. Always stop the motor before moving from tree to tree.

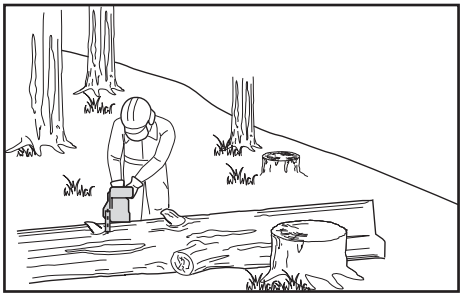


Fig. 33

5. Support small logs on a sawing stand or another log while bucking (Fig. 34)**.**

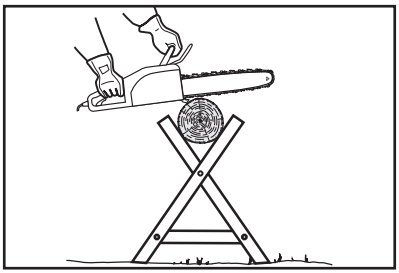


Fig. 34

6. If the wood diameter is large enough for you to insert a soft bucking wedge without touching the chain, you should use the wedge to hold the cut open to prevent pinching (Fig. 35).

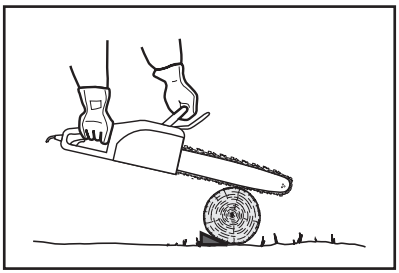


Fig. 35

After use

1. Switch the product off, disconnect it from the power supply and let it cool down.
2. Attach the guide bar cover (22) to the saw chain (8).
3. Check, clean and store the product as described below.

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The golden rules for care

WARNING! Always switch the product off, disconnect the product from the power supply and let the product cool down before performing inspection, maintenance and cleaning work!

1. Keep the product clean. Remove debris from it after each use and before storage.
2. Regular and proper cleaning will help ensure safe use and prolong the life of the product.
3. Inspect the product before each use for worn and damaged parts. Do not operate it if you find broken and worn parts.

WARNING! Only perform repairs and maintenance work according to these instructions! All further works must be performed by a qualified specialist!

General cleaning

1. Clean the product with a damp cloth and pH-neutral soap. Use a brush for areas that are hard to reach.
2. In particular clean the air vents (13) after every use with a cloth and brush.
3. Remove stubborn dust with high pressure air (max. 3 bar).

NOTE: Do not use chemical, alkaline, abrasive or other aggressive detergents or disinfectants to clean this product as they might be harmful to its surfaces.

4. Check for any damage and wear. Repair damages in accordance with this instruction manual or take it to an authorised service centre before using the product again.

Maintenance

Before and after each use, check the product and accessories (or attachments) for wear and damage. If required, exchange them for new ones as described in this instruction manual. Observe the technical requirements.

Sprocket wheel

NOTE: It is not necessary to remove the saw chain (8) to lubricate the sprocket wheel (9a). Lubrication can be done on the job.

1. Clean the sprocket wheel (9a).
2. Using a disposable lube gun, insert the needle nose into the lubrication hole (9b) (Fig. 36) and inject grease until it appears at the outside edge of the sprocket wheel (9a).

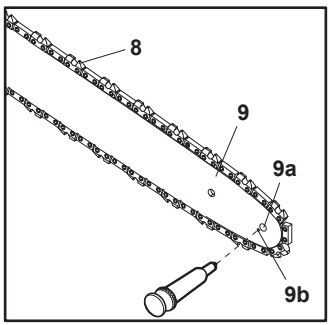


Fig. 36

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3. Rotate the saw chain (8) by hand. Repeat the lubrication procedure until the entire sprocket wheel (9a) has been greased.

Guide bar and saw chain maintenance

Guide bar

Most guide bar problems can be prevented merely by keeping the product well maintained. Incorrect filling and non-standard cutter and depth gauge settings are the causes of most guide bar problems, primarily resulting in uneven bar wear. As the bar wears unevenly, the rails widen, which may cause the chain to clatter and make it difficult to complete straight cuts. If the guide bar is insufficiently lubricated and the product is operated with a saw chain which is too tight, this will contribute to rapid bar wear. To help minimise bar wear, maintenance of the guide bar as well as the saw chain is recommended. Only use recommended guide bar and saw chain combination(s) that can be used and that maintains compliance with this standard EN 62841-4-1.

1. Disassemble the guide bar (9) and saw chain (8) in reversed order from assembly.
2. Check the oiling port (5) for clogging and clean if necessary to ensure proper lubrication of the guide bar and saw chain during operation. Use a soft wire small enough to insert into the oil discharge hole (Fig. 37).

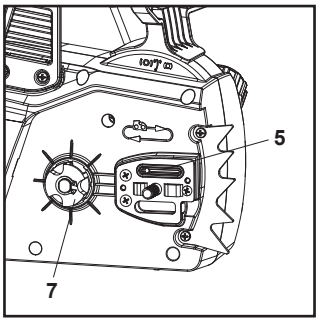


Fig. 37

NOTE: The condition of the oil passages can be easily checked. If the passages are clear, the chain will automatically give off a spray of oil within seconds of the product starting. Your product is equipped with an automatic oiling system.

3. Check the drive sprocket (7). If it is worn or damaged due to strain, have it replaced by an authorised service agent or a similarly qualified person.
4. Clear residue from the rails on the guide bar (9) by using a screwdriver, putty knife, wire brush or other similar tool. This will keep the oil passages open to provide proper lubrication to the guide bar (9) and saw chain (8) (Fig. 38).

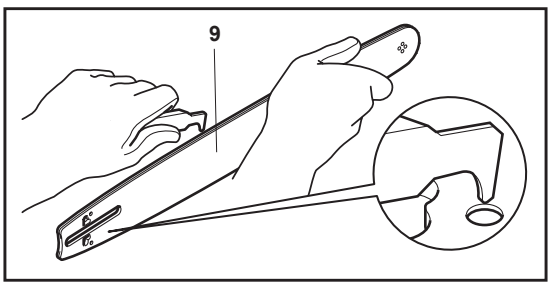


Fig. 38

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5. Regularly check the guide bar rail for abnormal wear. Both sides of the rail should remain at the same height when viewed along the rail edge. Abnormal wear as seen in (Fig.39) indicates that the bar needs to be replaced.

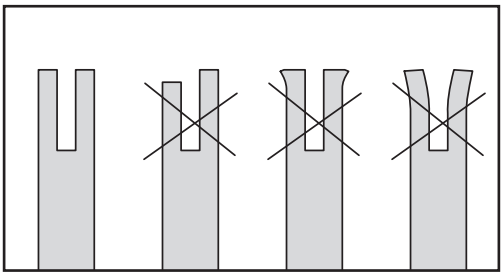


Fig. 39

6. Occasionally disassemble the guide bar and flip it over to allow even wear, thereby extending the life span of the guide bar (9).
7. Check the saw chain for possible wear and damage. Replace it with a new one if required. Experienced users can sharpen a dull saw chain (see section “Saw chain sharpening” below).
8. Refit the saw chain (8) and the guide bar (9) as described under “Assembly”.

Saw chain sharpening

NOTE: Never saw with a blunt chain. The saw chain is blunt if you have to push the product into the tree and the chips are very small.

1. Have the saw chain (8) sharpened professionally at an authorised service centre or sharpen the chain yourself by using a proper sharpening kit. Also observe the sharpening instructions supplied with the sharpening kit.

WARNING! Only sharpen the saw chain yourself if you are trained and have experience! Use proper tools to sharpen the saw chain!

2. The height difference between the tooth and the ridge is the cutting depth. When sharpening the saw chain (8) you have to consider the following points (Fig. 40).
   - File angle
   - Cutting angle
   - File position
   - Diameter of round file
   - File depth

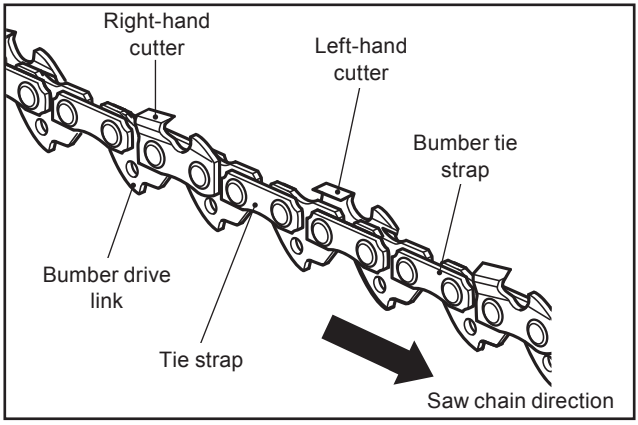


Fig. 40

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3. To sharpen the chain proceed as follows: Ensure tool is disconnected from the power supply.
   - Use protective gloves.
   - Ensure the chain is correctly tensioned.
   - Engage the chain brake to lock the chain on the bar.
4. Use a chain file, whose diameter is 1.1 times the cutting tooth depth. Make sure 20 % of the file diameter is above the cutter's top plate.

NOTE: A file guide is available from most reputable tool merchants and is the easiest way to hold the file at the correct position.

5. File at an angle perpendicular to the bar, and at an angle of 25° to the direction of travel (Fig. 41).

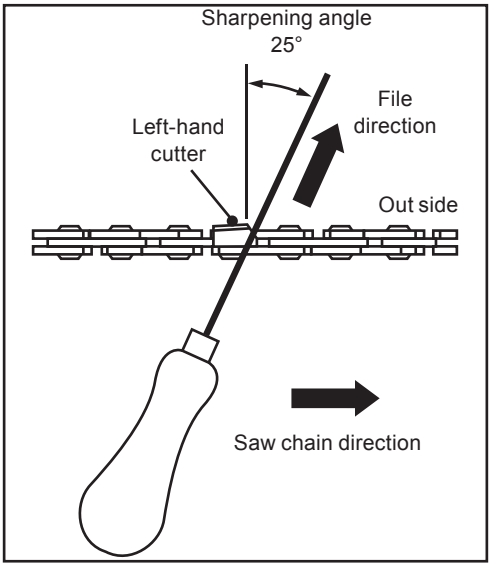


Fig. 41

6. File each tooth from the inside towards outside only. File one side of the chain first than turn the saw around and repeat the process.
7. Sharpen each tooth equally by using the same number of strokes.
8. Keep all cutter lengths equal. Check the safety depth gauge height every 5 sharpenings. If the depth gauges are also trimmed it is essential that the original profile be restored.
9. Use a depth gauge measuring instrument to check the height of the depth gauge. Depth gauge measuring jigs are available from most reputable tool merchants (Fig. 42).

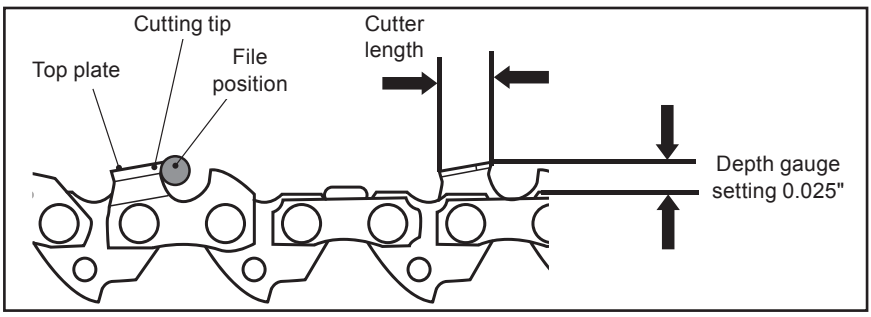


Fig. 42

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Power cord

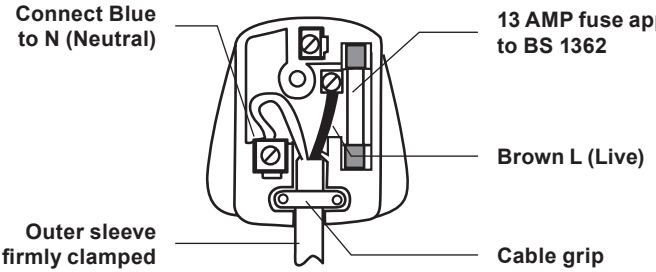
If the power cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a safety hazard.

UK plug (for UK only)

If you need to replace the fitted plug, then follow the instructions below.

IMPORTANT: The wires in the mains lead are coloured in accordance with the following code:
Blue - Neutral
Brown - Live

As the colours of the wire in the mains lead of this product may not correspond with the coloured marking identifying the terminals in your plug, proceed as follows. The wire, which is coloured blue, must be connected to the terminal, which is marked with N or coloured black. The wire, which is coloured brown, must be connected to the terminal, which is marked L or coloured red.



WARNING! Never connect live or neutral wires to the earth terminal of the plug, which is marked with E.

Only fit an approved 13 Amp BS 1363 or BS 1363/A plug and correctly rated 13 Amp BS 1362 fuse. If in doubt, consult a qualified electrician.

NOTE: If a moulded plug is fitted and has to be removed take great care in disposing of the plug and severed cable, it must be destroyed to prevent engaging into a socket.

Spare parts/Replacement parts

Spare parts are available at an authorised dealer or through our customer service.

Repair

This product does not contain any parts that can be repaired by the consumer. Contact an authorised service centre or a similarly qualified person to have it checked and repaired.

Storage

1. Switch the product off, disconnect it from the power supply and let it cool down.
2. Clean the product as described above.
3. Attach the guide bar cover (22) to the saw chain (8).
4. Store the product and its accessories in a dark, dry, frost-free, well-ventilated place.
5. Always store the product in a place that is inaccessible to children. The ideal storage temperature is between 10 °C and 30 °C.

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6. We recommend using the original package for storage or covering the product with a suitable cloth or enclosure to protect it against dust.
7. Empty the oil tank if you are not going to use the product for an extended period of time (more than 3 months) and before storing it for the winter.

Transportation

1. Switch the product off, disconnect it from the power supply and let it cool down.
2. Attach the guide bar cover (22) to the saw chain (8).
3. Always carry the product by its handles (1, 2).
4. Protect the product from any heavy impact or strong vibrations which may occur during transportation in vehicles.
5. Secure the product to prevent it from slipping or falling over.

Troubleshooting

Suspected malfunctions are often due to causes that the users can fix themselves. Therefore check the product using this section. In most cases the problem can be solved quickly.

WARNING! Only perform the steps described within these instructions! All further inspection, maintenance and repair work must be performed by an authorised service centre or a similarly qualified specialist if you cannot solve the problem yourself!

Problem	Possible cause	Solution
1. Product does not start	1.1. Not connected to power supply	1.1. Connect to power supply
	1.2. Power cord or plug is defective	1.2. Check by a specialist electrician
	1.3. Chain brake is activated	1.3. Disengage the chain brake
	1.4. Other electrical defect to the product	1.4. Check by a specialist electrician
2. Product does not reach full power	2.1. Extension cord not suitable for operation with this product	2.1. Use a proper extension cord
	2.2. Power source (e. g. generator) has too low voltage	2.2. Connect to another power source
	2.3. Air vents are blocked	2.3. Clean the air vents
3. Unsatisfactory result	3.1. Saw chain is not tensioned properly	3.1. Tension properly
	3.2. Saw chain is dull/damaged	3.2. Sharpen or replace the saw chain
	3.3. Chain oil port is blocked	3.3. Clean the oil port
4. Product suddenly stops	4.1. Saw chain is blocked	4.1. Remove blockage
	4.2. Chain oil tank is empty	4.2. Refill the chain oil
5. Excessive vibration or noise	5.1. Saw chain is dull/damaged	5.1. Replace with a new one
	5.2. Chain oil is incorrect	5.2. Drain out unused oil and refill with correct oil

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Recycling and disposal



Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist.

Check with your Local Authority or local store for recycling advice.

For further information visit www.recycle-more.co.uk.

The product comes in a package that protects it against damage during shipping. Keep the package until you are sure that all parts have been delivered and the product is working properly. Recycle the package afterwards.

EN Guarantee

We take special care to select high quality materials and use manufacturing techniques that allow us to create products incorporating design and durability. This product has a manufacturer's guarantee of 2 years against manufacturing defects, from the date of purchase (if bought in store) or date of delivery (if bought online), at no additional cost for normal (non-professional or commercial) household use.

To make a claim under this guarantee, you must present your proof of purchase (such as a sales receipt, purchase invoice or other evidence admissible under applicable law), please keep your proof of purchase in a safe place. For this guarantee to apply, the product you purchased must be new, it will not apply to second hand or display products. Unless stated otherwise by applicable law, any replacement product issued under this guarantee will only be guaranteed until expiry of the original period guarantee period.

This guarantee covers product failures and malfunctions provided the product was used for the purpose for which it is intended and subject to installation, cleaning, care and maintenance in accordance with the information contained in these terms and conditions, in the user manual and standard practice, provided that standard practice does not conflict with the user manual.

This guarantee does not cover defects and damage caused by normal wear and tear or damage that could be the result of improper use, faulty installation or assembly, neglect, accident, misuse, or modification of the product. Unless stated otherwise by applicable law, this guarantee will not cover, in any case, ancillary costs (shipping, movement, costs of uninstalling and reinstalling, labour etc), or direct and indirect damage.

This guarantee does not cover defects and damage caused by or resulting from:

- Normal wear and tear
- Overload, misuse or neglect
- Repairs attempted by anyone other than an authorised agent
- Cosmetic damage
- Damage caused by foreign objects, substances or accidents
- Accidental damage or modification
- Failure to follow manufacturer's guidelines
- Loss of use of the goods

If the product is defective, we will, within a reasonable time, repair, replace or provide spare parts.

Rights under this guarantee are enforceable in the country in which you purchased this product. Guarantee related queries should be addressed to the store you purchased this product from.

The guarantee is in addition to and does not affect your statutory rights.

IMPORTANT - RETAIN THIS INFORMATION FOR FUTURE REFERENCE: READ CAREFULLY

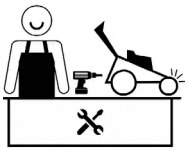
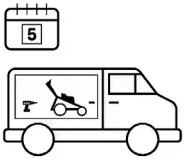
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Customer care and technical helpline

A better way to repair your tools

Kingfisher takes special care in creating high-quality garden power tools that are designed to last. But if a fault develops with your garden power tool and you need to claim under the guarantee, the Customer Care and Technical Helpline can support with technical assistance or if required, arrange a free courier collection from your home, assess your garden power tool for fault, repair it, and return it.

Deciding to repair your product rather than buying a replacement and adding to the mountain of waste is a more sustainable choice and you will be doing your bit for the environment.

How does it work?				
				
Step 1	**Step 2**	**Step 3**	**Step 4**	**Step 5**
Find your proof of purchase and get in touch with the Customer Care and Technical Helpline.	Chat to them about the problem with your tool.	They will provide technical and user advice or alternatively arrange a courier collection from your home.*	The team will assess and test and if necessary, repair your product back to full working order.	Your repaired tool will be returned to you via courier within 5 working days*.

Get in touch

If you need help or more information, please contact the Customer Care and Technical Helpline:

UK: 0800 0789647
Eire: 1800 932226

Opening hours are Monday – Friday, 8am-5pm

Availability of spare parts

Contact the customer service helpline for assistance or visit www.kingfisherspares.com

For assistance contact the customer services helpline:
UK 0800 0789647 uk@Kingfisherservice.com
EIRE 1800 932226 eire@kingfisherservice.com

Further information about this product can also be found at:
www.kingfisher.com/products

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Manufacturer:

UK Manufacturer:
Kingfisher International Products Limited,
1 Paddington Square, London, W2 1GG,
United Kingdom

EU Manufacturer:
Kingfisher International Products B.V.
Rapenburgerstraat 175E
1011 VM Amsterdam
The Netherlands

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