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EGO CS2000E Cordless Chain Saw User Guide



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READ ALL INSTRUCTIONS!



READ OPERATOR'S MANUAL

MARNING: To ensure safety and reliability, all repairs should be performed by a qualified service technician.

A WARNING: Be sure to read and understand all safety instructions in this Operator's Manual, including all safety alert symbols such as "DANGER," "WARNING," and "CAUTION" before using this tool. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious personal injury.

SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE.

SAFETY SYMBOL

A WARNING: The operation of any power tools can result in foreign objects being thrown into your eyes, which can result in severe eye damage. Before beginning power tool operation, always wear safety goggles or safety glasses with side shields and a full face shield when needed. We recommend a Wide Vision Safety Mask for use over eyeglasses or standard safety glasses with side shields.



A Safety Alert



Wear Eye Protection



Wear Head Protection



Beware of chain saw kickback and avoid contact with bar tip



The information of guide bar

Guaranteed sound power level. Noise emission to the environment according to the European community's Directive

C This product is in accordance with applicable EC directives.



mm Millimeter

V Voltage

IPX4 Protection From Splashing Water

To reduce the risk of injury, user must read and understand operator's manual before using this product.









Waste electrical products should not be disposed of with household waste. Take to an authorized recycler.

UK CA This product is in accordance with applicable UK legislation.

Direct Current

n0 No Load Speed

/min Per Minute

NOTE: The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, inc. and any use of such marks by EGO is under license.

SPECIFICATIONS

Rated Voltage	56 V ===
Max. Chain Speed	25 m/s
Chain Pitch	3/8" (9.5 mm)
Chain Gauge	1.3 mm
Guide Bar Length	50 cm
Saw Chain Type	AC2005

Guide Bar Type		AG2005	
Chain Oil Tank Capac	city	250 ml	
Weight (without battery pack, saw chain, guid e bar, side cover, oil and chain sheath)		3.9 kg	
Recommended Opera	ating Temperature	-15°C-40°C	
Recommended Storage Temperature		-20°C-70°C	
Recommended Charging Temperature		5°C-40°C	
Measured sound power level LWA		103 dB(A) K=1.7 dB(A)	
Sound pressure level	at working position LPA	89 dB(A) K=3 dB(A)	
Guaranteed sound power level LWA(accordin g to 2000/14/EC)		105 dB(A)	
Vibration ah	Front Handle	4.69 m/s2 K=1.5 m/s2	
VIDIALION AN	Rear Handle	4.24 m/s2 K=1.5 m/s2	

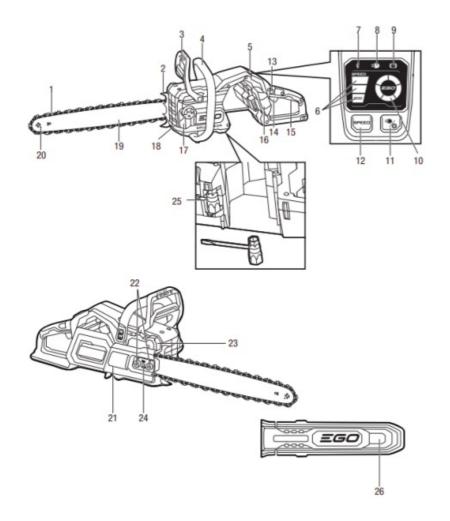
- The declared vibration total value has been measured in accordance with a standard test method and may be used for comparing one tool with another;
- The declared vibration total value may also be used in a preliminary assessment of exposure.

NOTICE: The vibration emission during actual use of the power tool can differ from the declared value in which the tool is used; In order to protect the operator, user should wear gloves and ear protectors in the actual conditions of use.

PACKING LIST (FIG.A1)

DESCRIPTION

KNOW YOUR CHAIN SAW (Fig. A1)



- 1. Saw Chain
- 2. Bucking Spikes
- 3. Chain-kickback Brake Paddle
- 4. Front Handle
- 5. LCD Screen
- 6. Speed Bars
- 7. Bluetooth Icon
- 8. Headlight Icon
- 9. Brake Icon
- 10. Fuel-gauge Circle
- 11. Headlight/Bluetooth Button
- 12. Chain Speed Button
- 13. Lock-off Button
- 14. Trigger Switch
- 15. Rear Handle
- 16. Battery Release Button
- 17. Oil-inspection Window

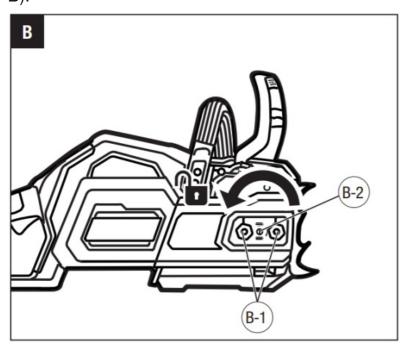
- 18. Oil-tank Cap
- 19. Guide Bar
- 20. Lubricating Hole
- 21. Side Cover
- 22. Side Cover Nuts
- 23. LED Headlight
- 24. Chain-tensioning Bolt
- 25. Double-end Socket Wrench
- 26. Chain Sheath

ASSEMBLY

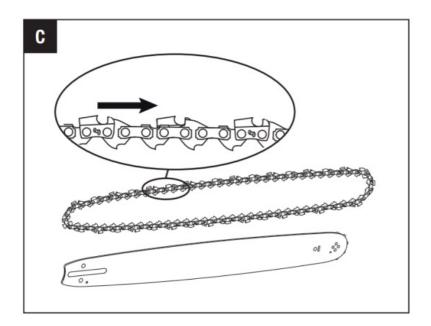
ASSEMBLING/REPLACING THE BAR AND CHAIN

WARNING: Adjust the chain-kickback brake paddle in the braking position before assembly.

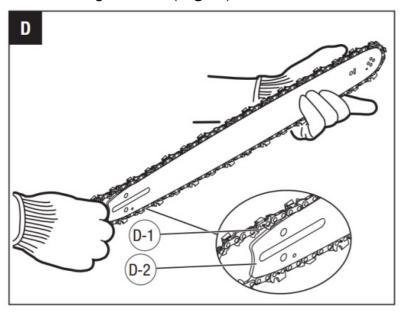
 Position the chain saw power head on its side with the side cover facing upwards (Fig. B).



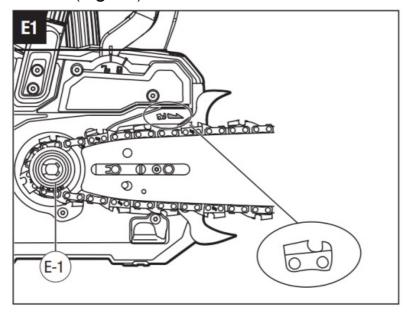
- 2. Remove the side cover by turning the two lock nuts counterclockwise.
- 3. Tum the chain-tensioning bolt counterclockwise to loosen the chain tension.
- 4. Lay the saw chain in a loop on a flat surface and straighten any kinks (Fig. C).



5. Place the chain drive links into the guide bar groove and make the chain a loop at the back of the guide bar (**Fig. D**).

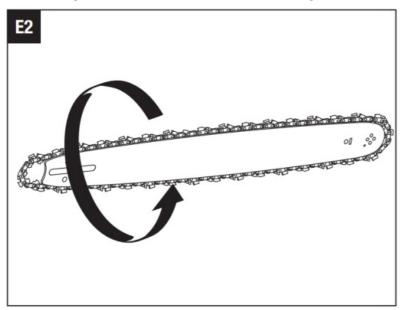


6. Hold the chain in position on the guide bar and place the loop around the sprocket of the saw (**Fig. E1**).



B-1	Lock Nuts	D-2	Guide Bar Groove
B-2	Chain-tensioning Bolt	E-1	Drive Sprocket
D-1	Chain Drive Links		

NOTICE: When looping the saw chain onto the guide bar, make sure that, after mounting the guide bar onto the saw, match the cutter pattern and rotation direction arrow on the housing. If they face in opposite directions, reassemble the saw chain onto the guide bar with the cutters facing the same direction (Fig. E2).

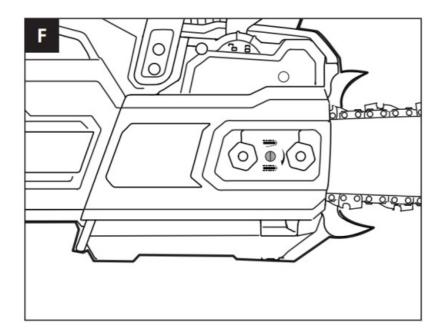


- 7. Replace the side cover onto the chain saw housing and fully tighten the two lock nuts.
- 8. Rotate the chain by hand to check whether the chain is properly assembled without binding. Otherwise, reassemble the chain and bar.

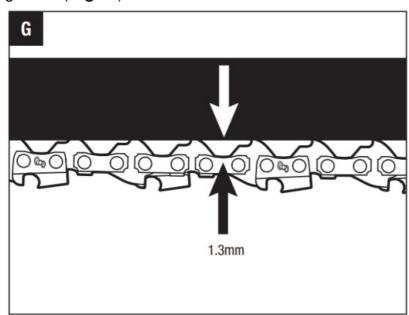
NOTICE: To extend the guide bar life, invert the bar occasionally

ADJUSTING THE CHAIN TENSION

Stop the motor and remove the battery pack before adjusting the chain tension. Turn
the chain-tensioning bolt clockwise or counterclockwise to adjust chain tension (Fig. F)
until the chain seats snugly against the guide bar with the drive links in the guide bar
groove.



- A cold chain is correctly tensioned when there is no slack on the underside of the guide bar and the chain is snug, but it can be turned by hand without binding. The chain must be re-tensioned whenever the flats on the drive links do not sit in the bar groove.
- During normal saw operation, the temperature the chain will increase. The drive links of a correctly tensioned warm chain will hang approximately 1.3 mm out of the bar groove (**Fig. G**).



NOTICE: New chains tend to stretch, check chain tension frequently and tension as required.

NOTICE: A chain tensioned while it is warm may be too tight upon cooling. Check the cold tension before next use.

OPERATION

AWARNING: Do not allow familiarity with this product to make you careless.

Remember that a careless fraction of a second is sufficient to inflict serious injury.

WARNING: Do not use any attachments or accessories not recommended by the manufacturer of this product. The use of attachments or accessories not recommended can result in serious personal injury.

WARNING: To prevent accidental starting that could cause serious personal injury, always remove the battery pack from the tool when assembling parts, making adjustments, cleaning, or when not in use.

Before each use, inspect the entire product for damaged, missing, or loose parts, such as screws, nuts, bolts, caps, etc. Securely tighten all fasteners and caps and do not operate this product until all missing or damaged parts are replaced.

APPLICATION

You may use this product for basic felling, limbing, pruning, and woodcutting of lumber and trees.

NOTICE: The machine is to be used only for its prescribed purposes. Any other use is deemed to be a case of misuse.

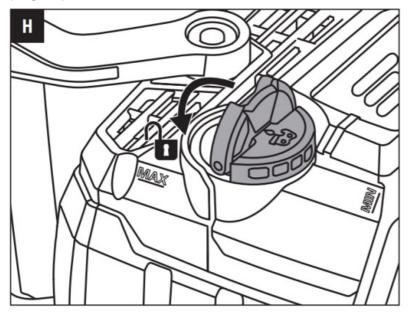
FILLING BAR AND CHAIN LUBRICANT

WARNING: Do not smoke or bring any fire or flame near the oil or the chain saw. Oil may spill and cause a fire.

NOTICE: The chain saw is not filled with oil at the time of purchase. It is essential to fill the tank with oil before use. The chain is automatically lubricated with chain oil during operation.

- 1. Position the chain saw on its side with the tank cap facing upwards.
- 2. Clean the oil tank cap and the area around it to ensure that no dirt falls into the oil tank.
- 3. Lift up the semicircular plate and rotate the oil tank cap counterclockwise to remove it

(Fig. H).



- 4. Carefully pour the bar and chain oil into the tank. Fill to the bottom of the fill neck.
- 5. Wipe off any excessive oil and replace the cap.

NOTICE: Check the oil level frequently and fill when the oil level falls below the minimum line. Never operate the chain saw if the oil is not visible.

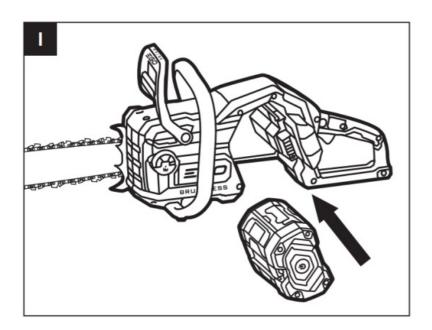
ATTACHING/DETACHING THE BATTERY PACK

Use only with EGO's battery packs and chargers listed in Fig. A2.

Fully charge before first use.

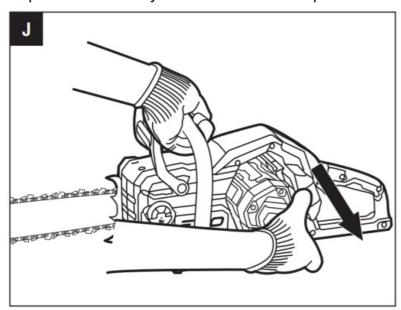
To Attach

Align the battery ribs with the mounting slots and press the battery pack down until you hear a "click" (**Fig. 1**).



To Detach

Depress the battery-release button and pull the battery pack out (Fig. J.

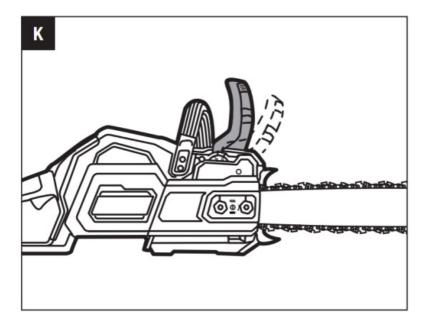


STARTING/STOPPING THE CHAIN SAW

NOTICE: Before starting the chain saw, check for the oil level, saw teeth sharpness and properly working kickback brake paddle. Besides, balanced footing and proper distance away from the ground are needed.

To Start (Fig. K)

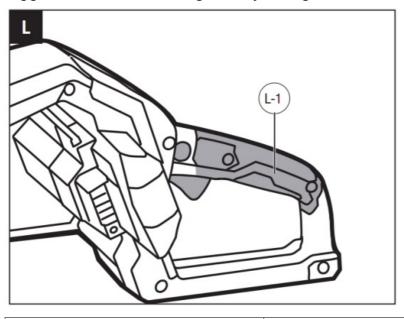
1. Pull the chain-kickback brake paddle towards the front handle to the operating position (**Fig. K**).



2. Firmly grasp the front handle with the left hand and the rear handle with the right hand.

WARNING: To avoid injury, always use the chain saw with the right hand grasping the gripping area of the rear handle (**Fig. L**).

3. Press and hold the lock-off button with the thumb of your right hand, then squeeze the trigger switch with the fingers of your right hand to start the saw (**Fig. L**).



L-1	Gripping Area
-----	---------------

- 4. Release the lock-off button and continue to squeeze the trigger switch for continued operation.
- 5. The further the trigger switch is depressed, the greater the chain speed. Adjust the speed to suit the task at hand.

A WARNING: Do not attempt to start the saw when the saw chain is in a cut

To Stop

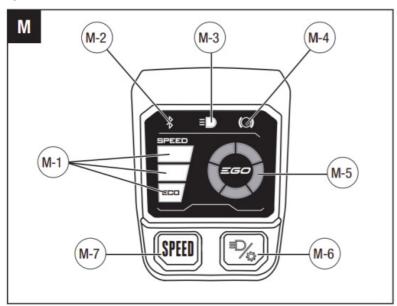
1. Move the chain saw away from cutting area, and then release the trigger switch to stop the chain saw.

Push the chain-kickback brake paddle forward to the brake position to engage the chain brake (Fig. K).

WARNING: Always remove the battery pack from the machine during work breaks and after finishing work.

CHANGING SPEED MODE (FIG. M)

This machine features three speed modes. Each speed mode the limits the maximum speed of the chain saw. The speed mode will change with every press of the chain speed button.



The speed bars on the LCD screen will display the active speed mode: one bar for low speed, two bars for medium speed, and three bars for high speed. The low speed mode (ECO) provides better control of the machine and longer operating time per charge.

M-1	Speed Bars	M-5	Fuel-gauge Circle
M-2	Bluetooth Icon	M-6	Headlight/ Bluetooth Butt on

M-3	Headlight Icon	M-7	Chain Speed Button
M-4	Brake Icon		

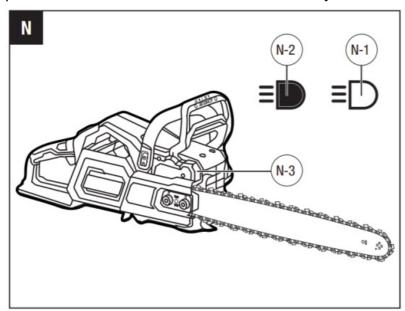
NOTE: When using EGO battery pack rated 2.5Ah or less, only the ECO mode is available. And use of EGO battery pack rated less than 6.0Ah will not allow you to achieve high speed. For best performance, we strongly recommend use of EGO battery packs that are 6.0Ah (e.g., BA3360T) or more.

NOTE: The machine's speed memory function will remember the last speed setting and activate it the next time the machine is turned on.

NOTE: The LCD screen lights up when trigger switch is pulled or when the speed button or headlight/Bluetooth button is pressed. It will automatically tum off after approximately 30 seconds of chain saw inactivity.

LED HEADLIGHT (Fig. N)

The LED headlight is located in the front of the chain saw housing. The headlight provides illumination for increased visibility and features 2 brightness levels.

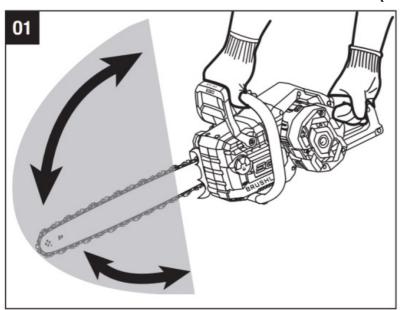


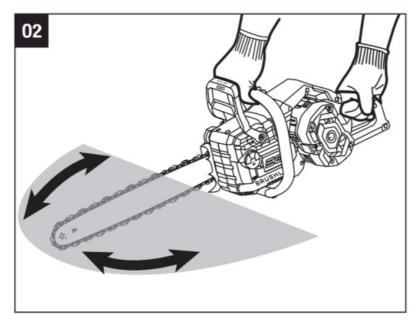
To turn on the headlight, press the headlight/Bluetooth button (Fig. M) one time. The headlight will turn on in low brightness level and the low brightness headlight icon will appear on the LCD screen. Press the headlight/Bluetooth button again. to switch to high brightness level and the high brightness headlight icon will appear on the LCD screen.

To turn off the headlight, press the headlight/Bluetooth button the third time and the headlight icon will disappear from the LCD screen.

N-1	Low Brightness Headlight I con	N-3	LED Headlight
N-2	High Brightness Headlight Icon		

OMNI-DIRECTIONAL CHAIN BRAKE SYSTEM (Fig. 01 and Fig. 02)





▲ WARNING: The omni-directional chain brake system is not intended to act as a substitute to the standard/traditional chain brake. The user should never rely on this feature during operation of the chain saw to protect against kickback. Always follow

safety instructions related to kickback mitigation found in the warming section of this manual.

When the omni-directional chain brake system is activated and stops the saw, the brake icon will be flashing on the LCD screen (Fig. M). Release the trigger switch, remove the saw chain and guide bar from the wood, then restart the chain saw.

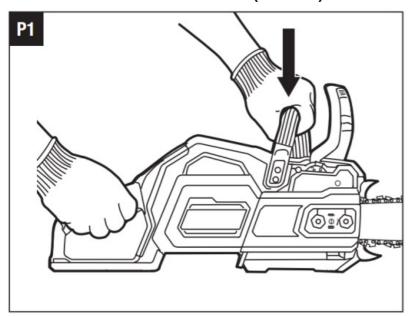
NOTE: The sensors will only detect sudden motion of the saw in the plane of the guide bar (fig. 01). The sensors will not detect any sudden motion of the saw sideways (fig. 02) (.e., perpendicular to the plane of the guide bar).

COMMUNICATION TECHNOLOGY

For information on our full range of connected products and services, including connection instructions, please scan QR Code below or visit www.egopowerplus.eu/connect.



PROPER GRIP ON HANDLES (FIG. P1)



• Wear non-slip gloves for maximum grip and protection.

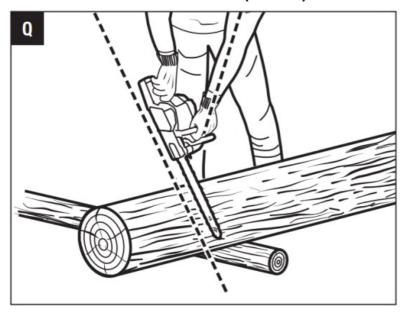
- With the saw on a firm, flat surface, hold the saw firmly with both hands.
- Always grasp the front handle with the left hand and the rear handle with the right hand.
- The fingers should encircle the handle, with the thumb wrapped under the front handle.

WARNING: Never use a left-handed (cross-handed) grip, or any stance which would place your body or arm across the chain line.

▲ WARNING: Do not operate the trigger switch with your left hand and hold the front handle with your right hand. Never allow any part of your body to be in the chain line while operating a chain saw (Fig. P2).



PROPER CUTTING STANCE (FIG. Q)



• Both feet should be on solid ground, with weight evenly spread between them.

- The left arm should be straight, with the elbow locked This helps to withstand the forces generated by kickback.
- Your body should always be to the left of the chain line.

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

WARNING: Always be sure of your footing and hold the chain saw firmly with both hands while the motor is running

WARNING: When the saw chain is stopped due to pinching during cutting, release the trigger switch; remove the saw chain and guide bar from the wood, then restart the chain saw.

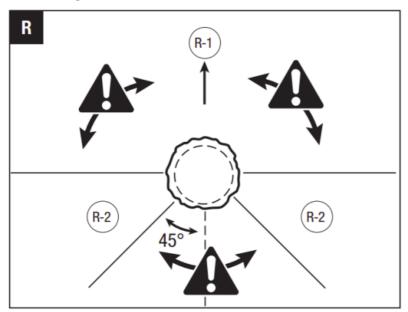
WARNING: Do not pull the saw chain with hand when It is bound by the sawdust. Serious injury could result if the chain saw starts accidentally. Press the saw chain against the wood, move the chain saw back and forth to discharge the debris. Always remove the battery pack before cleaning. Wear heavy protective gloves when handling the saw chain.

WARNING: Never start the chain saw when it is in contact with the wood. Always allow the chain saw reach full speed before applying the saw to the wood.

FELLING A TREE

- When bucking and felling operations are being performed by two or more persons at the same time, the felling operation 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 utility company should be notified immediately.
- The chain saw operator should stand on the uphill side of the terrain, as the tree is likely to roll or slide downhill after it is felled.
- 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 as Fig. R shown.



R-1	Felling Direction	R-2	Safety Retreat Path

- 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.
- Remove dirt, stones, loose bark, nails, staples and wire from the tree.

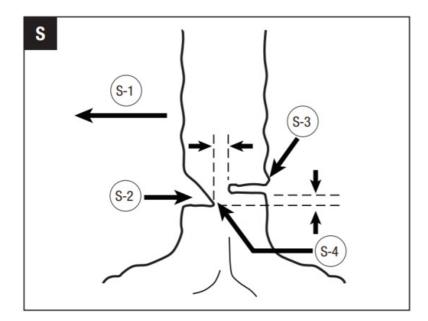
Notching undercut

Make the notch 1/3 the diameter of the tree, perpendicular to the direction of falls as
 Fig. S shown. 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.

S-1	Direction of Fall	S-3	Felling Back Cut
S-2	Notch	S-4	Hinge

Felling back cut

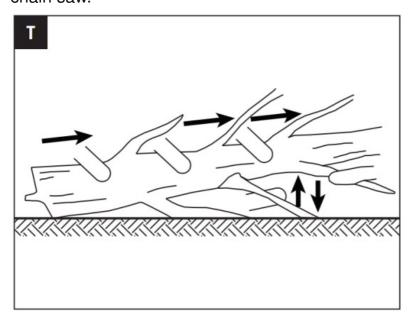
Make the felling back cut at least 50 mm higher than the horizontal notching cut as
 Fig. S shown. Keep the felling back cut parallel to the horizontal notching cut. Make the felling back cut so enough wood is left to act as a hinge. The hinge wood keeps the tree from twisting and falling in the wrong direction. Do not cut through the hinge.



- 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.
- When the tree begins to fall remove the chain saw from the cut, stop the motor, put
 the chain saw down, then use the retreat path planned. Be alert for overhead limbs
 falling and watch your footing.

Limbing a tree

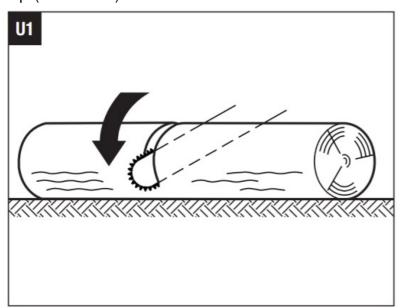
Limbing is removing the branches from a fallen tree. When limbing leave larger lower limbs to support the log off the ground. Remove the small limbs in one cut as **Fig. T** shown. Branches under tension should be cut from the bottom up to avoid binding the chain saw.



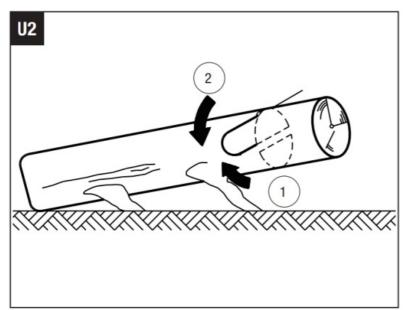
Bucking a log

Bucking 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. Follow the simple directions for easy cutting.

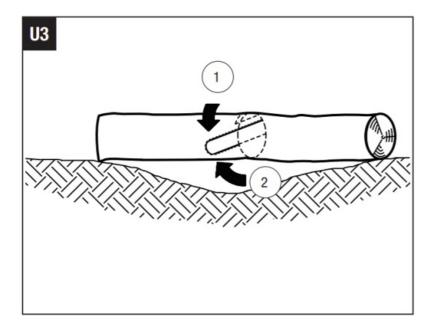
 When the log is supported along its entire length as Fig. U1 shown, it is cut from the top (over buck).



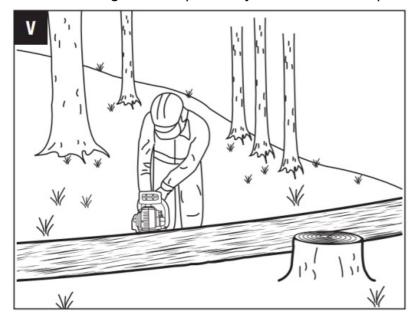
 When the log is supported on one end, as Fig. U2 shown, cut 1/3 the diameter from the underside (under buck). Then make the finished cut by over bucking to meet the first cut.



• When the log is supported on both ends, as **Fig. U3** shown, cut 1/3 the diameter from the top (overbuck). Then make the finished cut by under bucking the lower 2/3 to meet the first cut..



• When bucking on a slope always stand on the uphill side of the log, as Fig. V shown.



When "cutting through", to maintain complete control release the cutting pressure near
the end of the cut without relaxing your grip on the chain saw handles. Don't let the
chain contact the ground. After completing the cut, wait for the saw chain to stop
before you move the chain saw. Always stop the motor before moving from tree to
tree.

MAINTENANCE

WARNING: When servicing, use only identical replacement parts. Use of any other parts may create a hazard or cause product damage. To ensure safety and reliability, all repairs should be performed by a qualified service technician.

MARNING: To avoid serious personal injury, always remove the battery pack from

the product belter inspecting cleaning, or performing maintenance. A battery operated tool with the battery pack inserted is always on and can start accidently

WARNING: When cleaning the chain saw, DO NOT immerse it in water or other liquids

WARNING: Do not at any time let brake fluids, petrol petroleum-based products, perietrating oils, etc., come in contact with plastic parts. Chemicals can damage, weaken, or destroy plastic, which may result in serious personal injury.

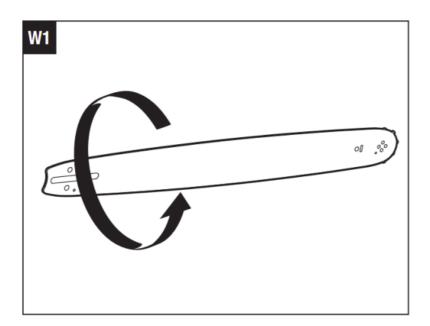
CLEANING

- After each use, clean debris from the chain and guide bar with a soft brush. Wipe the chain saw surface with a dean cloth moistened with a mild soap solution.
- Remove the side cover, and then use a soft brush t remove debris from the guide bar, saw chain, sprocket and side cover
- Always clean out wood chips, saw dust, and dirt from the guide bar groove when replacing the saw chain

GUIDE BAR MAINTENANCE

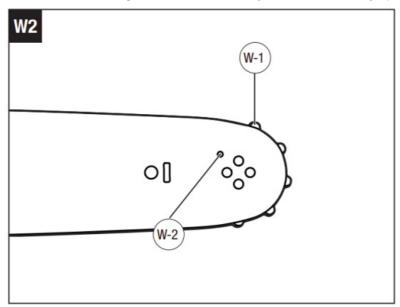
When the guide bar shows signs of wear, disassemble it from the chain saw power head and reverse it for reassembly (**Fig. W1**). This way the wear will be distributed to maximize the guide har life.

The bar should be cleaned every day of use and checked for wear and damage. Feathering or burring of the bar rails is a normal procesit of bar wear. Such faults should be smoothed with a file as soon as they occur. A bar with any of the following faults should be replaced.

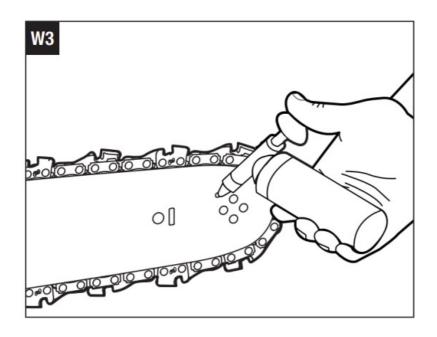


- Wear inside the hark mails which permits the chain to liny over sideways.
- Bent guide bar
- · Cracked or broken rails
- Spread rails

In addition, the guide bar has a sprocket at its tip (Fig. W2).



The sprocket must be lubricated weekly with a grease syringe to extend the guide bar life. Use a grease syringe to lubricate weekly with chain oil by means of the lubricating hole (Fig. W3). Turn the guide bar and check that the lubrication holes and chain groove are free from impurities.



W-	Sprocket in Guide Bar Ti	W-2	Lubricating Hole
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NOTICE: Use EGO authorized lubricants for best results.

TRANSPORTING AND STORING

Do not store or transport the chain saw when it is running. Always remove the battery pack before storing or transporting.

Always place the guide bar sheath on the guide bar and chain before storing or transporting the chain saw. Use caution to avoid the sharp teeth of the chain.

Clean the chain saw thoroughly before storing. Store the chain saw indoors, in a dry place that is locked and/or inaccessible to children.

Keep away from corrosive agents such as garden chemicals and de-icing salts.

PROTECTING THE ENVIRONMENT

Do not dispose of electrical equipment, used battery and charger into household waste!

Take this product to an authorized recycler and make it available for separate collection.

Electric tools must be returned to an environmentally compatible recycling facility.

TROUBLESHOOTING

▲ WARNING: Always protect your hands by wearing heavy gloves when performing any maintenance on the saw chain. Always remove the battery pack when servicing or transporting the chain saw.

PROBLEM	CAUSE	SOLUTION
Motor does not s tart.	 The battery pack is not attached to the chain saw. No electrical contact between the saw and battery pack. The battery pack charge is depleted. The battery pack or chain saw is too hot. Chain brake is engaged. Debris in bar groove. Debris in side cover. 	 Attach the battery pack to the chain saw. Remove battery pack, check contacts and reinstall the battery pack. Charge the battery pack or chain saw to cool until the temperature drops below 67°C. Pull the chain-kickback brake paddle backward toward the front handle, arriving at the operating position. Press the saw chain against the wood, move the chain saw back and forth to discharge the debris. Remove battery pack, then remove side cover and clean out debris.

Chain saw stops running during w orking.	 The chain saw is overloaded The battery pack or chain s aw is too hot. Saw chain is bound in the w ood. 	 Decrease the load. Decrease the load. Allow the b attery pack or chain saw to coo I until the temperature drops be low 67°C. Release the trigger switch; rem ove the saw chain and guide b ar from the wood, the restart th e chain saw.
Motor runs, but c hain does not rot ate.	Chain does not engage driv e sprocket.	Reinstall the chain, ensuring th at the drive links on the chain a re fully seated on the sprocket.
Chain brake doe s not engage.	 Debris preventing full move ment of the chain-kickback brake paddle. Possible chain brake malfun ction. 	 Clean debris from the external chain brake mechanism. Contact EGO Customer Servic e for repair.

Chain saw does not cut properly.	 Insufficient chain tension. Dull chain. Chain installed backwards. Worn chain. Dry or excessively stretched chain. Chain not in bar gro ove. 	 Readjust the chain tension, foll owing the section: "ADJUSTIN G THE CHAIN TENSION". Sharpen the chain. Reinstall the saw chain, following the section "ASSEMBLING/REPLACING THEBAR AND CHAIN". Replace the chain, following the section: "ASSEMBLING/REPLACING THE BARANDCHAIN". Check the oil level. Refill the oil tank and choose a higher oil supply volume if necessary. Reinstall the saw chain, following the section: "ASSEMBLING/REPLACING THEBAR AND CHAIN".
Chain becomes I oose or drops off the guide bar during normal us e.	 The chain will become loose as the temperature of the chai n increases during normal saw operation. Chain does not en gage drive sprocket. 	 Tighten the chain tension, following the section "ADJUSTING THE CHAIN TENSION". Reinstall the saw chain, following the section: "ASSEMBLING /REPLACING THEBAR AND CHAIN".

WARRANTY

EGO WARRANTY POLICY

Please visit the website egopowerplus.eu for full terms and conditions of the EGO Warranty policy.



Documents / Resources



EGO CS2000E Cordless Chain Saw [pdf] User Guide

CS2000E, CS2000E Cordless Chain Saw, CS2000E, Cordless Chain Saw, Chain Saw, Saw

References

- User Manual
 - Chain Saw, Cordless Chain Saw, CS2000E, CS2000E Cordless Chain Saw, EGO,
- EGO Saw

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