



# EGO CS1800E Cordless Chain Saw Instruction Manual

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**EGO CS1800E Cordless Chain Saw**



## **READ OPERATOR'S MANUAL**

Residual risk! People with electronic devices, such as pacemakers, should consult their physician(s) before using this product. Operation of electrical equipment in close proximity to a heart pacemaker could cause interference or failure of the pacemaker.

### **SAFETY SYMBOL**

The purpose of safety symbols is to attract your attention to possible dangers. The safety symbols and the explanations with them deserve your careful attention and understanding. The symbol warnings do not, by themselves,

### **SAFETY SYMBOLS**



Safety Alert



Wear Eye Protection



Wear Head Protection



Guide Bar



Guide Bar Tip Kickback



Do Not Expose To Rain.



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

V

Volt



Direct Current



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



Wear Ear Protection



Wear Protective Gloves



Do not use chain saw one handed



Always use chain saw two-handed



Beware of chain saw kickback and avoid contact with bar tip



Noise

min<sup>-1</sup>

Revolutions per minute



CE

eliminate any danger. The instructions and warnings they give are no substitutes for proper accident prevention measures.

**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.

## SYMBOL MEANING

This page depicts and describes safety symbols that may appear on this product. Read, understand, and follow all instructions on the machine before attempting to assemble and operate it.

## SPECIFICATIONS

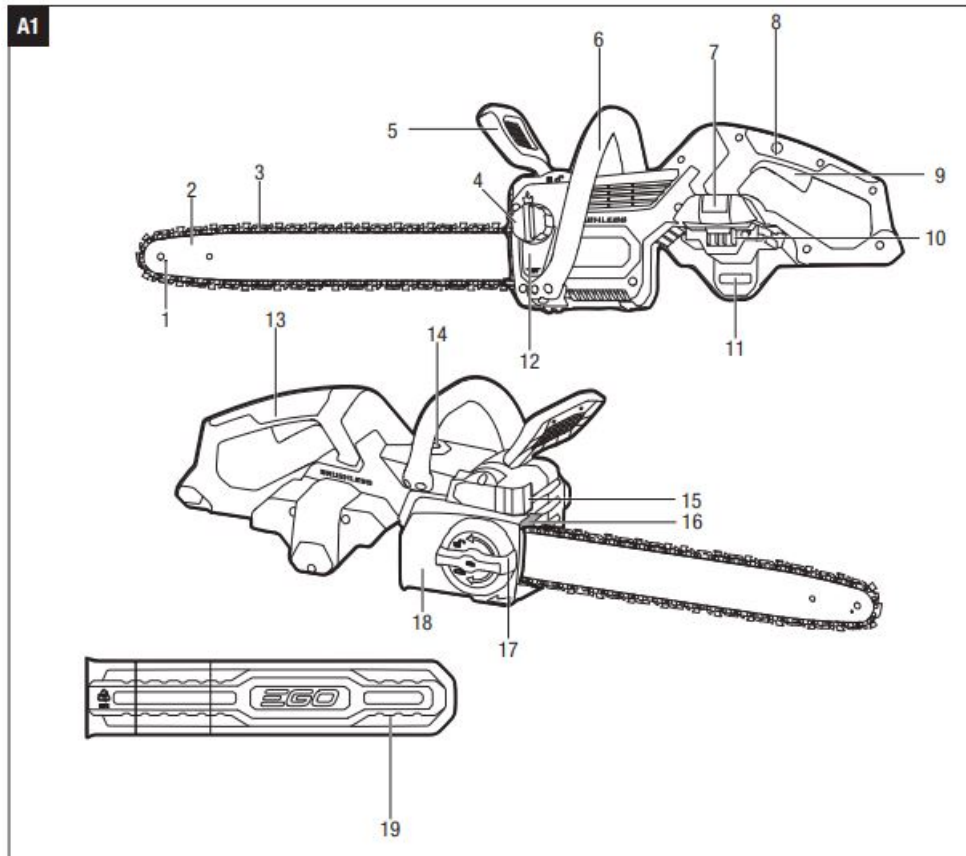
Voltage		— 56 V
Recommended Operating Temperature:		-15°C-40°C
Recommended Storage Temperature:		-20°C-70°C
Optimum Charging Temperature		5 °C-40 °C
Chain speed		20 m/s
Chain Pitch		9.5 mm
Chain Gauge		1.3 mm
Saw Chain Type		AC1800(Recommend) AC1600(Compatible) AC1400(Compatible)
Guide Bar Type		AG1800(Recommend) AG1600(Compatible) AG1400(Compatible)
Chain Oil Tank Capacity		200 ml
Weight (without battery pack, chain sheath)		4.4kg
Measured sound power level LWA		103.53 dB(A) K=1.17 dB(A)
Sound pressure level at working position LPA		92.53 dB(A) K=3.0 dB(A)
Guaranteed sound power level LWA (according to 2000/14/EC)		105 dB(A)
Vibration ah	Front Handle	5.158 m/s <sup>2</sup> K=1.5 m/s <sup>2</sup>
	Rear Handle	5.537 m/s <sup>2</sup> K=1.5 m/s <sup>2</sup>

- 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.

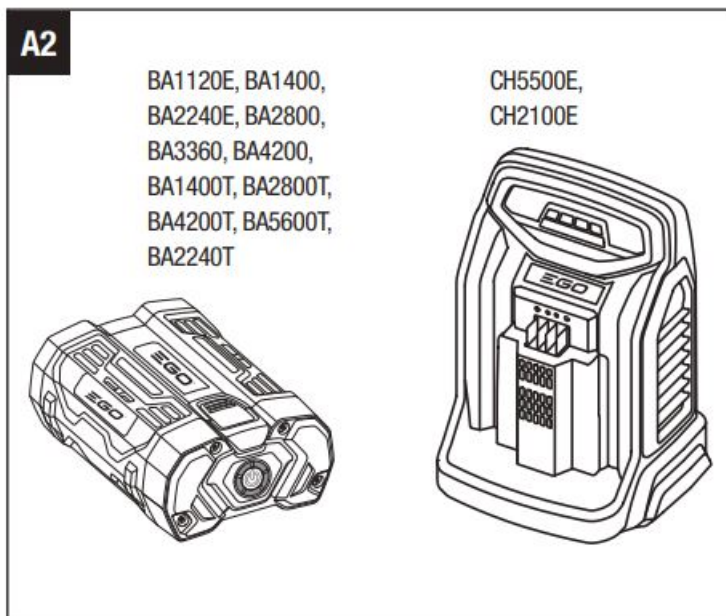
## DESCRIPTION

## KNOW YOUR CHAIN SAW (Fig. A1)



1. Lubricating Hole
2. Guide Bar
3. Saw Chain
4. Oil Tank Cap
5. Chain Kickback Brake Handle
6. Front Handle
7. Battery- Release Button
8. Lock-off Button
9. Variable-Speed Trigger Switch
10. Electric Contacts
11. Injection Mechanism
12. Oil-Inspection Window
13. Rear Handle
14. LED Button
15. LED Headlights
16. Bucking Spikes
17. Quick Chain-tension Adjust Knob
18. Side Cover
19. Chain Sheath

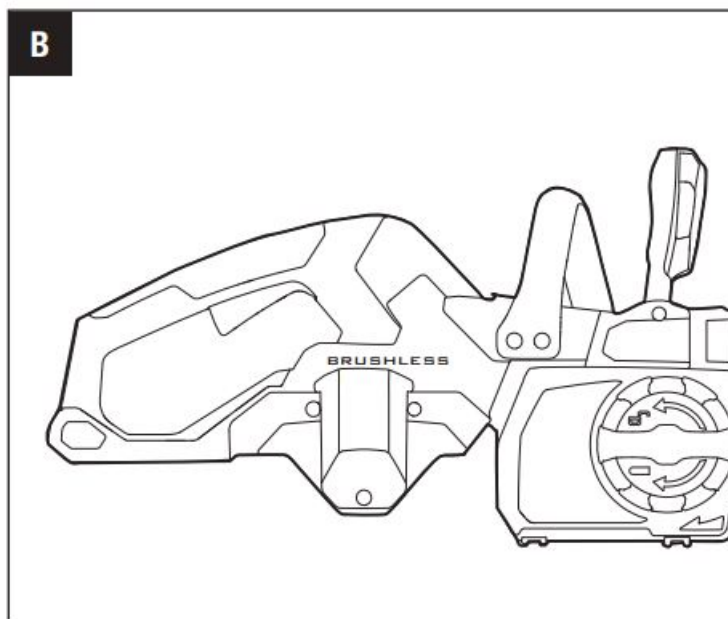
## PACKING LIST (FIG.A1)



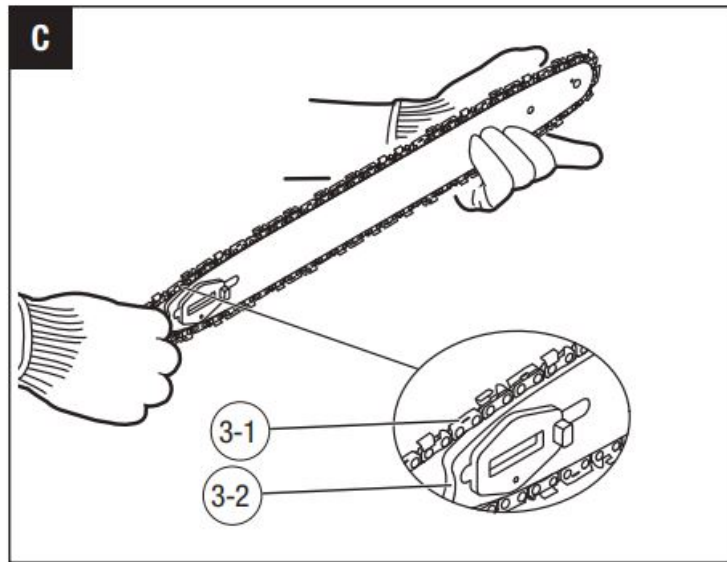
## ASSEMBLING/REPLACING THE BAR AND CHAIN

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

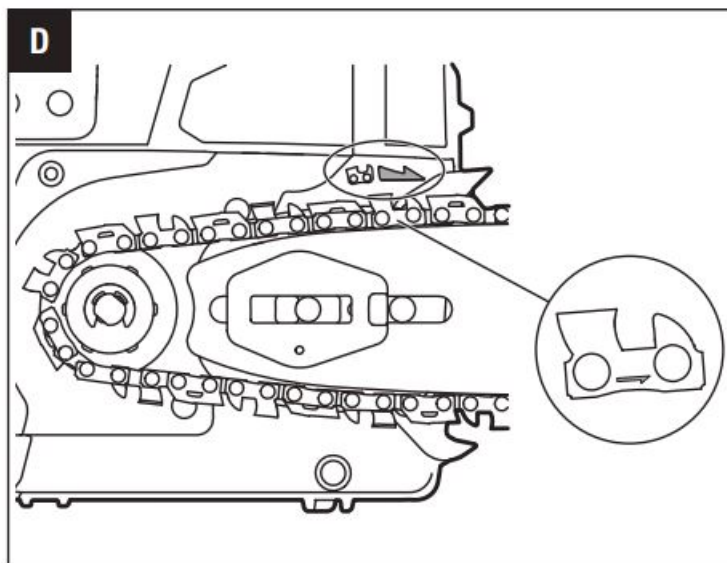
1. Position the chain saw power head on its side with the side cover facing upwards (Fig. B).



2. Remove the side cover by turning the quick chain-tension adjust knob counterclockwise
3. Lay the new saw chain in a loop on a flat surface and straighten any kinks .
4. Place the chain drive links into the guide bar groove and make the chain a loop at the back of the guide bar (Fig. C).



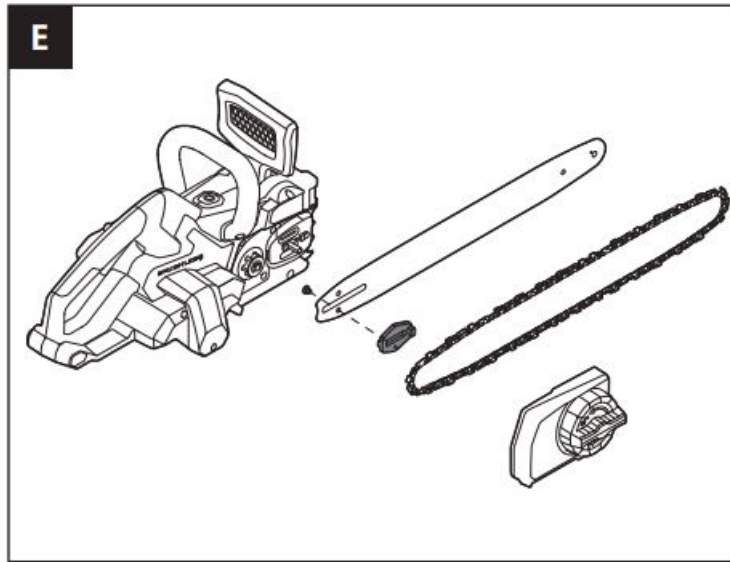
5. Hold the chain in position on the guide bar and place the loop around the sprocket of the power head (Fig. D).



**NOTICE:** Small directional arrows are engraved in the saw chain and power head. When looping the saw chain onto the guide bar, make sure that the direction of the arrows on the saw chain will correspond to the direction of the arrow on the power head.

6. Replace the side cover and fully tighten the quick chain-tension adjust knob. The eccentric gear inside the side cover is designed to ensure that the chain will not be over-tensioned
7. Adjust the chain-kickback brake handle in the operating position, and then rotate the chain by hand to check whether the chain is properly assembled without binding. Otherwise, reassemble the chain and bar.

**NOTICE:** There is an adjustment plate connected to the guide bar with a screw. If the guide bar needs to be replaced, disassemble the adjustment plate from the guide bar and reassemble it onto the new guide bar as Fig. E shown.



## OPERATION

### APPLICATION

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

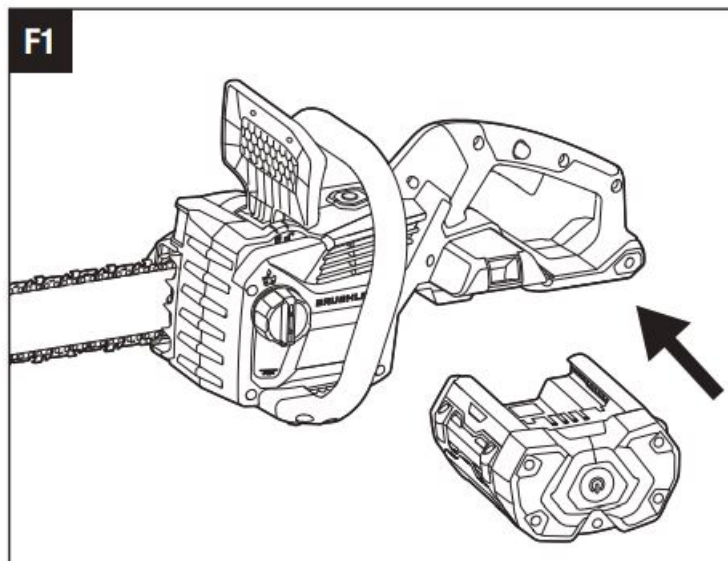
**NOTICE:** The tool is to be used only for its prescribed purpose. Any other use is deemed to be a case of misuse

### ATTACHING/DETACHING THE BATTERY PACK

Fully charge before first use. Use only with battery packs and chargers listed in fig.A2.

#### To Attach

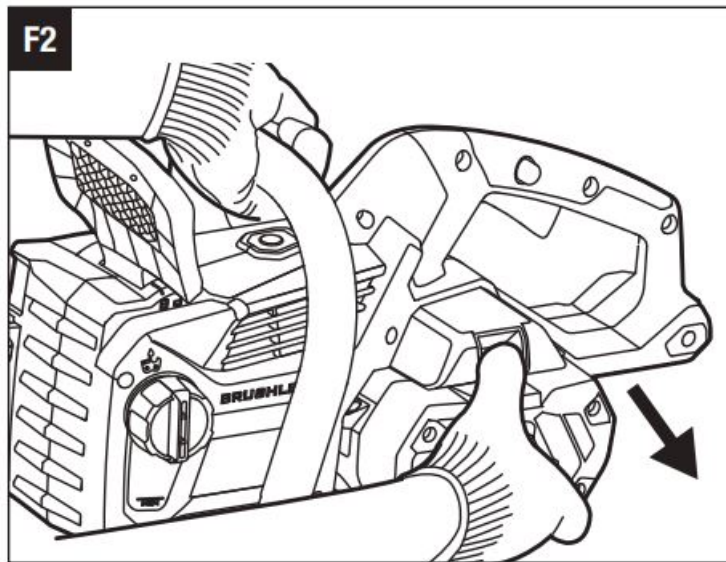
Align the battery ribs with the mounting slots and press the battery pack down until you hear a “click” (Fig. F1).



#### To Detach

Depress the battery-release button and pull the battery pack out (Fig. F2).





## LED HEADLIGHTS

The LED headlight (Fig. A1-15) is located in the front of the chain saw power head. This feature provides extra light for increased visibility and can be adjusted to 2 brightness levels. To turn on the lights, press the LED button (Fig. A1-14) once. The headlights provide bright light in front of the chain saw. Press the LED button a second time and the headlights shine more brightly. To turn off the headlights, press the LED button a third time.

## STARTING/STOPPING THE CHAIN SAW

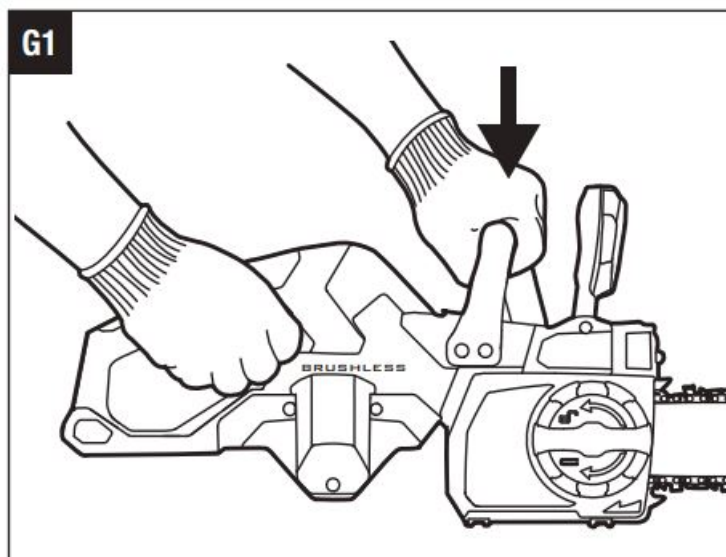
### Before Starting the Chain Saw

**NOTICE:** Before starting the chain saw, check for the quick chain-tension adjustment and the oil level, saw teeth sharpness and the operation of the kickback brake handle. As well as, balanced footing and proper distance away from the ground are needed.

## TO START

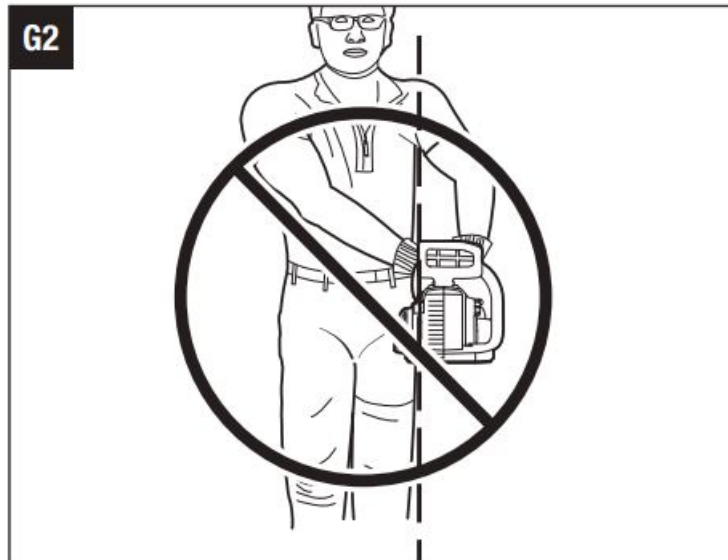
1. Pull the chain-kickback brake handle towards the front handle to the operating position
2. Grasp the front and rear handles firmly, using both hands.
3. Press and hold the lock-off button, then squeeze the variable-speed trigger switch to start the saw. Chain speed will increase with increased pressure on the variable-speed trigger.
4. Release the lock-off button and continue to squeeze the variable-speed trigger switch for continued operation.

### Proper Grip On Handles (Fig. G1)



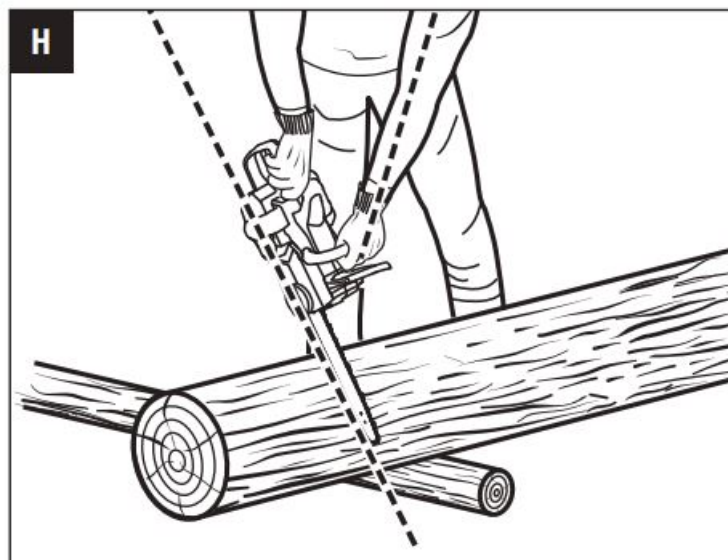
- Wear non-slip gloves for maximum grip and protection.
- With the saw on a firm, flat surface, hold the saw firmly with both hands.
- Always grasp the front handle with the left hand and the rear handle with the right.
- The fingers should encircle the handle, with the thumb wrapped under the front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

**WARNING:** Never use a left-handed (cross-handed) grip, or any stance which would place your body or arm across the chain line (Fig. G2)



#### Proper Cutting Stance (Fig. H)

- 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.



## CUTTING

### Basic Cutting

- For the first-time user, please practise cutting logs on a saw -horse or cradle.

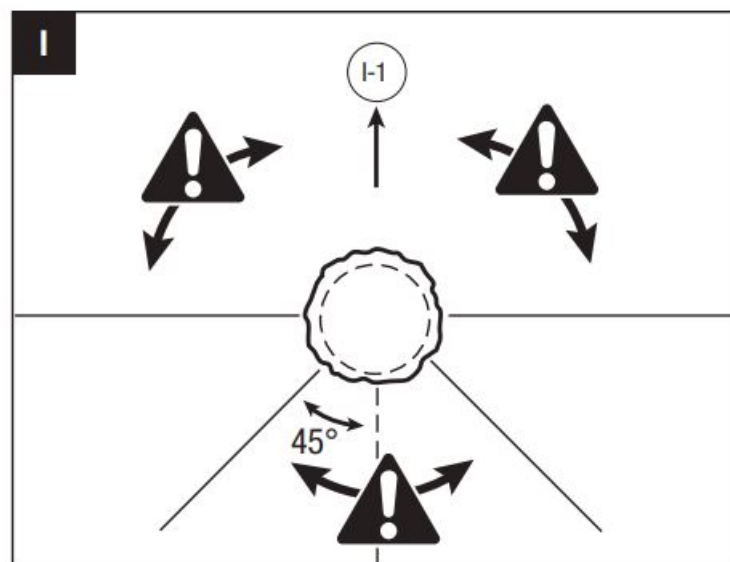
- Begin cutting by lightly pressing the guide bar against the wood. Use only light pressure, letting the saw do the work
- Maintain a steady speed throughout the cut, releasing pressure just before the end of the cut.

#### **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.
- Do not pull the saw chain with your hand when it is bound by the sawdust.
- 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**

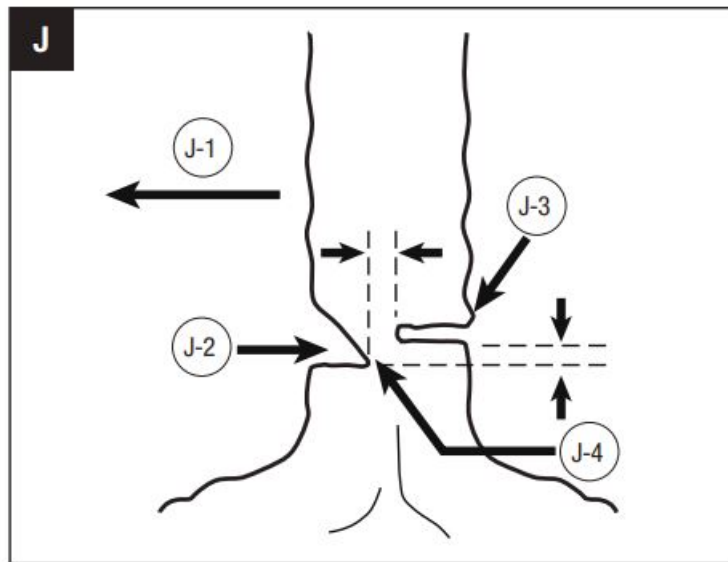
- When bucking and felling operations are being performed by two or more persons at the same time, the felling operation should be separated from the bucking operation by a distance of at least twice the height of the tree being felled. Trees should not be felled in a manner that would endanger any person, 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. I shown.



- 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 fall, as illustrated in Fig. J. Make the lower horizontal notching cut first. This will help to avoid pinching of either the saw chain or the guide bar when the second notch is being made.



### Felling back cut

- Make the felling back cut at least 50 mm higher than the horizontal notching cut as Fig. J-3 shown.

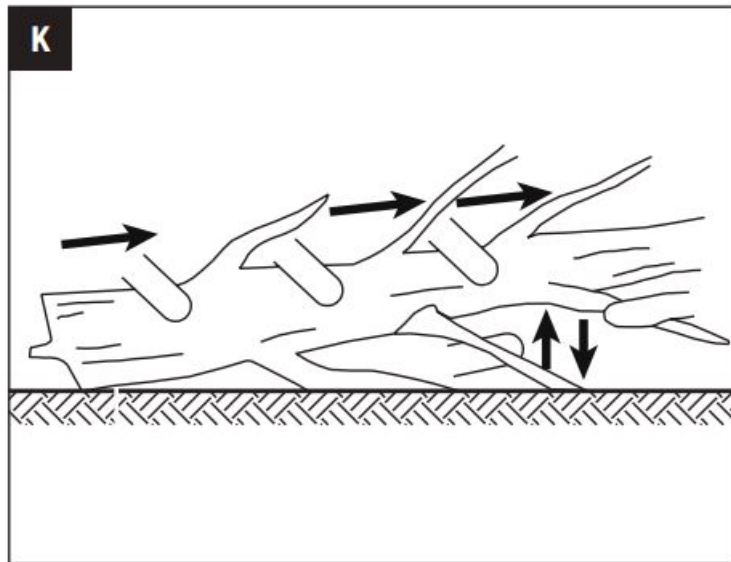
J-1	Direction of fall	J-3	Felling back cut
J-2	Notch	J-4	Hinge

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.

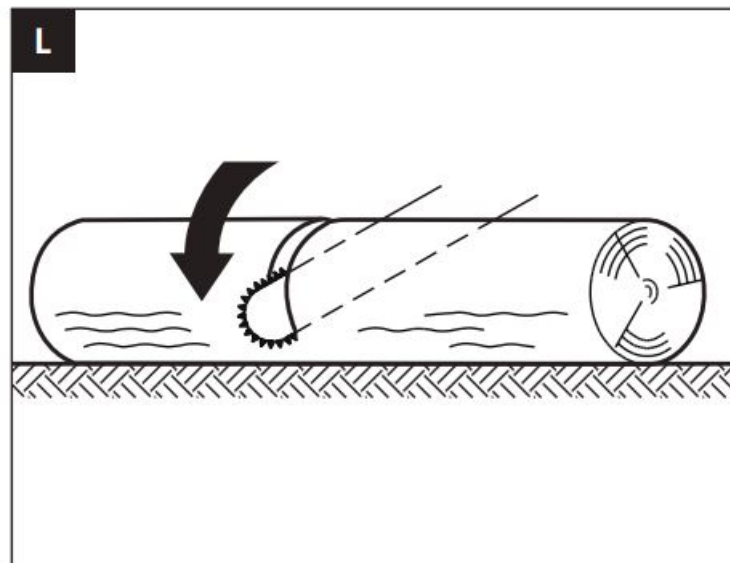
### Limbing a tree

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. K shown. Branches under tension should be cut from the bottom up to avoid binding the chain saw.

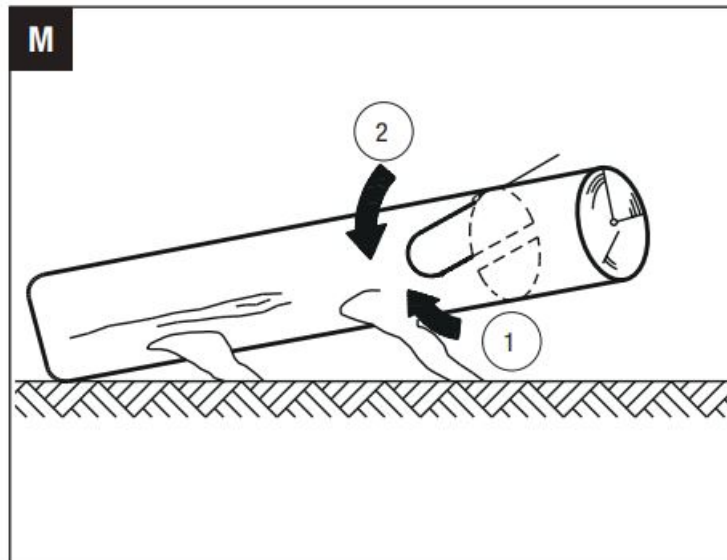


### Bucking a log

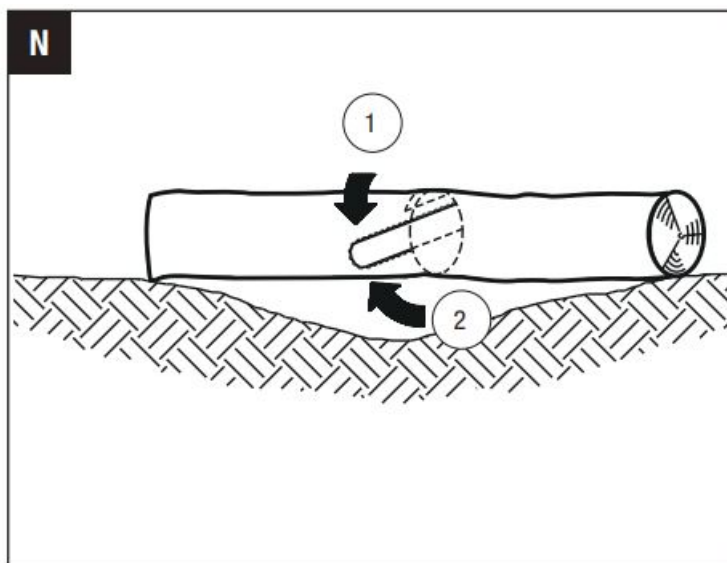
- Bucking is cutting a log into lengths. It is important to make sure your footing is firm and your weight is evenly distributed on both feet. When possible, the log should be raised and supported by the use of limbs, logs or chocks. Follow the simple directions for easy cutting.
- When the log is supported along its entire length as Fig. L shown, it is cut from the top (overbucking).



- When the log is supported on one end, as Fig. M shown, cut  $\frac{1}{3}$  the diameter from the underside

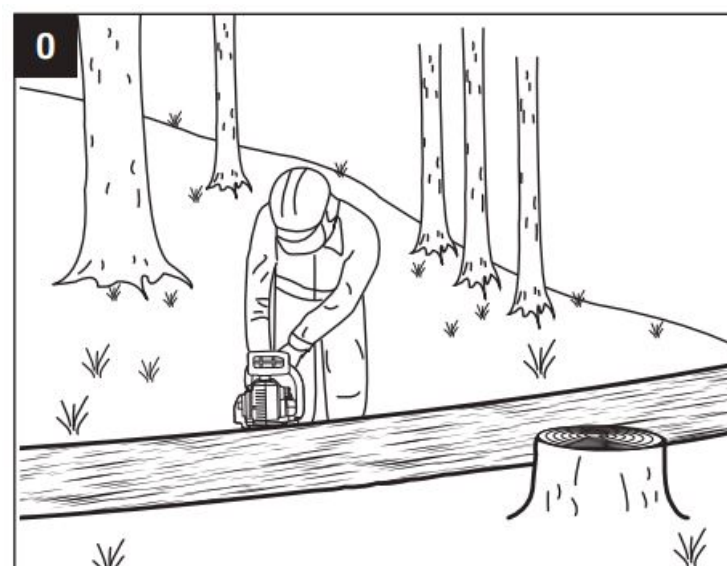


- underbucking). Then make the finished cut by overbucking to meet the first cut.
- When the log is supported on both ends, as Fig. N shown, cut  $\frac{1}{3}$  the diameter from the top (overbuck).



Then make the finished cut by underbucking the lower  $\frac{2}{3}$  to meet the first cut.

- When bucking on a slope always stand on the uphill side of the log, as Fig. O 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

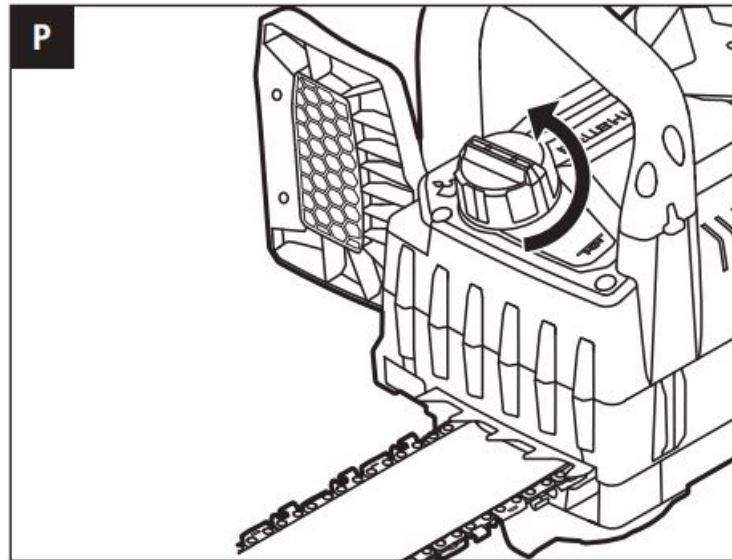
from tree to tree.

## MAINTENANCE

### FILLING BAR AND CHAIN LUBRICANT

**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 its oil tank cap facing towards.
2. Clean the cap as well as the area around and then turn it counterclockwise to remove (Fig. P).



3. Carefully pour the specifically designed oil into the tank until reaching the bottom of the filter neck.
4. Wipe off any excessive oil and replace the cap.

**NOTICE:** With upright position, oil should fill the inspection window. When the oil is no longer visible in the inspection window, stop use immediately and refill.

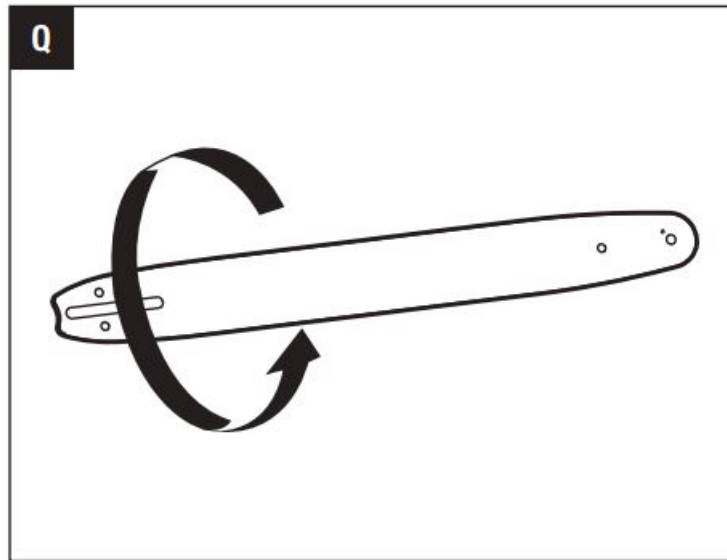
## CLEANING

- After each use, clean debris from the chain and guide bar with a soft brush. Wipe the chain saw surface with a clean cloth moistened with a mild soap solution.
- Remove the side cover, and then use a soft brush to 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. Q), in which case it will distribute the wear for maximum bar life.

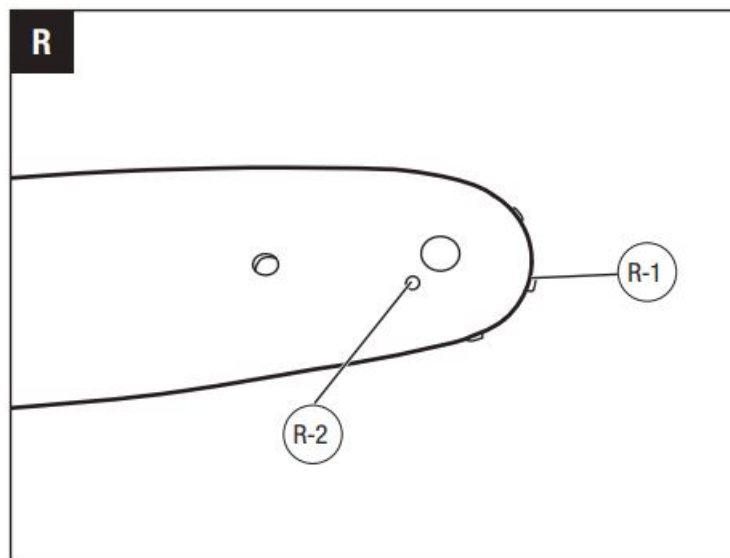




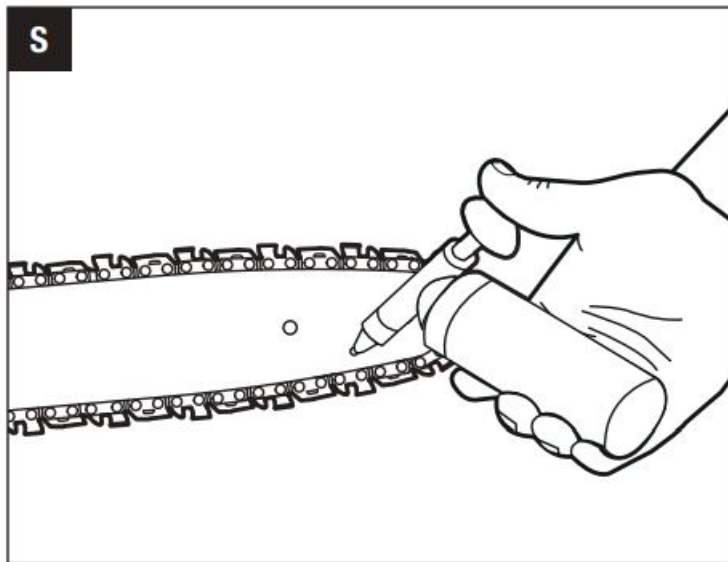
The bar should be cleaned every day of use and checked for wear and damage. Feathering or burring of the bar rails is a normal process of bar wear. Such faults should be smoothed with a file as soon as they occur. A bar with any of the following faults should be replaced.

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

In addition, the guide bar has a sprocket at its tip (Fig. R-1). The sprocket must be lubricated weekly with a grease syringe to extend the guide bar life (Fig. S). Use a grease syringe to lubricate weekly with chain oil by means of the lubricating hole (Fig. R-2). Turn the guide bar and check that the lubrication holes and chain groove are free from impurities.







## CHAIN MAINTENANCE

Use only low-kickback chains on this saw. This fast cutting chain will provide kickback reduction when properly maintained. A properly sharpened saw chain cuts through wood effortlessly, even with very little pressure. Never use a dull or damaged saw chain. A dull saw chain cutter leads to increased physical strain, increased vibration load, unsatisfactory cutting results, and increased wear. For smooth and fast cutting, the chain needs to be maintained properly. The chain requires sharpening when the wood chips are small and powdery, the chain must be forced through the wood during cutting, or the chain cuts to one side. During maintenance of your chain, consider the following:

- Improper filing angle of the side plate can increase the risk of a severe kickback.
- Depth gauge clearance. Too low increases the potential for kickback. Not low enough decreases cutting ability.
- If cutter teeth have hit hard objects, such as nails and stones, or have been abraded by mud or sand on the wood, have the chain sharpened by a qualified service technician.

## 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

### WEEE (Waste Electrical and Electronic Equipment)

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

PROBLEM	CAUSE	SOLUTION
Motor does not start.	<ul style="list-style-type: none"> <li>▪ The battery pack is not attach the battery pack to the chain saw.</li> <li>▪ No electrical contact between the saw and battery.</li> <li>▪ The battery pack is depleted.</li> <li>▪ The battery pack or chain saw is too hot.</li> <li>▪ Chain brake is engaged.</li> <li>▪ Debris in bar groove.</li> <li>▪ Debris in side cover.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Attach the battery pack to the chain saw.</li> <li>▪ Remove battery, check contacts and reinstall the battery pack.</li> <li>▪ Charge the battery pack.</li> <li>▪ Allow the battery pack or chain saw to cool until the temperature drops below 67 °C.</li> <li>▪ Pull the chain-kickback brake handle backward toward the front handle, arriving at the operating position.</li> <li>▪ Press the saw chain against the wood, move the chain saw back and forth to discharge the debris.</li> <li>▪ Remove battery pack, then remove side cover and clean out debris.</li> </ul>
Chain saw stops running during working.	<ul style="list-style-type: none"> <li>▪ The chain saw is overloaded.</li> <li>▪ The battery pack or chain saw is too hot.</li> <li>▪ Saw chain is bound in the wood.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Decrease the load.</li> <li>▪ Decrease the load. Allow the battery pack or chain saw to cool until the temperature drops below 67 °C.</li> <li>▪ Release the trigger switch; remove the saw chain and guide bar from the wood, then restart the chain saw.</li> </ul>
Motor runs, but chain does not rotate.	<ul style="list-style-type: none"> <li>▪ Chain does not engage drive sprocket.</li> <li>▪ Debris preventing full movement of the chainkickback brake handle.</li> <li>▪ Possible chain brake malfunction.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Reinstall the chain, ensuring that the drive links on the chain are fully seated onto the sprocket.</li> <li>▪ Debris preventing full movement of the chainkickback brake handle.</li> <li>▪ Contact EGO Customer Service for repair.</li> </ul>


PROBLEM	CAUSE	SOLUTION
	<ul style="list-style-type: none"> <li>Insufficient chain tension.</li> </ul>	<ul style="list-style-type: none"> <li>Loosen the quick chain-tension adjust knob at least twice circles counterclockwise first</li> </ul> <p>and then fully tighten it clockwise until the chain is correctly tensioned.</p>
Chain saw does not cut properly.	<ul style="list-style-type: none"> <li>Dull chain.</li> <li>Chain installed backwards.</li> </ul>	<ul style="list-style-type: none"> <li>Sharpen the chain cutters, following the section <b>“HOW TO SHARPEN THE CUTTERS”</b>.</li> <li>Reinstall the saw chain, following the section <b>“ASSEMBLING/REPLACING THE BAR AND CHAIN”</b>.</li> </ul>
	<ul style="list-style-type: none"> <li>Worn chain.</li> </ul>	<ul style="list-style-type: none"> <li>Replace the saw chain, following the section <b>“ASSEMBLING/REPLACING THE BAR AND CHAIN”</b>.</li> </ul>
	<ul style="list-style-type: none"> <li>Dry or excessively stretched chain.</li> </ul>	<ul style="list-style-type: none"> <li>Check the oil level in the oil tank. Refill the oil tank if necessary.</li> </ul>
Chain drops off the guide bar.	<ul style="list-style-type: none"> <li>Insufficient chain tension.</li> <li>Chain does not engage drive sprocket.</li> </ul>	<ul style="list-style-type: none"> <li>Loosen the quick chain-tension adjust knob at least twice circles counterclockwise first</li> </ul> <p>and then fully tighten it clockwise until the chain is correctly tensioned.</p> <ul style="list-style-type: none"> <li>Reinstall the chain, following the section <b>“ASSEMBLING/REPLACING THE BAR AND CHAIN”</b>.ensuring that the drive links on the chain are fully seated onto the sprocket.</li> </ul>
Bar and chain running hot and smoking.	<ul style="list-style-type: none"> <li>Chain oil tank is empty.</li> <li>Debris in guide bar groove.</li> </ul>	<ul style="list-style-type: none"> <li>Filling bar and chain lubricant.</li> <li>Clear the debris in the groove.</li> </ul>

## WARRANTY



### EGO WARRANTY POLICY

Please visit the website [egopoegopowerplus.com](http://egopoegopowerplus.com) or [werplus.com](http://werplus.com) for full terms and conditions of the EGO Warranty policy.

## Documents / Resources

	<p><b><a href="#">EGO CS1800E Cordless Chain Saw</a></b> [pdf] Instruction Manual CS1800E, Cordless Chain Saw, CS1800E Cordless Chain Saw</p>
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## References

-  [The #1 Rated Brand in Cordless Outdoor Power Equipment | EGO](#)
-  [gopowerplus.com - This website is for sale! - gopowerplus Resources and Information.](#)