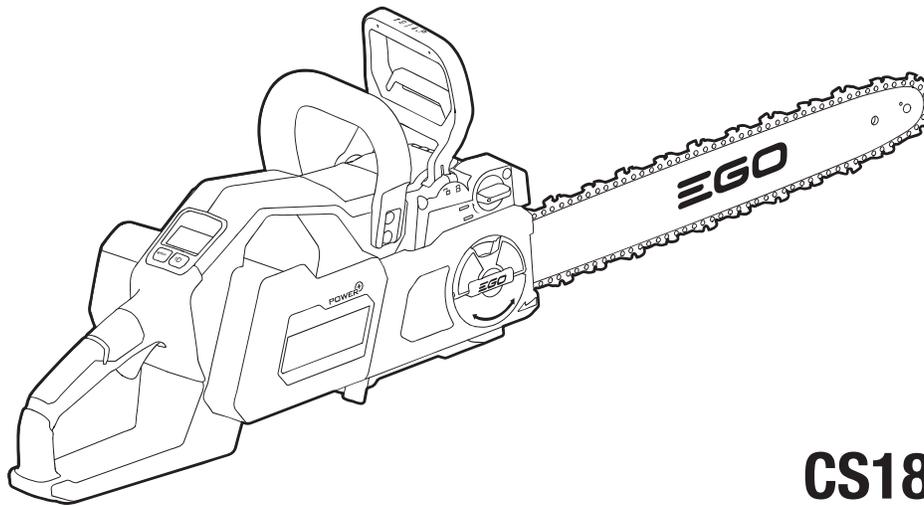


EGO™

POWER⁺ CHAIN SAW

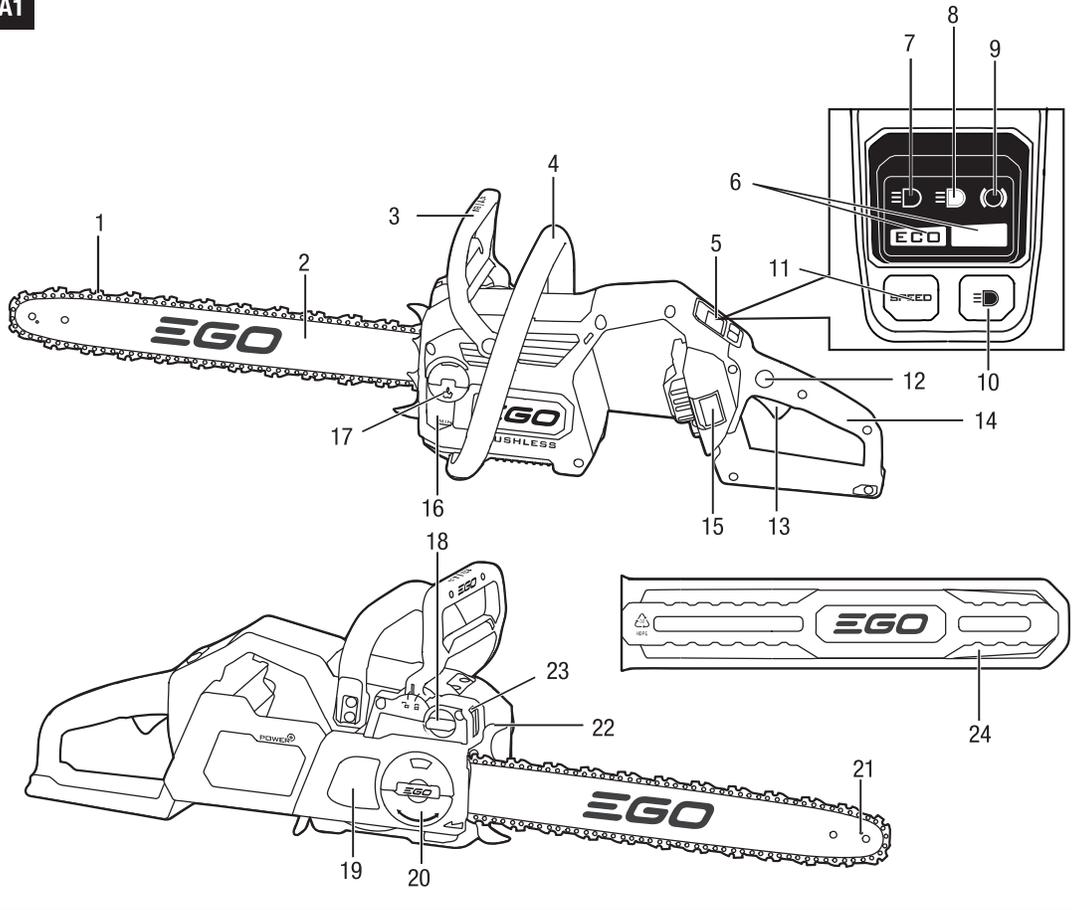


CS1810E

56 VOLT LITHIUM-ION CORDLESS CHAIN SAW

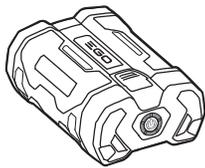
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DE	56 v akku-kettensäge	16	LT	Belaidis grandininis pjūklas su 56 v ličio jonų baterija	169
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ES	Motosierra inalámbrica con batería de iones de litio de 56 voltios	34	GR	Αλυσοπίρινο μπαταρίας 56 volt ιό ντων-λιθίου	187
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A1

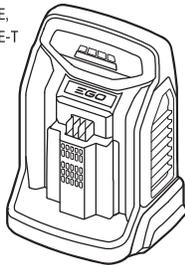


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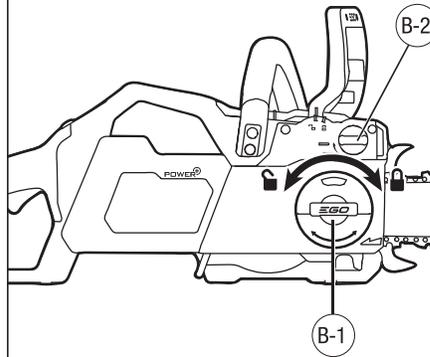
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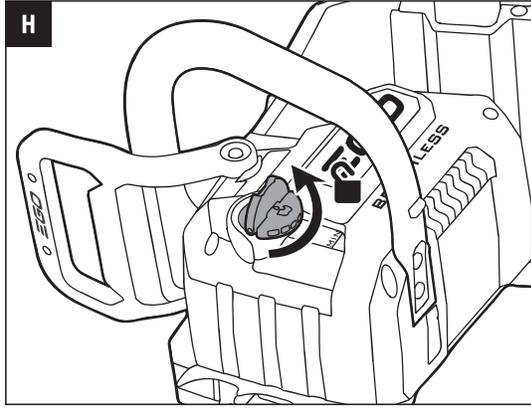
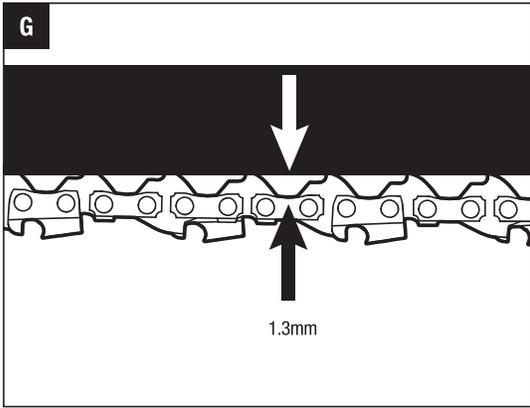
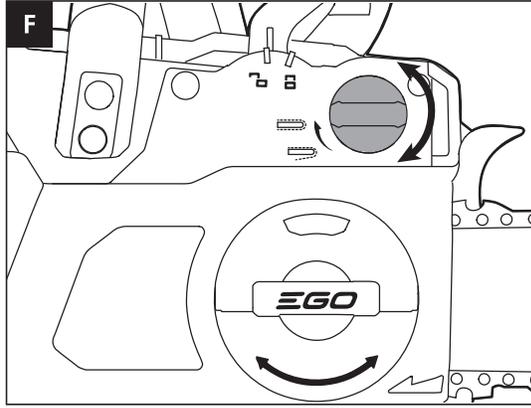
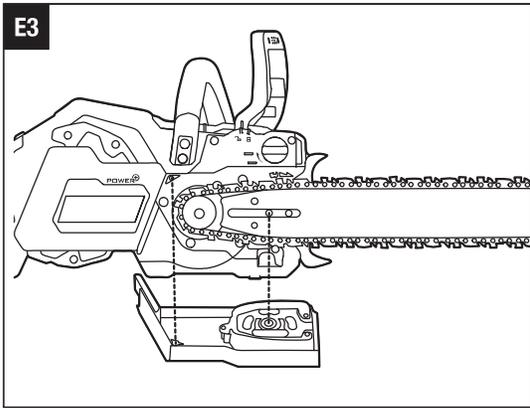
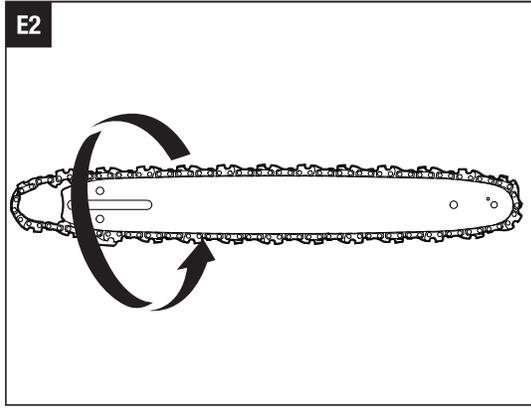
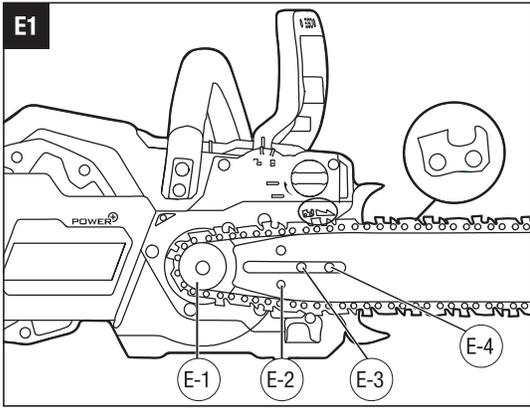
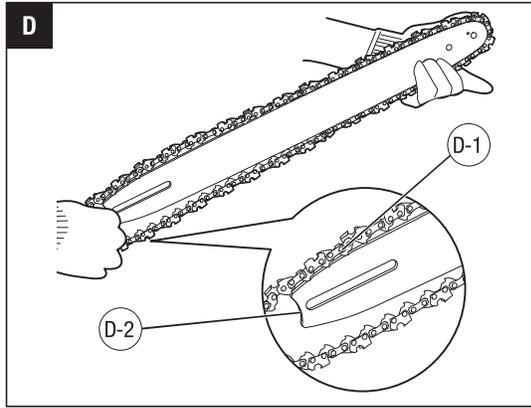
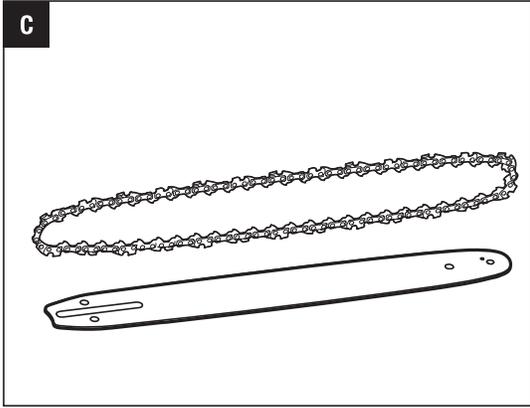


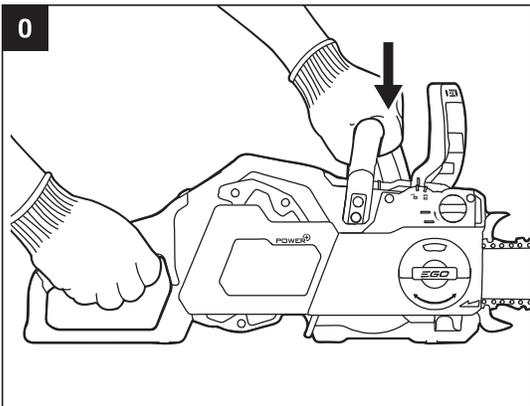
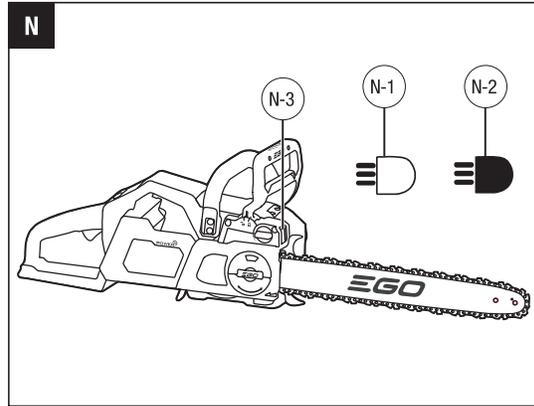
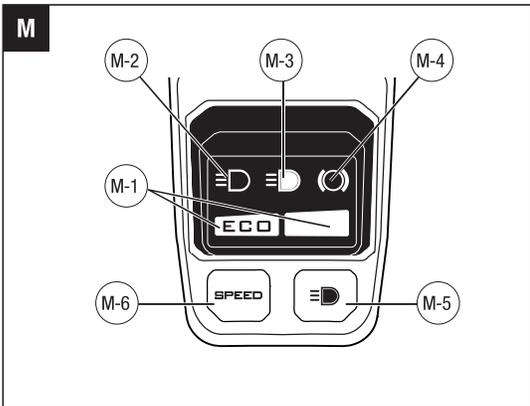
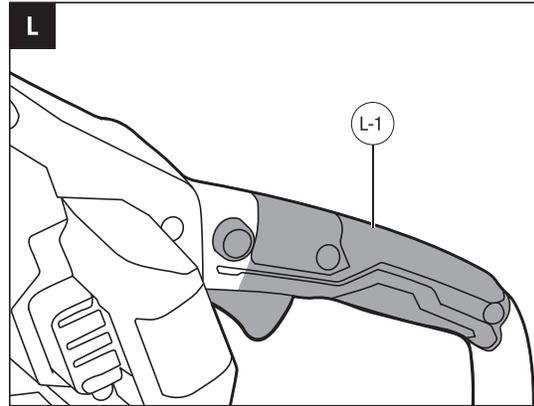
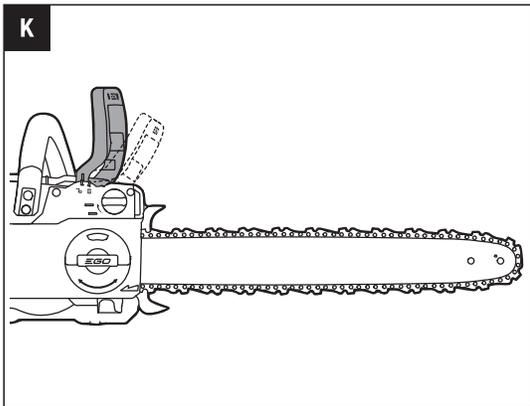
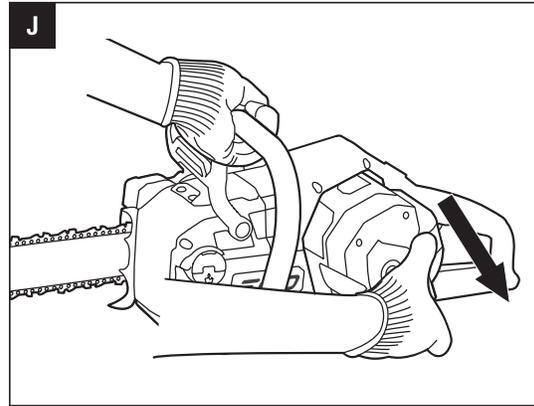
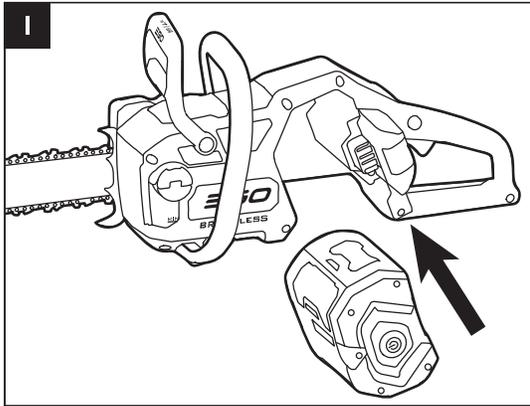
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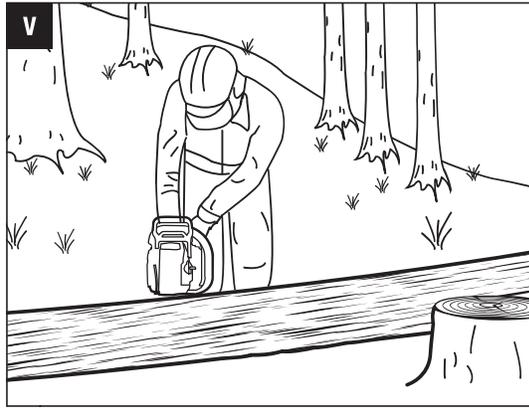
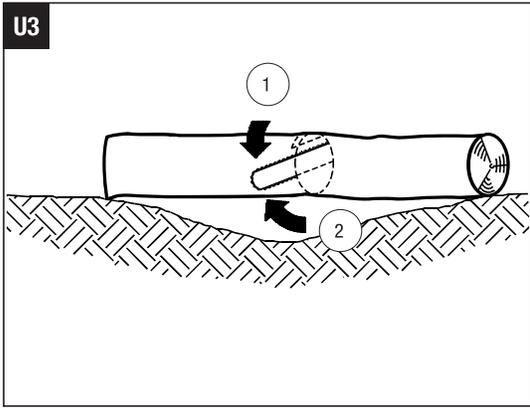
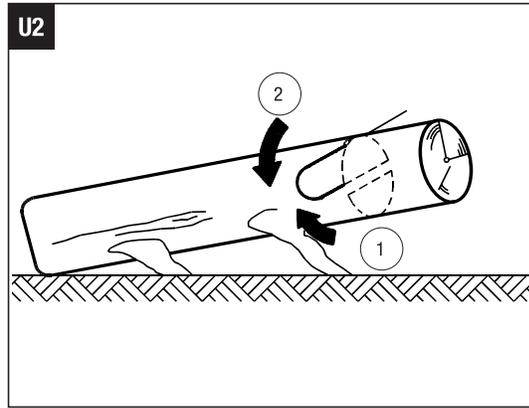
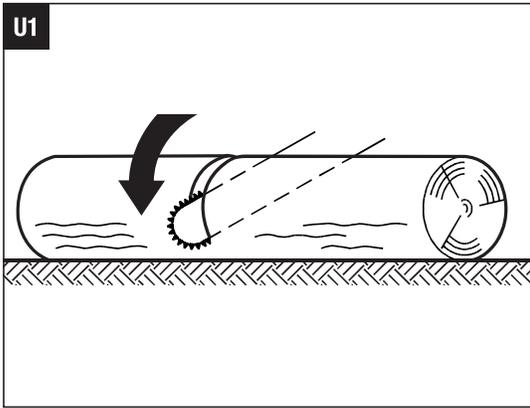
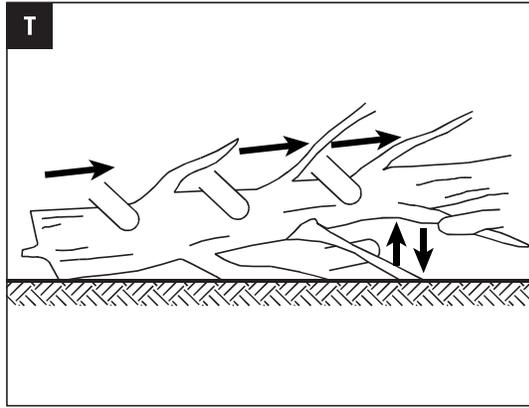
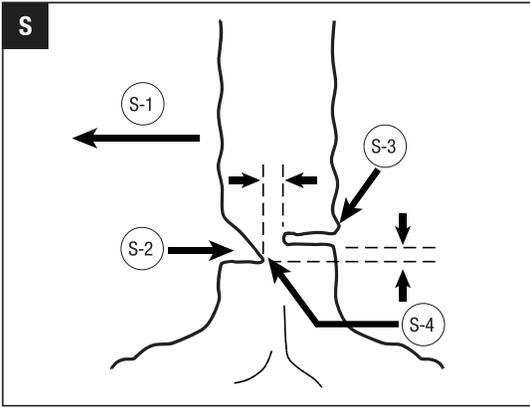
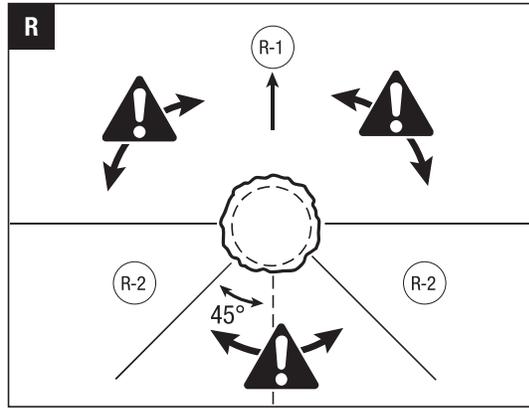
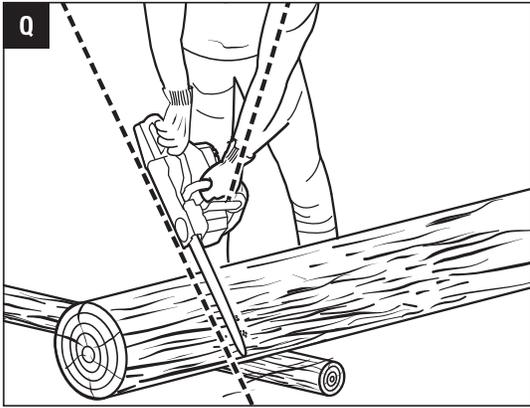


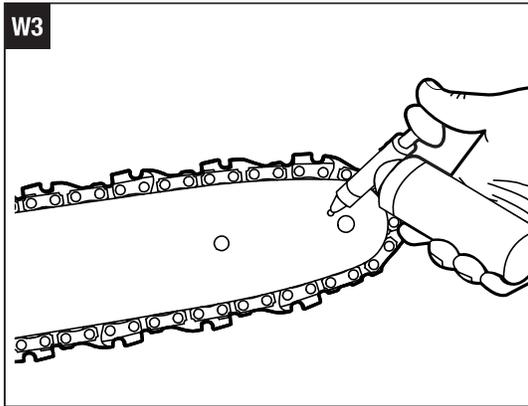
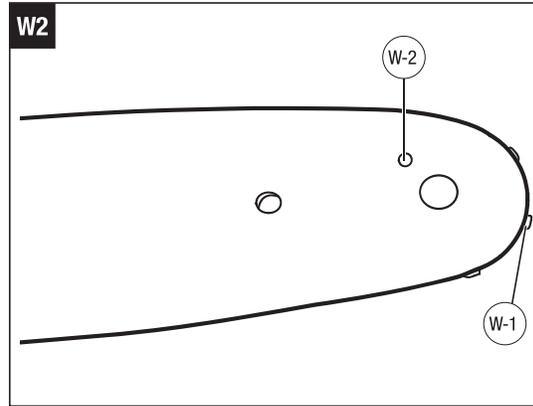
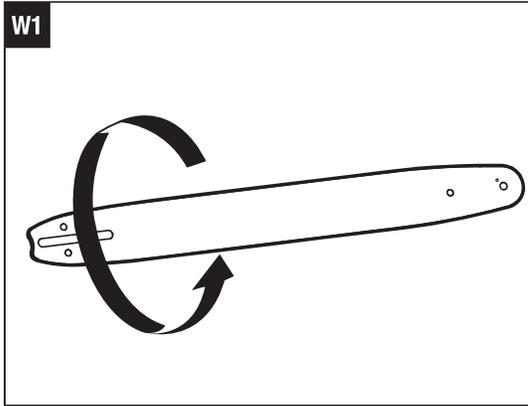
B











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READ ALL INSTRUCTIONS!



READ OPERATOR'S MANUAL

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

⚠ 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

⚠ 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.

SAFETY SYMBOLS



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.



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.



Wear Ear Protection



Wear Protective Gloves



Always use chain saw two-handed



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



This product is in accordance with applicable UK legislation.



Direct Current

n_0 No Load Speed

./min Per Minute



EN SPECIFICATIONS

Rated Voltage	56 V	
Max. Chain Speed	22 m/s	
Chain Pitch	3/8" (9.5 mm)	
Chain Gauge	1.3 mm	
Guide Bar Length	45 cm	
Saw Chain & Guide Bar Model	AC1801/AG1801 (Recommended) AC1601/AG1601, AC1401/AG1401 (Compatible)	
Chain Oil Tank Capacity	200 ml	
Weight (without battery pack, saw chain, guide bar, side cover, oil and chain sheath)	3.6 kg	
Recommended Operating Temperature	-15°C-40°C	
Recommended Storage Temperature	-20°C-70°C	
Recommended Charging Temperature	5°C-40°C	
Measured sound power level L_{WA}	100 dB(A) K=1.6 dB(A)	
Sound pressure level at working position L_{PA}	92 dB(A) K=3 dB(A)	
Guaranteed sound power level L_{WA} (according to 2000/14/EC)	102 dB(A)	
Vibration a_h	Front Handle	5.63 m/s ² K=1.5 m/s ²
	Rear Handle	4.83 m/s ² K=1.5 m/s ²

- 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. Guide Bar
3. Chain Kickback Brake Handle
4. Front Handle
5. LED Screen
6. Speed Bars
7. Low Brightness Headlight Icon
8. High Brightness Headlight Icon
9. Brake Icon
10. Headlight Button
11. Chain Speed Button
12. Lock-off Button
13. Trigger Switch
14. Rear Handle
15. Battery Release Button
16. Oil-inspection Window
17. Oil-tank Cap
18. Chain-tensioning Knob
19. Side Cover
20. Side-cover Knob
21. Lubricating Hole
22. Bucking Spikes
23. LED Headlight
24. Chain Sheath

ASSEMBLY

ASSEMBLING/REPLACING THE BAR AND CHAIN

⚠ WARNING: Before performing any assembling or maintenance, make sure that the battery pack is removed. Failure to heed this warning could result in serious personal injury.

⚠ WARNING: Always wear gloves when handling the bar and chain; these components are sharp and may contain burrs.

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

NOTICE: When removing the worn bar and chain, first remove the chain from the guide bar groove at the rear of the guide bar with the guide bar tip tilted up.

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 side-cover knob counterclockwise.

3. Lay the saw chain in a loop on a flat surface and straighten any kinks (Fig. C).
4. Place the chain drive links into the guide bar groove at the tip of the guide bar and make the chain a loop at the back of the guide bar (Fig. D).
5. Hold the chain in position on the guide bar and place the loop around the sprocket of the saw, and insert the rest of the chain into the guide bar groove at the rear part of the guide bar (Fig. E1).

B-1	Side-cover Knob	E-1	Drive Sprocket
B-2	Chain-tensioning Knob	E-2	Chain-tensioning Pin
D-1	Chain Drive Links	E-3	Fastening Bolt
D-2	Guide Bar Groove	E-4	Alignment Pin

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

6. Place the guide bar onto the chain saw housing by sliding the guide-bar slot over the fastening bolt and alignment pin.
7. Turn the chain-tensioning knob to move the chain-tensioning pin, so that it inserts into the lower pin hole in the guide bar.
8. Attach the side cover to the housing so that the holes/pins and fastening bolt/thread hole are aligned with each other properly (Fig. E3). Lightly tighten the side-cover knob by turning it clockwise. The bar must be free to move for tension adjustment.

NOTE: The side-cover knob may not sit completely flat because the rotation causes the rib underneath to not engage.

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 knob 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

WARNING: 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 machine 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.

EN

- Lift up the semicircular plate and rotate the oil tank cap counterclockwise to remove it (Fig. H).
- Carefully pour the bar and chain oil into the tank. Fill to the bottom of the fill neck.
- 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. I).

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 handle. Besides, balanced footing and proper distance away from the ground are needed.

To Start (Fig. K)

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

- 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
-----	---------------

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

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

To Stop

- Move the chain saw away from cutting area, and then release the trigger switch to stop the chain saw.
- Push the chain-kickback brake handle 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 two 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 LED screen will display the active speed mode: one bar for low speed, and two 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-4	Brake Icon
M-2	Low Brightness Headlight Icon	M-5	Headlight Button
M-3	High Brightness Headlight Icon	M-6	Chain Speed Button

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 LED screen lights up when trigger switch is pulled or when the speed button or headlight button is pressed. It will automatically turn off after approximately 60 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 button (Fig. M) one time. The headlight will turn on in low brightness level and the low brightness headlight icon will appear on the LED screen. Press the headlight button again to switch to high brightness level and the high brightness headlight icon will appear on the LED screen.

To turn off the headlight, press the headlight button the third time and the headlight icon will turn off on the LED screen.

N-1	Low Brightness Headlight Icon	N-3	LED Headlight
-----	-------------------------------	-----	---------------

N-2	High Brightness Headlight Icon		
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PROPER GRIP ON HANDLES (FIG. O)

- 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. P).

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 (overbuck).
- When the log is supported on one end, as Fig. U2 shown, cut 1/3 the diameter from the underside (underbuck). Then make the finished cut by overbucking 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 underbucking 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.

⚠ WARNING: To avoid serious personal injury, always remove the battery pack from the product before inspecting, cleaning, or performing maintenance. A battery operated tool with the battery pack inserted is always on and can start accidentally.

⚠ 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, penetrating 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 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. W1). This way the wear will be distributed to maximize the guide 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. 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-1	Sprocket in Guide Bar Tip	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.

EN 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 run.	<ul style="list-style-type: none"> ■ 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. ■ Saw chain is bound in the wood. 	<ul style="list-style-type: none"> ■ Attach the battery pack to the chain saw. ■ Remove battery pack, check contacts and reinstall the battery pack. ■ Charge the battery pack. ■ Allow the battery pack or chain saw to cool until the temperature drops to the recommended operating temperature range. ■ Pull the chain-kickback brake handle 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. ■ Release the trigger switch; remove the saw chain and guide bar from the wood, then restart the chain saw.
Chain saw stops running during working.	<ul style="list-style-type: none"> ■ The chain saw is overloaded. ■ The battery pack or chain saw is too hot. ■ Saw chain is bound in the wood. 	<ul style="list-style-type: none"> ■ Decrease the load. ■ Decrease the load. Allow the battery pack or chain saw to cool until the temperature drops to the recommended operating temperature range. ■ Release the trigger switch; remove the saw chain and guide bar from the wood, then restart the chain saw.
Motor runs, but chain does not rotate.	<ul style="list-style-type: none"> ■ Chain does not engage drive sprocket. 	<ul style="list-style-type: none"> ■ Remove the battery pack and reinstall the chain, ensuring that the drive links on the chain are fully seated on the sprocket.
Chain brake does not engage.	<ul style="list-style-type: none"> ■ Debris preventing full movement of the chain-kickback brake handle. ■ Possible chain brake malfunction. 	<ul style="list-style-type: none"> ■ Clean debris from the external chain brake mechanism. ■ Contact EGO Customer Service for repair.