greenworks

GD80CS50

OPERATOR MANUAL / BEDIENUNGSHANDBUCH / MANUAL DEL OPERARIO / MANUALE DELL'OPERATORE / MANUEL OPÉRATEUR / MANUAL DE UTILIZAÇÃO / GEBRUIKSAANWIJZING / РУКОВОДСТВО ОПЕРАТОРА / KÄYTTÖOPAS / ANVÄNDARHANDBOK / BRUKERVEILEDNING / BRUGSVEJLEDNING / INSTRUKCJA UŻYTKOWNIKA / NÁVOD K OBSLUZE / NÁVOD NA OBSLUHU / Uporabniški priročnik / PRIRUČNIK ZA RUKOVANJE / HASZNÁLATI ÚTMUTATÓ / MANUAL DE UTILIZARE / РЪКОВОДСТВО НА ОПЕРАТОРА / ΕΓΧΕΙΡΙΔΙΟ ΧΡΗΣΗΣ / دليل التشغيل / KULLANIM KILAVUZU / מדריך למפעיל / OPERATORIAU VADOVAS / LIETOTĀJA ROKASGRĀMATA / KASUTUSJUHEND

CSB401

Original Instructions / Übersetzung der Originalanweisungen / Traducción de las instrucciones originales / Traduzione delle istruzioni originali / Traduction des instructions d'origine / Traduzido a partir das instruções originais / Vertaling van de originele gebruiksaanwijzing / Перевод оригинальных инструкций / Alkuperäisten ohjeiden käännös / Översättning av originalinstruktionerna / Produsentens instruksjoner / Oversættelse af de originale vejledninger / Tłumaczenie oryginalnej instrukcji / Překlad originálního návodu / Preklad originálneho návodu / Prevod originalnih navodil / Prijevod izvornih uputa / Az eredeti utasítás fordítása / Traducere a instrucțiunilor originale / Превод на оригиналните инструкции / Αυθεντικές οδηγίες / ترجمة التعليمات الأصلية / Orijinal Talimatların Tercümesi / הוראות מקוריות / Originalių instrukcijų vertimas / Instrukciju tulkojums no oriģinālvalodas / Originaalkasutusjuhendi tõlge

1 Description.....5
1.1 Purpose.....5
1.2 Overview.....5
2 General power tool safety warnings.....5
3 Installation.....5
3.1 Unpack the machine.....5
3.2 Add the bar and chain lubricant.....5
3.3 Assemble the guide bar and the chain.....6
3.4 Install the battery pack.....6
3.5 Remove the battery pack.....6
4 Operation.....6
4.1 Examine the chain lubrication.....6
4.2 Hold the machine.....6
4.3 Start the machine.....6
4.4 Stop the machine.....7
4.5 Operate the chain brake.....7
4.6 Fell a tree.....7
4.7 Limb a tree.....7
4.8 Buck a log.....7
5 Maintenance.....8
5.1 Adjust the chain tension.....8
5.2 Sharpen the cutters.....8
5.3 Guide bar maintenance.....8
6 Transportation and storage.....9
7 Troubleshooting.....9
8 Technical data.....10
9 Warranty.....10
10 EC Declaration of conformity.....10

1 DESCRIPTION

1.1 PURPOSE

This chainsaw is designed for cutting branches, trunks, logs and beams of a diameter determined by the cutting length of the guide bar. It is only designed to cut wood.

It is only to be used in an outdoor, domestic application by adults.

Do not use the chainsaw for any purpose not listed above.

This chainsaw is not to be used for professional tree services. It is not to be used by children or by persons not wearing adequate personal protective equipment and clothing.

1.2 OVERVIEW

Figure 1-22

1 Guide bar cover
2 Front handle guard / chain brake
3 Front handle
4 Lock out button
5 Trigger
6 On/off switch
7 Oil indicator
8 Spike bumpers
9 Saw chain
10 Guide bar
11 Oil tank cap
12 Rear handle
13 Chain tension screw
14 Chain cover
15 Chain cover nuts
16 Bolt for saw chain tension
17 Sprocket
18 Battery release button
19 Oil outlet
20 Bar groove
21 Chain drive links
22 Cutter
23 Felling direction
24 Danger zone
25 Escape route
26 Direction of fall
27 Notch
28 Felling back cut
29 Hinge
30 Limb cut
31 Keep work off ground leave support limbs until log is cut
32 Log supported along the entire length
33 Cut from top (over buck) avoid cutting earth
34 Log supported one end
35 Under buck
36 Over buck
37 Log supported both ends
38 Bucking a log
39 Stand on uphill side when cutting because log may roll
40 Battery
41 Charger
42 Charger cable
43 Wrench

2 GENERAL POWER TOOL SAFETY WARNINGS

⚠ WARNING

Read all safety warnings and all instructions. *Failure to follow the warnings and instructions 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.

3 INSTALLATION

⚠ WARNING

Do not change or use accessories that are not recommended by the manufacturer.

⚠ WARNING

Do not install battery pack until you assemble all the parts.

3.1 UNPACK THE MACHINE

⚠ WARNING

Make sure that you correctly assemble the machine before use.

⚠ WARNING

- If parts of the machine are damaged, do not use the machine.
- If you do not have all the parts, do not operate the machine.
- If parts are damaged or missing, contact the service center.

1. Open the package.
2. Read the documentation provided in the box.
3. Remove all the unassembled parts from the box.
4. Remove the machine from the box.
5. Discard the box and packing material in compliance with local regulations.

3.2 ADD THE BAR AND CHAIN LUBRICANT

Examine the amount of oil in the machine. If the oil level is low, add the bar and chain lubricant as follows.

ℹ IMPORTANT

Use bar and chain lubricant that is only for chains and chain oilers.

NOTE

The machine comes from the factory without bar and chain lubricant.

1. Loosen and remove the cap from the oil tank.
2. Put the oil into the oil tank.
3. Monitor the oil indicator to make sure that no dirt enters in the oil tank while you add the oil.
4. Put the oil cap on.
5. Tighten the oil cap.
6. The whole oil tank will last for 15 - 40 minutes.

IMPORTANT

Do not use dirty, used or contaminated oil. Damage can occur to the bar or chain.

3.3 ASSEMBLE THE GUIDE BAR AND THE CHAIN

Figure 1-7.

1. Remove the chain cover nuts with the wrench.
2. Remove the chain cover.
3. Put the chain drive links into the bar groove.
4. Put the chain cutters in the direction of the chain operation.
5. Put the chain in position and make sure that the loop is behind the guide bar.
6. Hold the chain and bar.
7. Put the chain loop around the sprocket.
8. Make sure the chain tension pin hole on the guide bar fits correctly with the bolt.
9. Install the chain cover.
10. Tighten the chain. Refer to *Adjust the chain tension.*
11. Tighten the nuts when the chain is well tensioned.

NOTE

If you start the chain saw with a new chain, have a test for 2-3 minutes. A new chain gets longer after the first use, examine the tension and tighten the chain if necessary.

3.4 INSTALL THE BATTERY PACK

Figure 2

WARNING

- If the battery pack or charger is damaged, replace the battery pack or the charger.
- Stop the machine and wait until the motor stops before you install or remove the battery pack.
- Read, know, and follow the instructions in the battery and charger manual.

1. Align the lift ribs on the battery pack with the grooves in the battery compartment.
2. Push the battery pack into the battery compartment until the battery pack locks into place.
3. When you hear a click, the battery pack is installed.

3.5 REMOVE THE BATTERY PACK

Figure 2

1. Push and hold the battery release button.
2. Remove the battery pack from the machine.

4 OPERATION

NOTE

Remove the battery pack and keep hands clear of the lock out button when you move the machine.

IMPORTANT

Examine the chain tension before each use.

4.1 EXAMINE THE CHAIN LUBRICATION

NOTE

Do not use the machine without sufficient chain lubrication.

Figure 1

1. Examine the lubricant level of the machine from the oil indicator.
2. Add more lubricant if it is necessary.

4.2 HOLD THE MACHINE

Figure 8

1. Hold the chainsaw with one hand at the rear handle and with the other hand at the front handle. Always use both hands when using the machine.
2. Hold the handles with the thumbs and the fingers around them.
3. Make sure that the thumb of the hand that holds the front handle is below the handle.

4.3 START THE MACHINE

Figure 1

1. Press the on/off switch.
2. Press the lock-out button.
3. Press the trigger while you hold the lock-out button.
4. Release the lock-out button.

4.4 STOP THE MACHINE

Figure 1.

1. Release the trigger to stop the machine.

4.5 OPERATE THE CHAIN BRAKE

⚠ WARNING

Make sure that your hands are on the handles at all times.

Figure 22

1. Start the machine.
2. Turn your left hand around the front handle to engage the chain brake.
3. Pull the handle guard / chain brake toward the front handle to disengage the chain brake.
4. Call approved service center for repair before use if
   - The chain brake does not stop the chain immediately.
   - The chain brake does not stay in the disengaged position without aid.

4.6 FELL A TREE

Figure 9-10.

It is recommended that the first-time user should, as a minimum practice, cutting logs on a saw-horse or cradle.

Before you start to fell a tree, make sure that

- The minimum distance between the areas of bucking and felling is two times the height of the tree.
- The operation does not
  - Cause injury to personnel.
  - Hit utility lines. If the tree touches utility lines, immediately tell the utility company.
  - Cause losses in property.
- The user is not in the dangerous area, for example, the downhill side of the area.
- The escape paths that extend back and diagonally behind the felling direction are clear. The felling direction is controlled by
  - The natural lean of the tree.
  - The location of larger branches.
  - The wind direction.
- There are no dirt, stones, loose bark, nails, and staples on the tree.

1. **Make a lower level notching cut. Make sure that this cut is**
   a) 1/3 width of the diameter of the tree.
   b) Perpendicular to the felling direction.

⚠ CAUTION

The level notching cut helps prevent pinching of the saw chain or the guide bar when you make the second notch.

2. **Make the felling cut no less than 50 mm and higher than the level notching cut. Make sure that this cut**
   a) Is parallel to the level notching cut.
   b) Keeps sufficient wood to become a hinge which prevents the tree from twisting and felling to the wrong direction.

   When the felling cut gets near the hinge, the tree falls. Stop the felling cut if the tree
   - Does not fall to the correct direction or
   - Moves backwards, causing the cutting bar and chain to become stuck in the cut.
3. **Use felling wedge to open the cut and let the tree fall to the correct direction.**
4. **When the tree starts to fall,**
   a) Remove the chainsaw from the cut.
   b) Stop the machine.
   c) Put the machine down.
   d) Go away through the escape path. Be careful with overhead branches and your footing.

4.7 LIMB A TREE

Figure 11.

Limbing is to remove the branches from a fallen tree.

1. Keep the larger lower branches to hold the log off the ground.
2. Remove the small limbs in one cut.
3. Limb the branches with tension from the bottom to up.
4. Keep the larger lower branches as a support until the log is limbed.

4.8 BUCK A LOG

Figure 12-15.

Bucking is to cut a log into lengths. Keep your body balance. If it is possible, lift the log and hold it with branches, logs or chock.

- When the log is held along the full length, cut it from the top.
- When the log is held on one end,
  1. Cut the first time 1/3 of the diameter from the bottom.
  2. Cut the second time from the top to complete the bucking.
- When the log is held on two ends,
  1. Cut the first time 1/3 of the diameter from the top.
  2. Cut the second time lower 2/3 from the bottom to complete the bucking.

- When the log is on a slope,
  1. Stand on the uphill side.
  2. Control the chainsaw.
  3. Hold the handles tightly.
  4. Release the cut pressure near the end of the cut.

NOTE

Do not let the chain touch the ground.

When bucking is complete,

1. Release the trigger.
2. Stop the chainsaw fully.
3. Move the chainsaw from tree to tree.

5 MAINTENANCE

CAUTION

Do not let brake fluids, gasoline, petroleum-based materials touch the plastic parts. Chemicals can cause damage to the plastic, and make the plastic unserviceable.

CAUTION

Do not use strong solvents or detergents on the plastic housing or components.

WARNING

Remove the battery pack from the machine before maintenance.

5.1 ADJUST THE CHAIN TENSION

Figure 2-7.

The more you use a chain the longer it becomes. It is therefore important to adjust the chain regularly to take up the slack.

Tension the chain as tightly as possible, but not so tight that you cannot pull it round freely by hand.

WARNING

A slack chain may jump off and cause serious or even fatal injury.

CAUTION

Wear protective gloves if you touch the chain, bar or areas around the chain.

1. Stop the machine.
2. Loosen the lock nuts with the wrench.

NOTE

It is not necessary to remove the chain cover to adjust the chain tension.

3. Turn the chain adjustment screw clockwise to increase the chain tension.
4. Turn the chain adjustment screw counterclockwise to decrease the chain tension.
5. When the chain is at the wanted tension, tighten the lock nuts.
6. Pull the chain in the middle of the guide bar at the bottom away from the bar. The gap between the chain guide and the guide bar should be between 3 mm and 4 mm.

5.2 SHARPEN THE CUTTERS

Sharpen the cutters if it is not easy for the chain to go into the wood.

NOTE

We recommend that a service center, which has an electric sharpener, perform important sharpening work.

Figure 16-19.

1. Tensioning chain.
2. Sharpen the cutters corner with a 5/32 in. (4 mm) diameter round file .
3. Sharpen the top plate, side plate and depth gauge with a flat file.
4. File all the cutters to the specified angles and the same length.

NOTE

During the process,

- Keep the file flat with the surface to be sharpened.
- Use the midpoint of the file bar.
- Use light but firm pressure when sharpening the surface.
- Lift the file away on each return stroke.
- Sharpen the cutters on one side and then move to the other side.

Replace the chain if:

- The length of the cutting edges is less than 5 mm.
- There is too much space between the drive links and the rivets.
- The cut speed is slow
- Sharpening the chain many times but it does not increase the cutting speed. The chain is worn.

5.3 GUIDE BAR MAINTENANCE

Figure 20-21.

NOTE

Make sure that it is turned over periodically to keep symmetrical wear on the bar.

1. Lubricate the bearings on the nose sprocket (if present) with the syringe (not included).
2. Clean the bar groove with the scraping hook (not included).
3. Clean the lubrication holes.
4. Remove burr from the edges and level the cutters with a flat file.

Replace the bar if:

- the groove is not fit with the height of the drive links (which must never touch the bottom).
- the inside of the guide bar is worn and make the chain lean to one side.

6 TRANSPORTATION AND STORAGE

Before you move the machine, always

- Remove the battery pack from the machine.
- Keep hands clear of the lock-out button.
- Put the scabbard on the guide bar and the chain.

Before you put the machine into storage, always

- Remove all residual oil from the machine.
- Remove the battery pack from the machine.
- Clean all unwanted material from the machine.
- Make sure that the storage area is
  - Not available to children.
  - Away from agents which can cause corrosion, such as garden chemicals and de-icing salts.

7 TROUBLESHOOTING

Problem	Possible cause	Solution
The guide bar and the chain become hot and release smoke.	The chain is too tight.	Adjust the chain tension.
	The oil tank is empty.	Add lubricants.
	Contamination causes a blockage of the discharge port.	Remove the guide bar and clean the discharge port.
	Contamination causes a blockage of the oil tank.	Clean the oil tank. Add new lubricant.
	Contamination causes a blockage of the guide bar and the oil tank cap.	Clean the guide bar and the oil tank cap.
	Contamination causes a blockage of the sprocket or guide wheels.	Clean the sprocket and the guide wheels.
The motor runs but the chain does not rotate.	The chain is too tight.	Adjust the chain tension.
	The guide bar and the chain are damaged.	Replace the guide bar and the chain if it is necessary.
	The motor is damaged.	1. Remove the battery pack from the machine. 2. Remove the guide bar cover. 3. Remove the bar and saw chain. 4. Clean the machine. 5. Install battery pack and operate the machine. If the sprocket rotates, it means the motor works properly. If not, call service center.

Problem	Possible cause	Solution
The motor runs and the chain rotates, but the chain does not cut.	The chain is blunt.	Sharpen or replace the saw chain.
	The chain is in the incorrect direction.	Turn the chain loop to the other direction.
	The chain is tight or loose.	Adjust the chain tension.
The machine does not start.	The chain brake is engaged.	Pull the chain brake in the direction of the user to disengage it.
	The machine and battery are not connected correctly.	Make sure that the battery release button clicks when you install the battery pack.
	The battery level is low.	Charge the battery pack.
	The lock out button and the trigger are not pushed at the same time.	1. Push the lock-out button and hold it. 2. Push the trigger to start the machine.
	The battery is too hot or too cold.	Refer to battery and charger manual.
The motor runs, but the chain does not cut correctly, or the motor stops after around 3 seconds.	The machine is in the protection mode to protect the PCB.	Release the trigger and start the machine again. Do not force the machine to cut.
	The battery is not charged.	Charge the battery. Refer to the battery and charger manual for correct charging procedures.
	The chain is not lubricated.	Lubricate the chain to decrease the friction. Do not let the guide bar and the chain operate without sufficient lubricant.
	Incorrect battery storage temperature	Cool the battery pack until it decreases to the ambient temperature.

8 TECHNICAL DATA

Voltage	80 V DC
No load speed	11.2 m/s
Guide bar length	458 mm
Chain stop	< 0.15 s
Chain oil capacity	180 ml
Weight (without battery pack)	5.2 kg
Measured sound pressure level	L_{pA}= 89.8 dB(A), K_{pA}= 3 dB(A)
Guaranteed sound power level	$L_{wA.d}$= 99 dB(A)
Vibration	4.2 m/s^2 , K = 1.5 m/s^2
Chain	91P062X
Guide bar	180SDEA041

9 WARRANTY

(The full warranty terms and conditions can be found on Greenworks website)

The Greenworks warranty is 3 years on the product, and 2 years on batteries (consumer/private usage) from the date of purchase. This warranty covers manufacturing faults. A faulty product under warranty might be either repaired or replaced. A unit that has been misused or used in other ways then described in the owner's manual might be rejected for warranty. Normal wear, and wear parts are not considered as warranty. The original manufacturer warranty is not affected by any additional warranty offered by a dealer or retailer.

A faulty product must be returned to the point of purchase in order to claim for warranty, together with the proof of purchase (receipt).

10 EC DECLARATION OF CONFORMITY

Name and address of the manufacturer:

Name:	GLOBGRO AB
	Globe Group Europe
Address:	Riggaregatan 53, 211 13 Malmö, Sweden

Name and address of the person authorised to compile the technical file:

Name:	Peter Söderström
Address:	Riggaregatan 53, 211 13 Malmö, Sweden

Herewith we declare that the product

Category:	Chainsaw
Model:	2000507(CSB401)
Serial number:	See product rating label
Year of Construction:	See product rating label

- is in conformity with the relevant provisions of the Machinery Directive 2006/42/EC.
- is in conformity with the provisions of the following other EC-Directives:
  - 2014/30/EU
  - 2000/14/EC & 2005/88/EC
  - 2011/65/EU & (EU)2015/863

Furthermore, we declare that the following (parts/clauses of) European harmonised standards have been used:

- EN 60745-1, EN 60745-2-13, EN 55014-1, EN 55014-2, EN ISO 3744, ISO 11094, IEC 62321-3-1, IEC 62321-4, IEC 62321-5, IEC 62321-6, IEC 62321-7-1, IEC 62321-7-2, IEC 62321-8

Measured sound power level:	L_{wA}: 96.9 dB(A)
Guaranteed sound power level:	$L_{wA.d}$: 99 dB(A)

Conformity assessment method to Annex V Directive 2000/14/EC.

The EC type-examination certificate number: 15SHW0850-03 issued by Intertek Deutschland GmbH (Notified body 0905), Stangenstraβe 1, 70771 Leinfelden-Echterdingen.

Place, date: Malmö, 01.01.2021	Signature: Ted Qu, Quality Director

Ted Qu