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McCulloch CS 50S (GM967300301)

McCulloch CS 50S Thermal Chainsaw User Manual

Model: CS 50S (GM967300301)

1. PRODUCT OVERVIEW

The McCulloch CS 50S is a robust and lightweight gasoline chainsaw designed for demanding sawing tasks. It features a powerful 2100 W OxyPower engine, which provides efficient performance with reduced emissions and lower fuel consumption. The chainsaw is equipped with a 45 cm guide bar.

Key features include a Soft Start system for easy starting, a primer, and a combined Start/Stop switch for simplified operation. The integrated anti-vibration system and felling marks on the handle contribute to fatigue-free and precise work. Additionally, the durable CCS air filtration system purifies intake air, enhancing engine power and further reducing fuel consumption.



Figure 1.1: Front view of the McCulloch CS 50S Chainsaw, showcasing the guide bar and chain.

2. SAFETY INFORMATION

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

2.1 Personal Protective Equipment (PPE)

- **Head Protection:** Always wear a safety helmet.
- **Eye Protection:** Use safety glasses or a face shield.
- **Hearing Protection:** Wear ear defenders or earplugs.
- **Hand Protection:** Wear sturdy work gloves.
- **Leg Protection:** Use chainsaw protective trousers.
- **Foot Protection:** Wear safety boots with steel toe caps and non-slip soles.

2.2 General Safety Precautions

- Never operate the chainsaw with one hand.
- Be aware of kickback, which can occur when the moving chain at the tip of the guide bar contacts an object, or when the wood closes in and pinches the saw chain in the cut.
- Ensure stable footing and balance before and during operation.
- Keep bystanders, children, and animals at least 10 meters (33 feet) away from the work area.
- Handle fuel with extreme care. Fuel is highly flammable.
- Do not operate the chainsaw in poor weather conditions, especially when there is a risk of lightning.
- Inspect the chainsaw before each use for damaged parts, loose fasteners, or fuel leaks.

3. COMPONENTS AND FEATURES

Familiarize yourself with the main components of your McCulloch CS 50S chainsaw:

- **Engine:** 2100 W OxyPower engine for powerful and efficient cutting.
- **Guide Bar:** 45 cm (18 inch) guide bar, providing a substantial cutting length.
- **Saw Chain:** Designed for optimal cutting performance and durability.
- **Soft Start System:** Reduces resistance in the starter cord for easier starting.
- **Primer Bulb:** Pumps fuel to the carburetor for quick starts.
- **Combined Start/Stop Switch:** Simplifies the starting and stopping procedure.
- **Anti-Vibration System:** Isolates the handles from the engine to reduce vibration and user fatigue.
- **CCS Air Filtration System:** Cleans intake air before it reaches the carburetor, improving engine performance and fuel efficiency.
- **Chain Brake:** Safety feature that stops the chain instantly in case of kickback.
- **Front Handle:** For stable grip and control during operation.
- **Rear Handle:** Contains the throttle trigger and controls.
- **Fuel Tank:** For gasoline mixture.
- **Chain Oil Tank:** For lubricating the chain and guide bar.



Figure 3.1: Side view of the McCulloch CS 50S Chainsaw, showing the engine housing and handles.

4. SETUP

4.1 Unpacking and Inspection

Carefully remove all components from the packaging. Inspect the chainsaw for any signs of damage during transit. Ensure all parts listed in the manual are present.

4.2 Guide Bar and Chain Assembly

1. Place the guide bar onto the guide bar studs.
2. Carefully loop the saw chain around the drive sprocket and into the guide bar groove. Ensure the cutting edges of the chain are facing the correct direction (refer to the arrow on the guide bar).
3. Install the clutch cover and tighten the nuts finger-tight.
4. Adjust chain tension using the tensioning screw. The chain should be snug against the guide bar but still able to be pulled freely by hand.
5. Once tension is set, fully tighten the clutch cover nuts.

4.3 Fuel and Chain Oil

The McCulloch CS 50S uses a two-stroke engine that requires a mixture of unleaded gasoline and two-stroke engine oil. Always use high-quality two-stroke oil specifically designed for air-cooled engines.

- **Fuel Mixture Ratio:** Refer to the engine oil manufacturer's instructions, typically 50:1 (2% oil) or 25:1 (4% oil). Always mix fuel in a separate, approved container.
- **Chain Oil:** Use a high-quality chain lubricant specifically designed for chainsaws. Never use waste oil or motor oil.

4.4 Filling Tanks

1. Ensure the chainsaw is on a level surface and the engine is cool.
2. Clean the area around the fuel and oil caps to prevent dirt from entering the tanks.

3. Carefully open the caps and fill the fuel tank with the prepared fuel mixture and the chain oil tank with chain lubricant.
4. Do not overfill. Leave a small air gap.
5. Securely close both caps.



Figure 4.1: Top view of the McCulloch CS 50S Chainsaw, showing the fuel and oil caps.

5. OPERATING INSTRUCTIONS

5.1 Starting the Engine

Cold Start:

1. Engage the chain brake.
2. Press the primer bulb several times until fuel is visible in the bulb.
3. Set the combined Start/Stop switch to the choke position.
4. Pull the starter cord slowly until resistance is felt, then pull quickly and firmly until the engine fires (usually a few pulls).
5. Once the engine fires, immediately push the Start/Stop switch to the half-throttle position.
6. Pull the starter cord again until the engine starts and runs.
7. Disengage the chain brake and allow the engine to warm up for a few moments before beginning work.

Warm Start:

1. Engage the chain brake.
2. Set the combined Start/Stop switch to the run position.
3. Pull the starter cord until the engine starts.

5.2 Cutting Techniques

Always maintain a firm grip on both handles. Ensure the chain brake is disengaged before cutting.

- **Bucking:** Cutting a felled tree into logs. Always support the log to prevent pinching the guide bar.
- **Limbing:** Removing branches from a felled tree. Work from the base of the tree towards the top, cutting smaller branches first.
- **Felling:** Cutting down a standing tree. This is an advanced technique and should only be performed by experienced operators. Always plan your escape route and be aware of the tree's lean.



Figure 5.1: Operator using the McCulloch CS 50S Chainsaw to cut a log on a sawhorse, demonstrating proper technique and safety gear.



Figure 5.2: Another view of the McCulloch CS 50S Chainsaw in use, showing the sawdust being expelled during cutting.



Figure 5.3: Close-up of an operator wearing full protective gear, including a helmet with face shield, while using the McCulloch CS 50S Chainsaw to cut wood.

6. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your chainsaw.

6.1 Daily Checks

- Check chain tension: Adjust if necessary.
- Check chain oil level: Refill before each use.
- Check fuel level: Refill as needed.
- Inspect the chain for sharpness and damage.
- Check the chain brake for proper function.

6.2 Cleaning

- **Air Filter:** Regularly clean the air filter, especially after dusty operations. Remove the filter and clean it with warm soapy water, then allow it to dry completely before reinstallation.
- **Cooling Fins:** Keep the engine's cooling fins free of sawdust and debris to prevent overheating.
- **Guide Bar Groove:** Clean the groove of the guide bar to ensure proper chain lubrication and movement.

6.3 Chain Sharpening

A sharp chain is crucial for safe and efficient cutting. Sharpen the chain regularly using a round file of the correct

diameter (refer to chain specifications) and a flat file for depth gauges. If unsure, have the chain sharpened by a professional.

6.4 Spark Plug Inspection

Inspect the spark plug periodically. Clean or replace it if it's fouled or worn. Ensure the correct gap is maintained.

6.5 Storage

For long-term storage, drain the fuel tank and run the engine until it stops to clear the carburetor. Drain the chain oil tank. Clean the chainsaw thoroughly and store it in a dry, secure place away from children.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Engine won't start	No fuel; incorrect starting procedure; fouled spark plug; clogged fuel filter	Fill fuel tank; follow cold/warm start procedure; clean/replace spark plug; clean/replace fuel filter
Chainsaw cuts poorly	Dull chain; incorrect chain tension; worn guide bar	Sharpen chain; adjust chain tension; replace guide bar
Chain oil not flowing	Empty oil tank; clogged oil outlet; damaged oil pump	Fill oil tank; clean oil outlet; contact service for oil pump repair
Excessive vibration	Loose components; damaged chain/guide bar; engine issue	Check all fasteners; inspect/replace chain/guide bar; contact service for engine inspection

8. SPECIFICATIONS

Attribute	Value
Manufacturer	Gardena Deutschland GmbH - DE Parent
Model Number	GM967300301
Product Dimensions (L x W x H)	50 x 29 x 31.5 cm
Weight	6 kg (13.23 lbs)
Power	2100 Watts
Engine Type	Fuel-powered (Gasoline)
Guide Bar Length	45 cm
Material	Plastic
Included Components	Chain

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official McCulloch website or contact an authorized McCulloch service center. Keep your proof of purchase for any warranty claims.

Please note that specific spare parts availability information was not provided in the product data. For spare parts inquiries, it is recommended to contact McCulloch or Gardena Deutschland GmbH directly.

For further assistance, you may visit the [McCulloch official website](#).

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Related Documents - CS 50S (GM967300301)

	<p>McCulloch CS 50S Chainsaw Operator's Manual: Safety, Operation, and Maintenance Guide</p> <p>This comprehensive operator's manual provides essential safety guidelines, operating instructions, maintenance procedures, and troubleshooting tips for the McCulloch CS 50S chainsaw, model LDAV50MC.</p>
	<p>Oregon 2017-2018 Replacement Chain & Bar Fit-Up Chart</p> <p>Find the correct Oregon replacement chainsaw chain and bar with this comprehensive 2017-2018 fit-up guide. Covers AdvanceCut, ControlCut, VersaCut, SpeedCut, and PowerCut chains compatible with major brands like Stihl, Husqvarna, and more.</p>
	<p>McCulloch PRO MAC 10-10S Chainsaw Parts Manual</p> <p>This document is an illustrated parts list (IPL) for the McCulloch PRO MAC 10-10S chainsaw, covering models from 08/82 to the current production. It details various assemblies including the carburetor, chain brake, fan housing/starter, fuel tank, and powerhead, providing part numbers and descriptions for each component.</p>
	<p>McCulloch Eager Beaver 14 ES Chainsaw Parts List and Diagrams</p> <p>This document provides a comprehensive parts list and exploded view diagrams for the McCulloch Eager Beaver 14 ES chainsaw, covering models from May 1989 to August 1992 (IPL 223320). It includes part numbers, quantities, and descriptions for various components, including bar and chain information, general assembly parts, and motor assembly parts.</p>



[ECHO CS-271T Chainsaw Parts Catalog](#)

Comprehensive parts catalog for the ECHO CS-271T Chainsaw, detailing all components, part numbers, and descriptions in both English and Spanish. Includes optional accessories and safety equipment.



[ECHO CS-4510 Chainsaw Parts Catalog and Accessories](#)

Comprehensive parts catalog for the ECHO CS-4510 Chainsaw, listing all components, optional accessories, and safety equipment with part numbers and descriptions in English and Spanish. Includes diagrams and technical specifications for various assemblies.