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ALPINA ACS 50

ALPINA ACS 50 Gasoline Chainsaw User Manual

Model: ACS 50 (Part No. 205020004/A20)

1. INTRODUCTION AND OVERVIEW

The ALPINA ACS 50 is a robust gasoline chainsaw designed for demanding woodcutting tasks, suitable for both domestic use and more intensive garden work. It features a powerful 49.3 cm³ gasoline engine (2.2 kW) and a 50 cm guide bar. This chainsaw is equipped with an automatic chain lubrication system for enhanced performance and durability. Its sturdy construction and high-quality chain make it an effective tool for various woodcutting activities.



Figure 1: ALPINA ACS 50 Gasoline Chainsaw. This image shows the complete chainsaw from a side angle, highlighting its robust design and the 50 cm guide bar.

2. SAFETY INFORMATION

Always prioritize safety when operating the chainsaw. Failure to follow safety instructions can result in serious injury or death.

- **Read the Manual:** Before assembly, operation, or maintenance, thoroughly read and understand this entire instruction manual.
- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including a safety helmet, eye protection, hearing protection, heavy-duty gloves, safety trousers (cut-resistant), and safety boots.
- **Work Area:** Ensure the work area is clear of bystanders, children, and pets. Maintain a safe distance from other people and objects.
- **Fuel Handling:** Handle gasoline with extreme care. Store fuel in approved containers, mix fuel in a well-ventilated area, and never refuel while the engine is running or hot.
- **Kickback Prevention:** Be aware of kickback risks. Hold the chainsaw firmly with both hands. Avoid cutting with the tip of the guide bar.
- **Maintenance:** Regularly inspect the chainsaw for damage, loose parts, or wear. Ensure the chain brake is functional.
- **Emergency Stop:** Familiarize yourself with the location and operation of the engine stop switch.

Soft-Touch-Obergriff
für optimalen Komfort



Erhöhte Sicherheit durch schnell stoppende Kettenbremse

Figure 2: Enhanced safety through a quick-stopping chain brake. This close-up shows the ergonomic soft-touch upper handle and the chain brake mechanism, crucial for user safety.

3. COMPONENTS OVERVIEW

Familiarize yourself with the main components of your ALPINA ACS 50 chainsaw:



Figure 3: Chainsaw components diagram. This diagram labels key features including the 49.3 cm³ gasoline engine (2.2 kW power), 50 cm guide bar length, 21 m/s chain speed, automatic oil pump, pull start, ergonomic rear handle, soft-touch upper handle, and 550 ml fuel tank capacity.

- **Engine:** 49.3 cm³ gasoline engine with 2.2 kW (2200 W) power.
- **Guide Bar:** 50 cm (20-inch) length for precise cutting.
- **Saw Chain:** Operates at a speed of 21 m/s.
- **Automatic Oil Pump:** Ensures continuous chain lubrication.
- **Fuel Tank:** 550 ml capacity.
- **Handles:** Ergonomic rear handle and soft-touch upper handle for comfortable and secure grip.
- **Chain Brake:** Quick-stopping mechanism for enhanced safety.
- **Pull Start:** Easy starting mechanism.

4. SETUP

Before first use, ensure the chainsaw is correctly assembled and prepared.

4.1 Unpacking and Included Components

Carefully unpack the chainsaw and check for all included items:

- 1x ALPINA ACS 50 Gasoline Chainsaw (20-inch)
- Screwdriver
- Round file (for chain sharpening)
- Spark plug wrench
- User Manual

4.2 Guide Bar and Chain Installation

1. Ensure the engine is off and the chain brake is engaged.
2. Remove the chain cover by loosening the nuts.
3. Place the guide bar onto the studs.
4. Carefully fit the saw chain around the sprocket and into the guide bar groove. Ensure the cutting edges are facing the correct direction.
5. Replace the chain cover and lightly tighten the nuts.

4.3 Chain Tension Adjustment

Proper chain tension is critical for safe and efficient operation. The ACS 50 features convenient side chain tensioning.

1. With the chain cover nuts slightly loose, use the tensioning screw (typically located on the side) to adjust the chain tension.
2. The chain should be snug against the guide bar, but still able to be pulled freely by hand. There should be no slack on the underside of the bar.
3. Once tension is correct, fully tighten the chain cover nuts.
4. Check tension again after a few cuts, as new chains can stretch.

4.4 Fuel and Oil Filling

This is a gasoline chainsaw and requires a specific fuel mixture and chain lubricant.

- **Fuel Mixture:** Use a mixture of unleaded gasoline and 2-stroke engine oil at the ratio specified in the engine manual (typically 50:1 or 25:1). Refer to the engine manufacturer's recommendations.
- **Chain Oil:** Fill the chain oil reservoir with high-quality bar and chain oil. The automatic oil pump will lubricate the chain during operation.
- Ensure caps are securely tightened after filling.

5. OPERATING INSTRUCTIONS

5.1 Starting the Engine

The ALPINA ACS 50 features an easy pull-start mechanism.

Einfacher Seilzugstart



Figure 4: Easy pull start. This image highlights the location of the pull start cord for initiating engine operation.

1. Place the chainsaw on a firm, flat surface.
2. Engage the chain brake.
3. Set the choke (if applicable, refer to specific engine instructions).
4. Hold the chainsaw firmly with one hand on the front handle and place your foot on the rear handle to stabilize it.
5. Pull the starter cord with a smooth, steady motion until the engine fires (or attempts to fire).
6. Once the engine fires, disengage the choke (if applicable) and pull the cord again until the engine runs smoothly.
7. Allow the engine to warm up for a few moments before disengaging the chain brake and beginning work.

5.2 Cutting Techniques

Always maintain a firm grip with both hands on the chainsaw handles. Ensure stable footing and balance.

- **Felling:** Plan your felling direction carefully. Clear the area around the tree. Make a directional notch, then a felling cut from the opposite side.
- **Limbing:** Work from the base of the tree towards the top. Support branches to prevent pinching the guide bar.
- **Bucking:** Cut logs into desired lengths. Support the log to prevent it from rolling or pinching the chain.

5.3 Stopping the Engine

To stop the chainsaw, simply press the engine stop switch. Engage the chain brake immediately after stopping.

6. MAINTENANCE

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

- **Chain Sharpening:** Keep the saw chain sharp using the provided round file or a suitable sharpening tool. A sharp chain cuts efficiently and reduces kickback risk.
- **Chain Lubrication:** Regularly check the chain oil level and refill as needed. The automatic oil pump ensures continuous lubrication during operation.
- **Air Filter:** Clean the air filter regularly to maintain optimal engine performance.
- **Spark Plug:** Inspect and clean or replace the spark plug as recommended in the engine manual.
- **Guide Bar:** Clean the guide bar groove and oil holes. Flip the guide bar periodically to ensure even wear.
- **General Cleaning:** Keep the chainsaw clean from sawdust, debris, and oil residue.



Figure 5: Chainsaw chain with automatic lubrication. This close-up shows the chain links and highlights the 21 m/s chain speed with automatic chain lubrication, essential for smooth operation and chain longevity.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your chainsaw.

Problem	Possible Cause	Solution
Engine does not start	No fuel, incorrect fuel mixture, fouled spark plug, engaged chain brake, clogged air filter.	Check fuel level and mixture. Clean or replace spark plug. Disengage chain brake. Clean air filter.
Chainsaw cuts poorly	Dull chain, incorrect chain tension, worn guide bar.	Sharpen chain. Adjust chain tension. Inspect and replace guide bar if worn.
Chain not lubricating	Empty oil reservoir, clogged oil port, faulty oil pump.	Refill chain oil. Clean oil port. Consult a service technician if oil pump is faulty.
Excessive vibration	Loose components, damaged chain or guide bar.	Check all nuts and bolts for tightness. Inspect chain and guide bar for damage.

If you encounter issues not listed here or cannot resolve a problem, contact an authorized service center.

8. SPECIFICATIONS

Detailed technical specifications for the ALPINA ACS 50 Chainsaw:

Brand	ALPINA
Model Number	205020004/A20
Engine Type	Gasoline, 2-stroke
Engine Displacement	49.3 cm ³
Power Output	2.2 kW (2200 W)
Guide Bar Length	50 cm (20 inches)
Chain Speed	21 m/s
Fuel Tank Capacity	550 ml
Automatic Chain Lubrication	Yes
Product Dimensions (L x W x H)	88.5 x 28.5 x 32 cm
Weight	6.7 kg (product), 7.8 kg (package)
Color	Black, Silver
Material	Plastic, Aluminum
Included Components	Chainsaw, Screwdriver, Round File, Spark Plug Wrench
Spare Parts Availability (EU)	5 Years

Note: Some specifications in the source data indicated "Battery" as energy source and "1 12V battery(ies) required", but the product title clearly states "benzinemotor" (gasoline engine). The primary energy source is gasoline. Any battery requirement would be for specific auxiliary functions like ignition, and batteries are not included.

9. WARRANTY AND SUPPORT

ALPINA provides support for its products. Spare parts for this model are guaranteed to be available in the EU for a period of 5 years from the date of first availability (November 24, 2020).

For warranty claims, technical assistance, or to locate an authorized service center, please refer to the contact information provided on the official ALPINA website or your purchase documentation.

