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SUPMIXTOOLS S6251

SUPMIXTOOLS 20 Inch Gas Chainsaw 62cc User Manual

Model: S6251

1. Introduction

This manual provides essential instructions for the safe operation, assembly, maintenance, and troubleshooting of your SUPMIXTOOLS 20 Inch Gas Chainsaw, Model S6251. Please read this manual thoroughly before operating the chainsaw to ensure your safety and the longevity of the product. Keep this manual for future reference.

2. Safety Information

Operating a chainsaw can be dangerous if proper safety precautions are not followed. Always prioritize safety to prevent serious injury or property damage.

General Safety Rules:

- **Personal Protective Equipment (PPE):** Always wear appropriate safety gear, including a helmet with face shield, hearing protection, safety glasses, heavy-duty gloves, chainsaw protective trousers or chaps, and steel-toed 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 fuel in a well-ventilated area, away from ignition sources. Do not smoke while refueling. Allow the engine to cool before refueling.
- **Inspection:** Before each use, inspect the chainsaw for loose parts, damaged components, or fuel leaks. Ensure the chain is sharp and properly tensioned.
- **Kickback Prevention:** Be aware of kickback risks. Hold the chainsaw firmly with both hands. Avoid cutting with the tip of the guide bar.
- **Stable Footing:** Always maintain firm footing and balance when operating the chainsaw. Do not overreach.
- **Weather Conditions:** Do not operate the chainsaw in adverse weather conditions such as heavy rain, strong winds, or icy conditions.

- **First Aid:** Have a first aid kit readily available and know how to use it.

3. Product Overview and Components

The SUPMIXTOOLS S6251 is a 20-inch gas-powered chainsaw designed for cutting wood in outdoor, home, farm, and garden environments. It features a 62cc 2-stroke engine, delivering 4.2 horsepower and a chain speed of 8500 RPM/min.



Image 3.1: The SUPMIXTOOLS 20 Inch Gas Chainsaw S6251, showcasing its main body and 20-inch guide bar.

Key Features:

- **Powerful Engine:** 62cc 2-stroke gasoline engine with 4.2 HP for strong cutting performance.
- **20-Inch Guide Bar:** Provides a substantial cutting length for various tasks.
- **Automatic Lubrication System:** Reduces friction and extends the life of the saw blade and chain.
- **Safety Device:** Equipped with a safety mechanism to prevent accidental operation.
- **Ergonomic Design:** Balanced and flexible for comfortable operation.



Image 3.2: The SUPMIXTOOLS chainsaw along with its included accessories, such as a fuel mixing bottle, funnel, chain cover, and various tools for assembly and maintenance.

4. Setup and Assembly

Follow these steps carefully to assemble your chainsaw. Refer to the provided images for visual guidance.



Image 4.1: Visual guide for the initial installation steps of the chainsaw, including removing the bar cover, disengaging the brake, removing bar nuts, assembling the bumper spike, lifting the chain onto the sprocket, and ensuring correct chain cutter direction.

1. **Remove Bar Cover:** Take out the bar cover.
2. **Disengage Brake:** Ensure the chain brake is disengaged (silver button on Position 1).
3. **Remove Bar Nuts:** Unscrew and remove the bar nuts.
4. **Assemble Bumper Spike:** Attach the bumper spike to the chainsaw body.
5. **Lift Chain on Sprocket:** Carefully place the chain onto the drive sprocket.
6. **Check Chain Direction:** Verify that the chain cutters are pointing in the correct cutting direction.



Image 4.2: Visual guide for the final installation steps of the chainsaw, covering guide bar installation, steering the chain tension pin, finger tightening bar nuts, adjusting chain tension, ensuring no chain sag, and final tightening with tools.

7. **Install Guide Bar:** Place the guide bar, ensuring the chain is seated in its groove.
8. **Steer Tension Pin:** Align the chain tension pin into the bar hole.
9. **Finger Tighten Bar Nuts:** Lightly tighten the bar nuts by hand.
10. **Adjust Chain Tension:** Use the tensioning screw to adjust the chain tension. The chain should be snug but still able to be pulled around the guide bar by hand. It should not sag from the guide bar.
11. **Final Tightening:** Once tension is correct, fully tighten the bar nuts with the appropriate tools.

5. Operating Instructions

Proper starting and cutting techniques are crucial for safe and efficient operation.

Fuel and Oil Mixture:

This chainsaw uses a 2-stroke engine. Always use a specific 2-stroke engine oil mixed with unleaded gasoline at the ratio specified by the manufacturer. Refer to the engine's fuel cap or a dedicated label for the exact mixing ratio. Using incorrect fuel or mixture can damage the engine.

Starting the Engine:

Ensure the chain brake is engaged before attempting to start the engine.

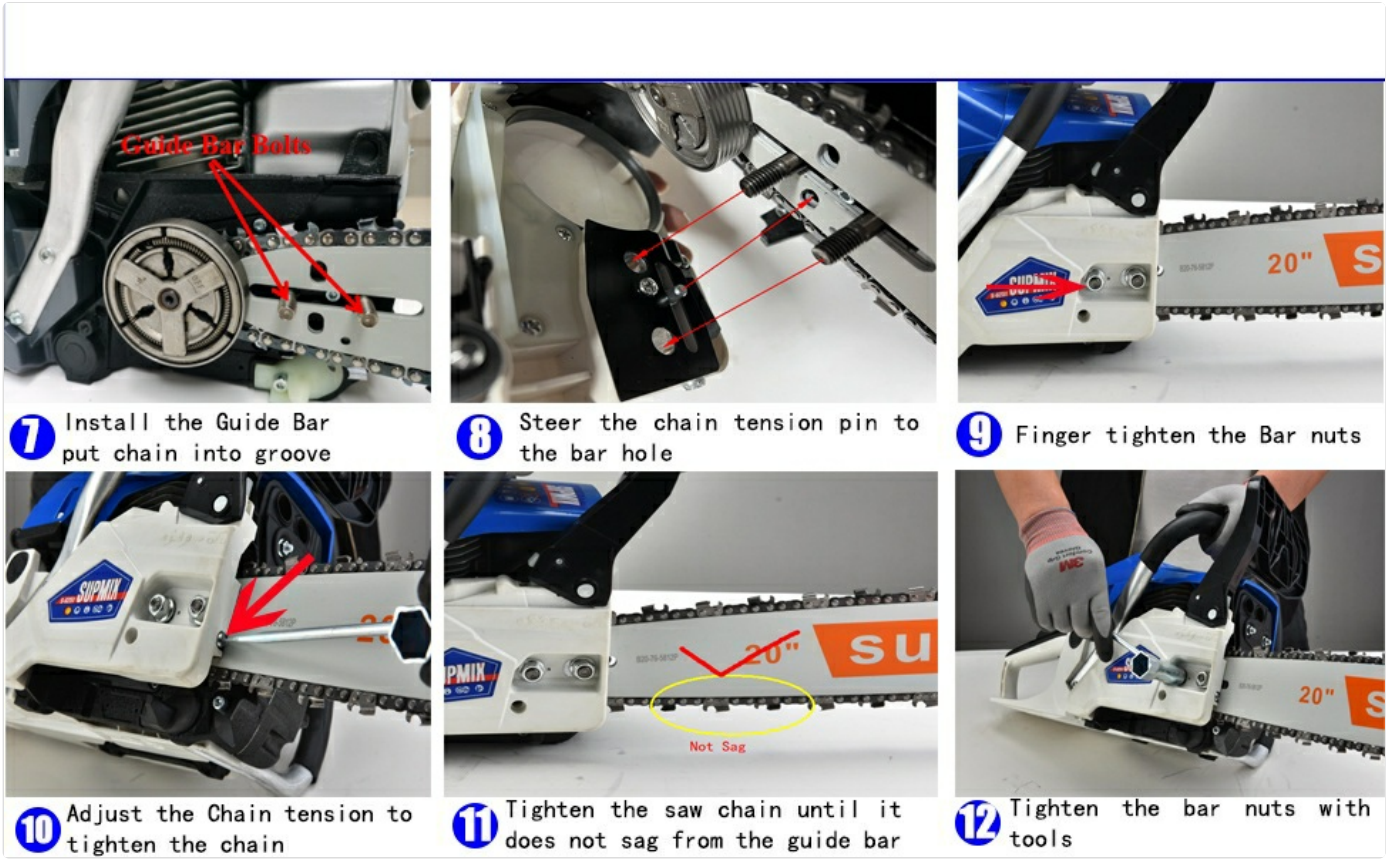


Image 5.1: Visual guide for starting the chainsaw when the engine is cold, detailing steps for brake engagement, power switch, choke, pull handle, and choke knob adjustment.

To Start a Cold Engine:

1. **Engage Brake:** Push the chain brake forward to engage it.
2. **Power Switch:** Move the On/Off switch to the 'On' position.
3. **Pull Choke:** Pull the choke knob fully out.
4. **Pull Starter:** Pull the start handle (recoil starter) several times (maximum 6 times) until the engine briefly fires or attempts to start.
5. **Push Choke In:** Push the choke knob back fully in.
6. **Final Pulls:** Pull the starter again until the engine starts.



Image 5.2: Visual guide for starting the chainsaw when the engine is warm, showing steps for brake engagement, power switch, and pulling the starter.

To Start a Warm Engine:

1. **Engage Brake:** Push the chain brake forward to engage it.
2. **Power Switch:** Move the On/Off switch to the 'On' position.
3. **Pull Starter:** Pull the starter until the engine starts. The choke is typically not needed for a warm start.

Cutting Techniques:

Always ensure the chain brake is disengaged before cutting. Hold the chainsaw firmly with both hands. Position your body to the side of the cutting path, not directly behind the saw. Start cutting with the lower part of the guide bar to avoid kickback. Do not force the saw; let the chain do the work. Be aware of falling branches and logs.



Image 5.3: A person demonstrating the use of the SUPMIXTOOLS chainsaw to cut a log, highlighting proper grip and cutting posture.

6. Maintenance

Regular maintenance ensures optimal performance and extends the lifespan of your chainsaw.

Chain and Guide Bar:

- **Chain Tension:** Check chain tension frequently. A properly tensioned chain should be snug against the guide bar but still allow you to pull it around by hand.
- **Chain Sharpening:** Keep the chain sharp. A dull chain reduces cutting efficiency and increases the risk of kickback. Use a round file of the correct diameter for your chain.
- **Lubrication:** The chainsaw features an automatic lubrication system. Ensure the oil reservoir is filled with appropriate bar and chain oil. Check the oil level before each use.
- **Guide Bar Maintenance:** Clean the guide bar groove regularly to remove sawdust and debris. Flip the guide bar periodically to ensure even wear.

Engine and Air Filter:

- **Air Filter:** Clean the air filter regularly, especially in dusty conditions. A clogged air filter can reduce engine performance and increase fuel consumption.
- **Spark Plug:** Inspect and clean the spark plug periodically. Replace it if it is fouled or damaged.
- **Cooling Fins:** Keep the engine's cooling fins clean to prevent overheating.

Storage:

When storing the chainsaw for an extended period, drain the fuel tank and run the engine until it stops to clear the carburetor. Clean the chainsaw thoroughly and store it in a dry, secure location, out of reach of children.

7. Troubleshooting

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

Engine Does Not Start:

- **Check Fuel:** Ensure there is sufficient and correctly mixed fuel in the tank.
- **Choke Position:** Verify the choke is in the correct position for cold or warm start.
- **Power Switch:** Confirm the On/Off switch is in the 'On' position.
- **Spark Plug:** Check the spark plug for fouling or damage. Clean or replace if necessary.
- **Air Filter:** A clogged air filter can prevent starting. Clean or replace it.

Poor Cutting Performance:

- **Dull Chain:** Sharpen or replace the chain.
- **Incorrect Chain Tension:** Adjust the chain tension.
- **Insufficient Lubrication:** Ensure the oil reservoir is filled and the automatic oiler is functioning.

Engine Overheating:

- **Cooling Fins:** Clean any debris from the engine's cooling fins.
- **Fuel Mixture:** Ensure the correct fuel/oil mixture is used.

For issues not covered here or if problems persist, contact a qualified service technician.

8. Specifications



Image 8.1: The SUPMIXTOOLS chainsaw with visual callouts for its dimensions and key performance specifications.

Specification	Detail
Brand	SUPMIXTOOLS
Model Number	S6251
Power Source	Gas Powered
Engine Displacement	62cc
Horsepower	4.2 HP
Max Speed	8500 RPM/Min
Wattage	3.2 KW
Chain Length	20 Inches

Item Weight	14 Pounds
Product Dimensions (L x W x H)	35.4" x 10" x 10.8"
Included Components	Installation Toolkit

9. Warranty and Support

For warranty information and customer support, please refer to the documentation included with your purchase or contact the seller directly. Keep your proof of purchase for any warranty claims.

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