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HUYOSEN 5518H

HUYOSEN 5518H 20-inch Gas Chainsaw User Manual

Model: 5518H

1. Introduction

This manual provides essential information for the safe and effective operation, assembly, and maintenance of your HUYOSEN 5518H 20-inch Gas Chainsaw. Please read and understand all instructions before using the chainsaw. Proper use and maintenance will ensure optimal performance and extend the lifespan of your tool.



Image 1: The HUYOSEN 5518H 20-inch Gas Chainsaw, showcasing its design and components.

2. Safety Instructions

WARNING: Chainsaws can be dangerous if not used properly. Always follow safety guidelines to prevent serious injury or death.

- **Personal Protective Equipment (PPE):** Always wear a safety helmet, eye protection, hearing protection, heavy-duty gloves, chainsaw protective trousers, and safety boots when operating the chainsaw.
- **Work Area:** Ensure the work area is clear of bystanders, children, and pets. Maintain a firm footing and balance.

- **Fuel Handling:** Mix and handle fuel in a well-ventilated area, away from sparks or open flames. Do not smoke while refueling.
- **Starting Safety:** Always engage the chain brake before starting. Ensure the chainsaw is on a stable, flat surface.
- **Kickback Prevention:** Be aware of kickback risks. Avoid cutting with the tip of the guide bar. The chainsaw features a low-kickback chain for enhanced safety.
- **Chain Brake:** The quick-stop chain brake is designed for immediate chain halting in case of kickback or emergency. Regularly check its functionality.
- **Safety Switch:** The built-in safety switch prevents accidental starts. Always ensure it is functioning correctly.
- **Maintenance:** Disconnect the spark plug wire before performing any maintenance or adjustments.

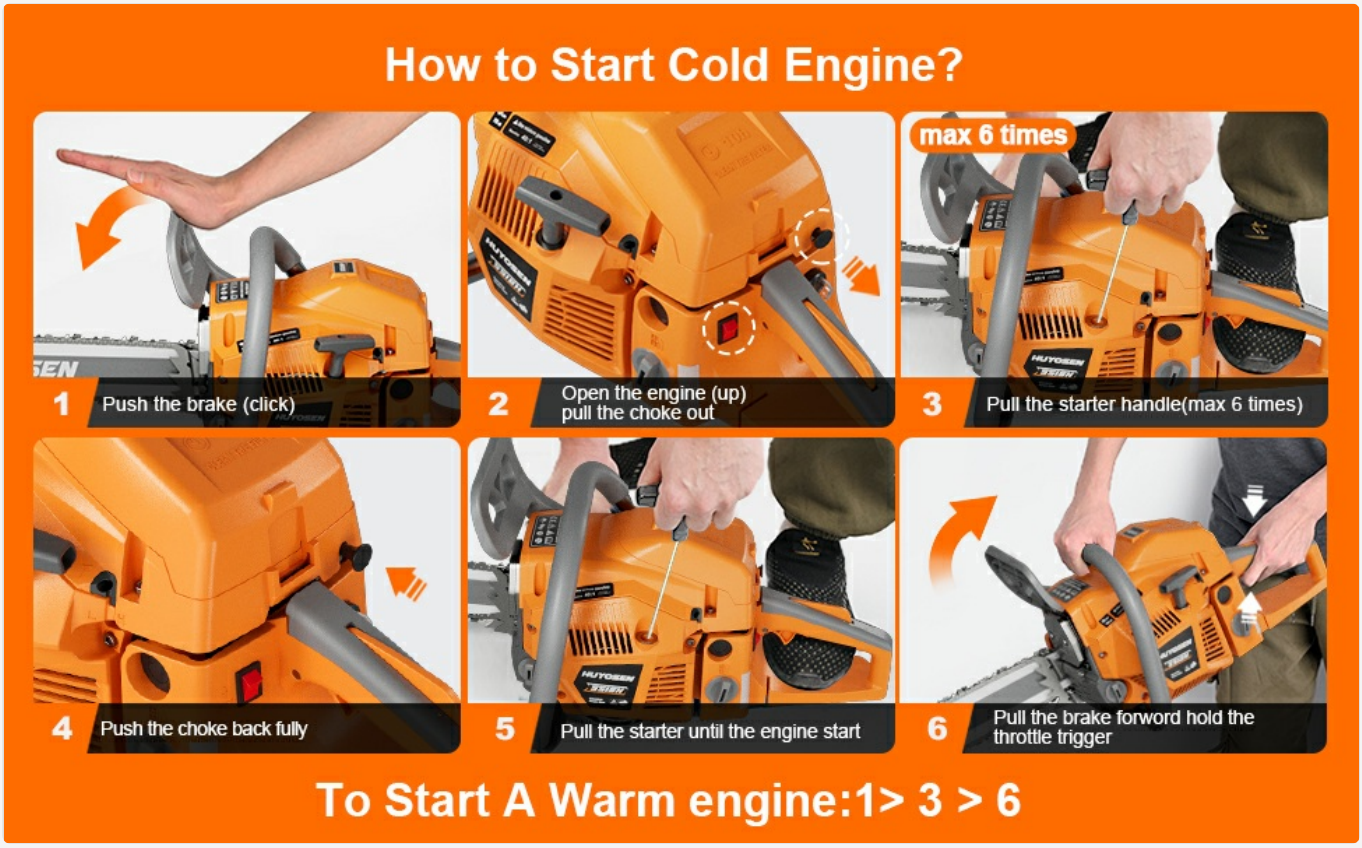

Image 2: Certificates indicating product safety compliance, emphasizing user security.

3. Components Overview

Familiarize yourself with the main parts of your HUYOSEN 5518H chainsaw:

- **Engine Housing:** Contains the 54.6cc 2-stroke engine.
- **Guide Bar:** The 20-inch metal bar that supports and guides the saw chain.
- **Saw Chain:** The cutting chain that rotates around the guide bar.
- **Front Handle:** For stable grip and control during operation.
- **Rear Handle:** Contains the throttle trigger and safety switch.
- **Chain Brake/Hand Guard:** Protects the operator's hand and stops the chain.
- **Starter Handle:** Used to manually start the engine.
- **Fuel Tank Cap:** For filling the fuel mixture.
- **Oil Tank Cap:** For filling chain lubricant oil.
- **Choke Lever:** Used for cold starting the engine.

- **Muffler:** Exhaust system for engine gases.



Image 3: Side view of the chainsaw, highlighting the engine housing and handles.

4. Assembly

Your chainsaw may require some assembly before first use. Refer to the detailed diagrams in your included manual for precise steps. General steps include:

1. **Unpack:** Carefully remove all components from the packaging.
2. **Install Guide Bar:** Place the guide bar onto the engine studs.
3. **Install Saw Chain:** Route the saw chain around the sprocket and along the guide bar, ensuring the cutting edges face the correct direction.
4. **Attach Side Cover:** Secure the side cover and chain brake assembly.
5. **Adjust Chain Tension:** Adjust the chain tension until it is snug but can still be pulled freely around the guide bar by hand. The chain should not sag on the underside of the bar.
6. **Tighten Nuts:** Securely tighten the bar retaining nuts.

IMPORTANT: Always wear protective gloves during assembly to avoid injury from sharp chain teeth.

5. Fuel and Oil Mixture

The HUYOSEN 5518H is a 2-stroke engine and requires a specific fuel mixture of gasoline and 2-stroke engine oil. **Always refer to the specific mixing ratio provided in your chainsaw's physical manual.** A common ratio is 40:1 or 50:1 (gasoline to oil).

- Use fresh, unleaded gasoline with an octane rating of 89 or higher.
- Use high-quality 2-stroke engine oil specifically designed for air-cooled engines.
- Mix the fuel and oil thoroughly in a separate, approved fuel container before pouring into the chainsaw's fuel tank.
- Fill the separate chain oil reservoir with high-quality bar and chain lubricant. The automatic oiling system will ensure consistent lubrication during operation.

CAUTION: Never use straight gasoline or automotive engine oil in your 2-stroke chainsaw, as this will cause

severe engine damage.

6. Starting the Chainsaw

6.1. Cold Start Procedure

Follow these steps for starting a cold engine:

1. **Engage Brake:** Push the chain brake forward until it clicks into the engaged position.
2. **Pull Choke:** Pull the choke knob out fully (up position).
3. **Prime (if applicable):** Press the primer bulb several times until fuel is visible.
4. **Pull Starter:** Place the chainsaw on a flat, stable surface. Hold the front handle firmly with one hand and pull the starter handle briskly (maximum 6 times) until the engine briefly fires or "pops."
5. **Push Choke Halfway:** Push the choke knob halfway in.
6. **Pull Starter Again:** Pull the starter handle again until the engine starts.
7. **Disengage Brake & Throttle:** Once the engine is running, disengage the chain brake by pulling it back. Briefly blip the throttle to return the engine to idle.

6.2. Warm Start Procedure

For a warm engine, the procedure is simpler:

1. **Engage Brake:** Push the chain brake forward.
2. **Pull Starter:** Pull the starter handle until the engine starts.
3. **Disengage Brake & Throttle:** Once running, disengage the chain brake and briefly blip the throttle.



Image 4: Visual guide for the cold start procedure, detailing each step.

7. Operating Instructions

Once the chainsaw is running, ensure you maintain a safe and controlled grip and posture.

- **Two-Handed Grip:** Always hold the chainsaw firmly with both hands, wrapping your thumbs and fingers around the handles. The ergonomic, non-slip, and shock-absorbing handle design helps reduce fatigue.
- **Cutting Stance:** Stand with your feet apart for balance, keeping your body to the left of the cutting line.
- **Cutting Technique:** Let the chainsaw do the work. Do not force it. Apply steady pressure. Be aware of potential kickback, especially when cutting with the upper quadrant of the guide bar tip.
- **Felling Trees:** For felling, plan your escape route and cutting direction carefully. Make a notch cut on the side of the tree in the direction of the fall, then a felling cut from the opposite side.
- **Limbing and Bucking:** Be cautious of branches under tension. Always cut from the side of the log that will not pinch the guide bar.
- **Stopping the Chainsaw:** Release the throttle trigger and engage the chain brake. For longer stops, turn off the engine using the stop switch.



Image 5: An operator demonstrating proper two-handed grip while cutting a log with the chainsaw.

8. Maintenance

Regular maintenance is crucial for the longevity and safe operation of your chainsaw.

- **Chain Sharpening:** Keep the saw chain sharp. A dull chain increases effort, reduces efficiency, and increases kickback risk. Refer to your manual for specific sharpening angles and tools.
- **Chain Tension:** Check chain tension frequently. Adjust as needed, especially during initial use and after prolonged operation.
- **Bar Lubrication:** The automatic oiling system provides consistent lubrication. Ensure the oil reservoir is filled with appropriate bar and chain oil. Check the oil flow regularly.
- **Air Filter:** Clean the air filter regularly to maintain engine performance. A clogged filter can lead to poor running and engine damage.
- **Spark Plug:** Inspect and clean the spark plug periodically. Replace if worn or fouled.
- **General Cleaning:** Keep the chainsaw clean from sawdust, debris, and oil residue. Pay attention to cooling fins and air intakes.
- **Storage:** When storing for extended periods, drain the fuel tank or use a fuel stabilizer. Clean the chainsaw thoroughly and store it in a dry, secure location with the blade guard in place.

9. Troubleshooting

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

Problem	Possible Cause	Solution
Engine won't start	• Incorrect starting procedure • No fuel or incorrect fuel mixture • Clogged fuel filter • Fouled spark plug • Chain brake engaged	• Review "Starting the Chainsaw" section. • Check fuel level and mixture. • Clean or replace fuel filter. • Clean or replace spark plug. • Disengage chain brake.
Engine runs, but chain does not move	• Chain brake engaged • Chain tension too loose • Clutch issue	• Disengage chain brake. • Adjust chain tension. • Contact service center if clutch is suspected.
Poor cutting performance	• Dull chain • Incorrect chain tension • Insufficient bar lubrication	• Sharpen or replace chain. • Adjust chain tension. • Check oil reservoir and automatic oiler function.
Engine overheats	• Clogged cooling fins • Incorrect fuel mixture • Overworking the engine	• Clean cooling fins. • Verify fuel/oil mixture ratio. • Allow engine to cool down; avoid continuous heavy load.

10. Specifications

Feature	Specification
Model Number	5518H
Engine Type	2-Stroke, Gas Powered
Engine Displacement	54.6 cm^3
Horsepower	3 HP (approx. 2.2 kW)
Max Engine Speed	13000 RPM (Max idle speed)
Cutting Speed	Up to 9000 RPM
Guide Bar Length	20 Inches
Item Weight	17 Pounds
Product Dimensions	10"L x 11"W x 9"H
Manufacturer	HUYOSEN
UPC	810147643325



Image 6: Chainsaw in use, highlighting key performance metrics like engine displacement, power, and bar length.

11. Warranty and Support

For warranty information and customer support, please refer to the documentation included with your purchase or contact the manufacturer directly. Keep your proof of purchase for any warranty claims.
Manufacturer: HUYOSEN
Brand (as listed by seller): SALEM MASTER
For further assistance, please visit the official HUYOSEN or SALEM MASTER website or contact their customer service department.

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