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Husqvarna ST224

Husqvarna ST224 Snow Blower Instruction Manual

Model: ST224 (970468501)

INTRODUCTION

This manual provides essential instructions for the safe and efficient operation, assembly, and maintenance of your Husqvarna ST224 two-stage snow blower. The ST224 is designed for clearing snow with its 24-inch clearing width and 208cc engine, featuring power steering for enhanced maneuverability. Please read this manual thoroughly before operating the machine.



Image: The Husqvarna ST224 snow blower, showcasing its orange body, large tires, and control panel.

SAFETY INFORMATION

Operating this powerful residential snow blower requires adherence to safety guidelines to prevent injury. Always prioritize safety during assembly, operation, and maintenance.

- **Protective Gear:** Always wear appropriate protective gear, including eye protection, hearing protection, and sturdy footwear, when operating the snow blower.
- **Clear Area:** Before starting, ensure the area to be cleared is free of objects that could be thrown by the auger, such as rocks, toys, or debris.
- **Keep Hands and Feet Clear:** Never place hands or feet near rotating parts, such as the auger or discharge chute, while the engine is running.
- **Fuel Handling:** Ensure proper ventilation when fueling. Store gasoline in approved containers in a safe, well-ventilated area away from ignition sources. Do not refuel a hot engine.
- **Engine Shut-off:** Always turn off the engine and remove the spark plug wire before performing any adjustments, maintenance, or clearing clogs.
- **Slope Operation:** Exercise extreme caution when operating on slopes. Clear snow across the face of slopes, never up or down.
- **Children and Bystanders:** Keep children and bystanders a safe distance from the operating area.

- **Manufacturer Instructions:** Always follow all manufacturer instructions for handling, storage, and operation.

SETUP AND ASSEMBLY

The Husqvarna ST224 snow blower requires some assembly before initial use. Follow these general steps carefully. Refer to the detailed assembly diagrams in your printed manual for specific instructions.

1. **Unpacking:** Carefully remove all components from the packaging. Inspect for any shipping damage.
2. **Handlebar Assembly:** Attach the handlebar assembly to the main unit using the provided bolts and nuts. Ensure all connections are secure.
3. **Chute Assembly:** Mount the discharge chute and its control mechanism. Verify that the chute rotates freely and the deflector adjusts correctly.
4. **Control Cables:** Connect all control cables (e.g., auger engagement, drive engagement, chute rotation) according to the instructions. Ensure proper tension and function.
5. **Fill with Oil:** Before starting the engine, fill the crankcase with the recommended engine oil to the proper level. Refer to the engine manual for oil type and capacity.
6. **Fuel:** Fill the fuel tank with fresh, clean gasoline. Do not overfill.



Image: A top-down view of the snow blower's control panel, showing levers for drive, auger, and chute control.

OPERATING INSTRUCTIONS

Familiarize yourself with the controls before starting the snow blower.

Starting the Engine (Electric Start)

1. **Prime (if necessary):** Press the primer bulb 3-5 times, or as recommended for cold starts.
2. **Choke:** Move the choke lever to the "FULL CHOKE" position.
3. **Throttle:** Set the throttle control to the "FAST" position.
4. **Ignition Key:** Insert the ignition key and turn it to the "ON" position.
5. **Electric Start:** Connect the extension cord to the electric starter port and then to a grounded 120V AC outlet. Press the electric start button until the engine starts.
6. **Disconnect:** Once the engine starts, immediately release the button and disconnect the extension cord.
7. **Warm-up:** Gradually move the choke lever to the "RUN" position as the engine warms up (typically 30-60 seconds).

Clearing Snow

- **Engage Drive:** Squeeze the drive control lever to engage the wheels and move the snow blower forward. Select an appropriate speed for snow conditions.
- **Engage Auger:** Squeeze the auger control lever to activate the auger and impeller.
- **Power Steering:** The ST224 features power steering. To turn, simply squeeze the steering trigger on the handle corresponding to the direction you wish to turn.
- **Adjust Chute:** Use the chute control crank to direct the snow discharge away from cleared areas, buildings, or people. Adjust the deflector to control the throwing distance.
- **Overlap Passes:** Make overlapping passes to ensure complete snow removal.
- **Stopping:** Release the auger and drive control levers to stop the auger and forward motion. Turn the ignition key to "OFF" to shut down the engine.



Image: A person operating the Husqvarna ST224 snow blower, actively clearing snow from a path.

MAINTENANCE

Regular maintenance ensures optimal performance and extends the life of your snow blower. Always refer to your engine manual for specific service intervals and procedures.

- **Engine Oil:** Check engine oil level before each use. Change oil after the first 5 hours of operation, then every 25 hours or annually.
- **Spark Plug:** Inspect and clean the spark plug annually. Replace if electrodes are worn or pitted.
- **Air Filter:** Inspect the air filter regularly and clean or replace as needed, especially in dusty conditions.
- **Shear Pins:** Inspect shear pins before each use. These are designed to break to protect the auger gearbox from damage if the auger hits a solid object. Replace any broken shear pins immediately.
- **Lubrication:** Lubricate all moving parts and pivot points as specified in the manual.
- **Storage:** At the end of the season, prepare the snow blower for storage by stabilizing fuel, cleaning the unit, and performing any necessary maintenance.



Image: A package of Husqvarna snow thrower shear bolts, essential for protecting the auger system.

TROUBLESHOOTING

This section addresses common issues you might encounter. For more complex problems, consult a qualified service technician.

Problem	Possible Cause	Solution
Engine does not start	No fuel, stale fuel, choke not set, spark plug issue, ignition key off.	Check fuel level, use fresh fuel, set choke correctly, inspect/replace spark plug, ensure ignition key is ON.
Engine runs poorly or stalls	Stale fuel, clogged fuel filter, dirty air filter, incorrect choke setting.	Drain and refill with fresh fuel, replace fuel filter, clean/replace air filter, adjust choke.
Auger does not turn	Shear pins broken, auger control cable loose, auger jammed.	Replace shear pins, adjust auger cable, clear any obstructions (engine OFF, spark plug wire disconnected).
Snow discharge is weak	Discharge chute clogged, wet/heavy snow, engine speed too low.	Clear chute (engine OFF, spark plug wire disconnected), take narrower passes, ensure engine is at full throttle.

SPECIFICATIONS

Key technical specifications for the Husqvarna ST224 snow blower.

- Brand:** Husqvarna
- Model Number:** 970468501 (ST224)
- Power Source:** Gas Powered, Electric Start
- Engine Type:** 2 Cycle
- Engine Displacement:** 208 Cubic Centimeters

Clearing Width: 24 Inches

Ideal Snow Depth: 24 Inches

Item Weight: 199 pounds

Package Dimensions: 48 x 48 x 48 inches

UPC: 193028071708

WARRANTY AND SUPPORT

For warranty information, technical support, or to locate authorized service centers, please contact Husqvarna customer service directly or visit their official website. Keep your purchase receipt and model number (ST224, 970468501) readily available when seeking support.

Important: Unauthorized modifications or use of non-genuine parts may void your warranty and compromise the safety and performance of the snow blower.

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