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Stanley SFMCW220B-XJ

Stanley FATMAX V20 Cordless Random Orbital Sander SFMCW220B-XJ User Manual

Model: SFMCW220B-XJ

1. Introduction

Thank you for choosing the Stanley FATMAX V20 Cordless Random Orbital Sander SFMCW220B-XJ. This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your new tool. Please read this manual thoroughly before use and keep it for future reference.
The Stanley FATMAX V20 Cordless Random Orbital Sander is designed for efficient material removal and smooth finishing on various surfaces. It features a powerful motor, a high-performance dust collection system, and a lightweight design for enhanced control and reduced vibration.

2. Safety Instructions

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.

General Power Tool Safety

- **Work Area Safety:** Keep your work area clean and well-lit. Cluttered or dark areas invite accidents. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- **Electrical Safety:** Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges, and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- **Personal Safety:** Always wear eye protection. Use a dust mask when sanding. Wear hearing protection when operating power tools for extended periods. Dress properly; avoid loose clothing or jewelry.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.

Sander Specific Safety

- **Dust Hazard:** Sanding operations produce dust. Always use the dust collection system or connect to an external vacuum. Ensure adequate ventilation. Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects, or other reproductive harm.
- **Secure Workpiece:** Always clamp or otherwise secure the workpiece to prevent movement during sanding.
- **Inspect Sanding Pad:** Before each use, inspect the sanding pad for wear or damage. Replace if necessary.

Battery Safety (V20 Lithium-Ion)

- Use only Stanley FATMAX V20 18V Lithium-Ion batteries and chargers.
- Do not incinerate the battery pack even if it is severely damaged or completely worn out. The battery pack can explode in a fire.
- Do not short-circuit a battery pack.
- Do not charge the battery pack in damp or wet locations.

3. Product Overview

The Stanley FATMAX V20 Cordless Random Orbital Sander SFMCW220B-XJ is part of the V20 18V cordless system, offering enhanced power and runtime. Key features include:

- Powerful motor delivering 12,000 RPM for rapid material removal.
- High-performance dust collection system with an integrated dust bag or external vacuum connection.
- Lightweight and low-profile design for improved control and reduced vibration.
- Dust-sealed switch for increased durability.
- Hook-and-loop sanding pad for quick and easy abrasive paper changes.



Figure 1: Stanley FATMAX V20 Cordless Random Orbital Sander with dust collection bag attached.

4. Setup

4.1 Battery Installation and Removal

The sander operates with a Stanley FATMAX V20 18V Lithium-Ion battery (sold separately). Ensure the battery is fully charged before use.

1. **To Install:** Align the battery pack with the battery port on the tool. Slide the battery into the tool until it clicks securely into place.
2. **To Remove:** Press the battery release button (usually located on the battery itself) and slide the battery pack out of the tool.



Figure 2: Sander with a V20 battery installed, demonstrating its cordless operation.

4.2 Attaching Sanding Discs

The sander uses 125mm (5-inch) sanding discs with a hook-and-loop backing for easy attachment.

1. Ensure the sander is turned off and the battery is removed.
2. Align the holes on the sanding disc with the holes on the sander's pad.
3. Press the sanding disc firmly onto the pad to secure it.
4. To remove, simply peel the disc off the pad.



Figure 3: Demonstrating the hook-and-loop attachment system for sanding discs.

4.3 Dust Collection System

The sander is equipped with a high-performance dust collection system to maintain a cleaner work environment.

1. **Using the Dust Bag:** Attach the integrated dust bag to the dust port on the sander. Ensure it is securely fastened. Empty the dust bag regularly for optimal performance.
2. **Connecting to an External Vacuum:** For more efficient dust extraction, you can connect a compatible vacuum hose to the dust port.



Figure 4: Sander with the dust bag detached, illustrating the dust port connection.

5. Operation

5.1 Powering On/Off

The sander features a dust-sealed switch for durability.

1. **To Turn On:** Press the "I" side of the rocker switch.
2. **To Turn Off:** Press the "O" side of the rocker switch.



Figure 5: Detail of the dust-sealed power switch.

5.2 Sanding Techniques

For best results and to prolong the life of your sanding discs:

- **Prepare Workpiece:** Ensure the workpiece is clean, dry, and securely fastened.
- **Start and Stop:** Always start the sander before placing it on the workpiece and lift it off the workpiece before turning it off.
- **Even Pressure:** Apply light, even pressure. Let the tool do the work. Excessive pressure can reduce sanding efficiency and damage the tool or workpiece.
- **Movement:** Move the sander in overlapping circular or elliptical patterns across the surface. Avoid holding the sander stationary in one spot, as this can create swirl marks.
- **Grit Progression:** Begin with a coarser grit for material removal and progress to finer grits for a smooth finish.



Figure 6: Proper handling and operation of the sander on a wooden surface.



Figure 7: The compact design of the sander allows for comfortable handling.

6. Maintenance

Regular maintenance ensures optimal performance and extends the life of your tool.

- **Cleaning:** After each use, remove the battery and clean the tool with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Clear any dust buildup from ventilation openings.
- **Dust Bag:** Empty the dust bag frequently. If using an external vacuum, ensure its filter is clean.
- **Sanding Pad Inspection:** Periodically inspect the hook-and-loop pad for wear or damage. A worn pad will not hold sanding discs effectively. Replace if necessary.
- **Storage:** Store the tool, battery, and charger in a cool, dry place, out of reach of children.

7. Troubleshooting

If your sander is not operating correctly, consult the following table for common issues and solutions.

Problem	Possible Cause	Solution
Sander does not start.	Battery not installed correctly or discharged.	Ensure battery is fully inserted. Charge the battery.
Poor sanding performance.	Worn sanding disc or incorrect grit. Worn hook-and-loop pad.	Replace sanding disc. Use appropriate grit for the task. Replace the sanding pad if worn.
Excessive dust.	Dust bag full or not attached correctly. Dust port clogged.	Empty and reattach dust bag. Clear any blockages from the dust port.
Excessive vibration.	Damaged sanding pad or unbalanced sanding disc.	Inspect and replace sanding pad or disc if damaged.

If the problem persists, contact Stanley customer service or an authorized service center.

8. Specifications

Feature	Specification
Model Number	SFMCW220B-XJ
Voltage	18V
No-Load Speed	12,000 RPM (rotations per minute)
Sanding Pad Diameter	125 mm (5 inches)
Power Source	Battery Powered (V20 Lithium-Ion)
Weight	1 Kilogram (without battery)
Dimensions (L x W x H)	20 x 15 x 14 cm
Battery Included	No (Sold Separately)
Charger Included	No (Sold Separately)

9. Warranty and Support

Stanley products are manufactured to high-quality standards and are rigorously tested. For detailed warranty information, please refer to the warranty card included with your purchase or visit the official Stanley website. Keep your proof of purchase for any warranty claims.

For technical assistance, spare parts, or service, please contact Stanley customer support or locate an authorized service center through the official Stanley website.

Official Stanley Website: www.stanleytools.com

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