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POWERMATIC 30 and 33 Sander

POWERMATIC Model 30 Belt & Disc Sander and Model 33 Belt Sander Operator's and Parts Manual

For Models with Serial Number 0-0101 and Up

1. INTRODUCTION

This document serves as the official Operator's and Parts Manual for the POWERMATIC Model 30 Belt & Disc Sander and the Model 33 Belt Sander. It is a reproduction of the original manual, meticulously edited for clarity and durability. This manual is essential for proper operation, maintenance, and identification of parts for your sander, covering machines with serial numbers 0-0101 and up.

The content includes detailed information on lubrication, operational adjustments, routine maintenance procedures, and control functions. Additionally, it provides a comprehensive parts list accompanied by exploded view diagrams to assist in identifying and ordering replacement components. This manual also covers the vacuum system for the belt and disc sander.

BELT & DISC SANDER

OPERATING INSTRUCTIONS

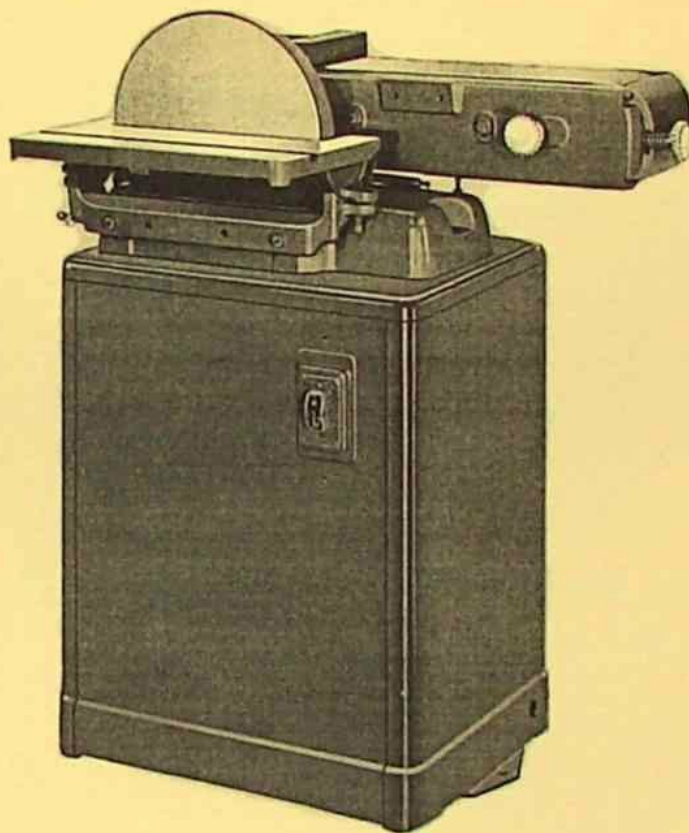
AND

PARTS LIST

Model 30—Belt and Disc Sander

Model 33—Belt Sander

For Serial Numbers From 0-101 Up



POWERMATIC MACHINE COMPANY
McMinnville, Tennessee

Figure 1.1: Cover of the POWERMATIC Model 30 and 33 Sander Operator's and Parts Manual.

2. SAFETY INSTRUCTIONS

Always prioritize safety when operating any power tool. Failure to follow these instructions may result in serious injury or damage to the equipment.

- **Read the Manual:** Before operating the sander, thoroughly read and understand all instructions and warnings in this manual.
- **Wear Eye Protection:** Always wear ANSI-approved safety goggles or a face shield to protect against flying debris.
- **Secure Workpiece:** Ensure the workpiece is firmly clamped or held against the work table to prevent kickback or loss of control.
- **Keep Guards in Place:** Never operate the sander without all guards properly installed and in good working order.
- **Disconnect Power:** Always disconnect the sander from the power source before making adjustments, changing belts/discs, or performing maintenance.
- **Proper Ventilation:** Operate the sander in a well-ventilated area. Connect to a dust collection system to minimize airborne dust.
- **Clear Work Area:** Keep the work area clean, uncluttered, and well-lit. Remove all tools and scraps before starting the sander.
- **Avoid Loose Clothing:** Do not wear loose clothing, gloves, neckties, or jewelry that can become entangled in moving parts. Tie back long hair.
- **Use Correct Accessories:** Only use accessories recommended by POWERMATIC for this sander.
- **Maintain Good Footing:** Ensure stable footing and balance at all times.

3. SETUP

Proper setup is crucial for safe and efficient operation of your POWERMATIC sander.

1. **Unpacking and Inspection:** Carefully remove the sander from its packaging. Inspect for any shipping damage. Report any damage immediately to the carrier and supplier.
2. **Mounting the Sander:** Securely mount the sander to a sturdy workbench or stand using appropriate hardware. Ensure the mounting surface is level and stable to prevent vibration and movement during operation.
3. **Power Connection:** Connect the sander to a grounded electrical outlet that matches the voltage and amperage requirements specified on the motor nameplate. Do not use extension cords unless absolutely necessary, and ensure they are rated for the tool's power requirements.
4. **Dust Collection System:** Connect a suitable dust collection system to the sander's dust port(s). Effective dust collection is vital for operator safety and machine longevity.
5. **Initial Adjustments:** Before first use, check all factory-set adjustments, such as belt tracking and disc table alignment, and adjust as necessary according to the operating instructions.

4. OPERATING INSTRUCTIONS

Familiarize yourself with the controls and functions before beginning any sanding operation.

4.1. Controls Overview

- **ON/OFF Switch:** Located (*refer to your specific model's diagram for location*) this switch controls power to the motor.
- **Belt Tracking Knob:** Used to adjust the belt's position on the rollers, ensuring it runs centrally.
- **Belt Tension Lever:** Releases or applies tension to the sanding belt for installation or removal.

- **Disc Table Adjustment:** Allows tilting the work table for angled sanding operations.
- **Miter Gauge Slot:** For use with a miter gauge to guide workpieces at specific angles.

4.2. Belt Installation and Tensioning

1. Disconnect power.
2. Release the belt tension lever.
3. Slide the old belt off (if applicable) and slide the new belt onto the rollers, ensuring the directional arrow on the belt matches the rotation direction of the sander.
4. Engage the belt tension lever.
5. Reconnect power and briefly turn on the sander to check belt tracking. Adjust with the belt tracking knob until the belt runs true.

4.3. Disc Installation

1. Disconnect power.
2. Remove the old sanding disc (if applicable). Clean the disc plate thoroughly.
3. Peel the backing from the new adhesive-backed sanding disc.
4. Carefully align the new disc with the disc plate and press firmly from the center outwards to avoid air bubbles.

4.4. Sanding Techniques

- **Belt Sanding:** Use for edge sanding, shaping, and removing material quickly. Always sand with the grain of the wood.
- **Disc Sanding:** Ideal for end grain sanding, bevels, and curves. Always work on the downward-rotating side of the disc to prevent the workpiece from being thrown upwards.
- **Workpiece Pressure:** Apply light, even pressure. Excessive pressure can overload the motor, burn the workpiece, and reduce abrasive life.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your sander.

- **Cleaning:** After each use, disconnect power and clean all dust and debris from the sander, especially around the motor vents, belt, and disc areas. Use compressed air or a brush.
- **Lubrication:** Refer to the lubrication schedule in the original manual for specific points and types of lubricant. Generally, moving parts and bearings may require periodic lubrication.
- **Belt and Disc Replacement:** Replace sanding belts and discs when they become worn, torn, or lose their abrasive quality. Worn abrasives can cause burning and inefficient sanding.
- **Inspection:** Periodically inspect the power cord for damage, check all fasteners for tightness, and examine guards for proper function.

6. TROUBLESHOOTING

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

- **Sander Not Starting:**
 - Check power connection and circuit breaker.

- Ensure the ON/OFF switch is fully engaged.
- Inspect power cord for damage.
- **Excessive Vibration:**
 - Check if the sander is securely mounted.
 - Inspect sanding belt/disc for damage or improper installation.
 - Ensure all fasteners are tight.
- **Poor Sanding Results / Burning Wood:**
 - Replace worn sanding belt/disc.
 - Reduce workpiece pressure.
 - Ensure proper dust collection to prevent abrasive loading.
- **Belt Tracking Issues:**
 - Adjust the belt tracking knob until the belt runs centrally.
 - Check belt tension.
 - Inspect belt for damage or stretching.

For issues not covered here, refer to the detailed troubleshooting section in the original manual or contact customer support.

7. SPECIFICATIONS

Feature	Detail
Number of Pages	12
Language	English
Publisher	Ozark Tool Manuals
Publication Date	January 1, 1900
Item Weight (Manual)	8 ounces
ASIN	B01B6KUXPE

8. PARTS LIST AND DIAGRAMS

This manual includes a comprehensive parts list with corresponding exploded view diagrams. These diagrams illustrate the assembly of the POWERMATIC Model 30 and 33 Sanders, allowing for easy identification of individual components. When ordering replacement parts, always refer to the part numbers provided in this section to ensure compatibility.

The parts list covers all major assemblies, including the belt mechanism, disc assembly, motor components, and the vacuum system. Detailed illustrations help in understanding the correct placement and orientation of each part during assembly or repair.

9. WARRANTY AND SUPPORT

Specific warranty information for the POWERMATIC Model 30 and 33 Sanders would typically be provided with the original purchase documentation or directly by the manufacturer. As this document is a reproduction of an operator's and parts manual, it does not contain current warranty details.

For technical support, service, or warranty claims, please contact POWERMATIC customer service or an authorized service center. Ensure you have your sander's model number and serial number available when seeking assistance.