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> Milwaukee 5625-20 15 Amp 3-1/2-Horsepower Fixed Base Variable Speed Router with T-Handle Height Adjustment Wrench and 1/2-Inch Collet

Milwaukee 5625-20

Milwaukee 5625-20 Fixed Base Variable Speed Router User Manual

Model: 5625-20

INTRODUCTION

The Milwaukee 5625-20 is a heavy-duty, 3-1/2-horsepower fixed-base production router designed for precision woodworking tasks. It features a powerful 15 Amp motor with electronic variable speed control, ensuring consistent performance under load. This router is suitable for both freehand operation and integration into a router table, offering advanced features like a linear height adjustment system for precise depth control.

SAFETY INFORMATION

Always observe basic safety precautions when operating power tools to reduce the risk of fire, electric shock, and personal injury. Read and understand all instructions before operating the router.

- **Electrical Safety:** Ensure the power source matches the tool's requirements (120 Volts, 15 Amps). Do not expose power tools to rain or wet conditions.
- **Personal Safety:** Always wear eye protection, hearing protection, and a dust mask. Secure workpiece firmly. Avoid accidental starting.
- **Tool Use and Care:** Do not force the tool. Use the correct tool for your application. Disconnect the plug from the power source before making any adjustments, changing accessories, or storing the tool.
- **Work Area:** Keep the work area clean and well-lit. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.

COMPONENTS AND CONTROLS



Figure 1: Milwaukee 5625-20 Fixed Base Variable Speed Router. This image shows the router with its red motor housing, gray base, and black handles. Key features visible include the speed control dial and the RPM chart.

The Milwaukee 5625-20 router is designed with user-friendly controls for efficient operation:

- **Variable Speed Dial:** Located on the motor housing, this dial allows adjustment of the rotational speed from 10,000 to 22,000 RPM. The dial positions correspond to specific RPM ranges as indicated on the integrated chart (Figure 2).



Figure 2: Close-up view of the speed control dial and RPM chart. The chart displays RPM values (10,000 to 22,000) corresponding to dial positions (1 to 7).

- **Linear Height Adjustment System:** This system provides precise depth control. Coarse adjustments can be made to within 1/8-inch, and micro-fine adjustments to within 1/64-inch using a knob or T-handle wrench, often accessible from above a router table.
- **Handles:** Ergonomically designed handles provide a secure grip and control during freehand routing.
- **Collet:** The router comes with a 1/2-inch collet for securing router bits.
- **Power Cord:** A durable 8-foot power cord provides ample reach.

SETUP

1. **Unpacking:** Carefully remove the router and all accessories from the packaging. Verify that all included components are present: router unit, 2 collet wrenches, T-handle wrench, 2-1/2-inch sub-base, and 1/2-inch collet.
2. **Power Connection:** Ensure the router is unplugged before any assembly or adjustment. Connect the router to a standard 120V AC power outlet.
3. **Collet and Bit Installation:**
 - Insert the desired router bit into the 1/2-inch collet.
 - Tighten the collet nut securely using the provided collet wrenches. Ensure the bit is fully seated but not bottomed out.
4. **Sub-Base Attachment:** Attach the 2-1/2-inch sub-base to the router base if not already installed. Ensure it is securely fastened.
5. **Router Table Mounting (Optional):** If using with a router table, follow the table manufacturer's instructions for mounting. The router's design allows for above-table adjustments.

OPERATING INSTRUCTIONS

1. **Power On/Off:** The router features a soft start mechanism for smooth power-up, reducing torque reaction. Use the heavy-duty 22 Amp switch to turn the unit on and off.
2. **Setting Speed:**
 - Rotate the variable speed dial to select the desired RPM. Match the tool RPM to the bit diameter and material being routed.
 - The electronic feedback circuitry maintains speed and power under load for consistent results.
3. **Adjusting Depth:**
 - **Coarse Adjustment:** For quick, larger depth changes, use the linear height adjustment system. This allows adjustments to within 1/8-inch.
 - **Micro-Fine Adjustment:** For precise depth setting, use the fine adjustment knob or T-handle wrench to achieve accuracy within 1/64-inch. This is particularly useful for critical routing operations.
 - When mounted in a router table, these adjustments are often accessible from above the table.
4. **Routing Operation:**
 - Ensure the workpiece is securely clamped.
 - Maintain a firm grip on the handles (for freehand use) or ensure the router is properly secured in a table.
 - Guide the router smoothly through the material, allowing the bit to cut efficiently.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Milwaukee router.

- **Cleaning:**

- After each use, disconnect the router from power and clean off dust and debris.
- Pay special attention to the switch area and ventilation openings to prevent dust accumulation, which can affect performance and lead to overheating. Use compressed air to clear dust from internal components.

- **Lubrication:**

- Periodically inspect and lubricate the height adjustment mechanism to ensure smooth operation. Refer to the full user manual for specific lubrication points and recommended lubricants.

- **Inspection:**

- Regularly check the power cord for damage.
- Inspect the collet and collet nut for wear or damage. Replace if necessary to ensure proper bit retention.
- Ensure all fasteners are tight.

- **Storage:** Store the router in a clean, dry place, out of reach of children.

TROUBLESHOOTING

This section addresses common issues you might encounter with your Milwaukee 5625-20 router. For more detailed troubleshooting, consult the official user manual.

Problem	Possible Cause	Solution
Router does not start or loses power.	No power to outlet, damaged power cord, faulty switch, excessive dust in switch.	Check power supply. Inspect cord for damage. Clean switch area thoroughly. If problem persists, seek professional service.
Motor burns out or overheats.	Overloading the router, insufficient ventilation, prolonged heavy use, dust accumulation.	Reduce load on the router. Ensure ventilation ports are clear. Allow tool to cool. Clean internal components regularly, especially if working with dusty materials like MDF.
Bit difficult to release from collet.	Collet or collet nut is dirty/damaged, bit is stuck due to overtightening or debris.	Clean collet and collet nut. Ensure proper tightening procedure is followed (do not overtighten). If necessary, replace collet assembly.
Height adjustment is stiff or not smooth.	Accumulation of dust or debris in the adjustment mechanism, lack of lubrication.	Clean the height adjustment system thoroughly. Apply appropriate lubricant as per manufacturer's recommendations.

SPECIFICATIONS

Brand	Milwaukee
Model Number	5625-20

Power Source	Corded Electric
Voltage	120 Volts
Amperage	15 Amps
Horsepower	3.5 hp (Max)
Maximum Rotational Speed	22,000 RPM
Base Type	Fixed Base
Item Weight	14.6 pounds
Product Dimensions	2.5"W x 9.25"H
Included Components	Router, 2 Collet Wrenches, T-Handle Wrench, 2-1/2" Sub-Base, 1/2" Collet

WARRANTY INFORMATION

The Milwaukee 5625-20 Fixed Base Variable Speed Router is covered by a **5-year manufacturer's warranty**. This warranty covers defects in material and workmanship under normal use and service. For specific terms, conditions, and claim procedures, please refer to the official warranty documentation provided with your product or contact Milwaukee customer service.

SUPPORT

For further assistance, detailed instructions, or to download a digital copy of the complete user manual, please refer to the official documentation. A PDF version of the user manual is available at: [Milwaukee 5625-20 User Manual \(PDF\)](#). For technical support or service inquiries, please contact Milwaukee customer service directly.