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## BOSCH PR20EVS

# BOSCH Colt 1-Horsepower 5.6 Amp Electronic Variable-Speed Palm Router PR20EVS & 6 pc. Carbide-Tipped Trim and Edging Router Bit Set User Manual

Model: PR20EVS | Brand: BOSCH

## 1. INTRODUCTION AND OVERVIEW

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your BOSCH Colt 1-Horsepower 5.6 Amp Electronic Variable-Speed Palm Router (Model PR20EVS) and the accompanying 6-piece Carbide-Tipped Trim and Edging Router Bit Set. The PR20EVS Colt Palm Router features a 1.0 Horse Power 5.6 amp variable speed motor with speeds ranging from 16,000 to 35,000 RPM, offering versatility for various routing tasks. Its rugged aluminum fixed base ensures durability and precision, while unique finger support pockets enhance stability, especially during edge trimming. The included router bit set is designed for precision and durability, suitable for finishing in a wide range of edging applications, and can process soft wood, hard wood, and wood composites.

## 2. SAFETY INSTRUCTIONS

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

- **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:** Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with grounded power tools. Avoid body contact with grounded surfaces such as pipes, radiators, ranges, and refrigerators.
- **Personal Safety:** Always wear eye protection. Use hearing protection when operating for extended periods. Dress properly; do not wear loose clothing or jewelry. Keep hair, clothing, and gloves away from moving parts.

- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools.
- **Router Bit Safety:** Ensure router bits are securely installed before operation. Use only bits designed for the router's speed and application. Inspect bits for damage before each use.

### 3. COMPONENTS AND FEATURES



*This image displays the BOSCH Colt PR20EVS Palm Router on the left, featuring its blue and grey housing, red power switch, and adjustable base. To the right, a set of six carbide-tipped router bits are shown, along with an Allen wrench and two bearings, which are part of the trim and edging router bit set.*

#### Key Features:

- **1.0 Horse Power 5.6 Amp Motor:** Provides ample power for various routing applications.
- **Variable Speed Control:** Adjusts from 16,000 to 35,000 RPM for optimal control across different materials and bit types.
- **Rugged Aluminum Fixed Base:** Ensures durability, stability, and precise routing.
- **Finger Support Pockets:** Designed for enhanced stability and control, particularly when trimming edges.

- **Angled Cord Exit:** Keeps the power cord out of the way during operation.
- **6-Piece Carbide-Tipped Trim and Edging Router Bit Set:** Versatile bits for finishing in a wide range of edging applications, suitable for soft wood, hard wood, and wood composites.

## 4. SETUP

### 4.1. Unpacking and Inspection:

Carefully remove all contents from the packaging. Inspect the router and all accessories for any signs of damage. If any damage is found, do not operate the tool and contact customer service.

### 4.2. Installing a Router Bit:

1. Ensure the router is unplugged from the power source.
2. Press and hold the spindle lock button.
3. Insert the shank of the desired router bit into the collet. Ensure the bit is inserted as far as possible to provide maximum grip and minimize runout.
4. While holding the spindle lock, use the collet wrench to tighten the collet nut securely. Do not overtighten.
5. Release the spindle lock.

### 4.3. Adjusting Depth:

1. Place the router on a flat surface with the bit touching the surface.
2. Loosen the base clamp lever.
3. Adjust the router body up or down until the desired bit depth is achieved using the depth scale.
4. Tighten the base clamp lever firmly to secure the depth setting.

## 5. OPERATING INSTRUCTIONS

### 5.1. Powering On/Off:

To turn the router ON, slide the red power switch to the 'I' position. To turn it OFF, slide the switch to the 'O' position.

### 5.2. Adjusting Variable Speed:

The router features a variable speed dial. Rotate the dial to select the appropriate RPM for your material and bit type. Lower speeds are generally used for larger diameter bits, harder materials, or when more control is needed. Higher speeds are suitable for smaller bits and softer materials.

### 5.3. Routing Techniques:

- **Workpiece Securement:** Always secure your workpiece firmly with clamps before routing to prevent movement.

- **Direction of Feed:** For most operations, feed the router against the rotation of the bit. This provides better control and a cleaner cut.
- **Multiple Passes:** For deeper cuts, make several shallow passes instead of one deep pass. This reduces strain on the tool and bit, and improves cut quality.
- **Edge Trimming:** Utilize the straight edge guide (if applicable) or the router's base to maintain a consistent distance from the edge of the workpiece. The finger support pockets can aid in stability during this process.

## 6. MAINTENANCE

### 6.1. Cleaning:

After each use, unplug the router and use a brush or compressed air to remove dust and debris from the motor vents and base area. Do not use solvents or harsh chemicals.

### 6.2. Router Bit Care:

- Clean bits regularly to remove resin and pitch buildup, which can cause overheating and poor cuts.
- Store bits in a protective case to prevent damage to the cutting edges.
- Replace dull or damaged bits immediately to ensure safe and effective operation.

### 6.3. Cord Inspection:

Periodically inspect the power cord for any cuts, abrasions, or damage. If damaged, have it repaired by a qualified service technician.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Router does not start.	No power supply; Power switch off; Damaged cord.	Check power outlet and circuit breaker; Ensure switch is ON; Inspect and repair cord.
Excessive vibration.	Loose router bit; Damaged or unbalanced bit; Worn bearings.	Ensure bit is securely tightened; Replace damaged bit; Contact service for bearing replacement.
Poor cut quality / Burning wood.	Dull bit; Incorrect feed rate; Incorrect speed setting.	Replace or sharpen bit; Adjust feed rate (slower for harder wood); Adjust speed setting.
Router overheats.	Blocked ventilation slots; Overloading the tool; Dull bit.	Clean ventilation slots; Reduce depth of cut or feed rate; Replace dull bit.

## 8. SPECIFICATIONS

Specification	Value
Brand	BOSCH
Model	PR20EVS
Power Source	Corded Electric
Horsepower	1 hp
Amperage	5.6 Amps
Maximum Rotational Speed	35000 RPM
Base Type	Fixed
Material	Aluminum

## 9. WARRANTY AND SUPPORT

BOSCH power tools are manufactured to the highest quality standards and undergo rigorous testing. For specific warranty information, please refer to the warranty card included with your product or visit the official BOSCH website. For technical support, service, or to order replacement parts, please contact BOSCH customer service. An official User Manual (PDF) is also available for download: [BOSCH Colt PR20EVS User Manual PDF](#)