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Oakland RM-1812

Oakland RM-1812 Industrial Router User Manual

Model: RM-1812 | Brand: Oakland

1. INTRODUCTION

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your Oakland RM-1812 Industrial Router. Please read all instructions carefully before using the tool to ensure personal safety and optimal performance.

The Oakland RM-1812 Router is a powerful 3 HP industrial tool designed for precision routing tasks in various materials, primarily wood. It features a versatile collet system accommodating both 1/2-inch and 1/4-inch shank router bits, and variable speed control for adapting to different applications.

2. SAFETY INSTRUCTIONS

WARNING: Always follow basic safety precautions to reduce the risk of fire, electric shock, and serious personal injury.

- **Read the Manual:** Familiarize yourself with the controls and proper use of the router.
- **Wear Eye Protection:** Always wear safety goggles or safety glasses with side shields.
- **Wear Hearing Protection:** Prolonged exposure to noise from power tools can cause hearing damage.
- **Secure Workpiece:** Always clamp or otherwise secure the workpiece to prevent movement during operation.
- **Keep Work Area Clean:** Cluttered areas invite accidents.
- **Avoid Dangerous Environments:** Do not use power tools in damp or wet locations, or expose them to rain.
- **Use the Right Tool:** Do not force the tool or attachment to do a job for which it was not designed.
- **Disconnect Power:** Always disconnect the router from the power source before making adjustments, changing accessories, or performing maintenance.

- **Maintain Tools with Care:** Keep cutting tools sharp and clean for better and safer performance.
- **Check for Damaged Parts:** Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function.

3. PRODUCT COMPONENTS

The Oakland RM-1812 Industrial Router comes with the following main components:



Figure 3.1: Front view of the Oakland RM-1812 Industrial Router, showing the motor housing, handles, and plunge base assembly.



Figure 3.2: The Oakland RM-1812 Industrial Router with its base attached, highlighting the collet area and depth adjustment mechanism.



Figure 3.3: View of the router emphasizing the ergonomic handles for comfortable and controlled operation.



Figure 3.4: Side profile of the Oakland RM-1812 Industrial Router, showing the motor housing and base attachment points.

- **Motor Housing:** Contains the powerful 3 HP electric motor.
- **Handles:** Ergonomically designed for comfortable grip and control.
- **Collet:** Secures the router bit. Compatible with 1/2-inch and 1/4-inch shank bits.
- **Base Assembly:** Provides stability and allows for depth adjustment.
- **Depth Adjustment Mechanism:** For precise control over cutting depth.
- **Power Switch:** On/Off control for the motor.

- **Variable Speed Control:** Dial or switch to adjust motor RPM.

4. SETUP

1. **Unpacking:** Carefully remove the router and all accessories from the packaging. Inspect for any shipping damage. Retain packaging for future transport or storage.
2. **Attaching Base (if separate):** If the base is not pre-attached, align it with the motor housing and secure it using the provided fasteners. Ensure it is firmly seated.
3. **Installing Router Bit:**
 - Ensure the router is unplugged from the power source.
 - Loosen the collet nut using the provided wrenches.
 - Insert the router bit into the collet, ensuring at least 3/4 of the shank is seated. Do not bottom out the bit.
 - Tighten the collet nut firmly with the wrenches. Do not overtighten.
4. **Adjusting Cutting Depth:**
 - Place the router on a flat surface or the workpiece.
 - Loosen the depth adjustment lock.
 - Lower the motor until the router bit touches the workpiece.
 - Set the desired depth using the depth scale or by eye.
 - Tighten the depth adjustment lock securely.

5. OPERATING INSTRUCTIONS

1. **Workpiece Preparation:** Securely clamp your workpiece to a stable workbench. Ensure there are no obstructions in the routing path.
2. **Power Connection:** Plug the router into a suitable electrical outlet. Ensure the power switch is in the "OFF" position before plugging in.
3. **Speed Selection:** Adjust the variable speed control to the appropriate RPM for your material and router bit. Harder materials and larger bits generally require lower speeds.
4. **Starting the Router:** Hold the router firmly with both hands. Turn the power switch to the "ON" position. Allow the motor to reach full speed before engaging the workpiece.
5. **Routing Technique:**
 - Always feed the router into the workpiece against the rotation of the bit (climb cutting is generally unsafe for handheld routers).
 - Apply steady, even pressure. Do not force the router.
 - For deep cuts, make multiple passes, increasing the depth with each pass.
 - Maintain control of the router at all times.
6. **Stopping the Router:** Lift the router clear of the workpiece. Turn the power switch to the "OFF" position. Wait for the bit to stop rotating completely before setting the tool down.

6. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your Oakland RM-1812 Router.

- **Cleaning:** After each use, disconnect the power and clean the router. Use a soft brush or compressed air to remove dust and debris from the motor vents, collet area, and base. Do not use solvents that could damage plastic parts.
- **Collet Care:** Keep the collet and collet nut clean and free of resin buildup. Periodically clean them with a suitable solvent to ensure proper bit gripping. Replace worn or damaged collets.
- **Power Cord Inspection:** Regularly inspect the power cord for cuts, abrasions, or damage. If damaged, have it repaired by a qualified service technician.
- **Brush Inspection (if applicable):** If your router uses carbon brushes, inspect them periodically for wear. Replace both brushes when one is worn down to approximately 1/4 inch (6mm) or less. Refer to a service center for brush replacement if unsure.
- **Lubrication:** This tool is typically lubricated for life and does not require additional lubrication.
- **Storage:** Store the router in a dry, secure location out of reach of children.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Router does not start.	No power supply; faulty power cord; faulty switch.	Check power outlet and cord. Ensure switch is ON. If problem persists, seek professional service.
Excessive vibration.	Loose router bit; bent router bit; worn bearings.	Ensure bit is securely tightened. Replace bent bits. If bearings are worn, seek professional service.
Motor overheats.	Overloading the tool; blocked ventilation slots.	Reduce feed rate or depth of cut. Clean ventilation slots. Allow tool to cool.
Poor cut quality.	Dull router bit; incorrect speed; improper feed rate.	Replace or sharpen bit. Adjust speed and feed rate according to material.

8. SPECIFICATIONS

- **Model:** RM-1812
- **Brand:** Oakland
- **Power:** 3 Horsepower (HP)
- **Power Source:** Electric
- **Collet Size:** 1/2 inch and 1/4 inch (via adapter, if included)
- **Manufacturer:** OAKLAND
- **Components Included:** 1 (Router unit)

9. WARRANTY AND SUPPORT

This Oakland RM-1812 Industrial Router is covered by a manufacturer's warranty against defects in materials and workmanship. The specific terms and duration of the warranty may vary by region and retailer. Please retain your proof of purchase for warranty claims.

For technical support, service, or warranty inquiries, please contact your authorized Oakland dealer or the

manufacturer's customer service department. Contact information can typically be found on the product packaging or the official Oakland website.

Always refer to official channels for the most accurate and up-to-date support information.

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