O'SKOOL RTS05

O'SKOOL Router Lift System RTS05

INSTRUCTION MANUAL

1. Introduction

This manual provides detailed instructions for the safe and effective installation, operation, and maintenance of your O'SKOOL Router Lift System, model RTS05. Please read this manual thoroughly before using the product to ensure proper function and to prevent injury or damage. Keep this manual for future reference.

2. Safety Information

Always observe basic safety precautions when using power tools and accessories. Failure to follow these instructions may result in serious injury or property damage.

- **Read all instructions:** Familiarize yourself with the router lift and your router's manual before operation.
- **Wear appropriate safety gear:** Always use eye protection, hearing protection, and a dust mask.
- **Ensure a stable work environment:** Operate the router lift on a stable, level surface.
- **Disconnect power:** Always unplug the router from the power source before making any adjustments, changing bits, or performing maintenance.
- **Keep work area clean:** Cluttered areas invite accidents.
- **Use correct insert rings:** Match the insert ring opening to the router bit diameter to minimize gaps.
- **Secure router:** Ensure the router motor is securely clamped in the lift carriage before operation.

3. Package Contents

Verify that all items listed below are included in your package. If any parts are missing or damaged, contact O'SKOOL customer support.

- O'SKOOL Router Lift System (Main Assembly)
- Insert Plate (9-1/4" x 11-3/4" x 3/8" aluminum)
- 5-Piece Insert Ring Kit (3/8", 1", 1-1/4", 1-7/8", 2-5/8")
- Crank Handle
- Hex Keys (for adjustments)

- Mounting Screws
- Insert Ring Wrench



Figure 3.1: All components included with the O'SKOOL Router Lift System.

4. Specifications

Feature	Specification
Model Number	RTS05
Insert Plate Dimensions	11-3/4" x 9-1/4" x 3/8"
Plate Material	CNC Machined 3/8" Solid Aluminum

Feature	Specification
Router Motor Carriage Diameter	3-1/2"
Height Adjustability Range	3 inches
Height Adjustment Pitch	20 teeth per inch (0.05 inches per revolution)
Minimum Adjustment Increment	1/1000 of an inch (with zeroing index ring)
Insert Ring Sizes	3/8", 1", 1-1/4" (guide bushing compatible), 1-7/8", 2-5/8"
Item Weight	12.42 pounds (5.65 kg)
Compatible Router Models	Porter Cable 690/890, DeWalt 610/616/618, Bosch 1617/1618, Craftsman 1754X/28190/28084, Skil RT1322-00

5. Setup

5.1 Insert Plate Installation and Leveling

The O'SKOOL Router Lift features a precision CNC machined 3/8" solid aluminum insert plate designed for exceptional flatness. Its dimensions are 11-3/4" x 9-1/4", accommodating most commercial router tables.



Figure 5.1: Router plate dimensions.

To install the plate into your router table opening:

1. Place the router lift assembly into the router table opening.
2. Use the 10 integrated set screws located around the perimeter of the plate to precisely level the plate flush with your router table surface. Adjust each screw until the plate is perfectly even.
3. Utilize the 3 locking cam wheels to eliminate any gaps between the insert plate and the router table opening. Rotate the cam wheels to secure the plate in place, ensuring a consistent mounting position.



Figure 5.2: Plate features including cam wheels and leveling screws.

5.2 Router Motor Installation

This router lift is designed for 3-1/2" diameter router motors and is compatible with popular models such as Porter Cable 690/890, DeWalt 610/616/618, Bosch 1617/1618, and Craftsman 1754X/28190/28084, Skil RT1322-00.



Figure 5.3: Compatible router models.

To install your router motor:

1. Ensure the router is unplugged from the power source.
2. Loosen the clamp block on the router lift carriage.
3. Insert your 3-1/2" diameter router motor into the carriage.
4. Tighten the clamp block securely to hold the router motor firmly in place. Ensure the router is centered and stable.



Figure 5.4: Router motor securely installed in the lift.



Figure 5.5: Detail of the clamp block for quick router motor clamping.

6. Operation

6.1 Height Adjustment

The router lift offers a 3-inch height adjustability range, allowing for convenient router bit changes and precise depth settings from above the table.

- **Crank Handle:** Insert the crank handle into the designated opening on the top plate. Rotate the handle clockwise to lower the router and counter-clockwise to raise it.
- **Precision Adjustment:** The height adjustment screw has a pitch of 20 teeth per inch, meaning each full revolution adjusts the height by 0.05 inches.
- **Zeroing Index Ring:** The integrated zeroing index ring features a 50-angle scale, enabling fine adjustments as small as 1/1000 of an inch. This allows for highly accurate depth settings.
- **Height Screw Locking Device:** After setting the desired height, engage the locking device to prevent any minimal movement caused by router vibrations, ensuring consistent cutting depth throughout your work.

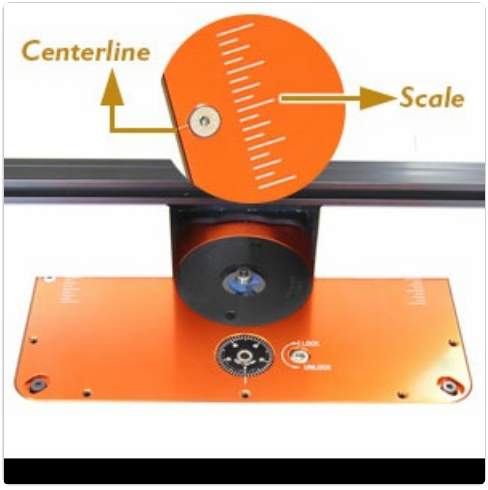


Figure 6.1: Height adjustment dial and locking mechanism.

6.2 Insert Ring Usage

The router lift includes a 5-piece insert ring kit to provide optimal stock support for various router bit sizes. The sizes are 3/8", 1", 1-1/4" (compatible with guide bushings), 1-7/8", and 2-5/8".

1. Select the insert ring that best matches the diameter of your router bit. This minimizes the opening around the bit, improving dust collection and workpiece support.
2. Place the selected insert ring into the center opening of the router plate.
3. Use the provided insert ring wrench to remove or install the rings as needed.



Figure 6.2: The 5-piece insert ring kit.

7. Maintenance

Regular maintenance ensures the longevity and optimal performance of your O'SKOOL Router Lift System.

- **Cleaning:** After each use, clean the router lift and plate to remove sawdust and debris. Use a soft brush or compressed air. Avoid using harsh chemicals that could damage the aluminum finish.
- **Lubrication:** Periodically apply a small amount of dry lubricant (e.g., PTFE spray) to the lead screw and guide rods to ensure smooth operation of the lift mechanism. Do not over-lubricate, as this can attract dust.
- **Inspection:** Regularly inspect all screws, bolts, and moving parts for tightness and wear. Tighten any loose fasteners. Replace any worn or damaged components immediately.

8. Troubleshooting

This section addresses common issues you might encounter with your router lift.

Problem	Possible Cause	Solution
Router lift mechanism is stiff or difficult to turn.	Lack of lubrication; accumulation of sawdust/debris; lead screw or guide rods are dirty.	Clean the lead screw and guide rods thoroughly. Apply a dry lubricant. Ensure no debris is obstructing movement.
Router plate is not flush with the router table surface.	Leveling screws are not properly adjusted.	Adjust the 10 set screws around the perimeter of the plate until it is perfectly flush with the table surface.

Problem	Possible Cause	Solution
Gaps between the insert plate and the router table opening.	Cam wheels are not engaged or tightened.	Rotate the 3 locking cam wheels to eliminate gaps and secure the plate.
Router motor is loose in the carriage.	Clamp block is not tightened sufficiently.	Ensure the clamp block is securely tightened around the router motor. Verify the router motor diameter is 3-1/2 inches.
Inaccurate height adjustments.	Height screw locking device is not engaged; excessive vibration.	Engage the height screw locking device after setting the desired depth. Ensure the router is running smoothly.

9. Warranty and Support

O'SKOOL products are manufactured to high-quality standards. For warranty information, technical support, or to inquire about replacement parts, please contact O'SKOOL customer service through the retailer where the product was purchased or visit the official O'SKOOL website. Please have your model number (RTS05) and purchase date available when contacting support.

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Answered questions about this manual

Is the O'SKOOL RTS05 Router Lift compatible with the Bosch RA1181 or RA1188 router table?

Compatibility for the O'SKOOL RTS05 Router Lift depends on two factors: the router motor diameter and the table's plate opening dimensions.Router Motor Compatibility: The RTS05 is explicitly compatible with Bosch 1617 and 1618 router...

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