

INCRA Mast-R-Lift™ II R

User Manual

For Rockler Tables

Model #02121



Thank you for choosing this Special Edition™ INCRA Mast-R-Lift™ II from JessEm Tool Company. We appreciate your support and hope that our product serves you well. This product is designed to provide many years of reliable service provided it is used as intended and taken care of.

This user manual will assist you in assembly and general operation of this product. It is not our intent to teach you about woodworking. It is assumed that you are an experienced woodworker with the basic skills and experience necessary to use this product safely. If after reading the following instructions, if you are unsure or uncomfortable about safely using this product we urge you to seek additional information through widely available woodworking books or classes.

Suggested Router Bit Speeds

Bit Diameter	Max. Speed
1" (25mm)	24,000 RPM
1-1/4" - 2" (30-50mm)	18,000 RPM
2-1/4" - 2-1/2" (55-65mm)	16,000 RPM
3" - 3-1/2" (75-90mm)	12,000 RPM

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IMPORTANT!

Read and understand the contents of this manual before assembly or operation of this product.

As part of our Continuous Product Improvement Policy, JessEm products are always advancing in design and function. Therefore there may be differences between what is shown in our catalogs, website or at retail display and what is sold at time of purchase. We reserve the right to make positive changes to our products at our discretion.

CONTENTS:

- 1 - INCRA Mast-R-Lift™ II
- 1 - Height Adjustment Handle
- 12 - 1/4-28 x 1/4" Leveling Set Screws
- 1 - Starter Pin

Also includes:

- 5 - Magna Lock Insert Rings
- 1 - 3/32" Hex Key
- 1 - 1/8" Hex Key
- 1 - 3/16" Hex Key

IMPORTANT SAFETY PRECAUTIONS

- Before operating any router, read and understand all safety instructions in the owner's manual that came with the router.
- If you do not have a manual, contact the manufacturer and obtain one before using any power tool.
- Always wear eye protection in compliance with ANSI safety standards when operating any power tool.
- Always use proper guards and safety devices when operating power tools and machinery.
- Carefully check router bits before each use. Do not use if damage or defect is suspected.
- Do not exceed the recommended RPM for any router bit.
- Do not wear loose clothing or jewelry that may catch on tools or equipment.
- Unplug the tool or machine when mounting or making any adjustments to mechanical performance.

DO NOT USE A CORDLESS DRILL TO RAISE AND LOWER THE LIFT CARRIAGE. THE AMOUNT OF FRICTION WILL CAUSE PREMATURE WEAR OF THE THREADS AND WILL VOID WARRANTY

ROUTER SAFETY PRECAUTIONS

- Never force the bit or overload the router beyond the expectations of the tool.
- Be sure that at least 3/4 of the shank length is inserted securely in the router collet.
- Never bottom out the bit in the collet. Allow 1/8" clearance between shank and bottom of collet.
- Always make sure the fence on your router table is locked into position before each use.
- Always rout in two or more passes when large amounts of stock must be removed.
- Use reduced RPM speeds for large diameter bits.

INSTALLING THE ROUTER

Place the crank handle into the hex hole in the lift's dial on the top plate. Crank the lift carriage up so that it just contacts the O-rings at the top of the carriage shafts. The carriage should be all the way toward the top plate.



Figure 1

Before installing the router motor, prop the unit up on blocks of wood (Fig. 1) so the router's collet can extend through the center hole in the top plate. The motor housing must be able to slide all the way through and contact the inside back of the center hole on the plate.

1. With a 1/8" hex key, remove one of the 1/4" shoulder bolts from one of the clamping blocks and slide the clamping block on the carriage (Figure 2)

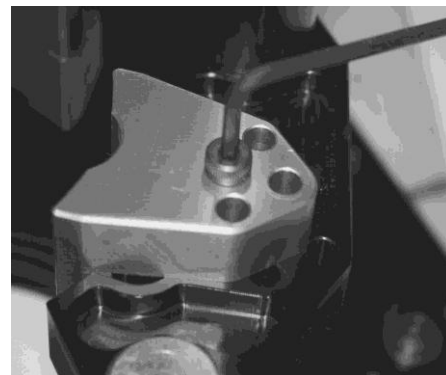


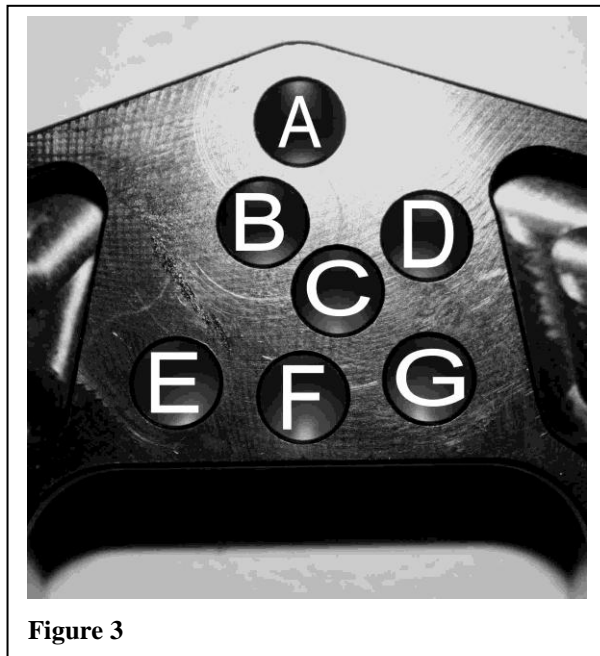
Figure 2

2. Locate your router on the chart below.
3. Align the letter and number associated with your router (Figures 3 and Figure 4) and reinsert and tighten the 1/4- x 1-1/2" Shoulder Bolt you removed in step 2.
4. Repeat this for all four carriage clamping blocks

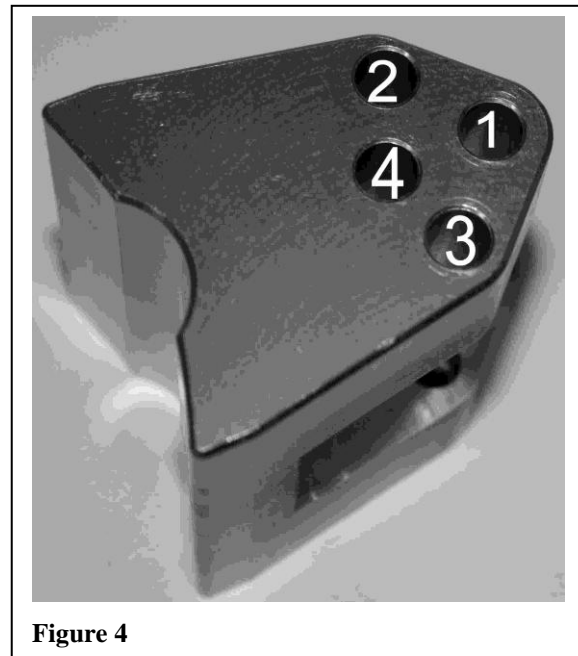
ROUTER CHART

Porter Cable 7518	A1
Porter Cable 690/890, Bosch 1617/1618, DeWalt 610/616/618, Craftsman 17543/17540/28190	F4
Makita 1101	C1
Hitachi M12VC/KM12VC	E2
Milwaukee 5626	D3
Milwaukee 5615/5616/5619	G3
Rigid R29302	B1

Carriage



Clamping Block



5. With the INCRA Mast-R-Lift II Crank Handle loosen the tensioning cap screw sufficiently to force the carriage to spread (Figure 5). This allows the router to be installed easily.

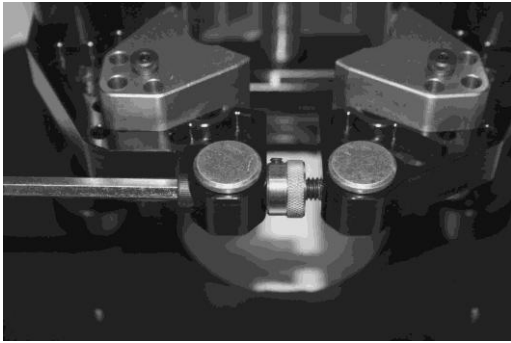


Figure 5

6. Now slide the router motor into the carriage so the top of the motor housing just makes contact with the inside surface of the center hole in the top plate (Figure 6)

Figure 6

7. Rotate the router so that when the final installation is made all router controls will be positioned for convenient access and there is no interference. Then back the motor off approx. 1/16" from contacting the top plate and tighten the cap screw on the carriage assembly.

Figure 7

8. With the INCRA Mast-R-Lift™ II Crank handle, re-tighten the tensioning cap screw. (Figure 7)

LEVELING THE LIFT IN THE TABLE TOP

1. For Rockler Table installations, pre-install the (8) Plate Leveling Screws provided with your Rockler Table, then level the plate by turning the screws from the underside of the table. (Figure 8)

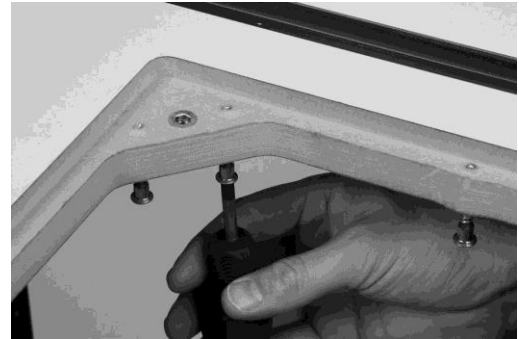


Figure 8

LEVELING THE MAST-R-LIFT™ II IN A CUSTOM ROUTER TABLE APPLICATION

For custom made router table applications, use the provided 1/4-28 x 1/4" socket set screws through the threaded holes around the perimeter of the plate to level it to your table top. (Figure 9)



Figure 9



Figure 10

SECURING THE PLATE IN YOUR TABLE OPENING

After leveling the plate, use the provided 1/4-20 x 3/4" Phillips Flat Head Screws to secure the Plate to the (2) pre-threaded holes in your Rockler Router Table Top, (Figure 10). For custom applications, use the adjustable snigger bars mounted to the underside of the plate to create a snug fit in the table opening. Use the 3/16" hex key provided to loosen the cap screws on the snigger bars. Move the bars out slightly and check for fit. Adjust again if necessary. (Figure 11)



Figure 11

INCRA MagnaLOCK Ring Inserts

Your Special Edition INCRA Mast-R-Lift™ II comes with (5) MagnaLOCK Ring Inserts. To remove the ring, slide the 3/32" hex key into the angled hole located on one edge of the plate and lift up. DO NOT push down on the hex key as this can mar the surface of the router plate, (Figure 12). See the included addendum for additional info on using and adjusting the MagnaLOCK Ring Inserts.



Figure 12

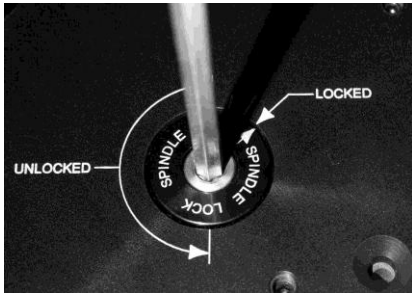
USING YOUR INCRA MAST-R-LIFT™ II

To raise your router, turn the height adjustment handle clockwise. To lower, turn the handle counter-clockwise. Keep in mind that one complete revolution equals 1/16" of change. When your adjustment is complete, remove the handle and place somewhere off the work surface for safety. Refer to the chart below for fractional and decimal adjustments based on amount of revolutions made.

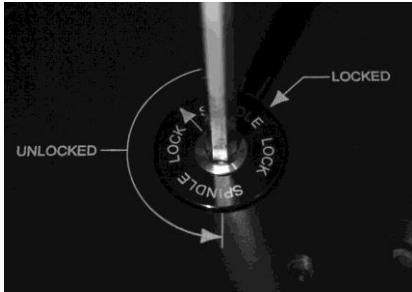
Fraction	Decimal	Number of Revolutions
1/64"	0.016"	1/4 Revolution
1/32"	0.031"	1/2 Revolution
1/16"	0.062"	1 Revolution
1/8"	0.125"	2 Revolutions
1/4"	0.250"	4 Revolutions
1/2"	0.500"	8 Revolutions

USING THE CAM LOCK ON YOUR INCRA MAST-R-LIFT™ II

With the INCRA Mast-R-Lift™ II you have the added benefit of locking your Lift in a desired position for long term routing operations and having the comfort in knowing the position you have set is locked in place.



To lock your lift turn lift handle clockwise to the "LOCKED" position



To unlock your lift turn lift handle counter-clockwise to the "UNLOCKED" position

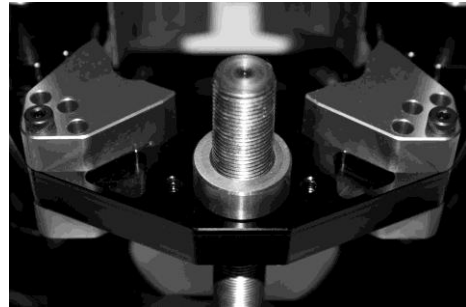


Figure 14

- Slide the carriage all the way down towards the top plate of your Mast-R-Lift™ II. (Figure 15)

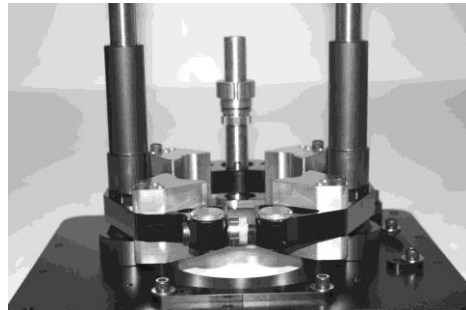


Figure 15

- Turn the carriage nut clockwise ensuring when you complete your adjustment that the slot in the carriage nut aligns with one of the slots on the antibracklash nut. (Figure 16)



Figure 16

- Slide the carriage back up ensuring the dowel pin in the carriage aligns with the slot in the carriage nut. (Figure 17)

RE-ADJUSTING THE THREAD TENSION

All JessEm Lifts feature our patented thread tensioning design. Thread tension is set at the factory and depending on the amount of use you may have to reset this adjustment periodically, depending on the amount of tension you desire.

If the bit height ever begins to change (or drop) during use, the thread tensioning likely needs to be reset.

- Turn the Lift upside down on a table with the threaded height adjustment rod facing you.
- Remove the 1/4-20 x 1" Cap Screws from the Carriage Nut Cover (Figure 13) and remove the cover and o-ring (Figure 14)

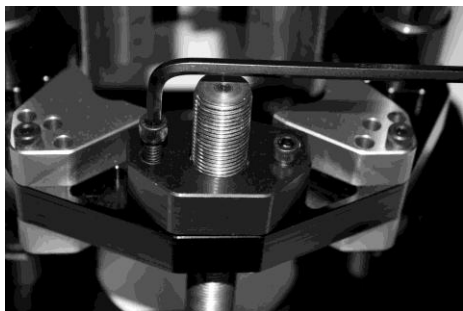


Figure 13

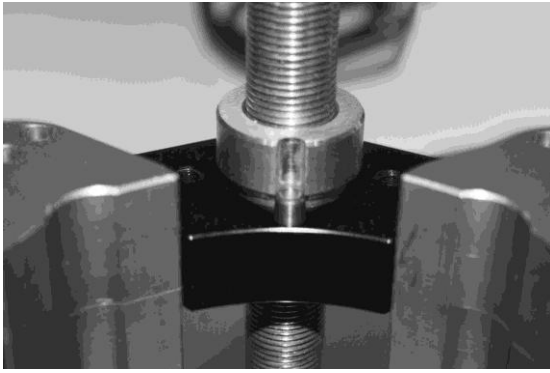


Figure 17

6. Place back the o-ring and carriage nut cap and with the screws you removed in Step 2 (Figure 13) fasten the carriage nut cap securely

JESSEM TOOL LIMITED WARRANTY

All JessEm products are warranted to be free from defects in material and workmanship. JessEm will repair or replace any product which upon inspection proves to be defective for a period of (1) year from dated receipt and proof of purchase. All warranty claims should be made direct to JessEm Tool Company. Contact JessEm for a warranty claim return authorization and instructions to proceed. The consumer is responsible for shipping costs to return product to JessEm Tool Company. We will repair or replace the product at our discretion and JessEm Tool will return shipment to you at no charge.

WARRANTY LIMITATIONS

This warranty does not cover:

- Repairs or alterations made or attempted by anyone other than JessEm Tool Company or an authorized JessEm service professional.
- Normal wear and tear
- Abuse, misuse or neglect.
- Improper care or maintenance.
- Continued use after partial failure.
- Products that have been modified in any way.
- Products used with improper accessories.
- Premature thread wear due to adjusting height with electric or cordless drill.