

THE BLUE RIPPER MITER MASTER™

Rail Saw



(Blade shown might not ship with saw or be available.)

Operation, Safety, and Instruction Manual

v20160420



TM

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Operating/Safety Instructions

IMPORTANT: Read Before Operating Equipment

To avoid accidents or injury, keep work area clean, well lit, and well ventilated.

Always wear eye, hand, and all other appropriate protective apparel when operating saw.

Keep all other people, children, and small farm animals away while operating saw.

Use only properly grounded, GFCI protected electrical outlet. GFCI must be tested every 2 months.

Warning: Do NOT turn machine on or off with the GFCI safety switch. Turn machine toggle switch off before resetting the GFCI.

Ensure that the electrical system in your work location meets all codes and regulations prior to operating saw.

Do not modify the plug on the saw or use any adapters between the saw and the electrical outlet.

Do not allow water to run directly on the motor or any other electrical component.

If power cord or any other part of the saw is damaged, discontinue use immediately until damaged parts can be replaced.

Keep saw blade clear of clothing, jewelry, hair, cords, hoses, or any other object while in operation.

Ensure that both motors are switched off before plugging or unplugging them.

Ensure that the blades are firmly fastened and spinning freely prior to operating.

Do not stand directly in front of or behind the saw while in operation.

Keep hands away from the blades while operating.

Never force the saw if it seems to be stuck or if it seems to be moving with difficulty.

Use only blades of correct size and shape. Do not modify blades.

Do not force bolts; most have been assembled with a threadlocking adhesive for safety.

Operating Instructions

Note: This saw is designed for stone and masonry applications exclusively. For optimal performance use only blades from Omega Diamond. We recommend that you use 5 or 6 inch blades with these machines.

Typical Operation:

Note: For most cutting operations, it is recommended that you lay your slab on top of a foam sheet at least 1" (3cm) thick or cut between two slats. (1.5" [4cm] foam is preferred for less crumbling).

- 1) Lay the rail on the slab along the line to be cut.
- 2) Allow the rails to overhang enough for the blade to clear the stone where you will begin and end your cut. It may be necessary to clamp the rails to the stone to prevent wandering. Clamp onto provided angle bolted to one side of rail.
- 3) Put the saw on the left side of the rail and plug the two grinders into separate GFCI protected circuits.
- 4) Adjust the two spindles so that the point at which the blades cross is at the top of the stone (see example illustration on page 4).
- 5) Verify the guards are in place and turn the water valves on and adjust to desired flow.
- 6) Turn saw on before blade touches the stone. Do not stand directly in front of or behind the blade while cutting.
- 7) Slowly begin your cut by pulling or pushing the saw into the stone using either handle on the baseplate (see page 4). You may need to apply pressure to the top of the saw to keep it from "climbing" out of the cut. **DO NOT use the arms, grinders, or the spindles to push or pull the saw!** Also, if you enter the cut too fast, the saw will bog down too far and may trip the electrical breakers, and can cause the blade to wander.
- 8) Once you have initiated the cut you must not go too slow or the diamonds on the blade will glaze over, and the cutting speed will drop dramatically. The speed of cut should be just below the point of bogging the motors. **USE EARMUFFS TO BE ABLE TO HEAR MOTORS.**

Example: On a 2 cm thick slab of Absolute Black granite try to maintain a cutting speed of about 4 fpm (1 meter per minute) or faster.



Adjust the two spindles so that the point at which the blades cross is at the top of the stone.



Cut by pulling or pushing to the **RIGHT**

For video examples of how to use the Blue Ripper Miter Master™ Rail Saw, go to our website omegadiamond.com and click on the videos link.

Troubleshooting

Blade seems to be cutting slowly or not cutting at all?

Suggestions: Make sure the blade is mounted to spin in the proper direction (See Spin Direction, pg 6).

The material being cut may have “loaded” or “glazed” the diamond. Use a dressing stone or “green stone” to free the diamond.

Blade binds or “freezes.”

Suggestions: The blade may be cutting at a slight angle. Check alignment. Make sure that the saw is rolling freely on the rails and the rails are not damaged or bent. Make sure that the motors are securely fastened to the mounting plate.

Saw shuts off after a few minutes of use and/or fails to turn on at all.

Suggestions: Check circuit breaker. If that is on and it still fails to start, the motor may have overheated and may need to be replaced.

Also check the brushes in the motor. If these are worn out you can either order them from us, directly from the motor manufacturer, or pick them up from your local hardware store.

Blade cuts too shallow / deep.

Suggestions: On the 2-3cm rated saw the supplied 5 inch blade will cut up to 3cm (1 1/8 inch) when new. On the 17mm rated saw the supplied 5 inch blade will cut up to 9mm tile. If you want to have a deeper cut, please purchase one of the 6 inch blades listed on page 9.

If the cut is too deep, please switch to a smaller blade.

If you have any questions please call us toll free:

1 (888) 996-4777

Spin Direction

Some of the supported motors have an arrow on the guard indicating the spin direction of the blade. If the spin direction of the blade is not indicated, then it may be safe to assume that it spins in a clockwise direction.

Replacement Parts

Is your blade worn out? Want a spare? Need extra rail? Give us a call and we will be happy to take your order.

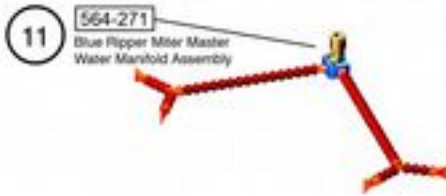
Toll Free: 1 (888) 996-4777

Fax: 1 (530) 885-3785

Web: OmegaDiamond.com

Email: sales@omegadiamond.com

Illustration Number Part Number



See omegadiamond.com/601-684 under Attached Files for the up to date Replacement Parts List.

Limited Warranty

For warranty information please visit our web site at omegadiamond.com/warranty

Please record the Date of Purchase and the Serial Number of your machine here for future reference:

Date of Purchase:

Serial Number:

USER NOTES:

NOTICE: *This product may have been field tested for quality control purposes.*

Blue Ripper Miter Master Rail Saw Manual

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*****WARNING*****

Not following all of these instructions and warnings included in this manual may result in Injury or Death. Omega Diamond, Inc. and all related Companies and personnel cannot be held responsible for any damages incurred by the installation, use, and/or maintenance of this product.

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