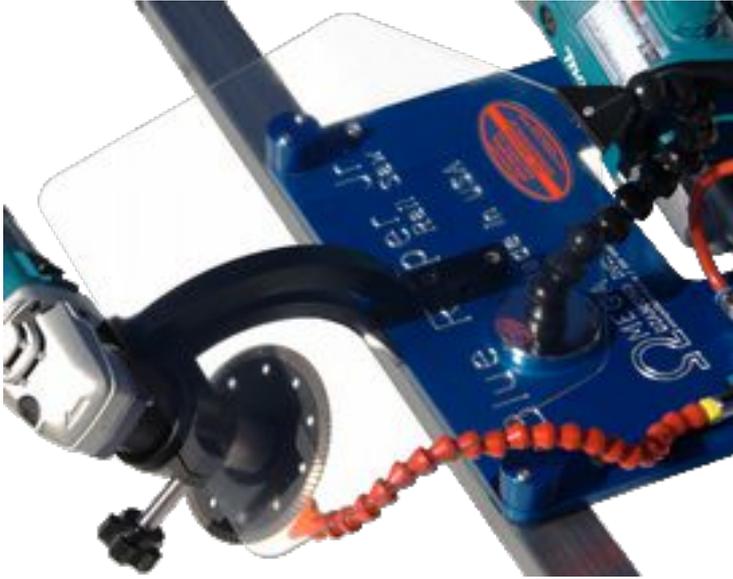


-EAGLE EDGER JR™

Linear Edge Add-on for the Blue Ripper Jr™



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

Operation, Safety, and Instruction Manual

v20150521



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Operating/Safety Instructions

IMPORTANT: Read, understand, and apply ALL safety instructions listed in the Blue Ripper Jr Manual.

DO NOT operate without water shield in place.

DO NOT bypass or use without a GFCI.

ALWAYS wear face, hand, and body protection.

Keep work area clean and clear.

Assembly

Mounting to your Blue Ripper Jr (BRJR)

A: If your Blue Ripper Jr was manufactured before January 1, 2009

(if your saw was manufactured after January 1, skip to part B.)

You will need the tap kit (AC-EEJR-KIT) for drilling and tapping two holes in the BRJR Baseplate, and for upgrading the water feed to your saw.

Drilling and Tapping the BRJR Baseplate

Place the EEJR Arm against the back edge of the BRJR Baseplate. Use the “F” size (0.257 in) drill to score a set of marks on the Baseplate by pushing it through the two holes in the EEJR Arm and rotating.

Remove the EEJR Arm, and attach the “F” size drill to a drill motor, hold squarely above the BRJR Baseplate, and carefully drill out both locations.

Next, carefully tap both holes using the 5/16-18 tap from the kit.

Drilling and Tapping the BRJR Makita Guard

Remove blade before drilling.

Drill into the housing at the locations shown in the picture with the 21/64 inch drill.

The hole should be centered over the blade, when the blade is installed.

Carefully tap the hole using the 1/8” NPT tap. You may want to only tap a little ways at a time, testing the fitting each time.



Once done, continue with the instructions for saws dated after January 2009.

B: If your Blue Ripper Jr was manufactured after January 1, 2009

(or if you have two tapped holes in the back of the baseplate.)

Place the EEJR Arm against the back edge of the BRJR, aligning the

holes. The stainless EEJR Alignment Bar (pre-attached to your EEJR Arm,) should butt up solidly against the back edge of the BRJR.

Once aligned, use the two supplied 5/16-18 bolts to lock down the EEJR Arm to the BRJR Baseplate. Tighten firmly and verify that the EEJR Alignment Bar is flush against the BRJR Baseplate.

If the alignment bar is not flush, loosen the bolts, slide until flush, and re-tighten the bolts. If the back edge of the BRJR is damaged, remove the EEJR, use a flat file to take off all protruding surfaces, and re-install the EEJR following the above instructions.

Replacing the Water Manifold

Start by disconnecting the existing Red Nycoil Tube coolant hose from the water fitting on your motor by pressing on the collar of the hose fitting and then pulling the hose. (*Saws manufactured after Jan. 2009*)

Use a 5/32 hex wrench to carefully remove the two bolts from the existing BRJR Water Manifold, saving the bolts. Set aside the BRJR Water Manifold.

Place the new EEJR Water Manifold in the same location, aligning so that the segmented hose easily reaches the vicinity of the EEJR work area.

Using the two bolts that were removed earlier, bolt the EEJR Water Manifold firmly onto the BRJR Baseplate.

Plug the Red Nycoil Tube coolant hose line coming from the EEJR Water Manifold into the fitting on the BRJR Guard.

Water Shield Installation

NOTE: Some newer BRJR Baseplates MAY already have a location pre-drilled.

If not, find a convenient location on the BRJR Baseplate to mount the Water Shield. We recommend a position about 1 inch above the “E” in the word “Omega” that is engraved on the BRJR Baseplate. Once located, mark the spot, and take the “F” size (0.257 in) drill from the AC-EEJR-KIT and drill at the marked location.

Mount the EEJR Water Shield onto the BRJR Baseplate by removing the bolt and last segment of the flex tube from the end of the Water Shield. Slide the bolt up from underneath the BRJR Baseplate through

the hole.

Place the detached segment over the end of the bolt on the top side of the BRJR Baseplate, followed by the washer, and the nut. Tighten firmly.

To attach the EEJR Water Shield to the BRJR Baseplate, press the end of the Water Shield onto the bolted segment until it “pops” on.

Mounting the Spindle to the Grinder Motor

Verify that the grinder is NOT PLUGGED IN.

Remove any guard or attachment from your Makita 9564CV Grinder. Using the provided 3mm hex wrench, remove the four bolts from the spindle of the Makita Grinder, and discard the bolts.

Remove the EEJR Spindle Nut and set aside.

(Newer EEJR Spindles only: Thread the EEJR Spindle Drive Dog onto the Makita Grinder's thread. A light dose of thread locking glue can be of benefit here.)

Slide the EEJR Spindle Housing over the Makita Grinder's 5/8-11 thread, and manually rotate the EEJR Spindle Shaft to thread it onto the 5/8-11, (or to align with the EEJR Spindle Drive Dog, if applicable,) while keeping the EEJR Spindle Housing holes aligned with the four holes in the Makita Grinder.

Verify that the EEJR Spindle Housing is flush with the face of the Makita.

Insert the provided 4mm Socket Head Bolts into the four holes and tighten firmly with the 3mm wrench.

Thread the EEJR Spindle Nut back onto the EEJR Spindle Housing.

Finalizing Assembly

Attaching the EEJR Spindle Clamp

Remove the Knurled Knob from back of the EEJR Spindle Clamp between the two guide posts.

Slide the EEJR Spindle Clamp, posts first, into the slot on the EEJR Arm from the marked side of the EEJR Arm.

Re-insert the Knurled Knob back into the EEJR Spindle Clamp from

the opposite side of the EEJR Arm, through the slot. This Knob will now, when tight, prevent the EEJR Spindle from moving.

Attaching the EEJR Spindle

Loosen the EEJR Spindle Clamp by turning the clamp knob counter-clockwise. Do not remove.

Insert the EEJR Spindle, with the Makita Grinder attached as above, into the EEJR Spindle Clamp from the top. Slide until stopped by the EEJR Spindle Nut.

Tighten the EEJR Spindle Clamp until the EEJR Spindle cannot be slid back out.

Note

The EEJR 90 Degree Extension is not attached until needed. Please see the section of this manual titled “Using the EEJR” on page 10 for more information.

Using the EEJR

Bevel Cutting

Requires

- Flush Cut Blade
- Flush Cut Adapter
- 10mm Flat Head Bolt

Process

Mount the Flush Cut Blade onto the Flush Cut Adapter using the provided #8-32 Phillips screws.

Then mount the Flush Cut Adapter and Blade onto the end of the EEJR Spindle Shaft using the provided 10mm Flat Head Bolt.

Adjust the EEJR Spindle to the desired angle by loosening the EEJR Spindle Clamp and rotating to position.

Note: If you are cutting off an apron, cut the positive 44/45 degree angle first. (Positive meaning the top of the Makita Grinder is facing away from the BRJR.) The 45 degree position is marked on the EEJR Arm by an engraved groove, the 44 degree position is gained by sliding back up the arc one degree. Note that the extreme positions will give you a 46 degree cut.

Linear Edge Polishing (Bevel/Flat Polish)

Requires

- EEJR 90 Degree Extension
(For Z-Profile/Flat Edge process)
- 7/8 To Snail-Lock Adapter
- 10mm Flat Head Bolt
- 5 Step Snail-Lock Grinding and Polishing Kit
(purchased separately)

Process

Mount the 7/8 To Snail-Lock Adapter onto the EEJR Spindle Shaft using the 10mm Flat Head Bolt.

Adjust the EEJR Spindle to the desired angle by loosening the EEJR Spindle Clamp and rotating to position.

Use each tool in the 5 Step system in sequence until the edge is polished.

Note that you should run the metal steps at 4,000 RPM or less, and the polishing steps at lowest RPM setting on the Makita Grinder. Use the chart on the side of the Makita Grinder to determine what RPM is what setting on the speed dial.

Z-Profile/Flat Edge

If you wish to grind and polish a flat edge, known as the “Z” profile, detach the EEJR Spindle Clamp from the EEJR Arm, and attach to the EEJR 90 Degree Extension.

Attach the EEJR 90 Degree Extension to the EEJR Arm, sliding it up against the built-in stop. This position is your 90 degree angle. Allowing it to slide down until the studs stop against the internal curvature of the EEJR Arm is the 91 degree angle.

Proceed as above.

Seam Polishing/Relief

This is almost exactly like the Z-Profile Linear Edge Polishing above, only you adjust the EEJR 90 Degree Extension to the 91 degree position, and finish to the grit you desire.

Alternatively, high quality seams can be accomplished at the job site by using a fine grit narrow blade, such as the Omega Diamond 8” Incursion. Simply pull the Blue Ripper Jr (without the EEJR) backward through the seam while the stones are butted up against each other. This produces a very tight, low to no chip, clean seam.

Images of this process, along with video, can be found in the Library section of our website: omegadiamond.com

Linear Routing

Requires

- 7/8 Boss 1.5" Extension
- Your choice of 7/8" bore router bit (without bearing)
- 10mm Bolt (long enough to go through router bit and Extension)

Process

If your router bit comes with a bearing, remove it. The Eagle Edger Jr will solidly guide the bit.

Insert 7/8 Boss 1.5" Extension into router bit, push bolt through bit and extension, verifying that the bolt extends to at least flush with the top of the Extension.

Mount bit with 1.5" Extension onto the EEJR Spindle Shaft. Tighten firmly.

Tilt EEJR Spindle to desired angle, and set the Makita Grinder to maximum speed, or to the maximum RPM listed on the bit, whichever is the lower. You can find a chart of RPM settings on the side of the Makita Grinder.

Titling your bit towards the stone will cause the top edge to dig in, providing a groove on the top of the stone that no standard router can match. Likewise with the bottom edge, if you tilt the bit away from the stone.

Troubleshooting

Shaft jams when 4mm Bolts are tightened.

If the Makita Grinder has a knob protruding from the end that goes into the EEJR Spindle Housing, it needs to be ground off.

Too much vibration when flat grinding

Do not use a rubber band, or any similar item, to facilitate removal of the Snail-Lock tooling. Such items unbalance the Snail-Lock tooling causing vibration. Use an anti-seize compound and/or a large wrench instead.

Replacement Parts

Lost a part? Want a spare? Need another machine? 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

Parts List Illustration



See omegadiamond.com/995-892 under Attached Files for the most current Replacement Parts List.

Bill of Materials

<i>Illustration Number</i>	<i>Part Number</i>	<i>DESCRIPTION</i>	<i>QTY</i>
1	008-502	Makita 9564CV/9565CV Variable Speed Grinder	1
2	374-009	2 inch Threaded Spindle Assembly	1
3	254-439	Nut for 2 inch Threaded Spindle	1
4	784-272	Eagle Edger Jr Spindle Clamp Assembly	1
5	210-521	Eagle Edger Jr Water Manifold Assembly	1
6	762-342	Eagle Edger Jr Arm Assembly	1
7	758-664	Eagle Edger Jr 90 Degree Arm Extension	1
8	528-726	5 inch T-Rex Segmented Granite Blade	1
9	230-565	Eagle Edger Jr Water Shield 12x12 inch	1
10	957-518	7/8 Bore to Snail Lock Female Adapter	1
11	933-436	Hard Snail Lock Backer for Polishing Pads	1
12	050-188	M10-1.5 x 70mm 18-8 ss Socket Head Cap Screw	1
13	920-237	7/8 Boss 1.5 inch Extension	1
14	850-712	7/8 to Flush Cut Blade Adapter	1

Limited Warranty

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

Please record the Date of Purchase here for future reference:

Date of Purchase:

User Notes

NOTICE: *This product may have been field tested for quality control purposes; minor scratches and/or small amounts of stone dust on the tool can be expected.*

EEJR 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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