

The Radial Arm Saw is a powerful, precise tool used to section-up Rough Lumber into manageable workpieces or to a size that is appropriate for the next task. The cut workpieces should be 'proud' i.e. 1/4-inch to 1/2-inch more than the measured & desired length. This may be used to make square and/or angled Crosscuts on wide pieces of surfaced lumber, composite materials and plywood.

This saw is used to minimize waste. Cross Cut lumber the long EDGE against a Fence. Rough Lumber from the mill is not square, the cut EDGE will not be at 90-degrees until further milling is completed.

The Radial Arm Saw is never used for ripping operations. The Radial Arm Saw is NOT to be used to cut compound angles. Other equipment is safer to use for this procedure.

		BULLET POINT	Explain & Demonstrate
COMPONENTS Naming components now will ensure greater understanding of subsequent instructions	POWER SWITCH	UP = Power On. DOWN = Power OFF	
	SAFETY SWITCH [Fuse Box]	Black button = Power On. RED button = Power OFF.	Protruding Bump OFF Knob. Twist CW.
	BLADE	Before powering On - ensure blade pulls out.. Firmly grab handle. Pull out - toward operator. Automatic return spring mechanism. [Strong] Adjustable. Zero to 90 degrees, LEFT & Right. Lock Handle. 14-inch Carbide Tipped Blade	
	ARM & ARM CONTROLS	Adjustable: UP & Down. Wheel (crank). Lock Handle. 1. Crank to raise or lower the entire ARM assembly. 2. The horizontal rotation index key & lock handle. Angled crosscuts. 3. Bevel cutting indexing pin & lock handle. Controls angle of beveled crosscuts.	
	BLADE GUARD	Permanent. Must not be removed or adjusted.	
	TABLE	Groove cut into table. Throughcut depth. Height is compatible with Compound Miter table. Long / heavy workpieces.	
	RIP FENCE	Same height as compound miter table on the LEFT side of Radial Arm Saw.	
	DUST PORT	Large 'scoop' behind the blade. Gate must be open when operating.	
SAFETY		Clear area. Secure workpiece against the Fence. Pull blade toward operator. Automatic return spring mechanism.	
S	Teaching Steps		

Teaching Step	<i>Plan. Prepare. Measure. Mark.</i>	Start with a plan. Determine the biggest piece of lumber you will need, cut to a manageable size - nothing less than 12-inches.
	Participants	<p>Review Power OFF bump switch.</p> <p>Turn Radial Arm On. Pull - feel automatic return spring mechanism.</p> <p>Placement of hands and fingers - on the Fence & Table.</p> <p>Draw the blade across the workpiece slowly & firmly. Cut an 1-inch off workpiece.</p> <p>Return the blade to STOP position.</p> <p>Remove grip from handle.</p> <p>Turn Power OFF.</p>
	REVIEW LESSON HIGHLIGHTS	Used for crosscutting rough or finished lumber, plywood & composite materials. NEVER FOR RIPPING OPERATIONS.