

CONSOLIDATED STORY BOARDS

CONSOLIDATION CREATED SEPTEMBER 2022

CLICK ON AN ITEM ON THE TABLE OF CONTENTS AND IT WILL LINK TO THAT STORY BOARD FURTHER IN THIS DOCUMENT.

Contents

| | |
|---|----|
| INDEX OF FILE TITLES FOR STORY BOARDS..... | 4 |
| Table Saws #10 & #11 Delta 10" Left Tilt Saw | 6 |
| Table Saws #13 Delta 10" Left Tilt Saw | 7 |
| Table Saw # 12 & 14 Saw Stop Unit..... | 8 |
| Table Saw # 14 Saw Stop Unit. | 9 |
| Powermatic 8-inch Joints # 33 & 35 | 10 |
| SHOP FOX 20" PLANER # 30 GRIZZLY 15 "PLANER # 31..... | 11 |
| SHOP FOX 20" PLANER # 30..... | 12 |
| GRIZZLY 15 "PLANER # 31 | 13 |
| Radial Arm Saw #16..... | 14 |
| Sanders Miscellaneous #60A, B, C, 61 & 63A | 15 |
| Including: Powermatic Belt and Disc #60A and 60B,..... | 15 |
| Grizzly Combination #60C, Delta Combination #63A, Delta 12" Disc #61..... | 15 |
| Powermatic 22-44 Drum Sander # 67A, B and C | 16 |
| Sliding Compound Miter Saw #15 and #17 | 17 |
| Sliding Compound Miter Saw #18 | 18 |
| Ultimate Power Sharpener 81 A&B | 23 |
| #94 Router/Planer Sled Instructions | 24 |
| Equipment - RIKON Grinder..... | 25 |
| Band Saw #29 1/8 or 3/16" Blade | 26 |
| Band Saw #29 Carter Stabilizer 1/8 or 3/16" Blade..... | 27 |
| Band Saw #24 1/8 or 3/16" Blade | 28 |
| Small Band Saws # 22, 23 and 24 | 29 |
| Band Saw #29 1/8 or 3/16" Blade | 30 |
| Small Band Saw # 27..... | 31 |
| Table Router | 32 |
| Jet Oscillating Spindle Sander #64..... | 33 |
| Jet 10-20 PLUS SMALL DRUM SANDER 66 A & B..... | 34 |
| Powermatic Bandsaw #21B | 35 |
| Powermatic Bandsaw #21A..... | 36 |
| Nova 54, 55 & 58 Drill Press | 37 |
| Forstner Bit Speeds..... | 38 |
| #54 Nova Drill Press Supplement – Laser Light | 39 |
| Oscillating Edge Sanders #62 a and b | 41 |
| Saw Trax #2640 Panel Saw (#20)..... | 42 |

| | |
|---|----|
| Scroll Saw JET #..... | 45 |
| Small Band Saws # 22, 23 and 24 | 46 |
| SANDERS 68A..... | 47 |
| Sanders Miscellaneous #60A, B, C, 61 & 63A | 48 |
| Including: Powermatic Belt and Disc #60A and 60B,..... | 48 |
| Grizzly Combination #60C, Delta Combination #63A, Delta 12" Disc #61..... | 48 |
| Powermatic 22-44 Drum Sander # 67A, B and C..... | 49 |
| Table Routers Woodpecker table routers # 90 & 92..... | 50 |
| #50 Drill Presse | 51 |

INDEX OF FILE TITLES FOR STORY BOARDS

| TITLES | File # | Last Date |
|---|--------|-----------|
| Story Board Index | 00 | 9/4/22 |
| Table Saws #10 & #11 Delta 10" Left Tilt Saw | 01 | 7/22 |
| Table Saw #13 Delta 10" Left Tilt Saw | 02 | 7/22 |
| Table Saw # 12 & 14 Saw Stop Unit | 03 | 8/22 |
| Powermatic 8-inch Jointer # 33 & 35 | 04 | 7/22 |
| Shop Fox 20" Planer # 30 | 05A | 4/18 |
| Grizzly 15 "Planer # 31 | 05B | 4/18 |
| Radial Arm Saw #16 | 06 | 1/18 |
| Sliding Compound Miter Saw #15 and #17 | 09 | 10/19 |
| Sliding Compound Miter Saw #18 | 10 | 10/19 |
| Addendum to Sliding Miter Saw #18 | 10A | - |
| Ultimate Power Sharpener 81 A&B | 12 | 3/21 |
| Equipment - RIKON Grinder | 14 | 7/21 |
| Band Saw #29 Carter Stabilizer 1/8 or 3/16" Blade | 16 | 2/20 |
| Band Saw #24 Thin Blade 1/8 or 3/16" | 16B | 2/20 |
| Small Band Saw # 27 | 18 | 12/21 |
| Small Band Saws # 22, 23 and 24 | 17 | 12/21 |
| Powermatic Bandsaw #21B | 24 | 12/21 |
| Powermatic Bandsaw #21A re-saw | 25 | 12/21 |
| Scroll Saw JET | 33 | 2/21 |
| Saw Trax #2640 Panel Saw (#20) | 30 | 12/21 |
| Woodpecker table routers # 90 & 92 | 46 | 3/18 |
| Horizontal Router # 91 (controlled Tool) | 21 | 3/18 |
| #94 Router/Planer Sled Instructions | 13 | 3/18 |
| Drill Press 50 | 50 | 9/22 |
| Nova 54, 55 & 58 Drill Press | 28 | 3/22 |
| Nova Drill Press Supplement – Laser Light | 28B | |
| Forstner Bit Speeds Nova Drill Chart | 28A | 9/21 |
| Oscillating Edge Sanders #62 a and b | 29 | 6/23 |
| Jet Oscillating Spindle Sander #64 | 22 | 9/21 |
| Jet Small Drum Sander 66 A & B | 23 | 2/20 |
| Woodmaster large drum SANDERS 68A | 40 | 8/18 |
| Sanders Miscellaneous #60A, B, C, 61 & 63A | 41 | 5/18 |
| Powermatic 22-44 Drum Sander # 67A, B and C | 42 | 3/18 |

Table Saws #10 & #11 Delta 10" Left Tilt Saw

| | | | |
|---|---|---------|---------|
| Access: Gold Card. | Control: None | | |
| Material limitations No pressure treated wood | For Ripping | Minimum | Maximum |
| | Width | 1" | |
| | Length | 12" | |
| | Thickness | 1/4" * | 2 3/4" |
| | *If thinner material See Shop Manager/Mentor | | |
| Restrictions | <p>OBTAIN PERMISSION TO REMOVE OR ADJUST Splitter / Kickback Dogs/ Safety Guard.</p> <p>No cutting full size sheet goods or free hand cutting</p> <p>No resawing - use Band Saw</p> <p>Thin Kerf blades must be used with proper splitter kit.</p> <p><u>Blade changing is not permitted unless approved by the shop manager.</u></p> | | |
| Operations | <p>Turn main power switch off when doing set-up or placing hands near the blade.</p> <p>Inspect Safety guard, Splitter & Kickback dogs.</p> <p>Open Vacuum port.</p> <p>Ripping - use feather boards when possible</p> <p>Use two feather boards for all Dados and Rabbits.</p> <p>Use Miter Gauge or sled when crosscutting.</p> <p>Use the <u>CORRECT</u> push stick when ripping less than 6" wide.</p> <p>Push stock past entire blade before stopping saw.</p> <p>When finished turn main power switch off, close vacuum port, <u>clean up saw and floor.</u></p> | | |
| Tips | <p>Make sure work area is clear & clutter free</p> <p>Use stop blocks for repeat crosscuts where applicable.</p> <p>Dry run your cut to make sure you can complete the full operation.</p> | | |

IN DOUBT ASK FOR HELP

Table Saws #13 Delta 10" Left Tilt Saw

| | | | |
|-----------------------------|---|---------|---------|
| Access: Gold Card | Control: None | | |
| Material limitations | For Ripping | Minimum | Maximum |
| | Width | 1 ½"* | |
| | Length | 10" | |
| | Thickness | ¼"* | 2 ¾" |
| | *If thinner material See Shop Manager/Mentor | | |
| Restrictions | <p>NEVER REMOVE OR ADJUST THE RIVING KNIFE</p> <p>Kickback Dogs & Safety Guard can be removed only for the following sleds & jigs, subject to prior approval of Shop Manager: Shop crosscut sleds / Incra angle jigs / Taper jigs.</p> <p>No cutting of full-size sheet goods or free hand cutting allowed.</p> <p>No re-sawing - use Band Saw.</p> <p>No Dados and Rabbet cutting.</p> <p><u>Thin Kerf blades must be used with proper splitter kit.</u></p> <p><u>Blade changing not permitted unless approved by the shop manager"</u></p> | | |
| Operations | <p>Turn main power switch off when doing set-up or placing hands near the blade.</p> <p>Inspect safety guards / Riving Knife / kickback dogs.</p> <p>Open vacuum port.</p> <p>Ripping - use feather boards when possible</p> <p>Use Miter Gauge when cross cutting.</p> <p>Use Correct push stick when ripping less than 6" wide.</p> <p>Push stock past entire blade before stopping saw.</p> <p>When finished turn main power switch off, close vacuum port & <u>clean saw and sweep floor.</u></p> | | |
| Tips | <p>Make sure work area is clear & clutter free.</p> <p>Make sure correct push sticks and feather boards are readily available when needed.</p> <p>Use stop block if applicable for repeat cross cutting.</p> <p>Dry run your cut to make sure you can complete the full operation.</p> | | |

IN DOUBT ASK FOR HELP

Table Saw # 12 & 14 Saw Stop Unit

| | | | |
|-----------------------------|--|--|----------------|
| Access: Gold Card | Control: None | | |
| Material limitations | For Ripping | Minimum | Maximum |
| | Width | 1" with fence jig, 1 ½" w/o | |
| | Length | 10" | |
| | Thickness | ¼* | 2 ¾" |
| | *If thinner material see Shop Manager/Mentor | | |
| Restrictions | <p>NO WET, TREATED OR PREVIOUSLY USED WOOD</p> <p>Do not remove or adjust blade guard assembly without Shop Manager's approval.</p> <p>Do not cut full-size sheet goods.</p> <p>No free hand cutting.</p> <p>No re-sawing. Use band saws # 21B or 21 A.</p> <p>Only shop installed blades are allowed. No dados & rabbet cutting is allowed.</p> <p><u>Do not use the Incra gauges with aluminum back rails.</u></p> <p>Only use jigs, sleds and miter gauges approved for Saw Stop saw.</p> | | |
| Operations | <p><u>Assure main power switch is off.</u></p> <p>LIFT GUARD AND SET UP FOR CUT (blade height, cut width and feather board) and lower guard.</p> <p>Turn on main power switch wait for solid green light (left light) to proceed (3-10 seconds for diagnostic to process). Any condition other than solid green – <u>STOP and inform Manager.</u></p> <p>With Solid green light (the light on left), you are ready to pull out start/stop paddle to start saw blade.</p> <p>Turn off power when doing additional close to blade set up. Do not unplug.</p> <p>Ripping - use feather boards when possible</p> <p>Push stock past entire blade before stopping saw.</p> <p>Allow saw to <u>fully stop</u> before removing stock.</p> <p>When finished with all cuts. Turn off main power switch and leave saw ready for next member. Only use the miter gauges supplied with WOOD BACK RAILS to be used for crosscutting.</p> | | |
| Tips | Keep work area clear & clutter free. | | |

IN DOUBT ASK FOR HELP

Table Saw # 14 Saw Stop Unit.

Supplemental instructions to Managers, Assistant Managers and Mentors

Standby and monitor cuts being made. If saw malfunctions or has diagnostic shutdown put saw out of service and write up for Maintenance.

If brake activates the saw will shut down. Don't touch anything, don't move anything, do not change the setup, do not remove the piece of wood being cut. Maintenance will be keeping a history of what causes the brake to activate. They will need this information.

Powermatic 8-inch Jointer # 33 & 35

| | | | |
|-----------------------------|---|--|----------|
| Access: Gold Card | Control: None | | |
| Material limitations | | Minimum | Maximum |
| | Width | $\frac{3}{4}$ inch | 8 inches |
| | Length | 8 inches | |
| | Thickness | $\frac{1}{2}$ " Face, $\frac{1}{4}$ " Edge | |
| | <p>FACE CUT – Face jointing, boards must be at least 1/2" thick. Start depth of cut at 1/32"</p> <p>EDGE CUT - Edge jointing, boards must be at least 1/4" thick and at least 3/4 inch wide (surface against the fence). Start depth of cut at 1/16"</p> | | |
| Operations | <p>End Grain jointing, rabbeting and skewing (diagonal running of stock) are not allowed.</p> <p>Do not adjust fence past outer edge of cutter.</p> <p>If Height of stock above cutter is less than 4" use push stick.</p> <p>Use pushstick when jointing (surfacing) face grain.</p> <p>Do not hold hand on top of board directly above cutterhead.</p> <p>Use Double stack Featherboard when edge jointing boards 5 "or higher above cutter head.</p> <p>Always open vacuum port before using machine</p> <p>Always close vacuum port and clean up when finished.</p> | | |
| Warnings | <p>Never let fingers get within 4" of cutters</p> <p>Never stand directly behind the workpiece.</p> <p>Never remove the guard.</p> | | |
| Tips | <p>Make sure work area is clear & clutter free</p> <p>Double check depth of cut & Fence square with table.</p> | | |

IN DOUBT ASK FOR HELP

SHOP FOX 20" PLANER # 30 GRIZZLY 15 "PLANER # 31

| | | | |
|-----------------------------|--|-----------------|-----------------|
| Access: Gold Card | Control: None | | |
| Material limitations | | Minimum | Maximum |
| | Width | | 20 INCH |
| | Length | 7INCH | |
| | Thickness | 1/4 INCH | 8 INCHES |
| Operations | <p>To Set up planer- With Machine turned off.</p> <p>Lower feed table (counter-clockwise) until stock will slide through easily.</p> <p>Remove stock, turn on planner & open vacuum.</p> <p>With Stock on feed table raise table (clockwise) till planer feeds stock through the cutters.</p> <p>Planer is now indexed for thickness of stock.</p> <p>Run all stock that will be the same thickness through planer before changing settings.</p> <p>Raise feed {No More than} ½ turn (clockwise) to continue planning stock. Continue this sequence until all boards are the thickness you want</p> <p>Note:</p> <p style="text-align: center;">1/2 a turn of wheel = 1/32 of an inch [.7938MM]</p> <p>Close vacuum port & clean up area.</p> | | |
| Warning | <p>If stock is jammed. Never push stock through the planer.</p> <p>Turn off Planer and get help from Managers or Mentor.</p> | | |
| Tips | <p>Make sure work area is clear & clutter free</p> <p>Always plane long grain if possible.</p> <p>Alternate feed left/ right/ center. Better for stock & the planer.</p> <p>Wear Hearing protection is recommended.</p> | | |

IN DOUBT ASK FOR HELP

SHOP FOX 20" PLANER # 30

| | | | |
|-----------------------------|--|-----------------|-----------------|
| Access: Gold Card | Control: None | | |
| Material limitations | | Minimum | Maximum |
| | Width | | 20 INCH |
| | Length | 7INCH | |
| | Thickness | 1/4 INCH | 8 INCHES |
| Operations | <p>To Set up planer- With Machine turned off.</p> <p>Lower feed table (counter-clockwise) until stock will slide through easily.</p> <p>Remove stock, turn on planer & open vacuum.</p> <p>With Stock on feed table raise table (clockwise) till planer feeds stock through the cutters.</p> <p>Planer is now indexed for thickness of stock.</p> <p>Run all stock that will be the same thickness through planer before changing settings.</p> <p>Raise feed {No More than} ½ turn (clockwise) to continue planing stock. Continue this sequence until all boards are the thickness you want</p> <p>Note:</p> <p style="text-align: center;">1/2 a turn of wheel = 1/32 of an inch [.7938MM]</p> <p>Close vacuum port & clean up area.</p> | | |
| Warning | <p>If stock is jammed. Never push stock through the planer.</p> <p>Turn off Planer and get help from Managers or Mentor.</p> | | |
| Tips | <p>Make sure work area is clear & clutter free</p> <p>Always plane long grain if possible.</p> <p>Alternate feed left/ right/ center. Better for stock & the planer.</p> <p>Wear Hearing protection is recommended.</p> | | |

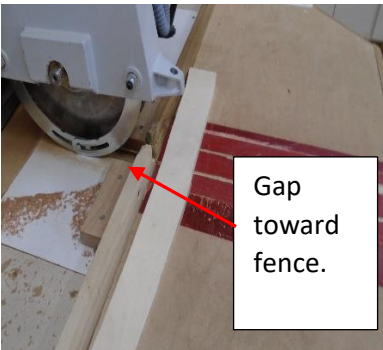
IN DOUBT ASK FOR HELP

GRIZZLY 15 ‘PLANER # 31

| | | | |
|-----------------------------|--|-----------------|---------------------|
| Access: Gold Card | Control: None | | |
| Material limitations | | Minimum | Maximum |
| | Width | | 14 7/8 INCH |
| | Length | 7INCH | |
| | Thickness | 1/4 INCH | 6 1/8 INCHES |
| Operations | <p>To Set up planer- With Machine turned off.</p> <p>Lower feed table (counter-clockwise) until stock will slide through easily.</p> <p>Remove stock, turn on planner & open vacuum.</p> <p>With Stock on feed table raise table (clockwise) till planer feeds stock through the cutters.</p> <p>Planer is now indexed for thickness of stock.</p> <p>Run all stock that will be the same thickness through planer before changing settings.</p> <p>Raise feed {No More than} ½ turn (clockwise) to continue planning stock. Continue this sequence until all boards are the thickness you want</p> <p>Note:</p> <p style="text-align: center;">1/2 a turn of wheel = 1/32 of an inch [.7938MM]</p> <p>Close vacuum port & clean up area.</p> | | |
| Warning | <p>If stock is jammed. Never push stock through the planer.</p> <p>Turn off Planer and get help from Managers or Mentor.</p> | | |
| Tips | <p>Make sure work area is clear & clutter free</p> <p>Always plane long grain if possible.</p> <p>Alternate feed left/ right/ center. Better for stock & the planer.</p> <p>Wear Hearing protection is recommended.</p> | | |

IN DOUBT ASK FOR HELP

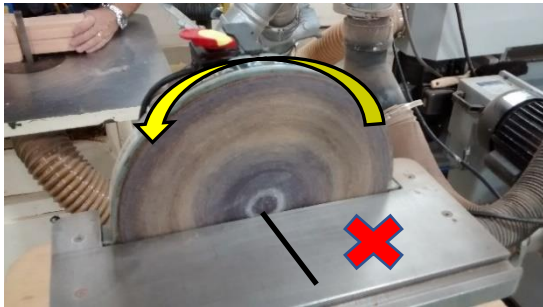

Radial Arm Saw #16

| | | | |
|--|---|------------------------|-----------|
| Access: Gold Card | Control: None | | |
| Material limitations No pressure treated wood. | Crosscut | Minimum | Maximum |
| | Width | 1/2 inch | 16 inches |
| | Length | See First restrictions | |
| | Thickness | 1/4 inch | 3 ½ inch |
| Restrictions | <p>Keep Fingers and Thumb at least 4 inches away from either side of blade. <u>This area is painted red.</u></p> <p>Obtain Managers permission to adjust SAFETY COVER/ Safety Guards.</p> <p>Ripping /Mitre cuts /Bevel cuts are not permitted.</p> <p>Dados operations can only be done with approval of Shop Manager</p> | | |
| Operations  | <p>Make sure on/off switch is in off position and saw is in home position before you start.</p> <p>Inspect both safety guards and safety cover.</p> <p>Confirm blade teeth are approx. 1/8 inch below surface of table.</p> <p>Open vacuum port.</p> <p>Hold material against fence with left hand pull saw through material with right hand</p> <p>Pull saw slowly though heavy or bowed material to prevent jamming. <u>Bow must face toward fence.</u></p> <p>Return saw to home position when cut is finished.</p> <p>Use vacuum hose to clean up after use.</p> <p>Close vacuum ports when cleanup is complete</p> | | |
| Tips | <p>Make sure work area is clear & clutter free</p> <p>Dry run your cut to make sure you can complete the full operation.</p> | | |

IN DOUBT ASK FOR HELP

Sanders Miscellaneous #60A, B, C, 61 & 63A

Including: Powermatic Belt and Disc #60A and 60B,
Grizzly Combination #60C, Delta Combination #63A, Delta 12”
Disc #61

| | |
|-----------------------------|--|
| Access: Gold card | Control: None |
| Material Limitations | No pressure treated wood. |
| Restrictions | <p>Make sure the conveyor belt and/or disc material are in good condition. Report damaged sanding material.</p>  <p>Sand on left side of disc only.</p> |
| Operations | <p>When sanding small pieces, use push stick, eraser or other fixture to keep fingers away from sanding material.</p>  <p>When finished, carefully clean the sandpaper with the eraser stick and clean the table with hand brush or vacuum. Sweep floor.</p> |
| Tips | You don't need apply too much pressure. Let the sander do the work. |

IN DOUBT ASK FOR HELP

Powermatic 22-44 Drum Sander # 67A, B and C

| | | | |
|---|---|----------------|----------------------|
| Access: Gold card | Control: Sign out form and key access. | | |
| Material Limitations Sandpaper: 80 grit | For Sanding | Minimum | Maximum |
| | Width | 3/4" (19mm) | 22" (559mm) one pass |
| | Length | 2 3/8" (60mm) | |
| | Thickness | 1/32" (0.8mm) | 4" (102mm) |
| Restrictions | <p>This sander has a mini- computer in it. If you are not sure how to INDEX the machine, get the Mentor to show you. Make sure the conveyor belt and sanding drum are in good condition.</p> <p>This machine is NOT a planner, jointer, or glue removal tool – don't attempt to use it as one.</p> <p>No glue, nails, oil finishes, paint, or dirt/gravel in wood</p> <p>Don't stand directly behind conveyor belt in case of kickback.</p> | | |
| Operations | <p>Review the operation instructions attached to machine for detailed explanation of how to operate the controls. Be sure conveyor is off and emergency shutoff is not engaged. Turn on main power switch Register/INDEX sanding drum to wood surface. See poster on wall for steps 1 to 7 and below for step 8.</p> <p>8) DO NOT take more than 1/8th turn of the wheel or 0.010 of an inch before next pass. Display will read - 0.010. For best results make 3 passes before changing setting.</p> <p>If working with stock of varying thickness, always start with thickest board before running all boards at the same setting.</p> | | |
| Tips | <p>Make sure work area is clear & clutter free.</p> <p>Keep fingers away from in-feed and out-feed table rollers while sanding to avoid being pinched.</p> <p>When finished, carefully clean the drum with the eraser stick and clean the conveyor web with hand brush or air hose. Have Manager inspect tool before you leave it.</p> | | |

IN DOUBT ASK FOR HELP

Sliding Compound Miter Saw #15 and #17

| | | | |
|--|--|------------------|------------------------------------|
| Use: For prepared lumber | Control: Use only for planed and edged wood. <u>No Pressure treated lumber.</u> | | |
| Material limitations *If less See Manager. | | Minimum | Maximum |
| | Width | $\frac{1}{4}$ " | 14" |
| | Length | <u>2"</u> | <u>None</u> |
| | Thickness | $\frac{1}{4}$ "* | 4 $\frac{3}{4}$" |
| Restrictions | CROSS CUT ONLY. NO RIPPING ALLOWED. Never cut with fingers closer than 4" to blade. Keep fingers off trigger until actually ready to cut. | | |
| Operations | <p>Cut boards with 3 point contact only (cut twisted or bowed pieces on Saw #18).</p> <p>Use sacrificial fence if wood does not touch both sides of fence, <u>except when cutting off an 1/8" or less.</u></p> <p>Use bridge clamp to hold pieces shorter than 4".</p> <p>When using stop block – clamp or hold piece securely by hand between blade and block.</p> <p>Cuts wider than 4" require slide motion to cut.</p> <p>Proper sequence for cuts:</p> <ol style="list-style-type: none"> 1) Bring blade to full speed. 2) Pull saw on slide all the way out. 3) Pull saw down all the way. 4) Push saw back through material completely (slow and steady motion) 5) Hold saw down until blade stops completely. | | |
| Tips | <p>Use built-in light to line up saw cut. Turn light off when finished.</p> <p>Do not allow material to pile up around saw.</p> <p>Use vacuum to clean up saw and work area.</p> | | |

IN DOUBT ASK FOR HELP

Sliding Compound Miter Saw #18

| | | | |
|---|--|----------------|----------------|
| Use: Mainly for rough lumber | Control: Saw has an aggressive blade meant for rough sawed wood. <u>No pressure treated wood.</u> | | |
| Material limitations *Subject to Managers judgement | | Minimum | Maximum |
| | Width | 1/4" | 14" |
| | Length | 2" | |
| Restrictions | <p>CROSS CUT ONLY. NO RIPPING ALLOWED.</p> <p>Never cut with fingers closer than 4" to blade.</p> <p>Keep fingers off trigger until ready to cut.</p> | | |
| Operations | <p>All rough lumber must be clamped on one side only.</p> <p>Bowed wood – have crown of bow toward fence (see graphic) and clamped on one side only.</p> <p>Never cut with fingers closer than 4" to blade. Use bridge clamp to hold stock closer than 4".</p> <p>Pieces being cut must touch fence on both sides of blade or use sacrificial fence.</p> <p>When using stop block – clamp or hold piece securely by hand between blade and block.</p> <p>Cuts wider than 4" require slide motion to cut.</p> <p>Proper sequence for cuts:</p> <ol style="list-style-type: none"> 1) Bring blade to full speed. 2) Pull saw on slide all the way out. 3) Pull saw down all the way. 4) Push saw back through material completely (slow and steady motion) 5) Hold saw down until blade stops completely. <p>Some woods will be denser than normal or distortion in wood will require special care in cutting. Use 1/3 depth of cut to make these cuts (1/3 of depth 1st pass, 2/3 of depth 2nd pass, full deep on 3rd pass)</p> | | |
| Tips | <p>Hold saw down until blade stops completely.</p> <p>Do not allow material to pile up around saw.</p> <p>Use vacuum to clean up saw and work area.</p> | | |

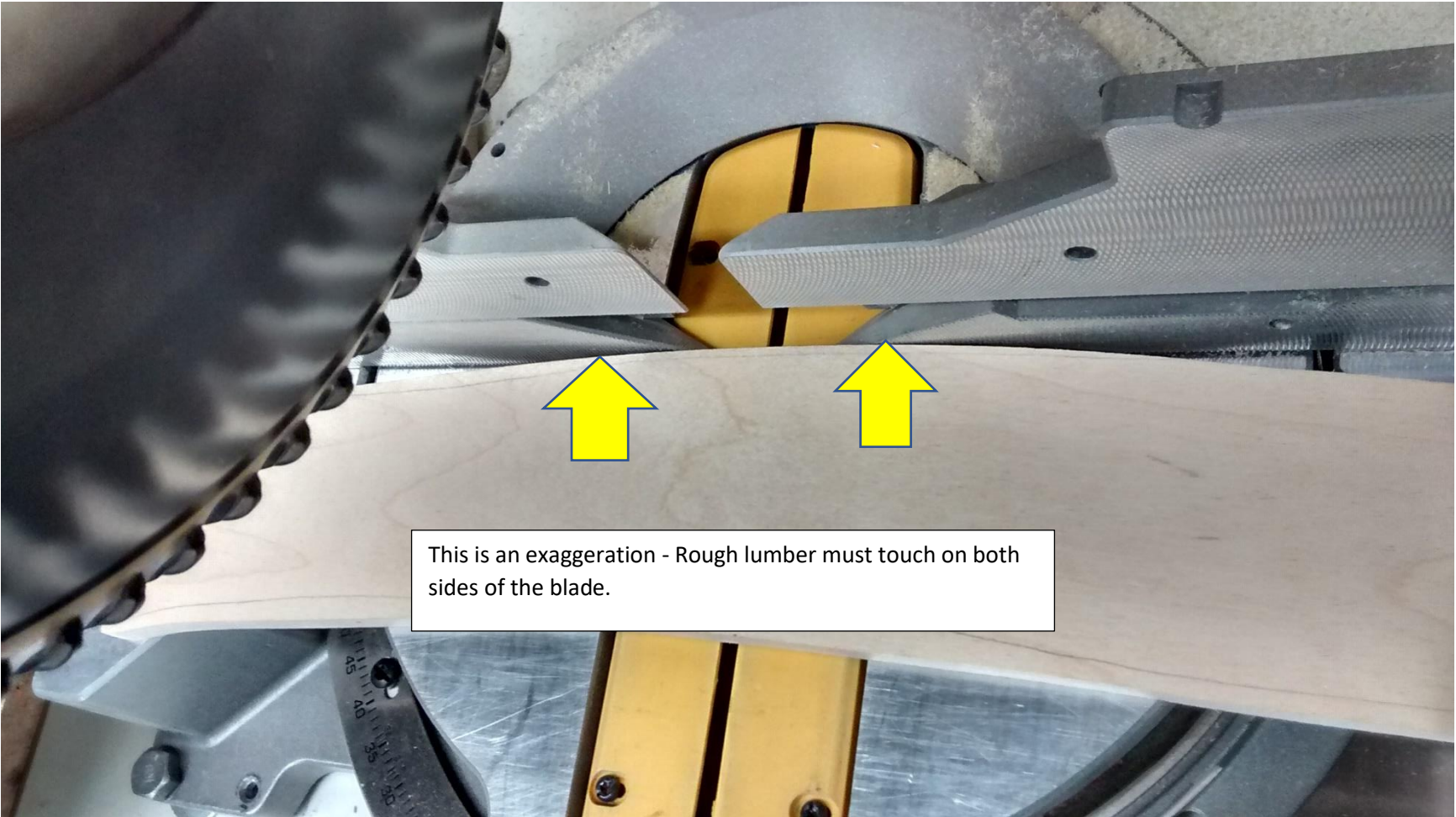
IN DOUBT ASK FOR HELP

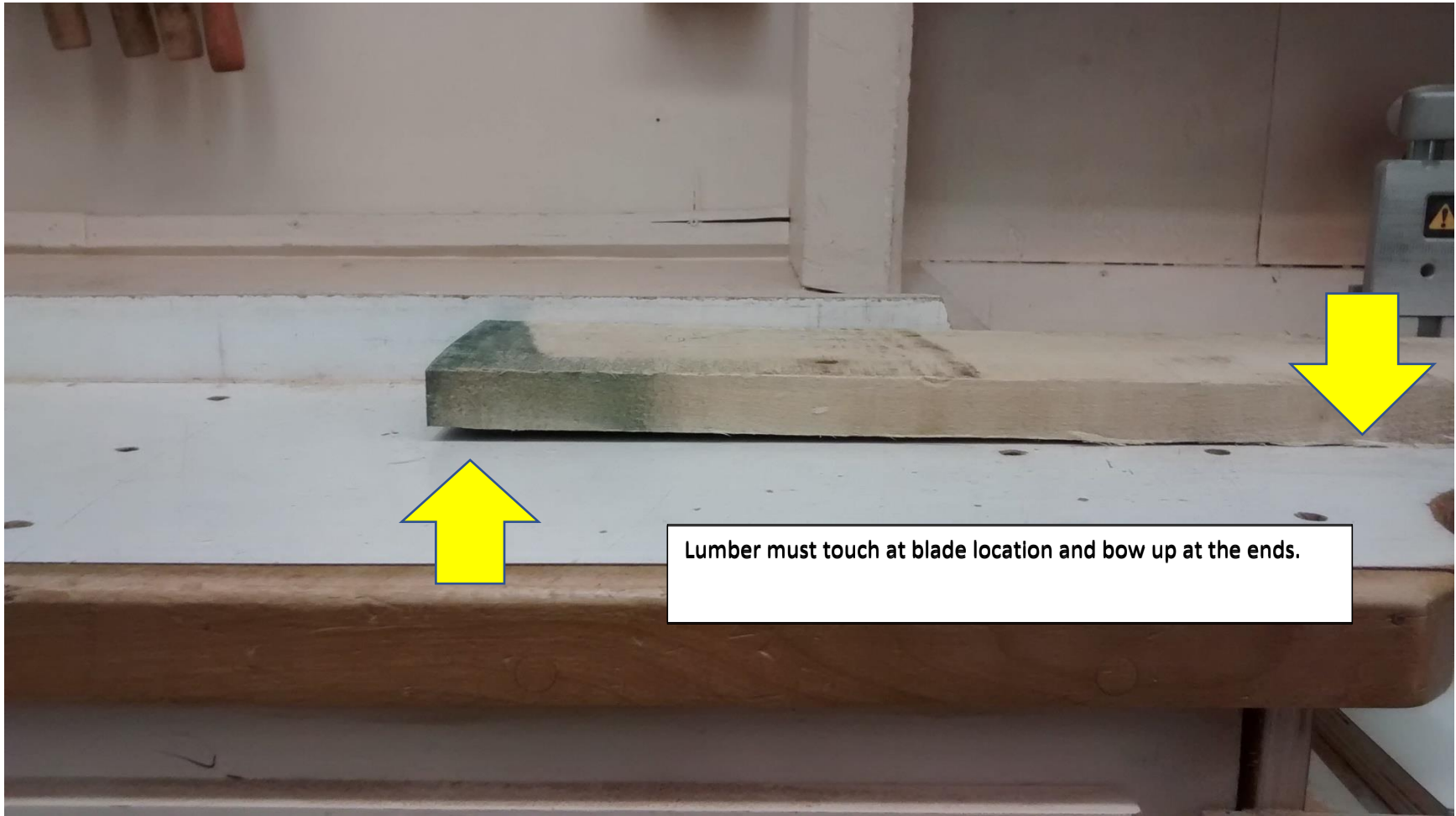


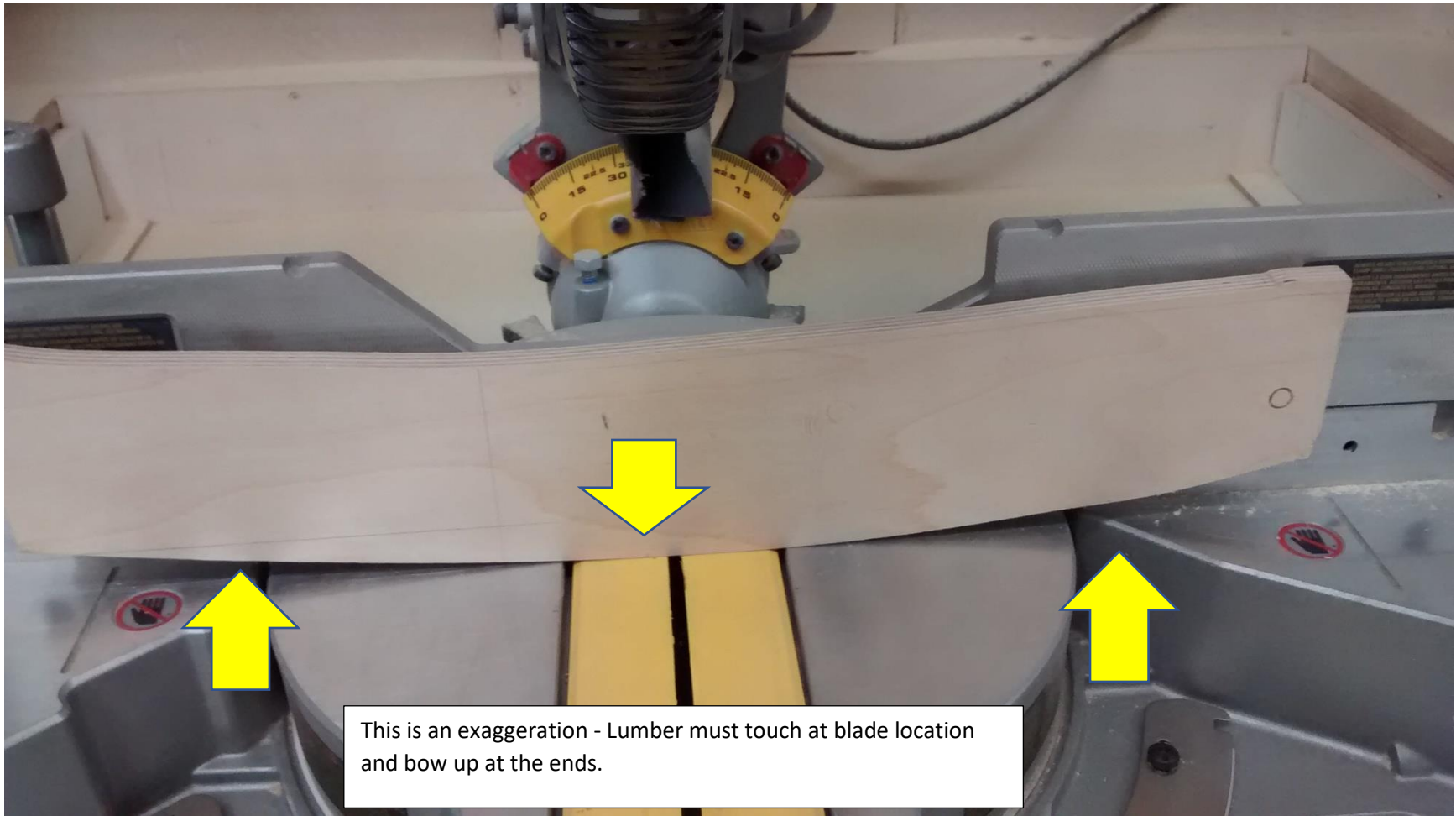
Original Date: 3-14-18

Rev 0

Revision Date:







This is an exaggeration - Lumber must touch at blade location and bow up at the ends.

Ultimate Power Sharpener 81 A&B

| | |
|---------------------|---|
| Access: | Only Wood Carving SIG members who have completed the training may use this equipment. |
| Restrictions | Only wood carving tools may be sharpened on this equipment. |
| Operations | <p>Belt runs away from the tool being sharpened.</p> <p>Make sure the tool contacts the belt where it is supported by the backing plate.</p> <p>Determine the correct angle for the tool to contact the belt and maintain that angle at all times.</p> <p>When sharpening a curved tool make sure to continuously roll the cutting edge of the tool on the belt so cutting edge does not develop a flat spot.</p> <p>Start with the correct grit belt and progress to finer grit belts and finally to the leather honing belt.</p> <p>It is recommended that compound be applied to the leather honing belt each time it is used.</p> |

IN DOUBT ASK FOR HELP

#94 Router/Planer Sled Instructions

- Slide right side guard to the right until workpiece fits between the blue edges.
- Install shims on each side so that workpiece rest $\frac{1}{4}$ " to $\frac{3}{8}$ " above blue edge.
- Place workpiece behind black mark, on blue edge.
- Tighten bar clamps snug, do not over tighten.
- Move router back over the top of the workpiece.
- Loosen router motor key (red knob) and turn motor clockwise until bit just touched the workpiece surface. Index zero ring.
- Move the router back behind the workpiece.
- Rotate motor to desired depth of cut, maximum of $\frac{1}{8}$ ", tighten motor key.
- Turn router on and make a clockwise cut around the perimeter of the workpiece. Then travel back and forth across until the surface is complete.
- If necessary, lower bit and repeat cutting.
- Never leave a running machine unattended.
- Clean up.


IF IN DOUBT ASK!!

Equipment - RIKON Grinder


| | |
|---------------------|--|
| Access: | Only Members who have been trained by Lathe Instructor |
| Restrictions | High speed steel tools only. Carbon steel will quickly destroy the diamond like grinding wheel and should never be sharpened on this grinder. If there is doubt whether a tool is High Speed Steel, DON'T use this grinder until you have spoken to the Shop Manager or Lathe Mentor. |
| Operations | Never walk away from the grinder until the grinding wheels have completely stopped. Use the wheel brake to stop the grinding wheel. Do not use excessive force. Use light force on the brake to slowly stop the grinding wheel. DO NOT over tighten the arms, on the Wolverine clamping fixture. Once the position of the tool-rest is correct, a GENTLE PUSH BACK on the handle is all that is necessary to lock the tool-rest in place. Keep the tool moving on the 2" grinding surface to facilitate even wear of the grinding wheels. |
| Tips | CBN (cubic boron nitride is as hard as diamond) wheels cut extremely fast. There is NO need to apply excessive pressure to the wheel with the tool being sharpened. |

IN DOUBT ASK FOR HELP

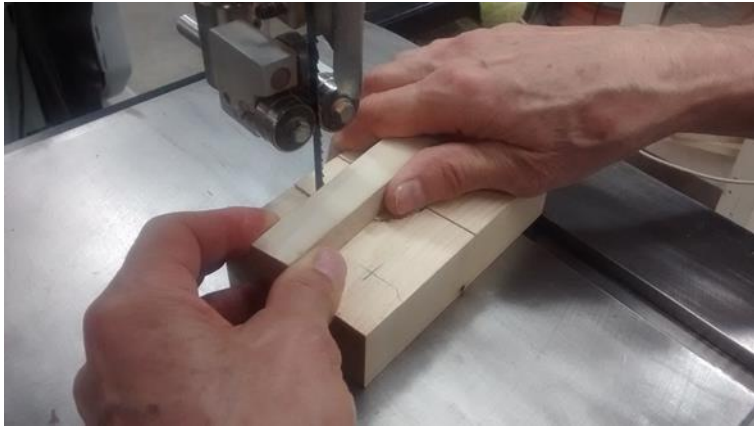
Band Saw #29 1/8 or 3/16" Blade

| | |
|-----------------------------|--|
| Access: Gold card | |
| Material Limitations | <u>No pressure treated wood.</u> |
| Restrictions | This is NOT to be used for standard band saw cutting activities. No ripping, no cross cutting, no circle guide usage, no large radius cuts. |
| Operations | <p><u>This saw is for small radius cutting as small as 3/16-1/4". Relief cuts are not needed for these tight radii.</u></p> <p>Adjust blade guard to approximately 1/2" above wood.</p> <p>Make sure hands are not in direct line of cut.</p> <p>Use push sticks when near blade.</p> <p>Steer the wood through the cut straight or around a curve. Do not push wood against the side of the blade.</p> <p>When backing up, turn off the saw, use a scrap piece of wood in front of blade and back up slowly.</p>  <p>Clean up.</p> |
| Tips | Cut to one side of the line and sand wood to line. |


Band Saw #29 Carter Stabilizer 1/8 or 3/16" Blade

| | |
|-----------------------------|--|
| Access: Gold card | |
| Material Limitations | <u>No pressure treated wood.</u> |
| Restrictions | This is NOT to be used for standard band saw cutting activities. No ripping, no cross cutting, no circle guide usage, no large radius cuts. |
| Operations | <p><u>This saw is for small radius cutting as small as 3/16-1/4". Relief cuts are not needed for these tight radii.</u></p> <p>Adjust blade guard to approximately 1/2" above wood. Make sure hands are not in direct line of cut. Use push sticks when near blade.</p> <p>Steer the wood through the cut straight or around a curve. Do not push wood against the side of the blade. When backing up, turn off the saw, use a scrap piece of wood in front of blade and back up slowly.</p>  <p>Clean up.</p> |
| Tips | Cut to one side of the line and sand wood to line. |

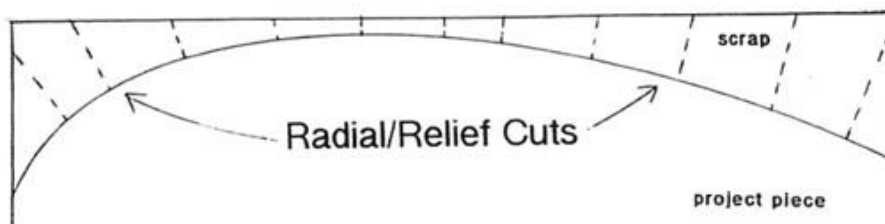
Band Saw #24 1/8 or 3/16" Blade

| | |
|-----------------------------|---|
| Access: Gold card | |
| Material Limitations | <u>No pressure treated wood.</u> |
| Restrictions | This is NOT to be used for standard band saw cutting activities. No ripping, no cross cutting, no circle guide usage, no large radius cuts. |
| Operations | <p><u>This saw is for small radius cutting as small as 3/16-1/4". Relief cuts are not needed for these tight radii.</u></p> <p>Adjust blade guard to approximately 1/2" above wood. Make sure hands are not in direct line of cut. Use push sticks when near blade.</p> <p>Steer the wood through the cut straight or around a curve. Do not push wood against the side of the blade.</p> <p>When backing up, turn off the saw, use a scrap piece of wood in front of blade and back up slowly.</p>  <p>Clean up.</p> |
| Tips | Cut to one side of the line and sand wood to line. |


Small Band Saws # 22, 23 and 24

| | |
|-----------------------------|--|
| Access: Gold card | Control: None |
| Material Limitations | None |
| Restrictions | <p>The tightest cut allowed for the ¼" blade is a curve with a radius no smaller than 1 ¼".</p> <p>Use relief cuts to minimize damage to blade and saw.</p> <p>See diagram below.</p> <p>When cross cutting round stock use a V block.</p> |
| Operations | <p>Adjust blade guard to ⅛" to ¼" above wood.</p> <p>Make sure hands are not in direct line of cut.</p> <p>Use push sticks when near blade.</p> <p>Steer the wood through the cut straight or around a curve. Do not push wood against the side of the blade.</p> <p>When re-sawing, use a fence.</p> <p>When backing up, turn off the saw, use a scrap piece of wood in front of blade and back up slowly.</p>  <p>Clean up.</p> |
| Tips | Cut to one side of the line and sand wood to line. |

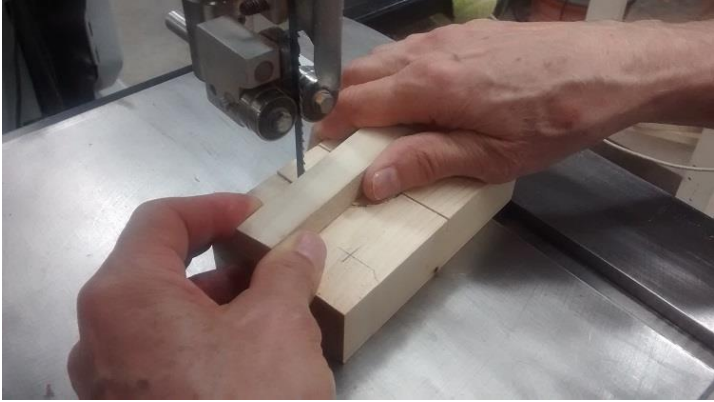
*** WHEN CUTTING ARCS SMALLER THAN THE MINIMUM DIAMETERS
ALWAYS CUT RADIAL RELIEF CUTS EVERY ¾"-TO 1" AS SHOWN**



Band Saw #29 1/8 or 3/16" Blade

| | |
|-----------------------------|--|
| Access: Gold card | |
| Material Limitations | <u>No pressure treated wood.</u> |
| Restrictions | This is NOT to be used for standard band saw cutting activities. No ripping, no cross cutting, no circle guide usage, no large radius cuts. |
| Operations | <p><u>This saw is for small radius cutting as small as 3/16-1/4". Relief cuts are not needed for these tight radii.</u></p> <p>Adjust blade guard to approximately 1/2" above wood. Make sure hands are not in direct line of cut. Use push sticks when near blade.</p> <p>Steer the wood through the cut straight or around a curve. Do not push wood against the side of the blade. When backing up, turn off the saw, use a scrap piece of wood in front of blade and back up slowly.</p>  <p>Clean up.</p> |
| Tips | Cut to one side of the line and sand wood to line. |

Small Band Saw # 27

| | |
|-----------------------------|--|
| Access: Gold card | Control: None |
| Material Limitations | None |
| Restrictions | <p>The tightest cut allowed for the ¼" blade is a curve with a radius no smaller than 1 ¼".</p> <p>Use relief cuts to minimize damage to blade and saw. See diagram below.</p> <p>When cross cutting round stock use a V block.</p> |
| Operations | <p>Adjust blade guard to ⅛" to ¼" above wood.</p> <p>Make sure hands are not in direct line of cut.</p> <p>Use push sticks when near blade.</p> <p>Steer the wood through the cut straight or around a curve.</p> <p>Do not push wood against the side of the blade.</p> <p>When re-sawing, use a fence and feather blocks.</p> <p>When backing up, turn off the saw, use a scrap piece of wood in front of blade and back up slowly.</p> <p>Use foot brake to stop the blade and lower blade guide completely down before you leave the machine.</p> <div style="display: flex; align-items: center;">  <div style="margin-left: 10px;"> <p>When backing up, turn off the saw, use a scrap piece of wood in front of blade and back up slowly.</p> </div> </div> |
| Tips | Cut to one side of the line and sand wood to line. |

*** WHEN CUTTING ARCS SMALLER THAN THE MINIMUM DIAMETER ALWAYS CUT RADIAL RELIEF CUTS EVERY ¾"-TO 1" AS SHOWN**

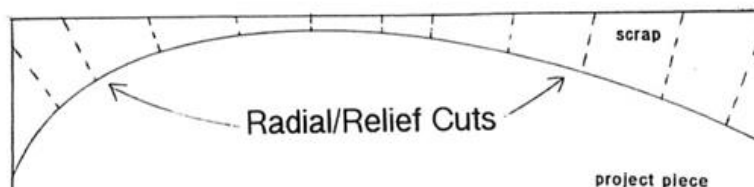


Table Router

Horizontal Router # 91 (controlled Tool)

Never attempt to machine on this router table with the
Cutter Bit above the material

ALWAYS feed work from left to right toward cutter (Unique to this tool)

No Jointing allowed on Router.

There is a list of advisors on this tool posted here to help you safely set up this tool. PLEASE ASK for their HELP.

Make sure Router is set for correct R.P. M's for size of cutter bit

Ensure Router is unplugged before installing and removing cutter bit.

Never use a dull, bent or damaged cutter bit (see Tool Room Monitor.)

Do not adjust bit elevation or fence position while router is running.

Do not try to make your complete cut in one pass (*maximum depth of cut is 1/4"*), rather make multi passes and keep adjusting bit height. Smaller cuts equal smoother finished products.



Many accessories available to make operation safer & to achieve better results. ASK Advisor for help.

Never leave a running machine unattended.

Keep Work area clean!!!

IF IN DOUBT ASK!!

Jet Oscillating Spindle Sander #64

| | |
|------------------------------|---|
| Access: Gold card | Control: None |
| Material Restrictions | Pine and pressure treated wood not permitted |
| Precautions | <p>Keep clothing and hair away from spindle Make sure the spindle sanding drum is in good condition. Report damaged sanding material. When sanding inside a hole, the size of spindle must be no more than one half the diameter of the hole and workpiece must be on the table before starting sander.</p>  |
| Operations | <p>Mount the desired size spindle. Install best fitting spacer. Hand tighten only, don't overtighten spindle or nut. Ensure <u>rubber shield</u> is reinstalled.</p>  <p>The table may be tilted down. Do not tilt the front of the table up past level. When finished, clean the drum with the eraser stick, clean the table and sweep floor.</p> |
| Tips | For best result push against the rotation of the spindle. You don't need to apply much pressure. |

IN DOUBT Please ASK FOR HELP

Jet 10-20 PLUS SMALL DRUM SANDER 66 A & B

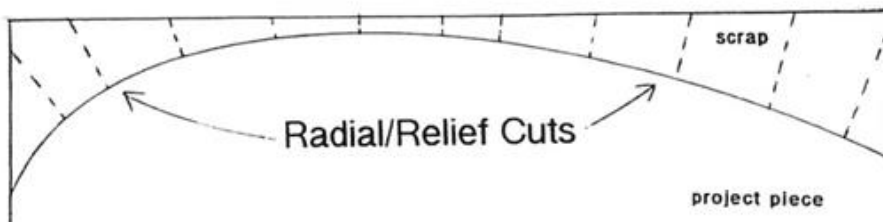
| | | | |
|-----------------------------|--|----------------|----------------|
| Access: Gold card | Control: Sign out form and key access. Sandpaper: 80 grit | | |
| Material Limitations | | Minimum | Maximum |
| | Width | 1/4" | 7" |
| | Length | 2 1/4" | |
| | Thickness | 1/32" | 3" |
| Restrictions | <p>If you are not sure how to INDEX the machine get the Mentor to show you.</p> <p>Make sure the conveyor belt and sanding drum are in good condition. Check with Shop Manager.</p> <p>This machine is NOT a planner, jointer, or glue removal tool – don't attempt to use it as one.</p> <p>No glue, nails, oil finishes, paint, or dirt/gravel in wood</p> <p>Don't stand directly behind conveyor belt in case of Kickback.</p> | | |
| Operations | <p>Keep stock between Feed Lines</p> <p>Register/INDEX the sanding drum to wood thickness. (See poster at Sander _67B_ for indexing procedure.)</p> <p>DO NOT take more than 1/8 turn on the handle before next pass. For best results make 3 passes at same setting.</p> <p>If working with stock of varying thickness, always start with thickest board before running all boards at the same setting.</p> | | |
| Tips | <p>Keep fingers away from in-feed and out-feed table rollers while sanding to avoid being pinched.</p> <p>When finished, carefully clean the drum with the eraser stick and clean the conveyor web with hand brush or air hose.</p> | | |

IN DOUBT ASK FOR HELP

Powermatic Bandsaw #21B

| | |
|-----------------------------|--|
| Access: Gold card | Control: None |
| Material Limitations | Cutting pressure treated wood is not permitted. |
| Restrictions | <p style="color: red;">Tightest curve that may be cut with a 1-inch blade is an 8" radius. Use relief cuts on all tight curves. When cross cutting logs or other round stock use a V block sled. When resawing logs use jointer to create a flat surface to place on table. Cutting lathe waste blocks is only allowed with faceplate jig.</p> |
| Operations | <p>Adjust blade guard to 1/2" to 3/4 inch above wood. Set fence in desired location. Use low clearance fence jigs as needed to allow the blade guard to be as low as possible. When re-sawing, use the highest fence possible and feather boards. Table may be tilted. Return table to the flat position when complete and verify with square. Press green button to start. Make sure hands are not in direct line of cut. Use push sticks when near blade. Steer the wood through the cut straight or around a curve. Do not push wood against the side of the blade. Use red stop button to stop machine when completed. Press foot brake to stop blade. Disconnect machine before clean blade with wire brush. Clean up around machine including the floor.</p> |
| Tips | Cut to one side of the line and sand wood to line. |

*** WHEN CUTTING ARCS SMALLER THAN THE MINIMUM DIAMETERS ALWAYS CUT RADIAL RELIEF CUTS EVERY 3/4"-TO 1" AS SHOWN**



Powermatic Bandsaw #21A

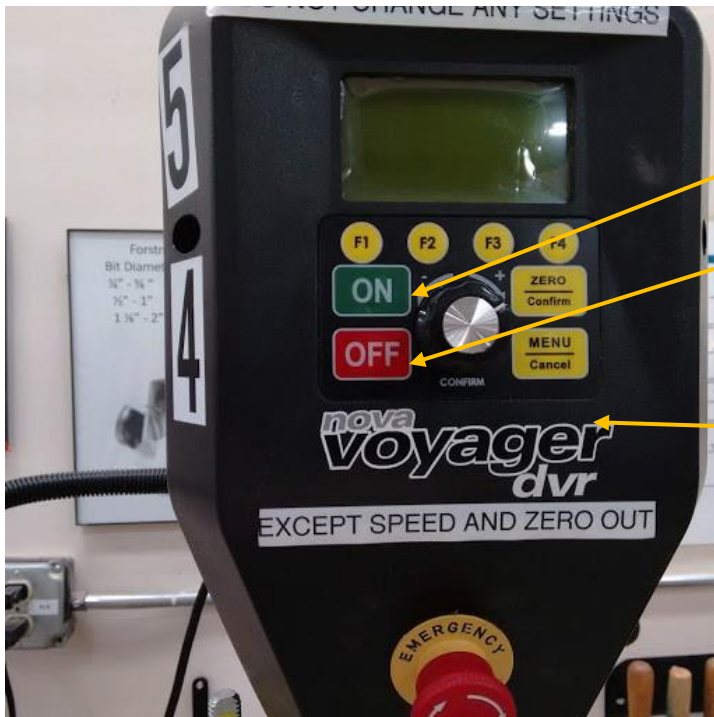
| | |
|-----------------------------|--|
| Access: Gold card | Control: Controlled |
| Material Limitations | No logs - No southern pine - No pressure treated wood |
| Restrictions | This saw is for resawing only. Material for resawing must have flat surface on fence and table. Tilting table is not permitted. |
| Operations | Resawing – Set fence in desired location. Adjust blade guard to 1/4" to 3/4" above wood. Use low clearance fence jigs as needed to allow the blade guard to be close to the wood while supporting as much of the height of the wood as practical. Use feather blocks to hold material against fence Press start button. Make sure hands are not in direct line of cut. Use push sticks when near blade. Press red stop button when finished. Use foot brake to stop blade. Clean up around machine. Sweep floor. |
| | |

Nova 54, 55 & 58 Drill Press

| | |
|-----------------------------|---|
| Access: Gold card | Control: None |
| Material Limitations | NO Burls/Logs/Branches or Pressure Treated wood |
| Restrictions | Tilting table is not permitted. |
| Operations | <p>Install bit and tighten using at least two of the holes.</p> <p>All bits 2 inches and greater must have hex shafts to prevent chuck damage.</p> <p>Turn on the main power switch. Screen will light up.</p> <p><u>Adjust speed before turning on the spindle.</u></p> <p>Securely clamp or hold material to be drilled.</p> <p>Clean up around machine. Sweep floor.</p> |



First - Using the dial adjust the speed based on the bit and type of material. Press knob in while turning to get to the exact speed.



Second - Press the ON button to start the drill

When complete press OFF button.

See Manual for detailed instructions for use of other

Forstner Bit Speeds

Nova Drill Chart Hardwood

| Bit Diameter | Max. R.P.M. |
|--------------|-------------|
| 1/4" - 3/8" | 800 |
| 1/2" - 1" | 500 |
| 1 1/8" - 2" | 250 |
| 2 1/4" - 3" | 250 |

All bits 2 inches and greater must have hex shafts to prevent chuck damage. 3/22/2022



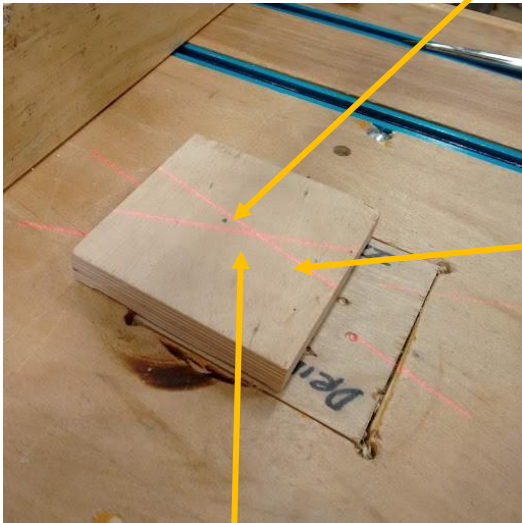
[This Photo](#) by Unknown Author is licensed under [CC BY-SA](#)

#54 Nova Drill Press Supplement – Laser Light



Turn on light.

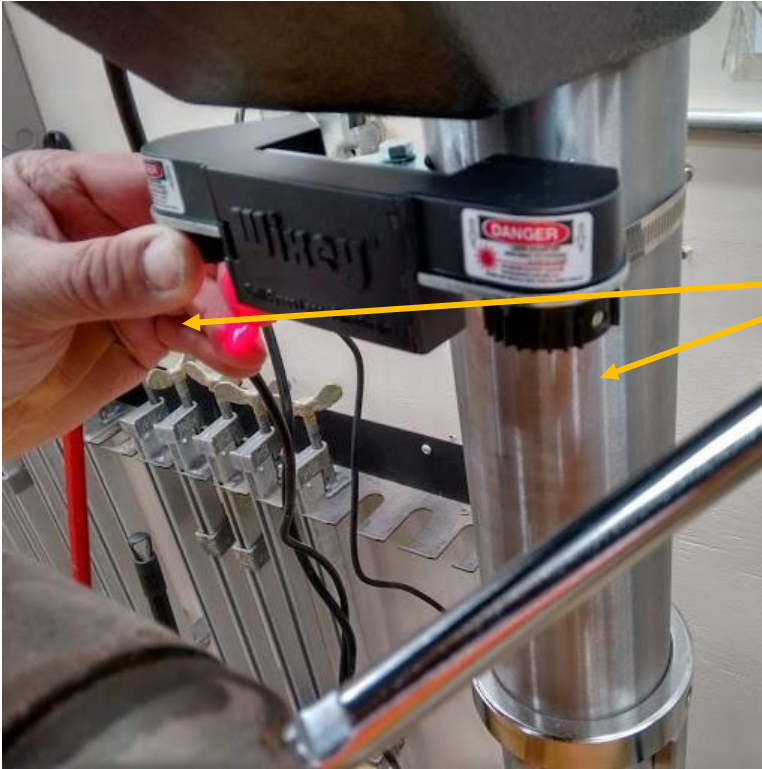
Lower drill bit to material and mark the desired drill location.



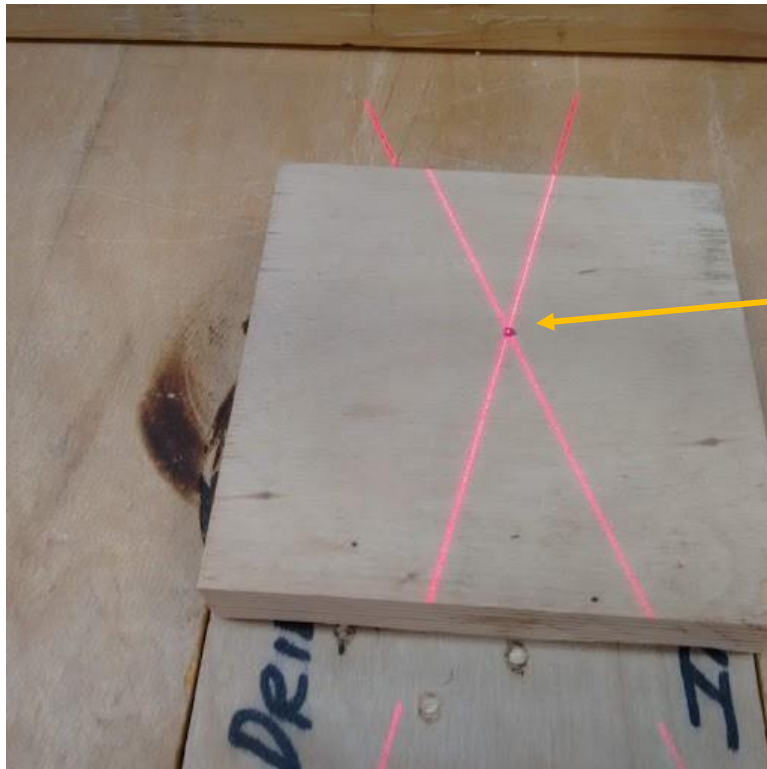
Depending on the table height or thickness of material, you will need to adjust Laser aiming.

This is not aimed at the dot.

Desired drill location.



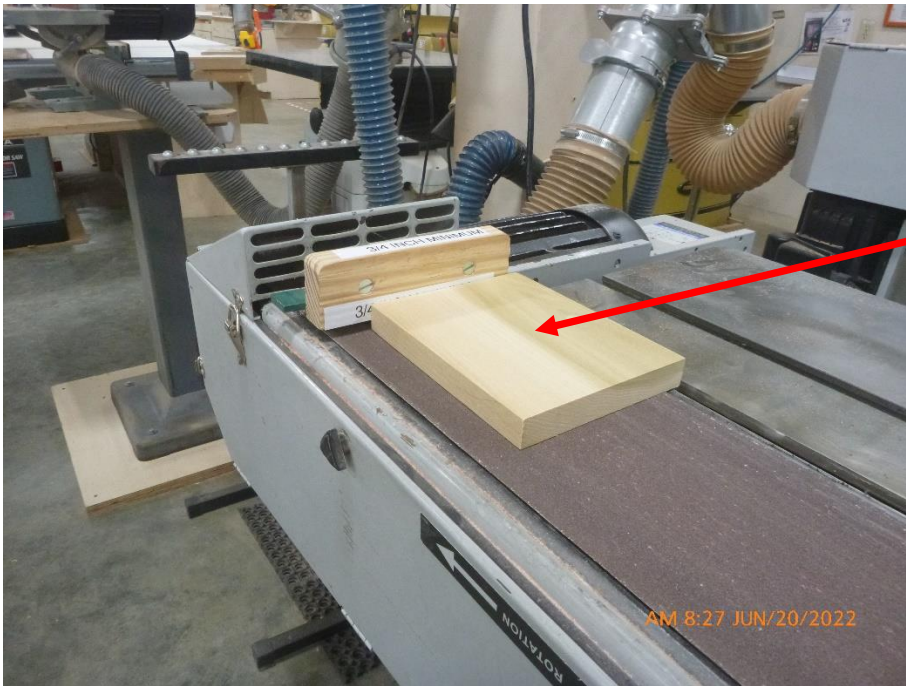
Using the two knobs on the lights, turn until lines cross at the marked dot.



Lines correctly set.

Oscillating Edge Sanders #62 a and b

| | |
|-----------------------------|---|
| Access: Gold card | Control: None |
| Material Limitations | Minimum thickness - 62A - 3/4 inch 62B – 3/8 inch Pine and pressure treated wood not permitted |
| Restrictions | Scrape glue before sanding. Make sure the belt sanding material is in good condition. Report damaged sanding material. |
| Operations | Keep control of your work. Apply even, light pressure. Place work against stop to increase your control. Do not let the belt grab your work and launch it into the shop. When finished, carefully clean the belt with the eraser stick and clean the table with hand brush or vacuum. Sweep floor. |
| Tips | You do not need apply too much pressure. Let the sander do the work. |



Work piece must be at least 3/4" thick.

Saw Trax #2640 Panel Saw (#20)

| | |
|--------------------------|----------------------|
| Access: Gold Card | Control: None |
|--------------------------|----------------------|

| Material limitations | | Minimum | Maximum |
|--|--|---------|-------------|
| Vertical Cuts (before cut) | 18" or larger | | |
| Horizontal cuts (same) | 6" or larger | | |
| Thickness | 3/8" * | | 2 ¼' |
| <i>* To cut thinner material see Shop Manager.</i> | | | |
| Rotate saw for vertical or horizontal cuts | <ul style="list-style-type: none"> • Lock saw in stationary position with both large black Tee handles. It makes rotating the saw easier. • Pull the 2 small black knobs up, slightly rotate saw carriage, and then release the black knobs. Complete rotation by spinning the saw motor carriage until pins reset in the new location. • <u>DO NOT USE THE BLACK KNOBS</u> to completely rotate the unit, since this may damage the unit. • Ensure direction of feed is correct • Unlock saw from stationary position. | | |
| Tips | <ul style="list-style-type: none"> • If you are unsure how to use this saw, <u>ASK for Help.</u> • In addition to the on-duty Mentor, Sal Livigni, Mike Antonelli, Mitch Hubelbank, Jim Bedient, Nick DiMona, Neal White, and Jim Scott are very knowledgeable in using this tool. • You get less tear out if you cut with good facing to rear. • Ensure material lays flat against saw table. • Double check your dimensions of cut. • When finished, clean up saw and area around it. | | |

| | |
|--|---|
| <p>Vertical Cuts</p> <p><u>Recommended:</u> <u>Largest section of panel should be under the hold down brackets</u></p> | <ul style="list-style-type: none"> • See directions above to rotate saw, if needed. • Ensure saw carriage is locked in Vertical position and slides freely on tubes. Make sure saw carriage is fully above top of stock to be cut. • Insert material with largest part under the hold-down brackets. • Slide stock to left till front edge lines up with desired dimension on the measuring tape. Located on bottom rail. • Ensure stock is sitting tight to saw table. • Turn on saw and cut from top downward. • Wait till blade stops completely before you raise saw carriage and remove stock. |
| | |
| <p>Horizontal Cuts</p> <p><u>Recommended:</u> <u>Feed stock on to Saw .</u> <u>Right to Left</u></p> | <ul style="list-style-type: none"> • See directions above to rotate saw, if needed. • Ensure saw carriage is locked in Horizontal position. • Set upper marker (<u>Highlighted in GREEN</u>) to desired dimension for cut. Secure the saw by tightening both large black Tee handles. • Ensure material is sitting tight to saw table and outfeed area is clear. • Start saw. • Support your stock as you push toward blade. • Safely push or pull stock through blade to complete the cut • CAN NOT use fingers |
| <p><u>If feeding stock</u> <u>Left to Right</u></p> | <ul style="list-style-type: none"> • Similar to above, except you use the lower marker (<u>Highlighted in Red</u>) • Can use fingers: See photos below • Please return fingers to original position and tighten knob |



Loosen knob to release fingers.




Turn pipe with fingers to the right to apply pressure against wood.

Scroll Saw JET

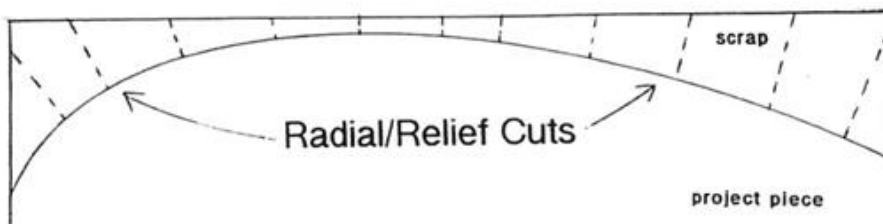
| | |
|--|---|
| Access: Gold Card | Control: None |
| Safety | <p>Keep fingers away from moving blade.</p> <p>Properly tensioned blade before operating. Failure to do so could result in blade breakage and possible injury.</p> <p>Never start saw with workpiece contacting the blade.</p> <p>Always hold stock firmly against table.</p> <p>Never reach under the table while blade is moving.</p> |
| Operations | <p>Turn off saw before backing stock out of an incomplete cut or removing jammed cut-off pieces.</p> <p>Make “relief” cuts before cutting long curves.</p> <p>When cutting large or oversize stock, always make sure material is supported at table height.</p> <p>Do not feed workpiece too fast.</p> |
| Changing Blades and Adjusting Tension | <p>Remove the blade clamp from below the cutting surface.</p> <p>Place the blade clamp in the cut-out space on the right side of the scroll saw base. Loosen the clamp screw slightly.</p> <p>Find the top of the blade by directing the teeth in a downward direction. Insert the bottom of the blade into the hole in the blade clamp. The blade should extend through the hole about ¼” and the teeth should be facing upward. Secure the blade by tightening the clamp screw.</p> <p>Thread the top of the blade through the hole in the cutting surface from below. Place the blade clamp into the slot provided.</p> <p>Be sure the tension lever is pushed all the way forward into its unengaged position.</p> <p>Guide the top of the blade into the center of the top blade clamp slit. Push the tension lever backward to secure the top of the blade.</p> <p>Feel the blade to be sure that the tension is taught yet slightly flexible</p> |

IN DOUBT ASK FOR HELP

Small Band Saws # 22, 23 and 24

| | |
|-----------------------------|--|
| Access: Gold card | Control: None |
| Material Limitations | None |
| Restrictions | <p>The tightest cut allowed for the ¼" blade is a curve with a radius no smaller than 1 ¼".</p> <p>Use relief cuts to minimize damage to blade and saw. See diagram below.</p> <p>When cross cutting round stock use a V block.</p> |
| Operations | <p>Adjust blade guard to ⅛" to ¼" above wood.</p> <p>Make sure hands are not in direct line of cut.</p> <p>Use push sticks when near blade.</p> <p>Steer the wood through the cut straight or around a curve. Do not push wood against the side of the blade.</p> <p>When re-sawing, use a fence.</p> <p>When backing up, turn off the saw, use a scrap piece of wood in front of blade and back up slowly.</p>  <p>Clean up.</p> |
| Tips | Cut to one side of the line and sand wood to line. |

*** WHEN CUTTING ARCS SMALLER THAN THE MINIMUM DIAMETERS ALWAYS CUT RADIAL RELIEF CUTS EVERY ¾"-TO 1" AS SHOWN**



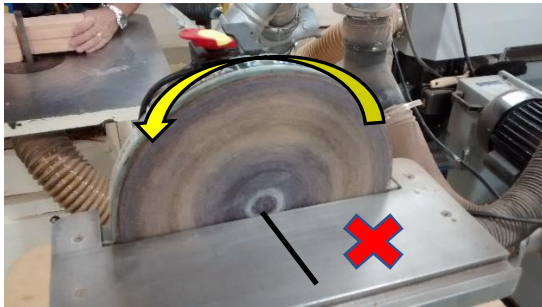

SANDERS 68A

| | |
|-----------------------------|---|
| Access: Gold card | Control: None |
| Material Limitations | None |
| Restrictions | Make sure the conveyor belt and/or disc material are in good condition. Report damaged sanding material. |
| Operations | <p>When sanding small pieces, use push stick, eraser or other fixture to keep fingers away from sanding material.</p> <p>When finished, carefully clean the drum with the eraser stick and clean the table with hand brush or vacuum.</p> |
| Tips | You don't need apply too much pressure. Let the sander do the work. |

IN DOUBT ASK FOR HELP

Sanders Miscellaneous #60A, B, C, 61 & 63A

Including: Powermatic Belt and Disc #60A and 60B,
Grizzly Combination #60C, Delta Combination #63A, Delta 12”
Disc #61

| | |
|-----------------------------|--|
| Access: Gold card | Control: None |
| Material Limitations | No pressure treated wood. |
| Restrictions | <p>Make sure the conveyor belt and/or disc material are in good condition. Report damaged sanding material.</p>  <p>Sand on left side of disc only.</p> |
| Operations | <p>When sanding small pieces, use push stick, eraser or other fixture to keep fingers away from sanding material.</p>  <p>When finished, carefully clean the sandpaper with the eraser stick and clean the table with hand brush or vacuum. Sweep floor.</p> |
| Tips | You don't need apply too much pressure. Let the sander do the work. |

IN DOUBT ASK FOR HELP

Powermatic 22-44 Drum Sander # 67A, B and C

| | | | |
|---|--|----------------|----------------------|
| Access: Gold card | Control: Sign out form and key access. | | |
| Material Limitations Sandpaper: 80 grit | For Sanding | Minimum | Maximum |
| | Width | 3/4" (19mm) | 22" (559mm) one pass |
| | Length | 2 3/8" (60mm) | |
| | Thickness | 1/32" (0.8mm) | 4" (102mm) |
| Restrictions | <p>This sander has a mini- computer in it. If you are not sure how to INDEX the machine, get the Mentor to show you. Make sure the conveyor belt and sanding drum are in good condition.</p> <p>This machine is NOT a planner, jointer, or glue removal tool – don't attempt to use it as one.</p> <p>No glue, nails, oil finishes, paint, or dirt/gravel in wood Don't stand directly behind conveyor belt in case of kickback.</p> | | |
| Operations | <p>Review the operation instructions attached to machine for detailed explanation of how to operate the controls. Be sure conveyor is off and emergency shutoff is not engaged. Turn on main power switch Register/INDEX sanding drum to wood surface. See poster on wall for steps 1 to 7 and below for step 8.</p> <p style="padding-left: 40px;">8) DO NOT take more than 1/8th turn of the wheel or 0.010 of an inch before next pass. Display will read -0.010. For best results make 3 passes before changing setting.</p> <p>If working with stock of varying thickness, always start with thickest board before running all boards at the same setting.</p> | | |
| Tips | <p>Make sure work area is clear & clutter free. Keep fingers away from in-feed and out-feed table rollers while sanding to avoid being pinched.</p> <p>When finished, carefully clean the drum with the eraser stick and clean the conveyor web with hand brush or air hose. Have Manager inspect tool before you leave it.</p> | | |

IN DOUBT ASK FOR HELP

Table Routers Woodpecker table routers # 90 & 92

There is a list of advisors qualified on this tool posted here to help you safely set up this tool. **PLEASE ASK for their HELP.**

No Jointing allowed on Router.

In-Feed and Out-Feed fence are fixed on both Woodpecker tables. No Adjustment allowed. There is a 38" straight edge on the accessory board to check zero offset, if adjustment needed get the help of the advisor.

Make sure Router is set for correct R.P. M's for size of cutter bit

There is a full chart showing the proper ways to use the new Woodpecker tables please review before you start,

Ensure Router is unplugged before installing and removing Cutter Bit.

Never use a dull, bent or damaged Cutter bit (see Tool Room Monitor.)

Do not adjust Bit depth (except for plunge cuts) or fence position while router is running.

Do not try to make your complete cut in one pass, **(maximum depth of cut is ¼")** rather make multi passes and keep adjusting bit height. Smaller cuts equal smoother finished products.

Use feather boards as necessary. Use push tools such as GRR-Riper or Coping Sled or push blocks for small pieces. Many accessories available to make operation safer & better results. ASK Mentor for help.

Never leave a running machine unattended.

Never attempt to machine on the router table with the material position between the fence and the cutter bit

ALWAYS feed work from right to left toward cutter

Keep Work area clean!!!

IF IN DOUBT ASK!!

#50 Drill Presse

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|-----------------------------|---|
| Access: Gold card | Control: None |
| Material Limitations | No pressure treated wood |
| Restrictions | Tilting table is not permitted. |
| Operations | Install bit and tighten using at least two of the holes. Adjust speed while drill is running as shown below. Recommend - Adjust speed to desired speed before installing bit. Securely clamp or hold material to be drilled. Clean up around machine. Sweep floor. |



Adjust speed before installing bit, based on the bit and type of material.
Crank to change speed.



ON/OFF button

Adjust speed before installing bit, based on the bit and type of material. Loosen black handle and pull or push to adjust speed and tighten.