

COMPOUND CUTTING

Woodworkers of Central New York - Scrolling Interest Group – February 27, 2024

TIPS:

- ✂ **Square Blade to table!**
- ✂ **Blades:** Use either a **regular or skip tooth blade**. Reverse tooth blades will slow down the saw action when cutting thicker woods.
- ✂ **Wood:** Select woods that are easier to cut – especially when beginning.
 - Group 1 (Very Easy) – sugar pine, white pine, basswood, redwood, aspen
 - Group 2 (Easy) – lacewood, red cedar, Spanish cedar, heart of the cypress, alder, canary wood, willow, ¾" birch plywood
 - Group 3 (Not Very Easy) – cypress (sapwood), mahogany, magnolia, particle board,
 - Group 4 (Not Easy at All) – black walnut, lauan, red oak, solid surface (*aka corian*)
- ✂ **Stock:** Always be sure that your stock is absolutely square.
- ✂ **Pattern:** Use a steel ruler to help with folding patterns in half before applying to your wood.
- ✂ **Over the Pattern:** Cover with clear packing tape. Have more on hand to use when reassembling..
- ✂ **Cutting:** Resist the temptation to *push* hard as the blade could push sideways and distort your piece. When you feel the blade resist, back off a little and let the blade clear the sawdust and do its work.
- ✂ **Cutting:** For best results, cut to the waste side of the lines to avoid removing too much material on the more delicate sections. Some of the patterns will have frets/interior cuts. Drill for all interior cuts before cutting. Cut these first.
- ✂ **Holding the Project:** Either build a jig or create a quick one to hold your piece safely. The jig (reverse) is useful for many different projects. You can also use a couple small Jorgensen clamps to hold the piece. Or you can also use just two blocks of wood and a couple of good clamps to hold the projects like right. Tighten the grips only snug enough to hold but not so tight that they interfere in the blade moving through the kerf. You should be able to back a moving blade out of the kerf.



BOOKS:

128 Compound Scroll Saw Patterns by Sam Keener
3D Patterns for the Scroll Saw by Diana Thompson
3D Scroll Saw Patterns & Techniques by Henry Berns
Scroll Saw 3D Animals by Judy Erickson
Compound Christmas Ornaments for the Scroll Saw by Diana Thompson
Compound Scroll Saw Creations by Diana Thompson
Wooden Chess Sets You Can Make by Diana Thompson

WEBSITE:

<http://www.unclejohns.com/scroll/default.htm> - can purchase a couple sets of patterns here -*pay less & have sent via email!*

Pinterest: Good searches

“3d-scroll saw-ideas”

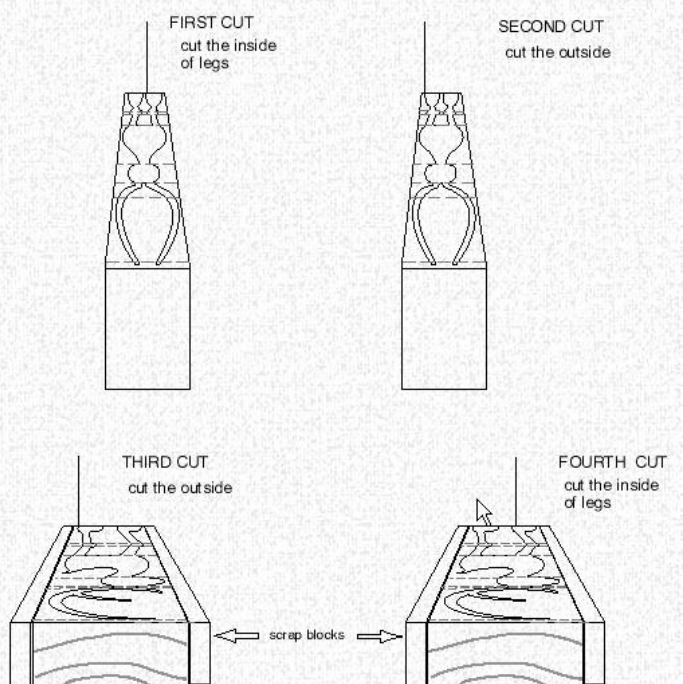
“scroll saw compound cut”

Videos: Several videos are available on YouTube showing how to cut.

CUTTING

The same cutting sequence is followed in all patterns.

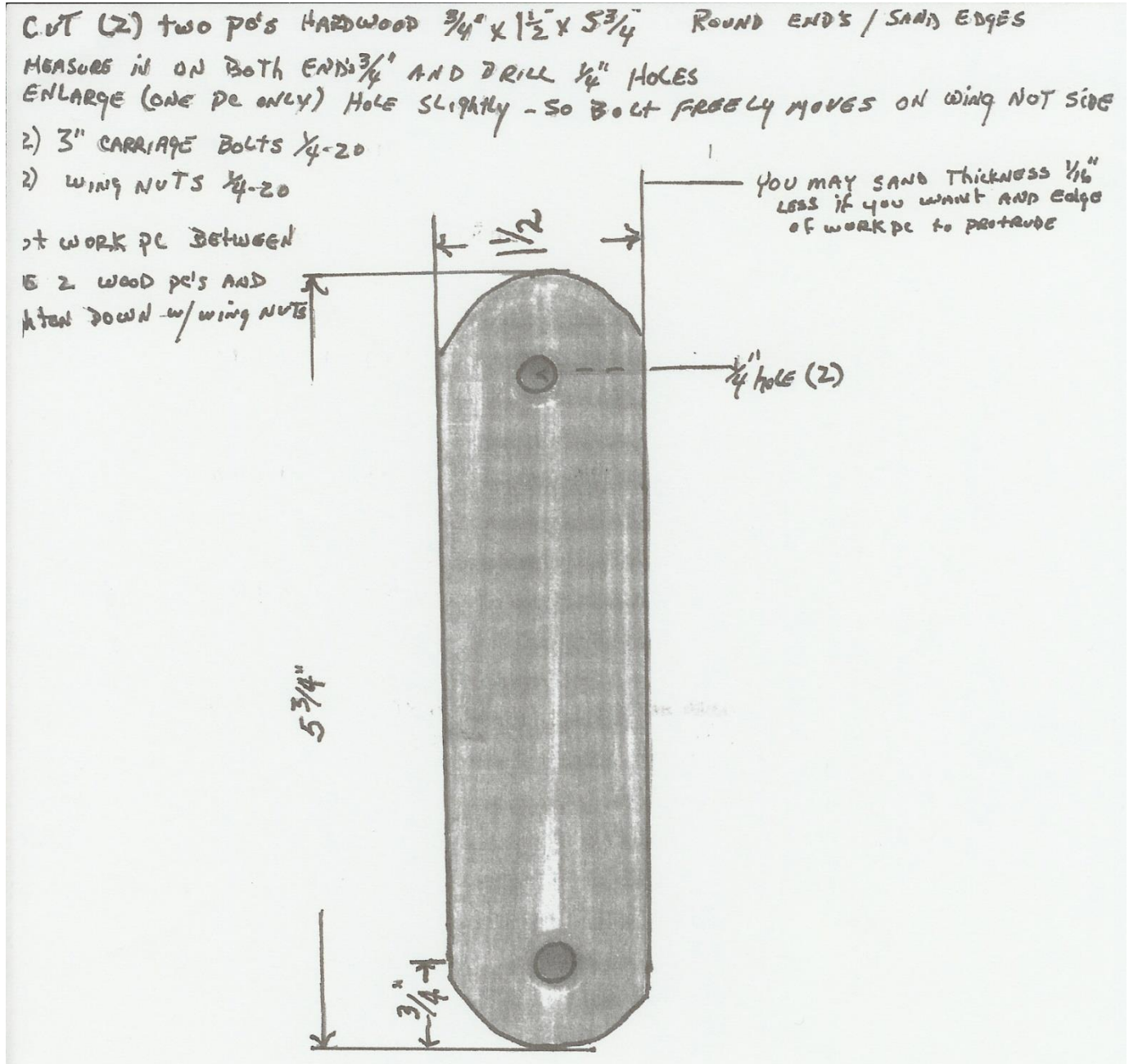
ALWAYS CUT THE LONG SIDE FIRST



Jig to Hold Pieces for Compound Cutting

Steve Good has a pattern for a jig on his website – Scrollsaw Workshop Catalog - <https://www.stevedgood.com/catalog/>

This is another option that was created many years ago by a former member. Remember, this is only a suggested set of measurements. You can make multiple jigs depending on the size of pieces you make.



Patterns for Compound Cutting

Steve Good – Free from his website – Scroll Saw Workshop Catalog (<https://www.stevedgood.com/catalog/>)

Use the words “compound cut” in the search feature; also “3D”; First pattern is for a *compound cutting jig*

Mini Vase	Mini-3d Ornaments (10)	Ribbon Box – <i>ribbons are compound cut</i>
Square Ribbon Box	2015 Christmas Ornament	Christmas Tree
Bird House Ornament (<i>bird is flat cut</i>)	<i>Jesus Christ</i> [in a block]	<i>Jesus Lives</i> [stands up]
Love Wood [stands up]	<i>Veterans Blocks</i> [each branch except space force]	Candle Stand
<i>Love Wine</i> [stands up]	Four Ornaments	Tea Light Stands
Initial Ornaments	Back Scratcher	Rooster
<i>Love You to Pieces</i> [block]	5 pages of various sayings [blocks]	Xyz State Proud [blocks]
Flower & Vase	Enjoy Today [stands up]	Candle Stand
<i>Happy Easter</i> [block]	<i>Happy # Birthday</i> [block – up to 102 – number after Happy]	# Happy Birthday [block – up to 102 – number before Happy]
3D Love You	3D Nascar Drivers [block]	3D Chess
3D Deer		

Pinterest – Often leads you to bad links, but patterns are there

Scrollsaw Woodworking & Crafts magazine - On their website (scrollsawer.com), put “compound” into the general search function. Article from December 2019 – Compound Cut Ornaments w/pattern shows up. Others also. If you add the word into the magazine article search function, several others appear and reference different issues of the magazine

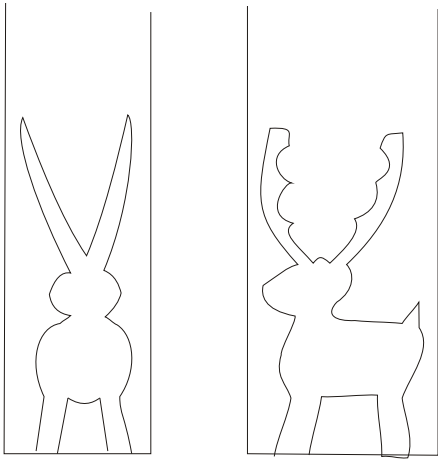
Books / Pamphlets

<i>21 Compound Cut Christmas Ornaments</i> – A collection of ornaments from Sue Mey – all probably published in the magazine at some point	<i>Compound Christmas Ornaments for the Scroll Saw</i> by Diana Thompson
<i>3-D Patterns for the Scroll Saw</i> by Diana Thompson	<i>Wooden Chess Sets You Can Make</i> by Diana Thompson
<i>Compound Scroll Saw Creations</i> by Diana Thompson	<i>128 Compound Scroll Saw Patterns</i> by Sam Keener
<i>3D Scroll Saw Patterns & Techniques</i> by Henry Berns & Henry Berro	<i>Compound Cut Wooden Hardware</i>

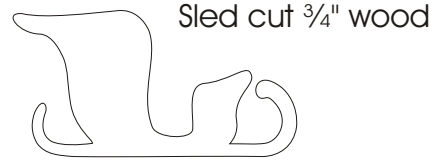
Other Patterns (Note: (DT) are patterns by Diana Thompson [W] = Available on the Winfield website)

Sue Mey has several on her site – *Scrollsaw Artist* all of which you can download directly. Her patterns are also sold on *Wooden Teddy Bear* but then mailed to you in hard copy.

Toothpick Holders Pattern Set (DT) [W]	Mini-Furniture Designs (DT) [W]	Blossom Cross Plaque (DT) [W]
Icicle Ornaments (DT) [W]	Mini Ornaments (DT) [W]	Aquatic Animals (DT) [W]
Fantasy Figures (DT) [W]	Angel Ornaments (DT) [W]	Birdhouse Ornaments (DT) [W]
Mini Poinsettia & Vase (DT) [W]	Mini Columbine & Vase (DT) [W]	Mini Azaleas & Vase (DT) [W]
Dogwood & Vase (DT) [W]	Dogwood & Vase (DT) [W]	Mini Venus Flytrap Bog (DT) [W]
Fantasy Flowers & Vase (DT) [W]	Daylilies & Vase (DT) [W]	Wild Roses & Vase (DT) [W]
Poppies & Vase (DT) [W]	Bitterroot Flowers & Vase (DT) [W]	Star Flowers & Vase (DT) [W]
Buttercup Flowers & Vase (DT) [W]	Sunshine (DT) [W]	Bouquet of Flowers (DT) [W]
Vase of Flowers (DT) [W]	3-Tiered Heart Box w/Flowers (DT) [W]	Lace Vase (DT) [W]
Vase of Valentines (DT) [W]	Nativity Pattern Set [W]	Deer Family Pattern [W]
Ornament Patterns [W]		



Start with a piece of $\frac{3}{4}$ " pine about 1" wide and 6" long.. You will be using just the end off of it, the rest is just for something to hang onto while you cut the deer out.



The first cut is the outline of the front of the deer onto the $\frac{3}{4}$ " side of the wood. Try not to cut out the sides of the wood when cutting this shape.

I like to start here and cut up the leg, around the chest, in at the neck, out for the head, around for the head, up the antler, down the inside of the antler to the top of the head, then up the inside of the other antler, down the outside of the antler, around the head, in at the neck, around the body, and down the leg.

Anywhere close to this shape will work fine. Just try to cut one side then as you are cutting down the other side try to match the top of the head, the neck, and legs to the first side.

Then cut the legs out. Try to cut up the leg, a little round for the belly, down the leg. The leg thickness should match on both legs.

Now cut the waste off of one side at the top of the antler so that you can see the profile you just cut. Lay the piece on the side and cut the outline below.

With this side cut away you can see where the body and head and antlers are so that your cuts below will match those locations

Starting at the front leg cut up to the chest, around the chest and in at the neck, out and around the nose back to the antler, up the antler, coming down the antler cutting the points to the head, back up the inside of the antler, around the tip, down the outside, around the back of the head curving into the back, along the back to the tail, up and down for a tail, around the rump, and down the leg.

Cutting the legs with a slight dip for the belly, try to keep the front and back legs the same width.

Now slide the deer out the side and remove the waste pieces. Your deer is complete.

I have this deer down to 19 seconds to cut out, so enjoy!!!!

