

When Good Wood Cracks IRD Demonstration and Follow-up Remote Clinic

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September 29, 2020 Final Draft

A shortcoming of Remote Demonstrations is the inability to conduct a hands on clinic to reinforce the knowledge gained from the demonstration. To address this shortcoming there will be a follow up Zoom session two to three weeks after the demonstration. The session will be limited to 10 individuals and run 2 to 3 hours. Each technique will be reviewed with the group and any questions answered by the demonstrator. Participants are encouraged to attempt the techniques prior to the clinic session and bring their successes, and their failures, to the session. Some might even be able to participate from their respective shops. Additional repair techniques will be demonstrated, time permitting.

Normally I would bring with me the tools needed in the clinic. Covid has ruled that out, so I have put together a detailed list of the tools normally supplied for students. The tools are arranged by repair technique. This give attendees the opportunity to purchase the correct tools prior to the clinic that are not in their kit. Attendees may also elect not to “tool up” for each and every process shown.

Tools and Materials

Holding Methods

2 bolts 1 x 8 x3 or 1 ¼ x 8 x 3 - These can be sourced at hardware store with a robust inventory or a farm supply store.



Fun Foam – This is available at Walmart in the craft section as well as Michael's or Hobby Lobby. About a dollar per sheet. I prefer the adhesive backed sheets about 1/8 inch thick.



4” or 6” PVC couplings for vacuum hold stand. The couplings are thicker than the pipe and give more surface area where it is important.

Dutchman or Butterfly

Hot Glue Gun – My favorite is Dewalt Rapid Heat Ceramic Glue Gun (\$20-25) among the four that I have.



Blue Painters Masking Tape – any box store

Big Island Inlay starter kit - \$30 plus shipping. Kit includes either a .7 or a .9 inch template and 20 or so butterflies. Two different sizes. Contact me for the starter kit at Dennis.M.Belcher@Gmail.com



Bowl, vessel or just a board to practice the technique on.

The lighter weight of a trim router makes it easier to control when routing out the cavity. Larger routers will work, but the weight makes them more difficult to use. I looked through routers last year and thought that Makita RT0701C 1-1/4 HP Compact Router would be my choice today. About \$100



Router Template Guide – Freud FT1500 Inlay Template Guide Set with Router Bit. Any of the box stores or specialty woodworkers stores. About \$30.



Splines

Plate Joiner /Biscuit Cutter. I use a DEWALT Plate Joiner Kit, 6.5-Amp (DW682K) About \$170. Any brand is fine.



A glue gun is needed. I use the DeWalt Rapid Heat Ceramic glue gun mentioned about.

Spline material will be needed. Use a wood with a contrasting color. The key is that the material be thickness planned to the same thickness as a biscuit. I use a thickness planner. A drum sander would work as well. The curve is best cut with a scroll saw. A pocket knife, a hand coping saw, or power sander would also work.



Using a band saw with these small pieces is dangerous. Please do not attempt. I would hate for you to loose a finger to a band saw as I have.

Bolt it Up

This technique is two biscuit slots cut in a vertical orientation. Use the plate joiner and glue gun as you did in Splines. To this add a scrap of wood to form a shelf for the biscuit joiner to register on. The scrape of wood can be any size, but I use a piece one inch thick, two inches wide, and 4 inches long.

Standard bolts that you have on hand complete the needed supplies.

Lacing

Transparent Grid - EZ Quilting #88882670027 Quilter's Template Plastic Assortment. The Grid can be found in the quilters section of Michael's/Hobby Lobby or Amazon.

This is the awl that has been in my kit for decades. Ten dollars on Amazon, or any hardware store.

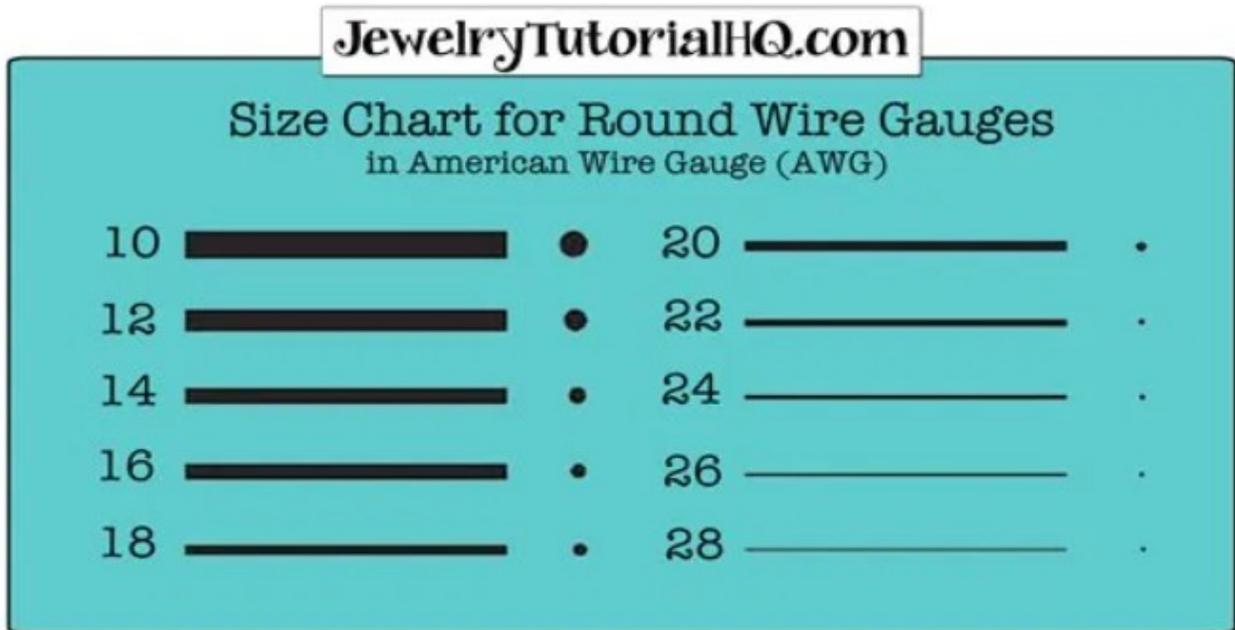


Set of twist drill bits. The smaller sizes will have the greatest use.

Lacing material is easily found at Michael's or Hobby Lobby. Just walk the aisles and pick up what catches your fancy. Also, if you walk through your favorite hardwood store with lacing material on your mind, you will be astounded at the choices.

In the Wall Staples

My kit includes 14 through 24 gauge jewelry wire. The lower the number, the thicker the wire. For staples that will be buried in wall of a vessel 14 or 16 gauge wire work well. Jewelry wire comes in differing color and metal. A variety is good.



When viewed or printed to scale, blue box above measures 5" x 2.5" (127 x 63mm)

Side cutters will snip a wire cleaning without leaving a burr. Amazon or your local hardware store are good sources. Around \$5.



Jeweler's pliers make pulling lacing and wire much, much easier. They should be spring loaded so that open automatically.

This looks to be a reasonable choice for \$20 on Amazon. WORKPRO 7-Piece Jewelers Pliers Set Jewelry Tools Kit with Easy Carrying Pouch (Blue)



A box of toothpicks come in handy.

Bottle of Titebond II.

Staples – Thru the Wall

Length of copper house wire, 12 gauge.

Hammer with a smooth head. Any imperfections in the surface that strikes the copper with leave marks in the copper staple. Euro Tool Riveting Hammer, 4 ounces, HAM-202.00 is in my kit. About \$20.



Flattening surface can be any metal surface free of imperfections and strong enough to stand a little beating. Do not use the lathe ways! I use 4" x 3/4" x 4" Steel Bench Block – JT34443SB from Amazon. About \$16.00.



Cut It Out

Search the internet as an image for Free Line Art and you will find an endless supply of pictures on any object.

Elmer's Non-Wrinkle Rubber Cement is readily obtainable.

Tongue depressors and a little sandpaper are great for cleaning up after using your coping saw.

A \$10 coping saw is great for cutting out at the rim.

