



*Photo 20: The 2nd project was the music rack. Although the replacement rack from Schaff looked promising, it turned out to have a core made of MDF, which I found unacceptable – it soaks up stain like a sponge, and keep turning back to its light color after the stain was absorbed.*



*Photo 21: I decided it would be better to see what could be done with the old rack. The damage was compounded by the fact that repairs had apparently been attempted before. Old glue made a perfect fit impossible. Here's the condition of the left support.*



*Photo 22: The middle support, with missing veneer.*



*Photo23: The right hand support. It was obvious that this would be a more complicated repair than the broken leg.*



*Photo 24: The problem with old glue is that it gets down in the crevasses of the damaged area and is impossible to cleanly remove. The only cure for this is to cut off the damage, and start with a clean slate.*



*Photo 25: Before going any further, patterns were made of the profile of each of the three support sections.*



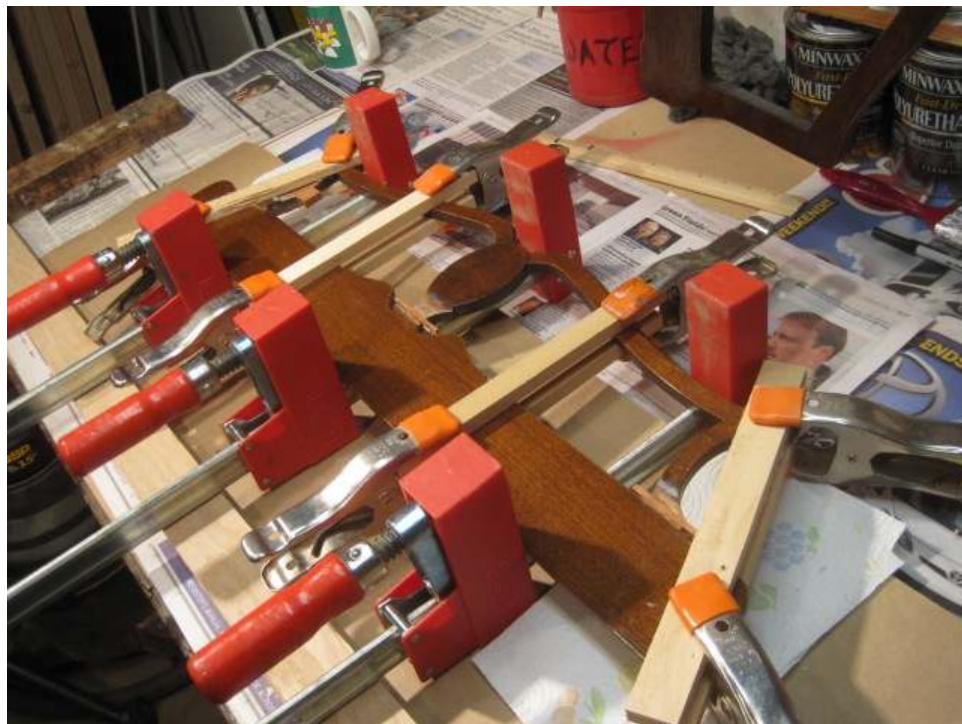
*Photo 26: Each of the six broken edges is trimmed off on the table saw, removing as little wood as possible, but enough that a flat surface is achieved.*



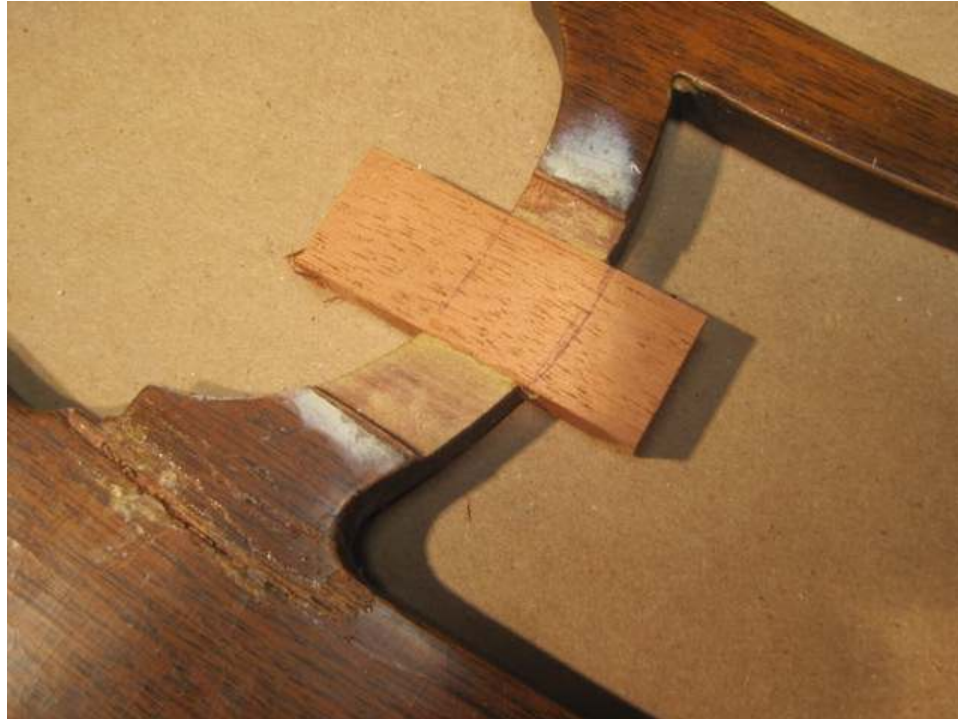
*Photo 27: Now, by using the paper pattern, the exact width of core wood needed to fill in for the missing wood can be determined..*



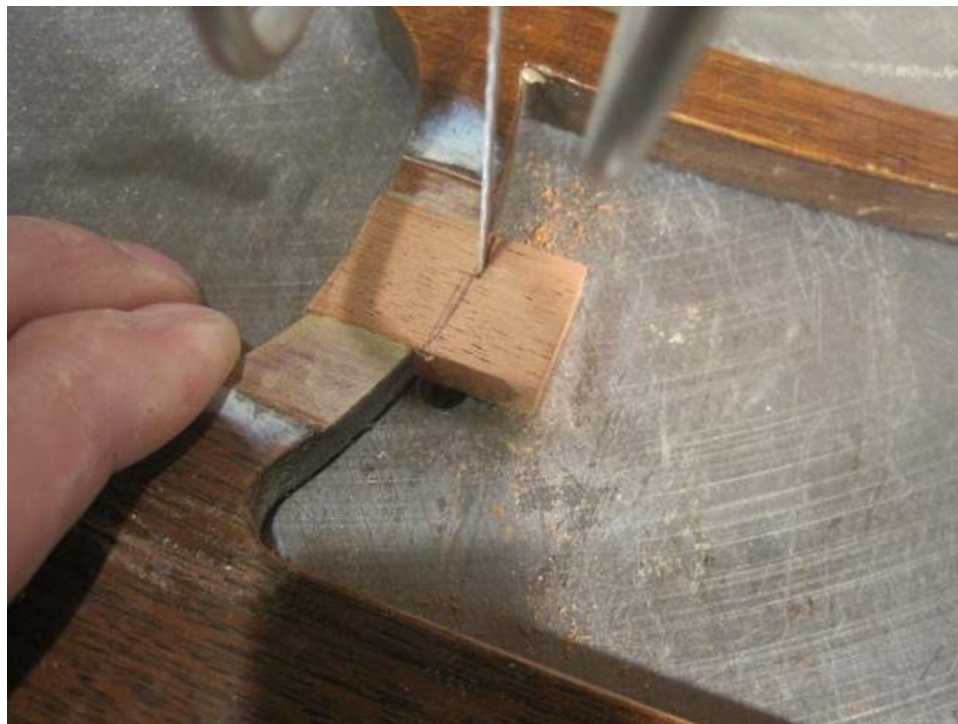
*Photo 28: Here, a test cut in a block of mahogany is checked for correct dimension.*



*Photo 29: With the new core wood glued in place, clamps are used overnight to ensure a lasting bond. The sets of small spring clamps keep the alignment square.*



*Photo 30: The left hand support with new core wood. Notice that the veneer has been cut back even further. This is so that new veneer will overlap the replaced core segment, making for a stronger bond yet.*



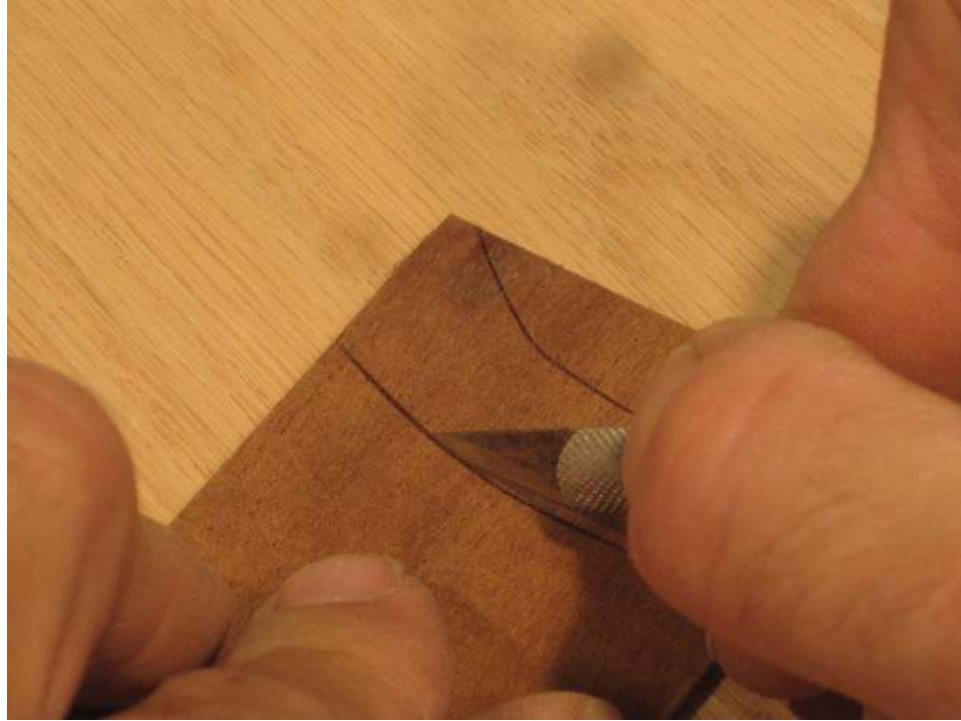
*Photo 31: The replaced segment of core wood is trimmed on the jig saw.*



*Photo 32: After rough cutting, the remaining excess is filed off, then sanded to a smooth finish*



*Photo 33: The middle support, with its core wood repaired, ready for new veneer.*



*Photo 34: The outline of the needed patches are drawn onto veneer, then cut out with an Exacto-Knife.*



*Photo 35: For the correct thickness, two layers of veneer are needed.*





Photo 36: The middle support, with new veneer in place.



Photo 37: The repaired right-hand support.



*Photo 38: Meanwhile, the legs have been finished. Here, one of 6 coats of polyurethane is applied to the repaired leg.*



*Photo 39: After the each coat, the legs were buffed with 0000 steel wool.*