

## HURDY GURDY BLUEPRINT GENERAL OVERVIEW

The Hurdy Gurdy is a complex project, especially for scratch-building from blueprints. You will need a shop full of power tools, including table saw (with dado blade for two operations), planer, drill press, jointer, buffing wheel, and band saw in addition to normal hand tools. The project involves bending the sides of the body, making a round wooden wheel, a scroll-shaped peg head for the tuning pegs, and doing a little metal-working to shape and polish the brass crank. Once the instrument is assembled, you'll do some careful detail work to get the strings to rest nicely on the wheel so they play clearly. We offer a useful DVD showing how to install the strings and notch the bridges for proper tuning and playing. Note that the plans show violin tuning pegs, which are traditional, but we have switched to geared tuners on our hurdy gurdy because they are so much easier to use.

### BILL OF MATERIALS (WOOD)

QTY	PART	TYPE OF WOOD	ROUGH SIZE	NOTES
1	Heel Block	Good Hardwood	2-1/2" X 2-1/2" X 3-5/8"	
1	Tail Block	Any Hardwood	3/4" X 3-5/8" X 3-5/8"	
1	Drilled Brace	Any Hardwood	3/4" X 7/8" X 12"	
2	Support Blocks	Any Hardwood	5/8" X 5/8" X 2"	
1	Triangle Brace	Any Hardwood	3/4" X 2" X 11"	Tilt saw blade and cut triangle along one edge of 2" wide block
1	Soundboard (top)	Good Softwood	1/8" X 14" X 20"	Spruce, Cedar, Redwood, Mahogany edge-glued on centerline
1	Back Panel	Good Plywood	1/8" X 14" X 20"	Or use solid hardwood -- two 7" wide pieces edge-glued together
1	Peghead	Good Hardwood	3/4" X 3-1/2" X 30"	Cut, drill, and stack according to plan
2	Sides	Good Hardwood	1/8" X 3-5/8" X 27"	Bent to shape of instrument
4	Lining Strips	plywood	1/8" X 1/2" X 25"	Cut across the grain for flexibility
2	Keychest Sides	Good Hardwood	1/4" X 2-5/8" X 14"	
1	Other Keychest parts	Good Hardwood	7/4" X 2" X 8"	Cut for bottom pieces and both ends of keychest
1	Chest Lid	Good Hardwood	1/4" X 3" X 15"	
12	Keys	Good Hardwood	1/4" X 1/4" X 3-3/4"	
1	Button Stock	Good Hardwood	1/4" X 3/4" X 11"	
1	Tailpiece	Good Hardwood	3/4" X 1-1/2" X 5-1/8"	
1	Wheel	Good Hardwood	3/4" X 5" diameter	Can be laminated with 3 layers, 1/4" each, for stability
1	Wheel Cover	Good Hardwood	1/8" X 1-3/4" X 9"	Bent to rest over the wheel
1	Various Small Blocks	Good Hardwood	3/4" X 2" X 10"	Cut to sizes shown
1	Melody Bridge	Good Hardwood	1/2" X 2" X 2-1/2"	See assembly instructions for shape
2	Dowels	Birch	1/4" X 2"	
24	Key Tangents	Good Hardwood	7/16" X 1" X 7-1/2"	We use cribbage pegs with a bump added on one side