Hadrian's Box

Kit Inventory

- Front, Left, Back and Right Inner Box Panels
- Inner Box Base Panel
- Outer Base Panel
- Two (2) Drawer Sides
- Two (2) Drawer Ends
- Drawer Locking Piece
- Drawer Bottom
- Two (2) Middle Lower Panels
- Two (2) Middle Upper Panels
- Front Slider Holder
- Back Slider Holder
- Left and Right Holder Panels
- Left and Right Runner Panels
- Top Holder Panel
- Top Runner Panel
- Two (2) Top Rails
- Two (2) Left End Rails
- Two (2) Right Upper Rails
- Two (2) Right Lower Rails
- Right Locking Piece
- Two (2) Outer Sliders
- Front and Back Outer Lower Panels
- Front and Back Outer Upper Panels
- Left and Right Outer Panels
- Outer Top Panel
- Bag of Black (.280") alignment pegs (20+)
- Bag of Orange (.150") alignment pegs (4+)
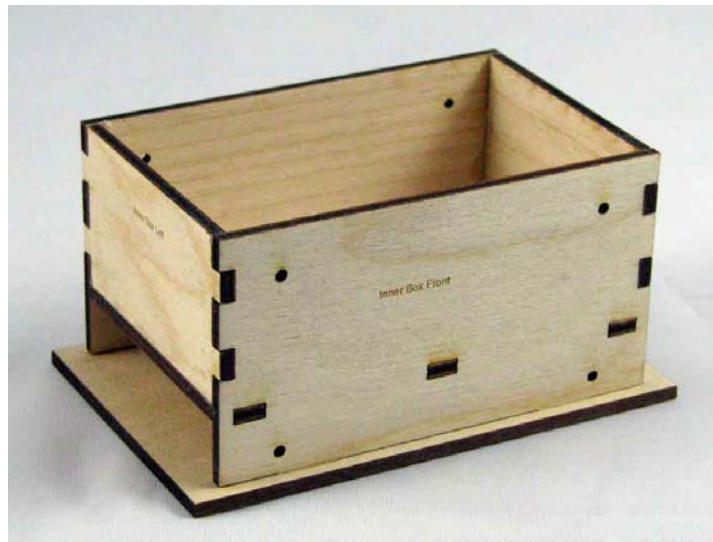
Other Items Needed

- Glue – I use a "craft" type tacky glue such as "Aleenes Tacky Glue" which can be found at craft stores like Michael's.
- Sandpaper - to smooth any rough edges and make parts slide easier.
- Wax/parrafin – also to make parts slide better.

General Notes:

- All writing on parts is oriented the same way on each side unless otherwise noted.

- This puzzle is assembled with the writing on the plywood pieces facing out. When the outer layer pieces are glued on the writing on those pieces faces inwards.

- The alignment pegs are of different lengths depending upon the number of layers that are being placed together. Be careful to use the correct length. The pegs are easier to push through the holes if you start them on the side of the piece that has writing.
- Check the fit before gluing and sand/file any pieces that do not slide smoothly
- I find that light sanding of the faces of sliding pieces makes for better boxes. I also use paraffin/candle wax on the surfaces to get smoothly moving pieces.
- I use Aleene's tacky glue for gluing parts. I glue the pieces and then hold them together for ~15 seconds and they will stay in place until the glue dries.
- Be careful when attaching outer sides, spacers and covers to keep glue away from areas where it might squeeze out underneath and get on any of the sliding parts. If possible glue those parts without the sliding pieces in place so you can clean up any glue squeeze out.

- Clean up glue squeeze out while the glue is still soft as it is much harder after it dries.

- When sanding flat sides it is better to place the sheet of sandpaper on a flat surface and move the puzzle piece over the sandpaper. This keeps the face flat and prevents rounding over the edges.

- If tabs seem too fat to fit in slots then sand them with a couple of passes of 100 grit sandpaper on each side of the tabbed piece.

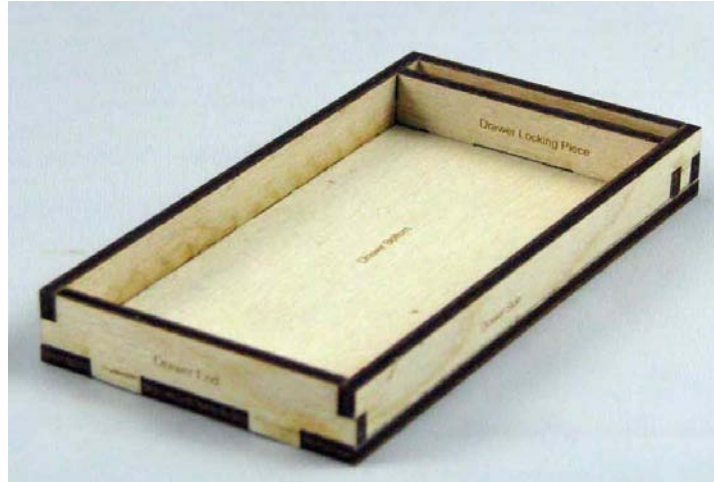- If tabbed pieces do not seat fully in the pocket areas, then sand the ends of the tabs .

Assemble Inner Box

Start by gluing the front, left, back, right and inner base panels together.

After the glue is dry sand the four sides of the box with 100 grit sandpaper to remove any ridges and make it smooth for any sliding pieces.

Assemble Drawer

Add Middle Layer Pieces to Front and Back

Add the middle upper and lower panels to the front and back of the box by using the black (.280") pegs. The pegs should be flush on the inside of the box.

After the pieces have dried test fit the front and back middle slider pieces and lightly sand the upper and lower edges of those pieces until they slide smoothly. You can add wax to the back and edges of the sliders.

The remainder of the assembly instructions are included when plans are purchased.

Apply Finish

If you are going to apply finish to the puzzle that should be done now. Sand the box, lid and end panels with 180/220 sandpaper and put on your favorite stain/finish or apply the paper decoration from Bruce's plan and finish with a clear coat. Be careful when applying finish on the front and back of the box so that the sliders do not get stuck by the finish. Many light coats of finish and making sure the sliders still move between coats works best. After the finish is dry you can assemble your puzzle and you are done.