

Cyrus Redblock

Kit Inventory

- Left and Right Inner Side Panels
- Front and Back Inner Panels
- Shelf Panel
- Base Outer Panel
- Drawer Left and Right Sides
- Front and Back Drawer pieces
- Drawer Stop and Two (2) Drawer Stop Supports
- Drawer Bottom
- Two (2) Front Rail Supports
- Left and Right Front Rails
- Front Holder Panel
- Front Upper and Front Lower Runners
- Front Slider Holder
- Front Upper and Front Lower Outer Panels
- Front Slider
- Left and Right Holder Panels
- Left and Right Top Runners
- Left and Right Bottom Runners
- Left and Right Slider Holders
- Front Rail Support (left side) , Back Bottom Rail Support (left side), Back Top Rail Support (left side)
- Front Rail (left side), Back Rail (left side)
- Front Rail Support (right side), Back Bottom Rail Support (right side), Back Top Rail Support (right side)
- Front Rail (right side), Back Rail (right side)
- Left Tongue, Right Tongue
- Left Upper Outer Panel, Left Slider, Left Lower Outer Panel
- Right Upper Outer Panel, Right Slider, Right Lower Outer Panel
- Back Holder Panel, Back Runner
- Two (2) Bottom Rail Supp. (back)
- Two (2) Top Rail Supp. (back)
- Two (2) Back Rails
- Back Outer Panel
- Two (2) Top Rails
- Top Holder Panel, Top Runner
- Top Outer Panel
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- Green/Red (.370") alignment pegs (12+)
- Blue (.220") alignment pegs (4+)
- Black (.280") alignment pegs (16+)
- Orange (.150") alignment pegs (6+)

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/paraffin – 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

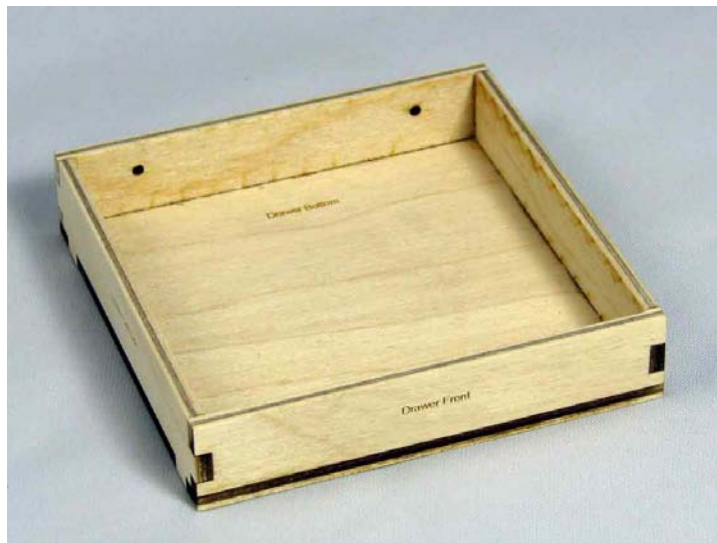
Start by gluing the front, left, back, right and inner shelf panels together.



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

Glue the right, left, front and back sides of the drawer together and then glue the bottom to this assembly.

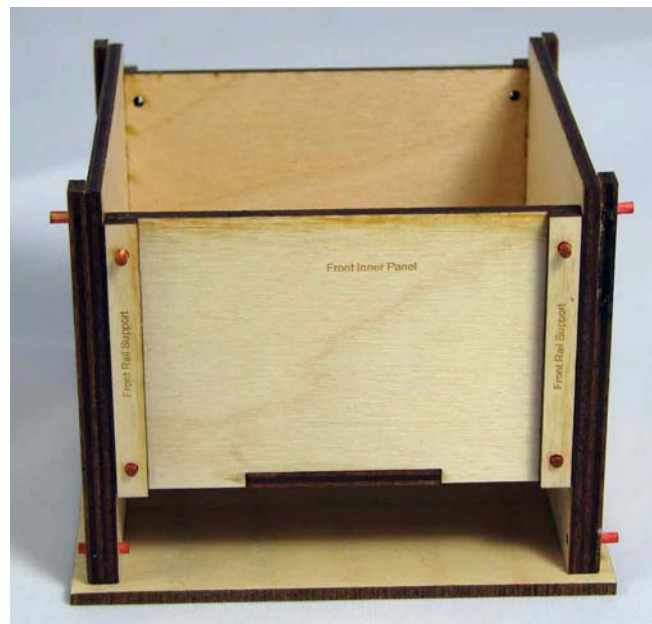


Glue the two stop support pieces to the back side of the drawer using the green (.370") pegs. Then glue the drawer stop onto those two pieces. After the glue has dried sand all sides smooth and test fit it in the box assembly. If it binds then sand the area of the bind until it moves smoothly.



Add Rail Support and Rail Pieces to all Sides

Glue the front rail support pieces to the front of the box using the green (.370") pegs. Glue the front rail supports (left/right side) to the left and right sides using the green pegs. Glue the back bottom rail supports (left/right side) to the back bottom of the left and right sides using the green pegs. The back top rail supports for the left and right sides are added next, but are a little tricky since they hang halfway off the back side. The easiest way to put these pieces on is to glue it along with the back panel top rail piece (Top Rail Supp. (back)) since these two pieces are against each other. The top of the first photo below shows how these are attached. The other three photos show how the front, left and right sides should look after adding the rail supports.



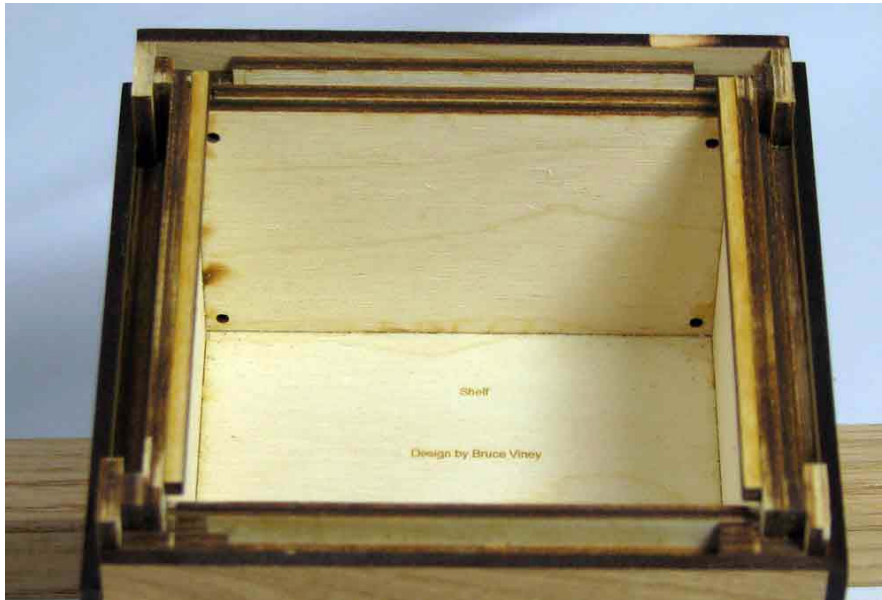
The Middle Section included in the full plans.

Glue the back outer panel to the back runner.



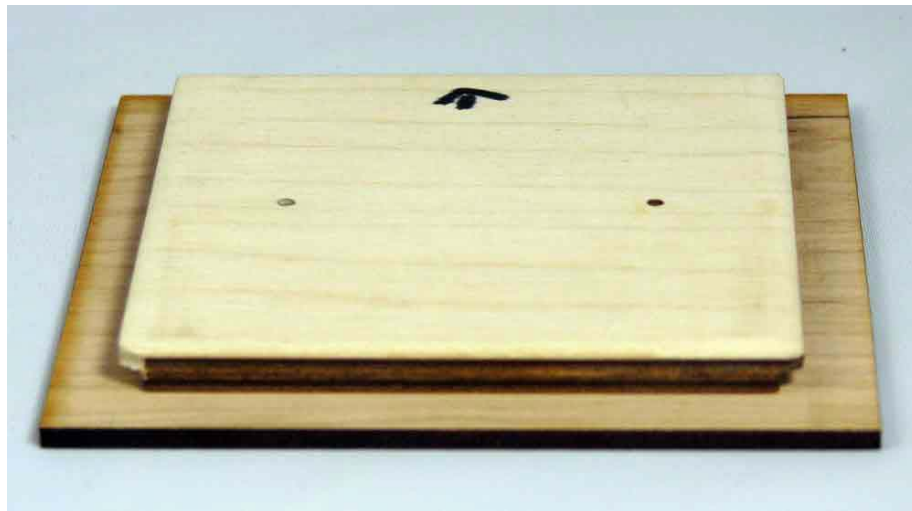
Add Rails

Glue the top rails to the top of the inside of the left and right inner box panels. The tops of the rails should be flush with the top of those box panels. The ends of the rails should be even with the outside of the front and back inner box panels.



Assemble Top Panel

Test fit that the top holder panel slides smoothly under the top rails and sand if necessary. You can temporarily hold the top holder panel and the top runner together with the black peg and make sure this assembly slides onto the top of the box smoothly. After everything moves correctly glue the top runner to the top holder panel using the black (.280") pegs. The pegs should be flush with the back of the holder panel and protrude slightly from the runner. Then glue the top outer panel to the runner panel aligning it with black pegs in the runner. Make sure all layers are glued well around the perimeter so the layers do not separate. Put some wax on the sliding surfaces of the pieces and test fit the assembly.



Apply Finish

If you are going to apply finish to the puzzle that should be done now. Sand the box, lid and front panel with 180/220 sandpaper and put on your favorite stain/finish and finish with a clear coat. Be careful when applying finish on the front and sides 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.

