

Kit Inventory

- Bottom Panel
- Front, Back, Left and Right Inner panels
- Front Lower Spacer, Front Upper Spacer and Front Middle Spacer
- Back Lower Spacer, Back Upper Left Spacer and Back Upper Right Spacer
- Left Lower Spacer and Left Upper Spacer
- Right Lower Spacer and Right Upper Spacer
- Right Inner Slider (front) and Left Inner Slider (front)
- Right Inner Slider (back) and Left Inner Slider (back)
- Inner Slider (right) and Inner Slider (left)
- Two (2) Moving Spacer (front)
- Two (2) Moving Spacer (back)
- Moving Spacer (right)
- Moving Spacer (left)
- Outer Panel (front) and two (2) Outer Slider (front)
- Outer Panel (back) and two (2) Outer Slider (back)
- Outer Panel (right) and Outer Slider (right)
- Outer Panel (left) and Outer Slider (left)
- Holder Panel (top)
- Runner Panel (top)
- Outer Panel (top)
- Two (2) Skirt Support and Back Skirt
- Two (2) Top Rails
- Bag of .280" alignment pegs (34+)

Other Items Needed

- Glue – I use a “craft” type tacky glue such as “Alenes 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.

- **Assemble the inner box to the bottom panel**

Start by gluing the front, left, back and right inner panels together with the writing on the panels facing out. The bottoms of the front and back panels have two short tabs that are used to align these panels on the bottom panel (the bottom panel has the writing facing in). Put glue around the bottom edge of the front, right, back & left panels and place it on the bottom panel with tabs in the notches of the bottom panel. Photo 1 shows how this assembly should look.



Photo 1 - Inner box assembly

After the glue has dried sand the sides with 100 grit sandpaper. This removes any ridges that might prevent the sliding pieces from moving smoothly.

Add spacer pieces to inner box

The spacers for each of the four sides (front, right, back & left) are added now. Start by pushing pegs through the front upper and lower spacers until they protrude through the back of the spacer piece (the front of the piece is the side with the writing). You can dry fit the pieces by pressing the spacer/peg part onto the corresponding place on the inner box without applying any glue (i.e. the Upper Spacer (front) piece is pressed into the top two holes of the front panel). Press the pegs until they are flush to the inside of the box. Test fit the spacer pieces for all four sides. The Middle Spacer (front) piece does not have any alignment pegs, but is easy to line up between the upper and lower spacers as shown in the photo. After the test fit remove all the spacers and glue them to the box by applying glue to the back of the spacer and pressing it back onto the box. Photo 2 shows an example of glue applied to the back of the Upper Spacer (front) piece before being pressed onto the box. Remove any glue squeeze out before the glue dries. Photo 3 - Photo 6 shows how the box should look after adding the spacers.



Photo 2 - Glue Applied to back of Spacer

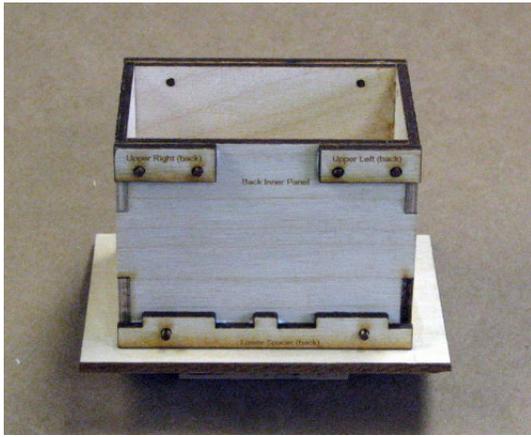


Photo 3 - Back Side Spacers

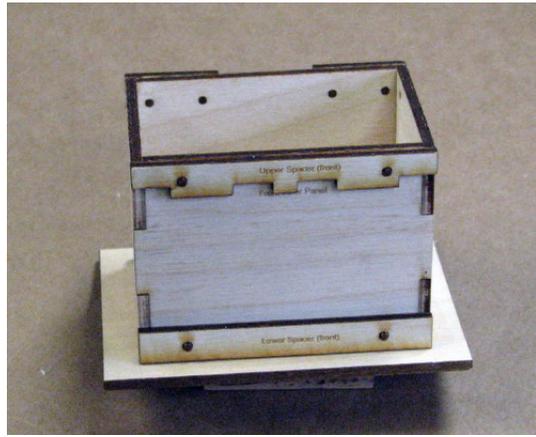


Photo 4 - Front Side Spacer (minus middle vertical piece)



Photo 5 - Right Side Spacer



Photo 6 - Left Side Spacer

Assemble Sliders

Take the six inner sliders and matching moving sliders and using alignment pegs test fit them together. Alignment pegs should be flush with the back of the inner sliders. You can test the movement of these assemblies on the box to make sure they slide smoothly. Wax applied to the back of these pieces helps them move easier. After testing the assemblies they can be taken apart and then glued back together. Photo 7 shows these assemblies.

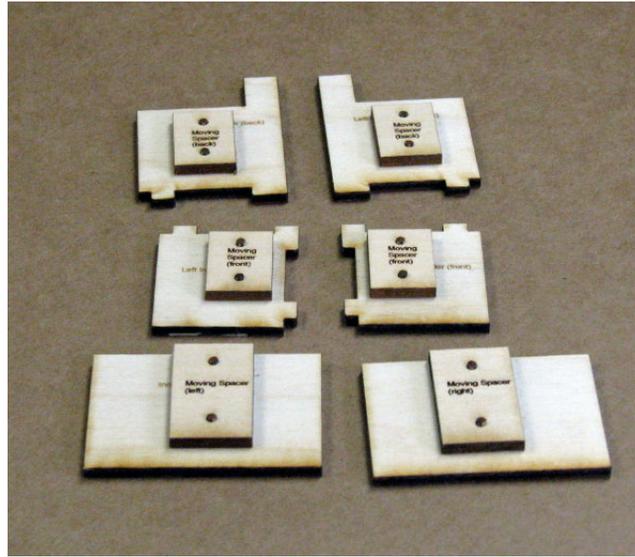


Photo 7 - Slider Assemblies

Photo 8 and Photo 9 shows how the slider panels fit onto the front and back panels.

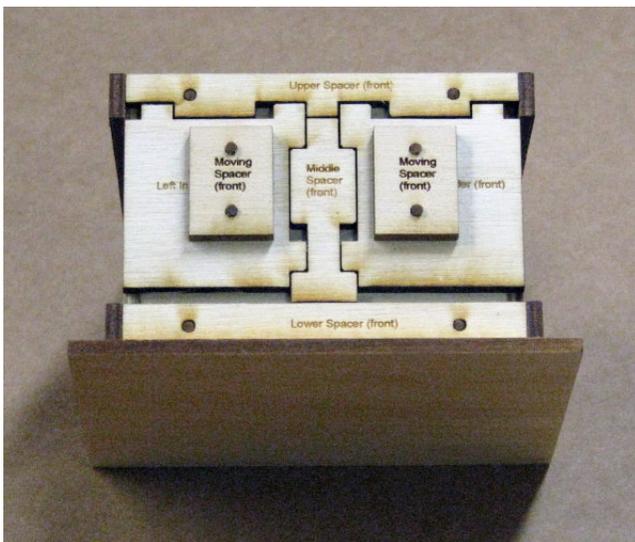


Photo 8 - Front Sliders in Place on Panel



Photo 9 - Back Sliders on Panel

Apply wax to the sliding surfaces of the slider panels and to the edges that rub against the spacer pieces. Work the wax into the pieces by sliding them back and forth on the box. This wax also helps prevent glue from sticking to them.

Assemble Outer Panels

If you are going to apply any finish to the outer panels now is a good time to sand them and apply that finish. Make sure you do not get any finish on the inside (side with writing) of the panel as that would prevent the glue from sticking when you attach the panel to the box. The outer slider panels can also have finish applied to them at this time making sure not to get finish on the inside of the piece.

The outer panels are attached to the box with the labeling on the piece facing inwards. Start with the front outer panel and test fit it by first placing the front sliders as shown in the previous section and then pressing the front outer panel onto the front alignment pegs. Test to make sure the two slider panels still move smoothly. If they bind and are hard to move then use some sandpaper or files on them until they move smoothly. When they move to your satisfaction, then glue the front outer panel onto the front making sure that glue does not squeeze out onto the slider panels. You can move the slider panels after gluing to make sure they do not get stuck. Continue the same steps for the back and side panels. Photos 10 - 13 show how the box should look after these steps.



Photo 10 - Left Outer Panel



Photo 11 - Front Outer Panel



Photo 12 - Back Outer Panel

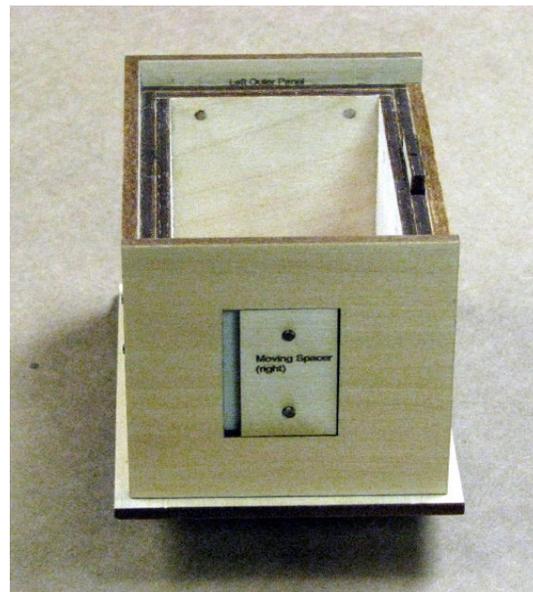


Photo 13 - Right Outer Panel

Attach Outer Slider Panels

Test fit and then glue the outer slider panels onto the slider assemblies for the front, back and two sides. If you are putting the paper designs from the plans, then make sure to also put a paper spacer between the slider assembly and the outer slider panel before gluing it on. Photo 14 shows how this looks after attaching.



Photo 14 - Outer Slider Panels Attached

Attach Lid Rails

Using the top holder panel as a spacer, glue the two lid rails to the inside of the side outer panels. The rail should be flush with the top of the side outer panel and against the front panel. With the rails in that position the top holder panel should be able to slide freely underneath.

Assemble Lid

The lid is assembled by pressing alignment pegs through the top runner panel and the top holder panel and gluing those two together. The alignment pgs should be flush with the top holder panel and protrude slightly from the top runner panel. Photo 14 shows how this looks.



Photo 15 - Partial Lid Assembly

The top out panel is then glued to that assembly with the labeling towards the inside. Make sure to put glue around the perimeter of these panels when gluing them together so they will not separate with changes in humidity. Glue the skirt

supports and skirt pieces as shown on page 7 of the plans. Cleanup any glue squeeze out and test fit the assembly by unlocking the box and sliding the lid on to the box.

Photo 16 shows the completed lid.



Photo 16 - Bottom of completed Lid

After the glue dries your puzzle box is finished!

The sliders are usually a little harder to move after assembly, but will get better if you work them back and forth several times. You can add wax to the lid rails to make the lid slide more easily.

Photo 17 shows the completed box.



Photo 17 - Completed Box

