



# Candle Lantern Instructions

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figure 1

The 4 side panels have been fitted and pre-assembled. This is to ensure that each part fits properly within each panel. We suggest that you keep the pieces for each panel together when you separate the panels for gluing.

The numbered parts of your Andonsline Candle Lantern as shown in **figure 2** are as follows:

- 1 Vertical Rails
- 2 Vertical Kumiko
- 3 Horizontal Rails
- 4 Horizontal Kumiko

Changes in humidity may swell or shrink wood. The effect is not uniform. It depends on the density of the wood which may vary from piece to piece. If high humidity has caused a piece to expand and made a joint difficult to pull apart do not use force. Gently rock the two pieces back and forth while pulling each in the opposite direction (**figure 3**). Be careful of pushing or pulling on the outside ends of the horizontal rails or you may break them off.

When you have a side panel taken apart check each piece to see if a touch up with sand paper is required. If any of the pieces were difficult to separate, sand the sides of the piece which is tight going into the opposing notch.

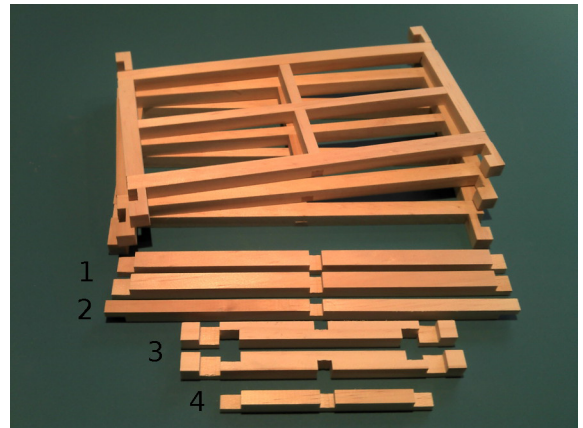


figure 2

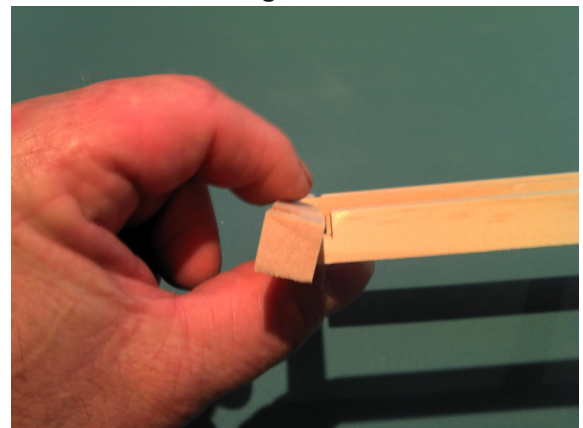


figure 3

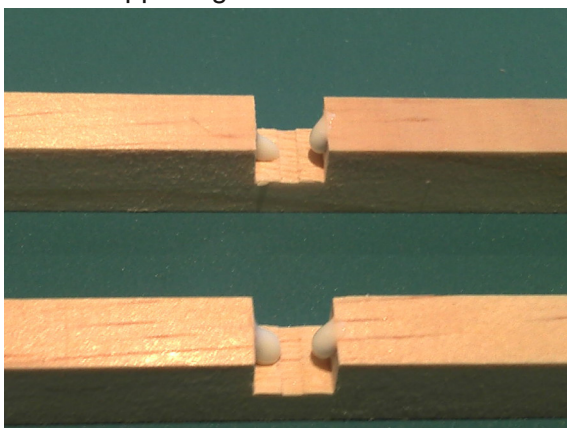


figure 4

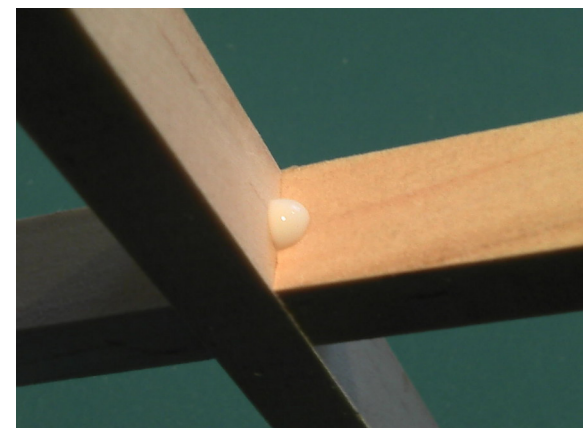


figure 5

When gluing a joint together put glue on both sides of each notch (**figure 4**) and then press them together by applying pressure on each piece directly over the joint. Alternatively lay the pieces on a flat surface and push down from directly above the joint. You may see some excess glue come out of the joint (**figure 5**). This can be wiped away using the edge of a damp sponge.

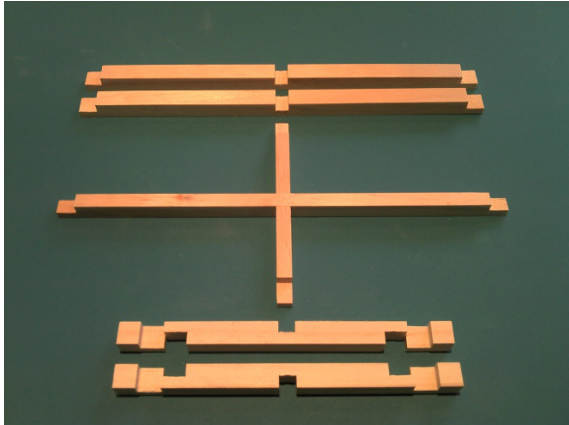


# Instructions for Candle Lantern 1

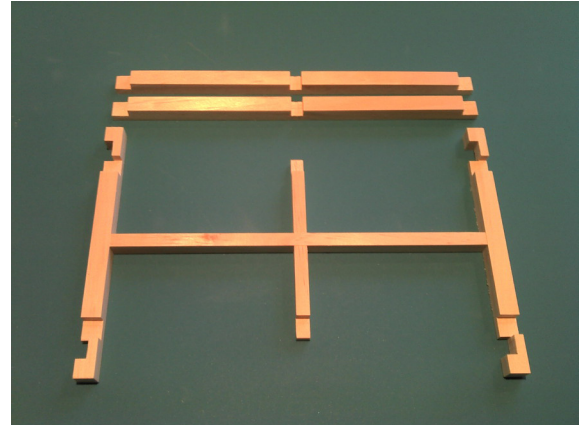
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The order of assembly for the side panels is kumiko, horizontal rails and then vertical rails. Glue the vertical and horizontal kumiko together and then place the two joined pieces flat on your work area as shown in *figure 6*. Next glue the two horizontal rails onto the ends of the vertical kumiko as shown in *figure 7*.



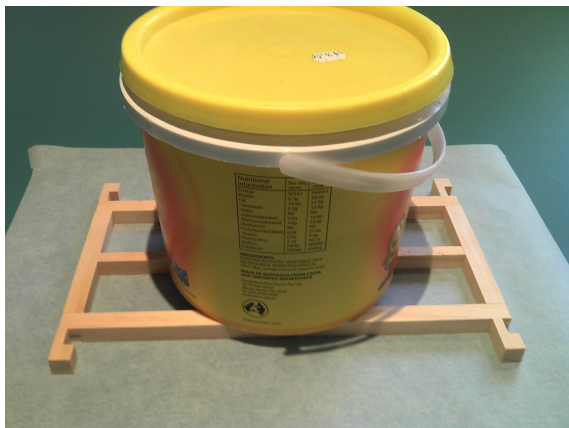
*figure 6*



*figure 7*

Note in *figure 7* that **the outside notches on the horizontal rails must face in the same direction**. The four lantern panels lock together using these notches and this is not possible unless the outside notches on each panel face in the same direction.

Your Andonsline Candle Lantern was designed with the kumiko framed inside the vertical and horizontal rails. If you have laid out your panel on your work area as shown in *figure 7* your panel's outside face is up. Glue the vertical rails in place and the kumiko will be framed within the rails.

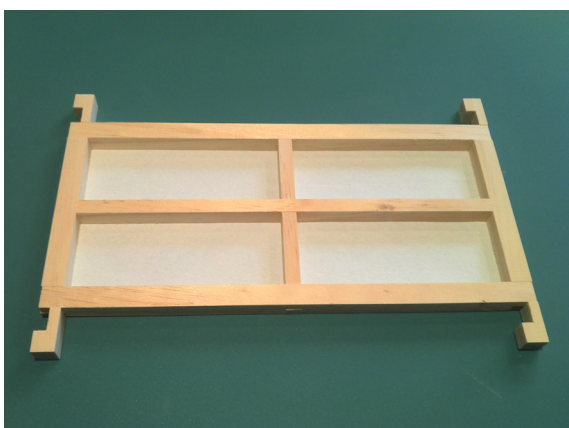


*figure 8*



*figure 9*

While the glue is still wet, make sure there are no gaps in the joints then set the panel aside to dry. Wax paper or baking paper may be used to prevent the panel from sticking to your work surface and something heavy may be used to ensure the panel dries flat (*figure 8*). Note that metal in contact with PVA glue may cause discolouration.



*figure 10*

If you do not intend on painting or staining your lantern you can paper your panels before assembling your lantern. Apply a thin bead of glue on the backside of a panel as shown in *figure 9*.

Lay a pre-cut piece of soji paper flat in your work area. The paper has a smooth face and an embossed face. If you prefer the embossed face showing place the paper embossed face up. Hold your panel glue face down over the paper, line it up to match and then press the panel down onto the paper as shown in *figure 10*. Excess glue may be removed with a damp cloth or sponge.



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figure 11

If you have decided to paint or stain your lantern it is best to assemble the panels, apply the desired finish and then apply the shoji paper to the panels. Otherwise the panels may be assembled with paper already applied.

The 4 panels lock together using the outside notch on the horizontal rails. Note that in **figure 11** that the left hand panel has the outside notch facing down and the right hand panel's notch is facing up.



figure 12

Line the notches up and use gentle pressure to push the panels together. Apply pressure directly over and under the vertical rails. You may also pinch the two joints together between your fingers but do not put pressure on the overhanging ends of the horizontal rails or you may break them off. Do a test assembly first. If there are no problems then glue the two panel together and then repeat the process with the other panels. If a fit is too tight do not force the panels together. Use sandpaper on the face of the horizontal rails until the panels can slide together as in **figure 12**.



figure 13

**Figure 13** shows an Andonsline Candle Lantern frame that has been finished with 1 coat of orange shellac to give it an "old wood" look and two coats of clear acrylic varnish. It would have been very difficult to apply this finish without getting the shellac or varnish onto the shoji paper. It is much easier to apply the paper afterwards.



figure 14

You will find it difficult to apply a bead of glue to the panels directly from the bottle once the lantern frame has been assembled. An alternative way to apply glue is with a small artists paintbrush. Put some glue in a small dish and dilute with tap water. Thin the glue down until you reach a mixture that will apply easily with a brush but still provide enough glue to fix the paper.

Lay your lantern frame on its side (**figure 14**). Practice putting your paper into the lantern without touching the bottom panel. Next practice applying glue inside the lantern with a paint brush. You can wipe away excess glue with a damp sponge. When you are ready, proceed to paper your panels. Remember that you can wipe glue over runs off the the shoji paper with a damp sponge it is but best do it while the glue is still wet.



# Candle Lantern Instructions

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Your Andonsline Candle Lantern is now complete. We hope you enjoyed putting it together. It can be used both indoors and outdoors. Outdoors it will protect a candle in a breeze that would blow out a fully exposed candle allowing you to enjoy the same intimate ambience it provides indoors in an outdoors setting.

However, it is most important that you do not use an exposed flame inside the lantern. As a safety precaution, only use candles enclosed in a glass container as shown above.

## Sanding tips:

Here are some sanding tips that you may find helpful:

1. Never sand across the grain of the wood. Sand with the grain.
2. Avoid sanding inside notches. If you have a joint that is difficult to push together sand on the flat sides of the pieces test and sand again until they fit easily.
3. Keep your sand paper flat when sanding, You can wrap it around something flat, e.g. scrap wood, ruler, or you can fold the sandpaper over several times and back it with two or three fingers to keep it flat against the surface you are sanding.

