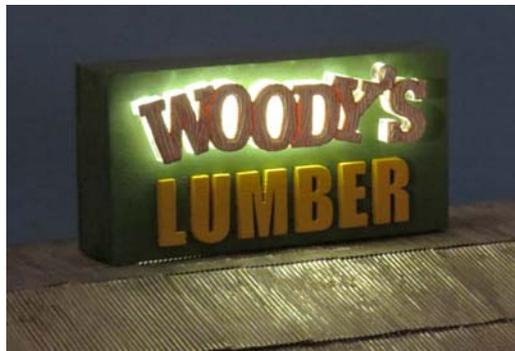




**ASSEMBLY DETAIL
FOR
WOODY'S LUMBER YARD - SIGN
S SCALE KIT**

Rev. 2.0



Woody's Lumber Yard Sign is a 3 dimensional, lighted billboard that acts as a beacon to landmark the location of Woody's Lumber Yard. When assembled, the sign measures 2 $\frac{3}{4}$ " W x 1" D (at the raised lettering) x 1 $\frac{3}{8}$ " H.

Most of parts included in this kit have been cut to their proper size and should only require minimal sanding. If a part should require sanding, do so a little at a time and test fit the part often. Basswood is soft and a part can become too short very quickly.

The assembly instructions are easy to follow. However, because some of the sections are dependent on each other, please follow the order as written. If you are uncertain about one of the assembly steps, the images are in a high enough resolution to allow you to enlarge them for a clearer view. If you work slowly and follow the assembly instructions, you should have a very nice looking model for your layout.

We do advise that you lightly sand each piece to remove the fuzz and laser burn before you paint the sign. The assembly instructions provide you with suggestions as to when to paint various sections of your model.

PLEASE NOTE: The sign is designed to operate at maximum of 12 Volts and DC ONLY. Anything other than DC or any voltage higher that the designated 12 Volt maximum will cause the lighting to prematurely fail.

If you have questions, suggestions or find any discrepancies in this documentation, please do not hesitate to contact me at al@eastwestrailservice.com. Please allow 48 hours for a response.

SUGGESTED TOOLS

Airbrush	Though not required for this model, you may have a preference for using an airbrush. The completed model shown in these instructions was painted using various sizes of paint brushes and acrylic paints and alcohol diluted India ink.
Clamps	Small bar and spring clamps to securely hold assemblies and pieces in place.
Emery Board and Sandpaper	A medium to fine grit emery board and 400 grit or finer sandpaper.
Glue	<p>For the wood portion of the model I used Elmer's Improved Strength glue. You may choose to use a carpenter's wood glue for additional strength.</p> <p>You will also need a medium viscosity Cyanoacrylate (CA). Choose something that will give you some time to position the piece that you are going to attach.</p>
Modeler's Knife	I use a snap blade knife. However, a number 11 X-ACTO or equivalent will work just as well. Make sure you have several blades.
Modeler's Square	To align sign frame.
Tooth Picks	For applying glue.
Tweezers	A standard pair as well as a reverse action pair is recommended.
Wood Block	Provides a good hard, flat surface for cutting small parts.

CONTENTS

<u>Frame Assembly</u>	<u>4</u>
<u>Sign Face</u>	<u>6</u>
<u>Sign Assembly</u>	<u>7</u>
<u>Adding the Skin</u>	<u>10</u>
<u>Completed Sign</u>	<u>12</u>

FRAME ASSEMBLY

Remove the plastic bag labeled “**Frame**” from the kit and remove the **4** pieces shown in Fig. 1. These will make up the frame of the sign.



Fig. 1

On a hard flat surface and using a small modeler's square, glue one of the long and one of the short pieces together as shown in Fig. 2. Place glue along the outer edge of the longer piece and only in the notch of the shorter piece. It is important that these two pieces are at a 90° angle.

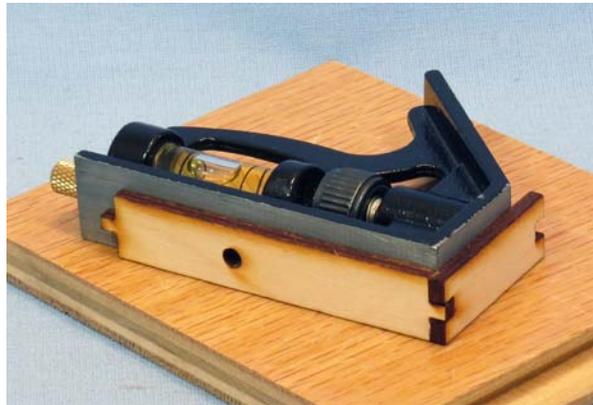


Fig. 2

Follow the same procedure for the remaining two pieces. When completed, you should have two assemblies like the ones shown in Fig. 3



Fig. 3

Take the two assemblies shown in Fig. 3 and glue them together as shown in Fig. 4. Use a square on the outside of the assembly if your modeler's square is too large to fit inside. Make sure all corners are at 90° .

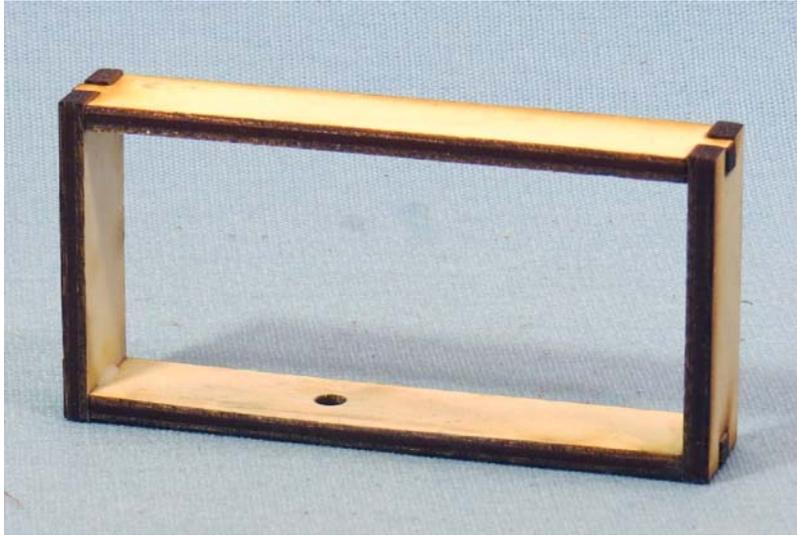


Fig. 4

When the glue has dried, sand the four sides of the frame until the joints and notches are smooth. See Fig. 5.



Fig. 5

SIGN FACE

Remove the bag labeled “**Sign Face**” from your kit. In the bag you will have **2** sets of individual letters that spell out the word LUMBER, **2** acrylic spacers with connected letters that spell WOODY’S and **1** wood engraved and cut piece that also spells WOODY’S. See Fig. 6.

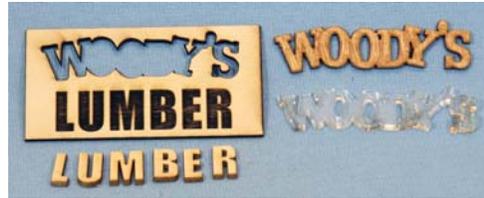


Fig. 6

Before we continue, this would be a good time to paint the sign face and lettering. The frame does not need to be painted as it will have a skin covering applied later. When painting is complete, you should have something similar to Fig. 7. Using lighter colors on the word LUMBER will reflect the light much better than dark letters.



Fig. 7

The first thing we need to do is glue the wooden letters to the sign face as shown in Fig. 8. For this step you can use your choice of wood glue.

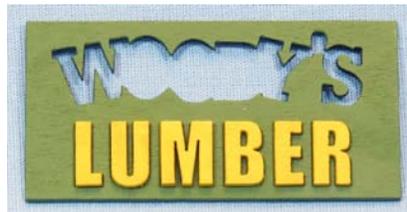


Fig. 8

Next attach the acrylic spacer to the sign face with Cyanoacrylate (CA) as shown in Figs. 9A and 9B. The spacer is a very close fit, so you will want to test fit first to see where to apply the glue. Do not worry if some of the glue shows or runs to the back of the sign. You can touch up the front with paint. If you are going to weather the sign any exposed glue is going to be hidden.

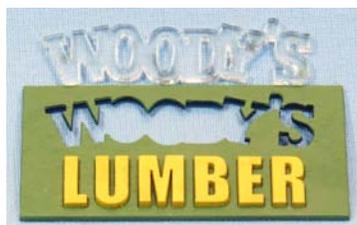


Fig. 9A

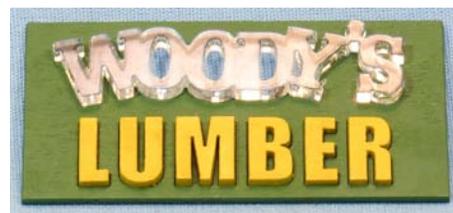


Fig. 9B

Now glue the wooden engraved piece over the acrylic spacer as shown in Fig. 10. You will want to use Cyanoacrylate (CA) for this step too. When you have completed the other sign face proceed to the next step.

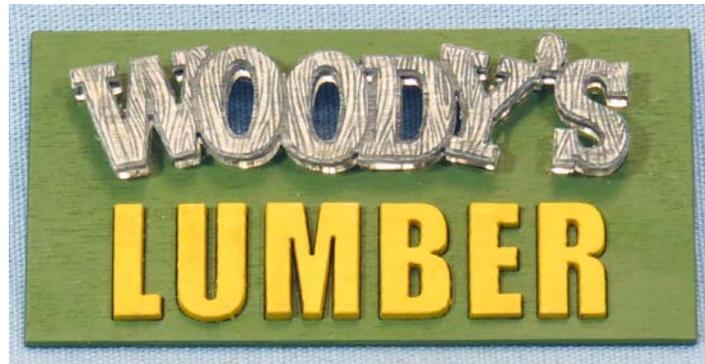


Fig. 10

SIGN ASSEMBLY

We will now start to assemble the sign. Place the frame on a flat hard surface and run a bead of wood glue along the edge of the frame as indicated in Fig. 11. Place the face of the sign on the frame as shown in Fig. 12. Make sure the sign face is evenly spaced around the frame. When the glue has dried you will sand and excess material from the sign face so that it is smooth with the frame.



Fig. 11

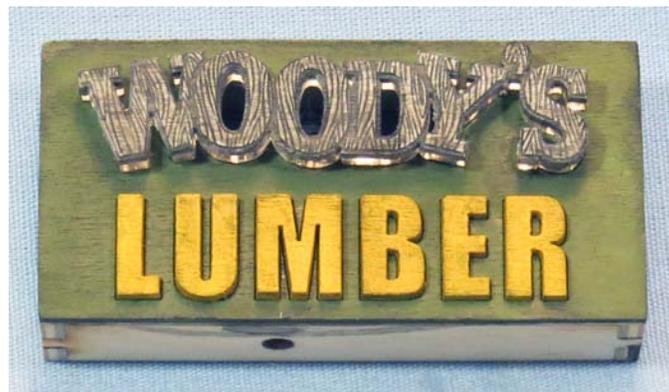


Fig. 12

The next step is to install the lighting module. Note that the hole in the frame is off-center. This is so the wiring will fit between two of the warehouse trusses.



Fig. 13

Remove the lighting module from the plastic bag labeled "Lighting". Note that one of the mounting pads on the light module is shorter than the other. The shorter pad goes on the narrower side of the hole, in this case to the right of Fig. 13.

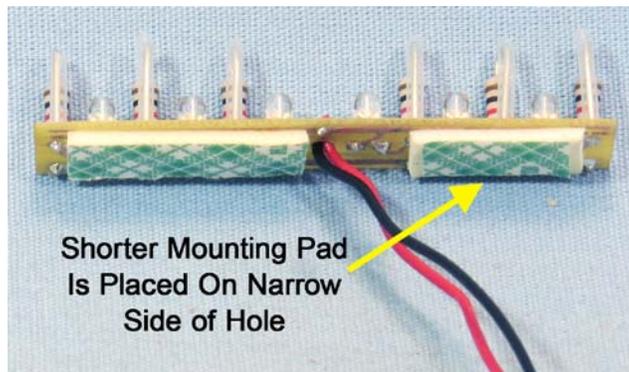


Fig. 14

Slip the wires through the hole in the frame. Remove the backing from the mounting tape and *gently* seat the module in place with your finger nails or a small flat end screwdriver. **DO NOT** push or apply any force to the components. Seat the module by *gently* pushing down on the circuit board. Your module should be in place like the one in Fig. 16.

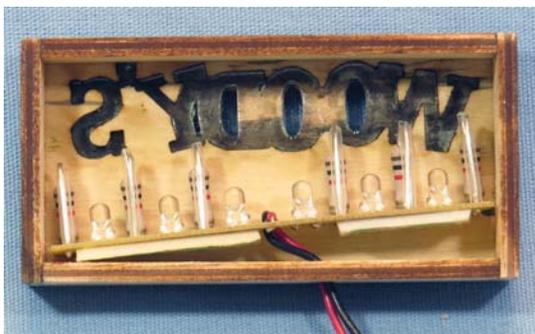


Fig. 15



Fig. 16

In the bag labeled “**Lighting**” there is a reflector as shown in Fig. 17.

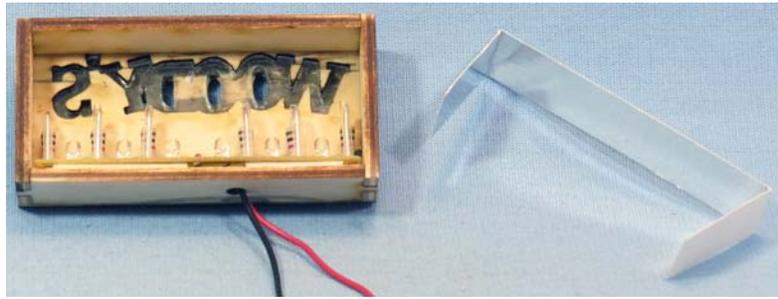


Fig. 17

Place a small line of glue top and sides of the reflector that come in contact with the frame and attach as shown in Fig. 18.

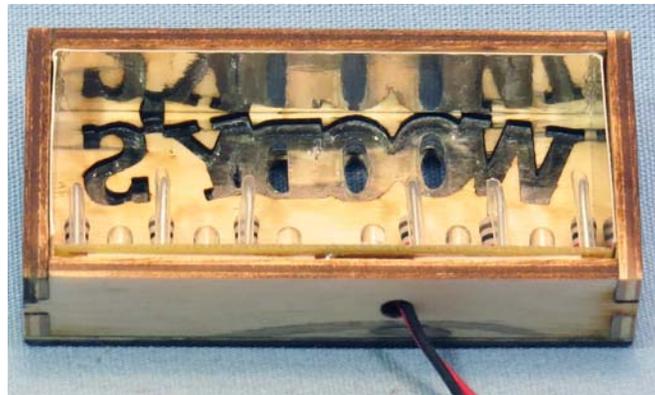


Fig. 18

Next, turn the assembly over and place a bead of glue along the edge of the frame like you did in [Fig. 11](#) and put the other sign face in place as shown in Fig. 19 and Fig. 20.

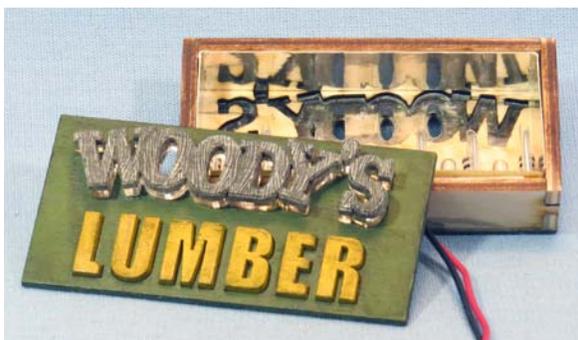


Fig. 19

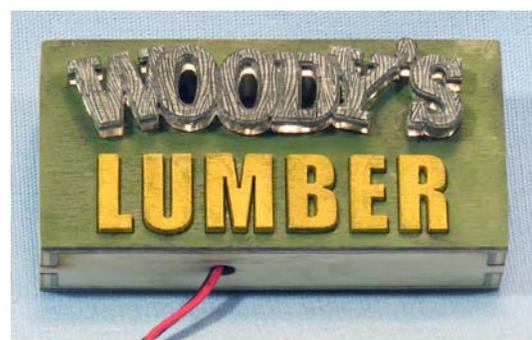


Fig. 20

ADDING THE SKIN

The last step in the assembly process is to add a cosmetic skin around the sign. This will hide the finger joints resulting in a better looking model. Remove the 4 pieces from the bag labeled “Skin” as shown in Fig. 21.

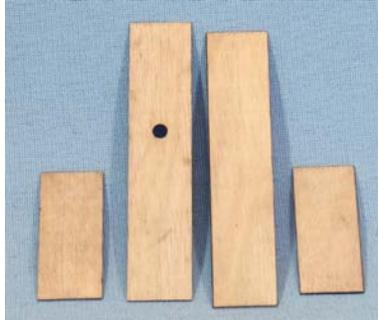


Fig. 21

Starting at the bottom of the sign, feed the wires through the long skin section with the hole. There will be some over-lap at each end. This will be sanded flush with the frame when the glue dries. Begin application by applying a layer of glue to the side of the skin that will come in contact with the frame and attach it to the frame as shown in Fig. 22. Next place a layer of glue to the long skin section for the top of the sign and attach as shown in Fig. 23.

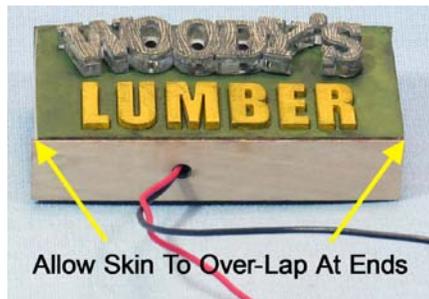


Fig. 22

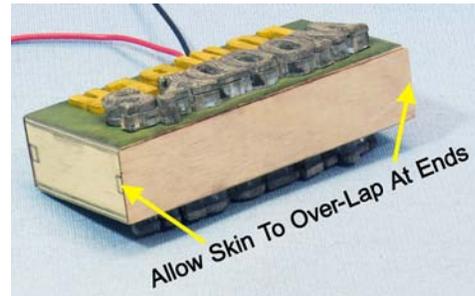


Fig. 23

Using two or three small bar clamps, hold the upper and lower skins in place until the glue sets, as shown in Fig. 24. This will allow the skins to firmly attach to the frame.

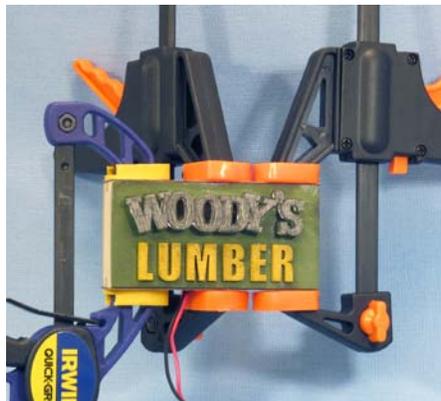


Fig. 24

When the glue sets, remove the clamps and sand the upper and lower skin flush with the sides as indicated in Fig. 25.

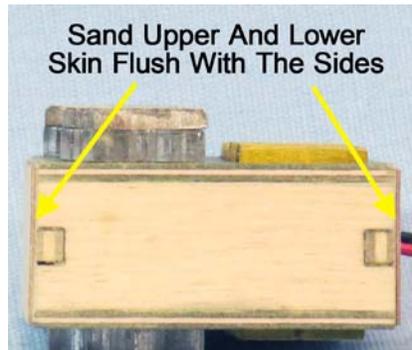


Fig. 25

Following the same process you performed above for the upper and lower skins, we will now attach the side skins to the sign. Apply a layer of glue to the side of the skins that face the frame and allow the overlap to extend at each end as you did for the upper and lower skins in [Figs. 22 and 23](#). The overlap will be sanded flush when the glue sets. Use your bar clamps to hold the side skins in place until the glue sets as shown in Fig. 26.

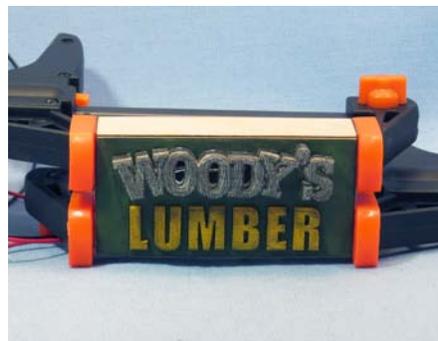


Fig. 26

When the glue has set, you should have a sign like the one in Figs 27, 28 and 29. I used a fine grit sandpaper to round the edges. I wanted to give the sign more of an art deco look.

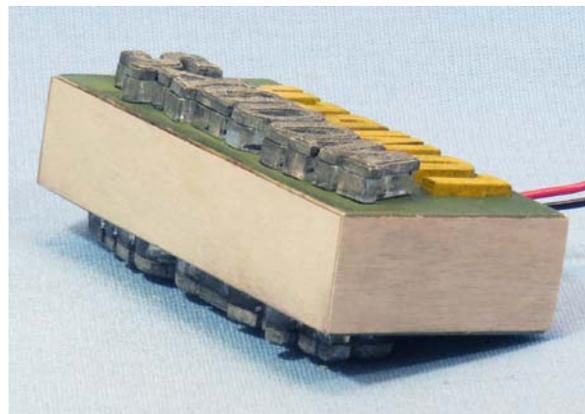


Fig. 27

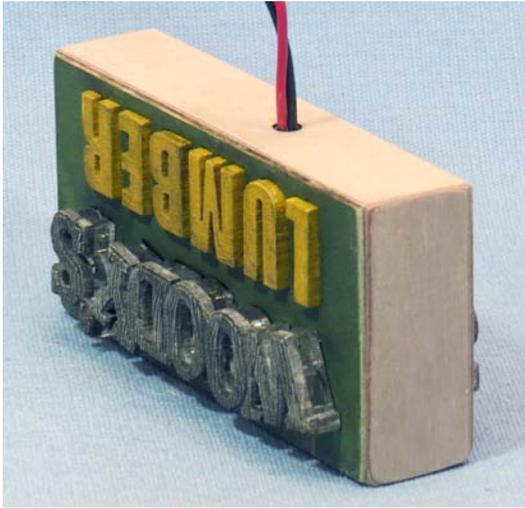


Fig. 28

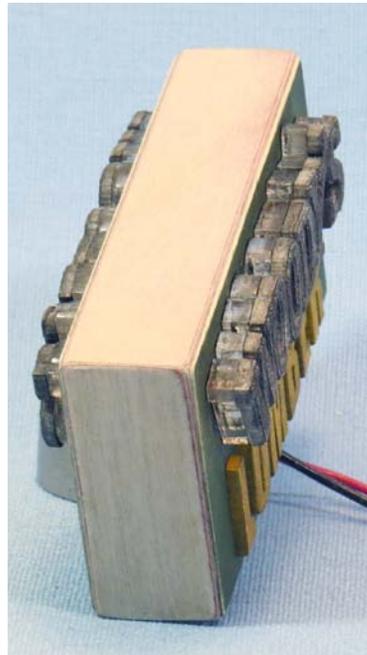


Fig. 29

COMPLETED SIGN

Below are images of the completed sign used in these instructions for Woody's Lumber Yard. We hope you enjoyed this kit and that the instructions made your assembly process clear. If you have any questions or suggestions, please do not hesitate to contact us.

Best regards,

East West Rail Service.

