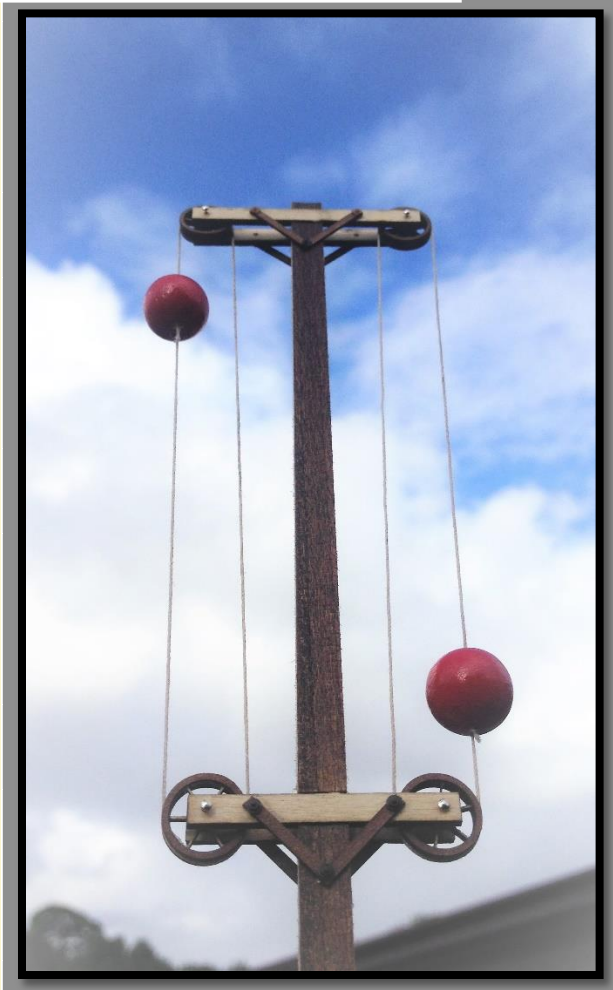
Double Ball Signal



RIVER LEAF MODELS, LLC

Thank you for purchasing the River Leaf Models Double Ball Signal kit. Assembly is straightforward for beginners and experienced modelers alike. Your kit includes everything you need to produce the final assembly. We recommend using white glue such as Elmer's for this assembly. A sharp X-Acto knife and a sanding tool, preferably fine sandpaper.

Step #1 –Glue the Cross Arms

Your kit includes a "pole" to which you will adhere the cross arms. Carefully remove these from the parts sheet. Use a very light coat of carpenter glue to adhere these four parts. The Holding tab shows the cross arm center. Use it as a reference to install them. The longest one are mounted on top of the pole and the shorts ones are mounted in the bottom of the pole.

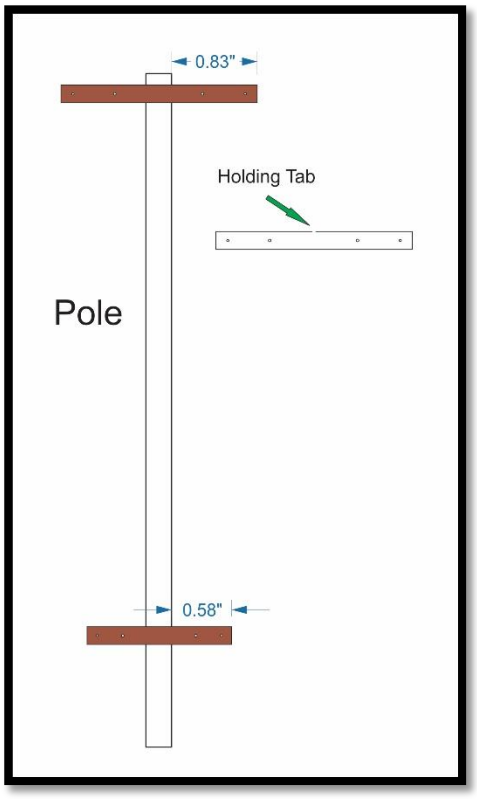


FIGURE 1-GLUING THE CROSS ARMS

Before the glue is cured, insert one of the provided pins to align both cross arms as show in the figure #2.
After the cross arm glue is completed cured you can proceed to tint or paint the whole pole.

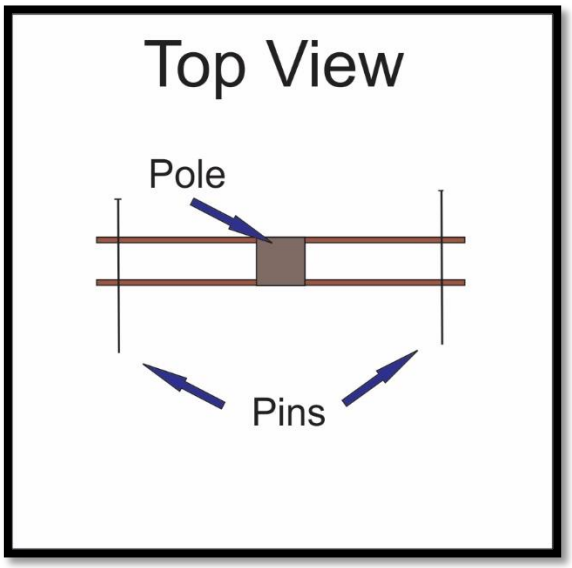


FIGURE 2 -ALIGNING THE CROSS ARMS

Step #2 –Glue the Cross Arm's Braces

Now your pole is secure to handle.
The next step is install the cross arm braces. They are pre drilled, pay attention that they are slightly different in size, the big one is to be mounted on top and the small one in the bottom cross arm. Add a small amount of carpenter glue and glue it keeping the brace aligned with the cross arm. A needle could help to align the brace and the cross arm.
Before the glue cure, insert the bolts provided with the kit, using a small amount of glue. In case the bolt doesn't fit smooth, use a drill #68 to rework the holes. The bottom brace hole is not pre drilled on the pole. After you install and glued the two top ones, drill using a #68 drill, drill a hole on the pole using as a guide the pre drill hole on the brace. Calculate 0.060" deep.

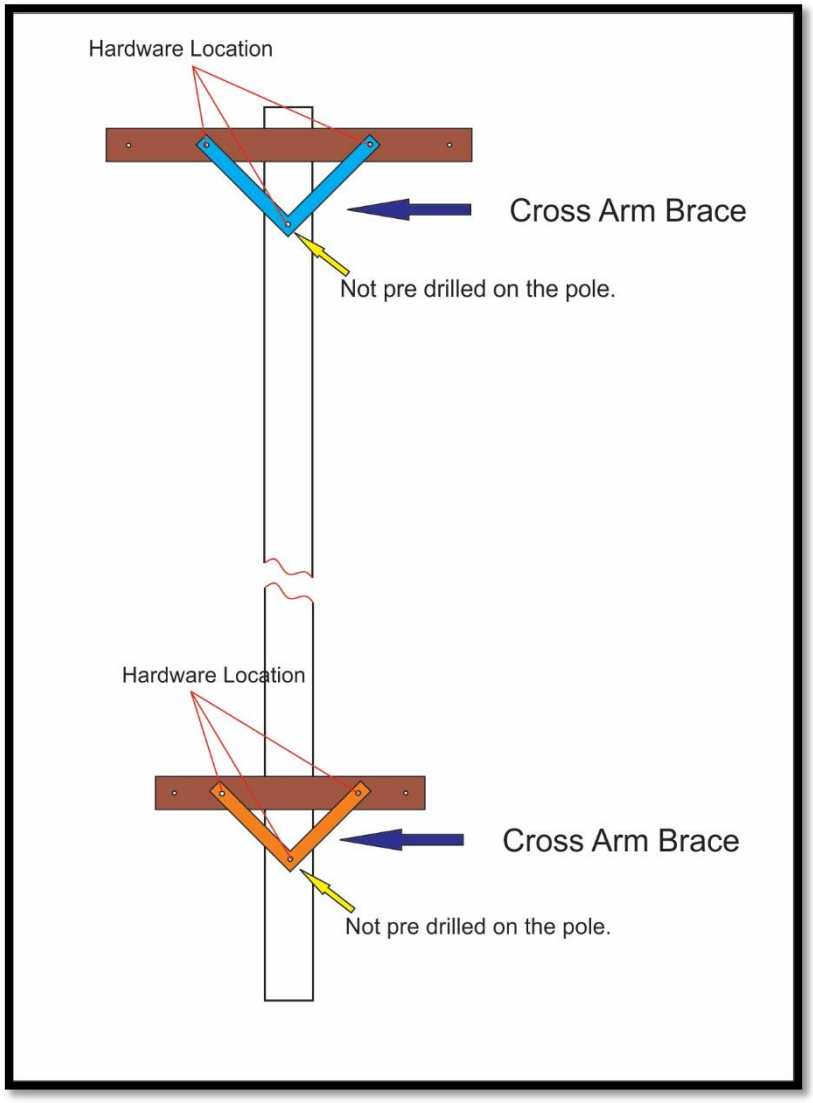


FIGURE 3 –GLUING THE CROSS ARM BRACES.

Step #3 –Pulley Assembly.

Pulleys are assembled using 3 parts the core and to side rings to prevent the rope to displace.
Add a small amount of glue on one side of the core pulley edge and put on top one of the two rings. Press firmly and clean the excess of spilled glue. Repeat the same procedure with the other side.

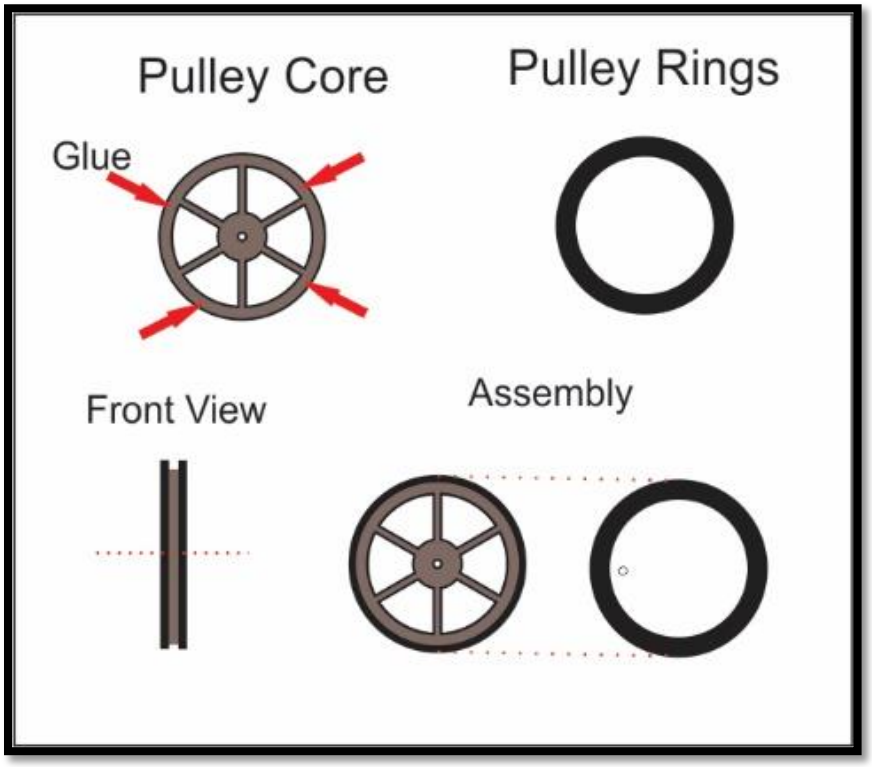


FIGURE 4 –ASSEMBLING THE PULLEYS.

Step #4 –Pulley, Rope and Signal Installation.

Paint the pulley before install the on the pole.
Check the pulley and pin, if is too tight rework the pulley hole using the #68 drill. Insert the pulley between the cross arms and pass the pin from one side to the other the pin will hold itself. Using a cutter cut the left over. Apply the same procedure with the rest of the pulleys.
After all the pulleys installer pass the rope and the signal previously painted red, through the pulleys, made a slip knot and tight the rope gentle, after that, tight the knot to avoid any slip and lose rope. The knot will hold the signal in position. Repeat this procedure with the other side as well. Figure# 5

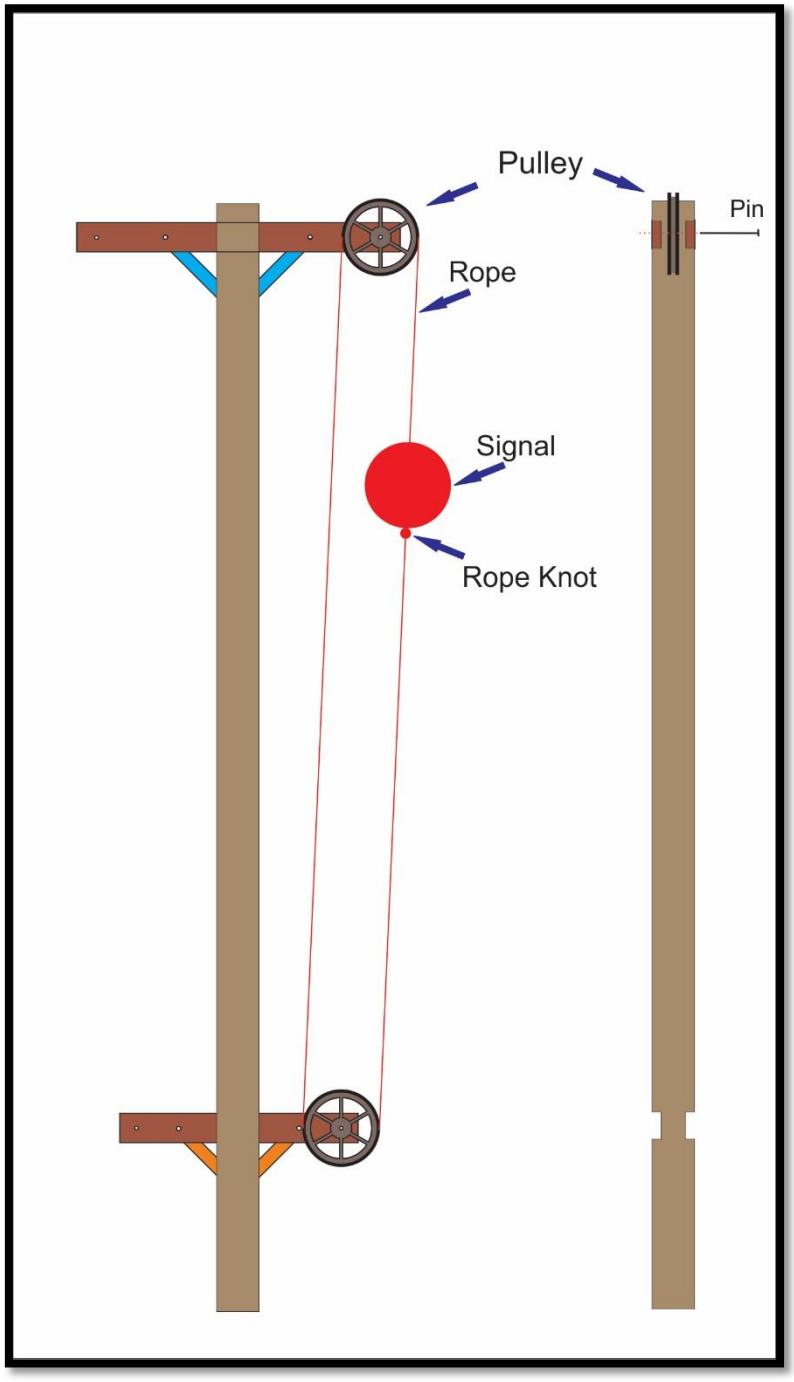


FIGURE 5 –PULLEY, ROPE AND SIGNAL.

Congratulations! Your signal is complete!
Place it on your layout and adjust the signal accordingly.

If you have questions on construction or suggestions, please contact us by email at **riverleafmodels@gmail.com**

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