

The Legend of Riverfield

Crane

Please read the instructions before starting construction.

When opening the kit you will notice the smell of burned wood. This is because the parts are laser-cut, which literally means a very tight light beam burns through the material. You may also notice some soot at the cut edges. The amount of soot depends on the material used. You can considerably reduce it by gently wiping at least the bigger and easy to reach edges with a soft cloth or household tissue.

PVA or equivalent glue will be required to glue parts together. Give glue enough time to dry. Wipe away any excess glue immediately using a fine cloth or the tip of a toothpick. A sharp hobby knife is needed to remove parts from the sheet. Be careful and always cut away from your body. Fine sand paper may be useful to clean these areas or any tight fitting joints. Clamps, pegs and elastic bands may help during the construction of the kit. Make sure that the parts are aligned correctly before applying any of these tools.

General pre-assembly preparations

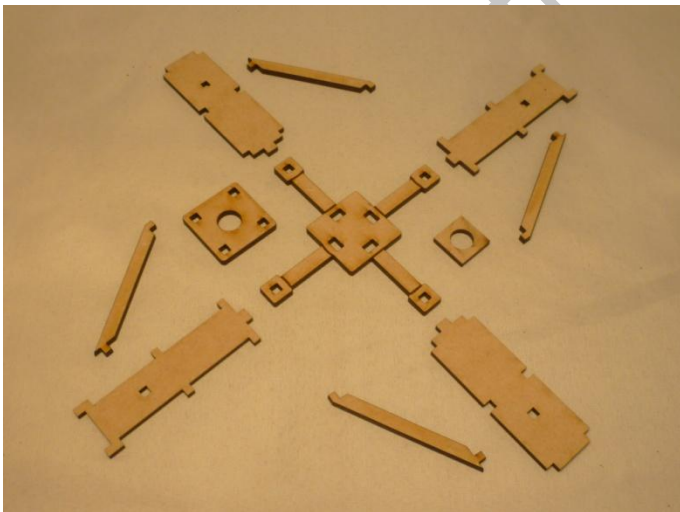
You will achieve the best results in finishing this kit when you follow the steps listed below. Always double check with the provided pictures before gluing parts together and moving on to the next step.

Please keep in mind that - in general - engraved sides of parts are considered "outside"; not engraved sides are "inside" or positioned less visible once the kit is finished.

Assembly

Base:

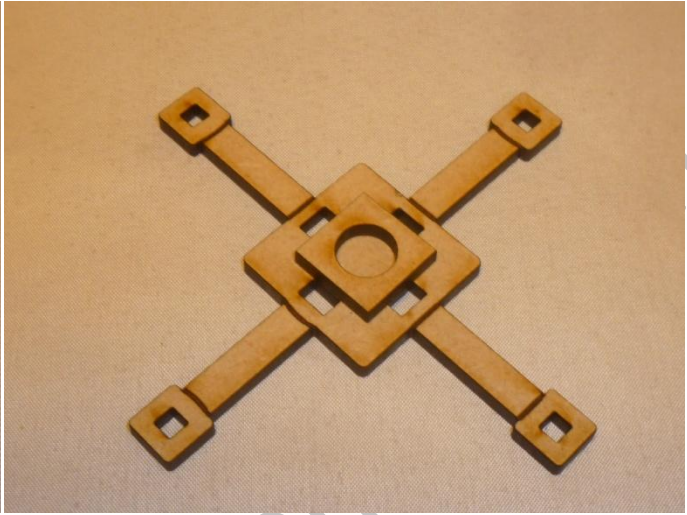
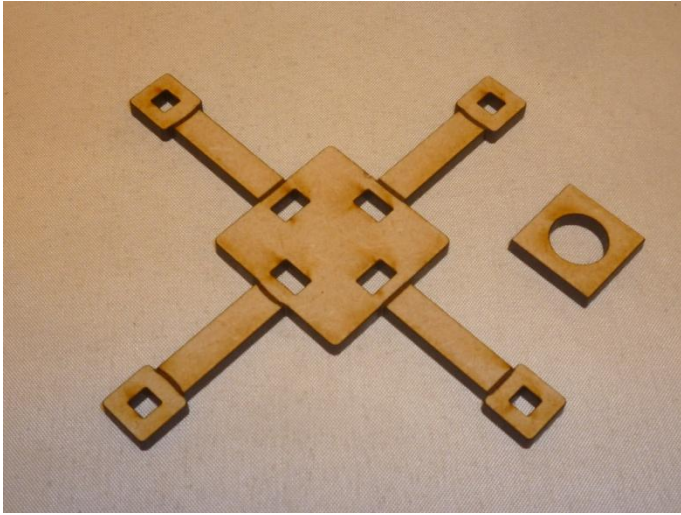
Lay out the required parts as shown below.



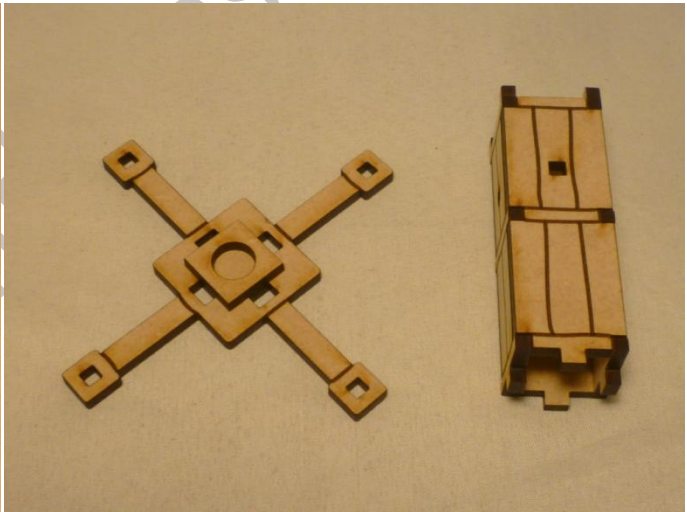
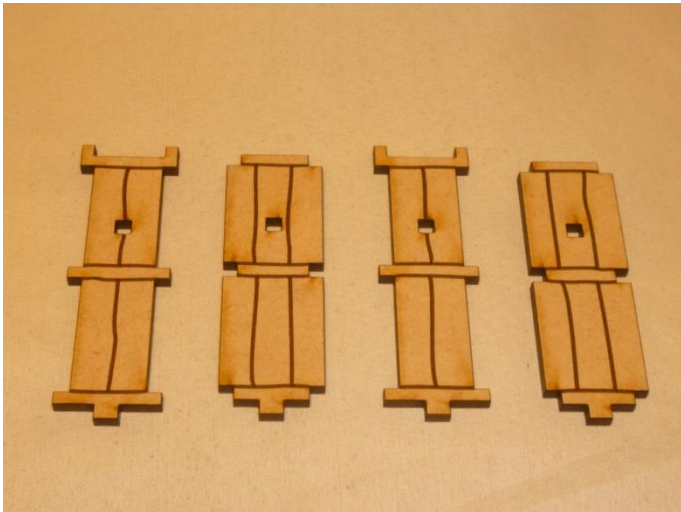


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Glue the guidance piece for the crane shaft on the center of the base plate.



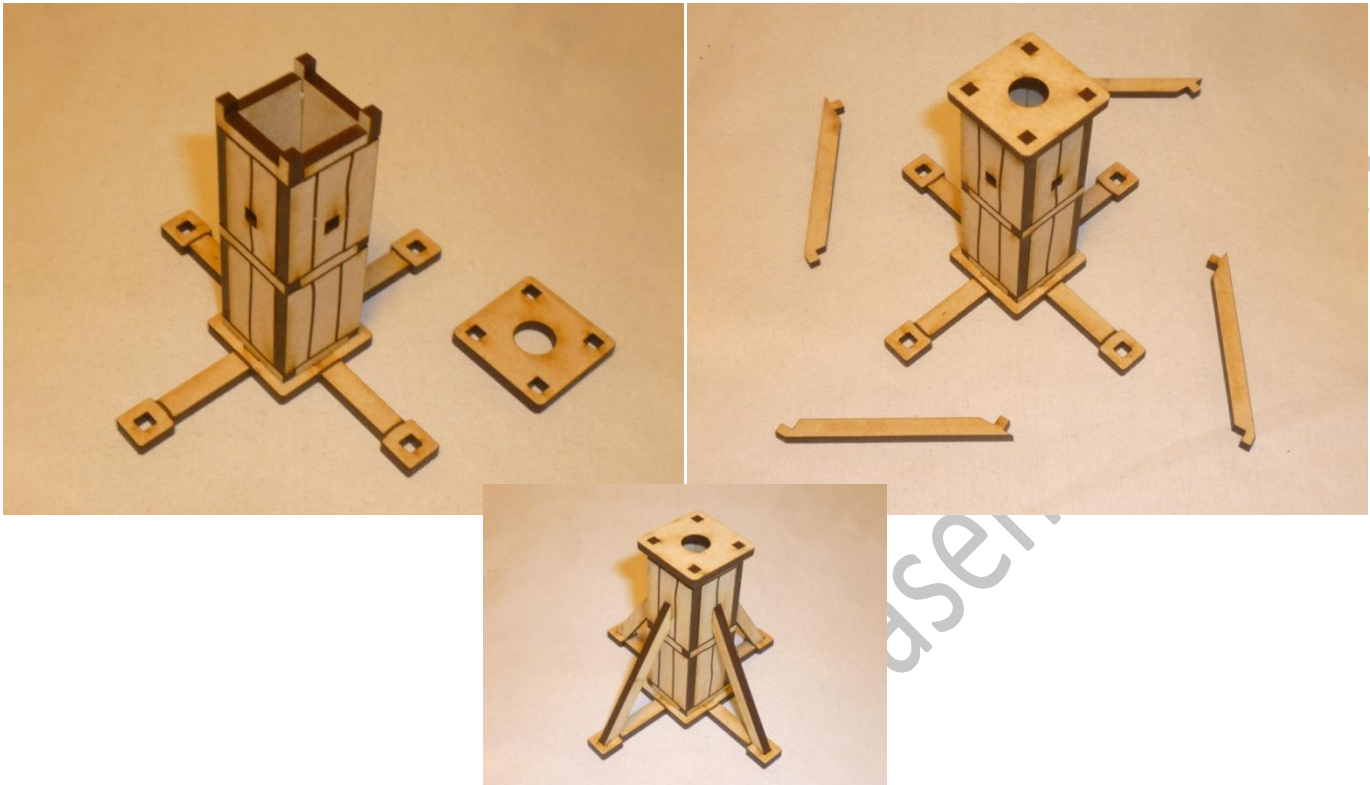
Glue the four pieces of the crane base together. Then glue the finished structure on the base plate.





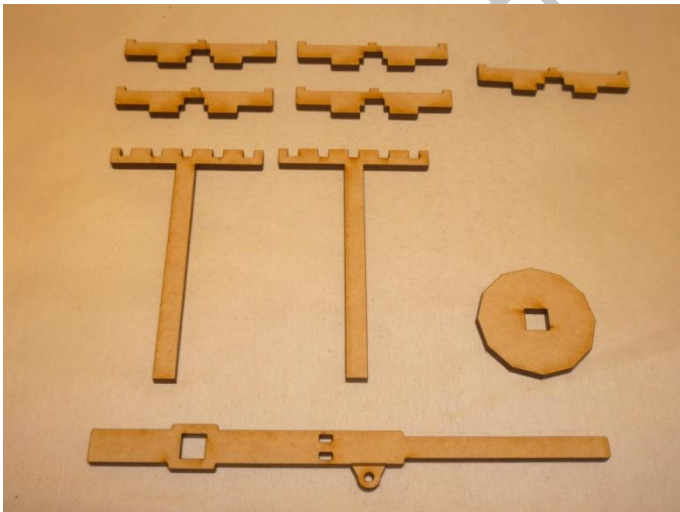
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Add the top onto the crane base. Then complete the base by adding the four supports as shown.



Shaft:

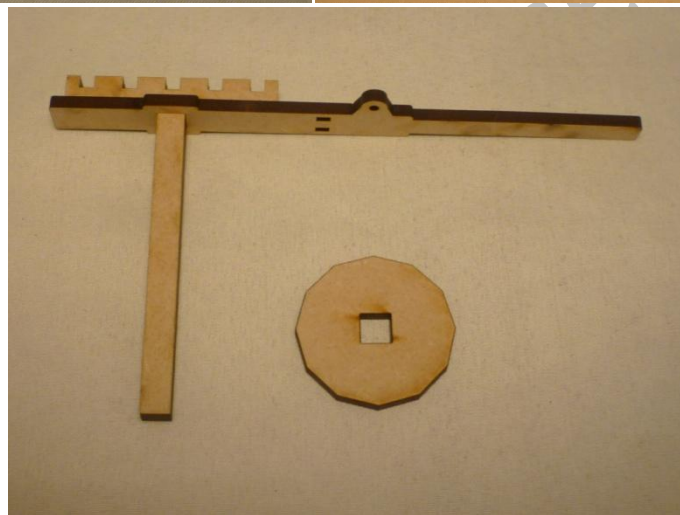
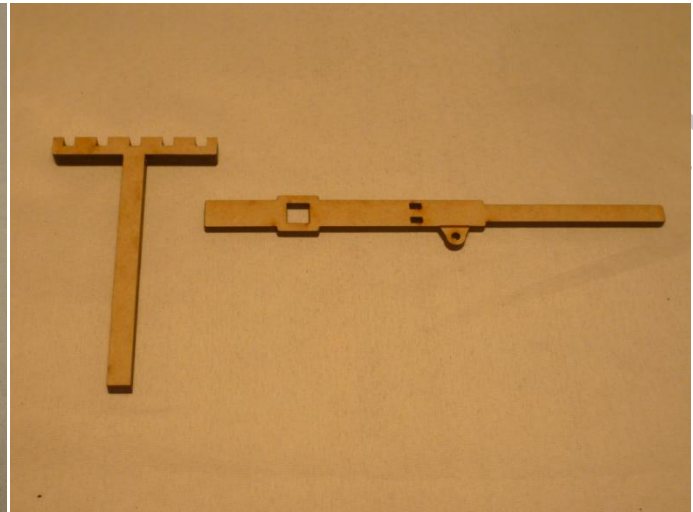
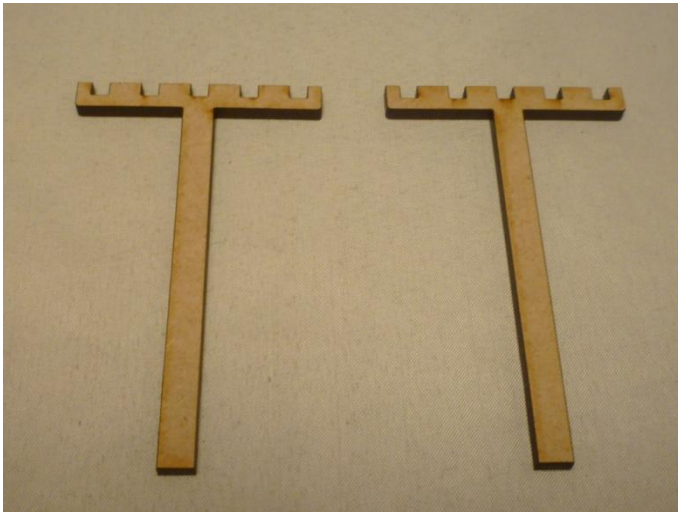
Lay out the required parts as shown below.





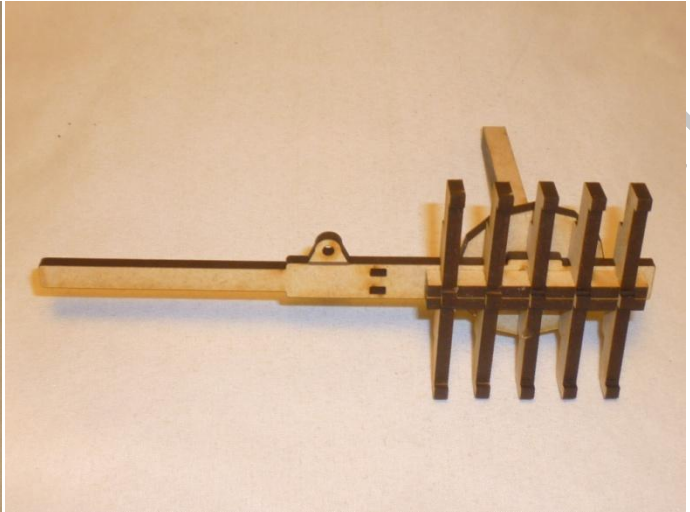
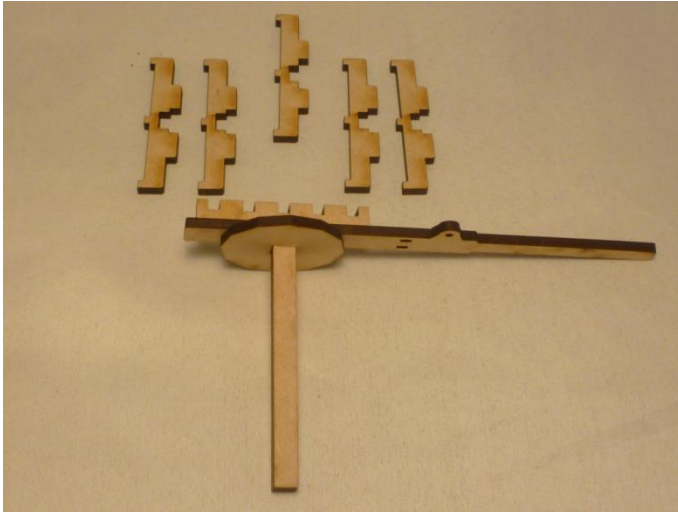
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Glue the two shaft pieces together. Then insert it into the crossbeam. Make sure to push it all the way through and to align it as shown in the images! Then add the washer – again pushing it all the way through.



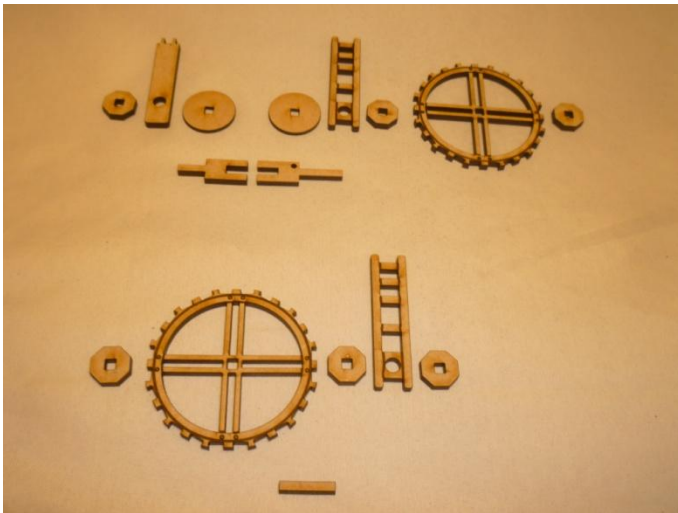
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Now glue the five crossbars in place. Make sure to push them all the way onto the crossbeam so that the top surface is flush and even! Please note that the middle piece is slightly different.



Tread Wheel:

Lay out the required parts in exact the same order as shown below.





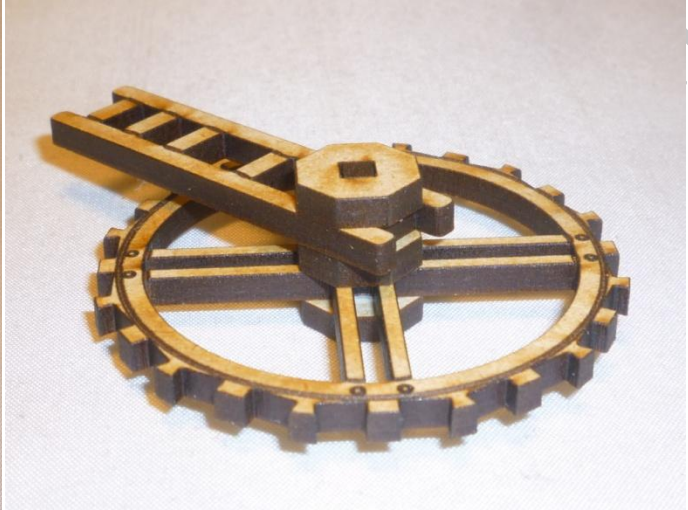
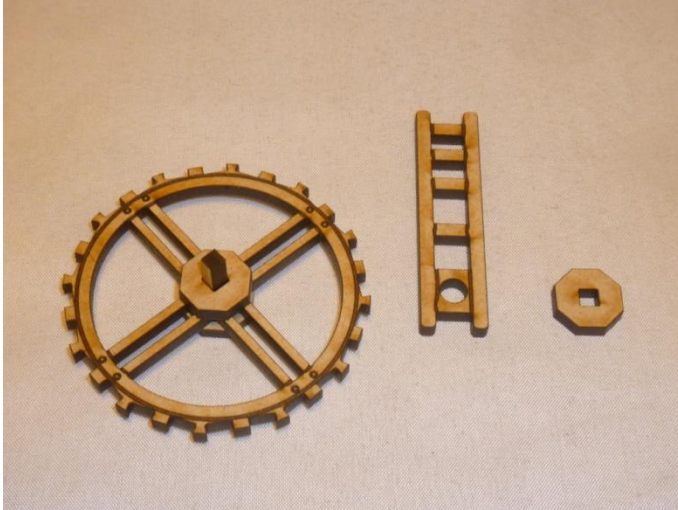
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Start with the parts shown by the **GREEN** arrow.

Glue them together by inserting the axle piece into the opening starting from left and ending at the right.

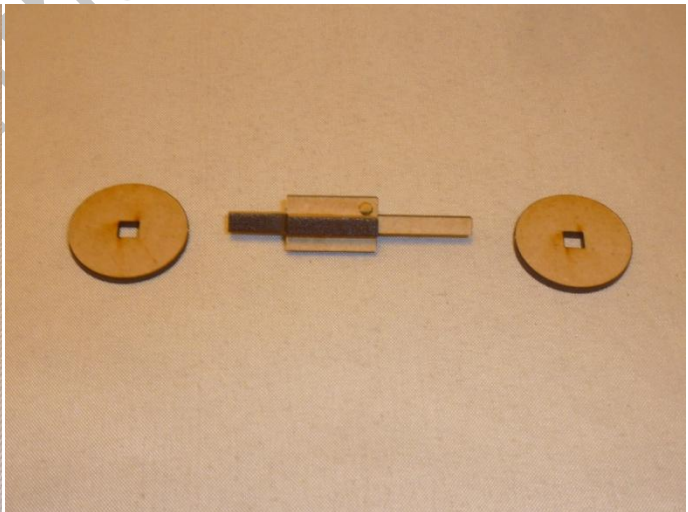
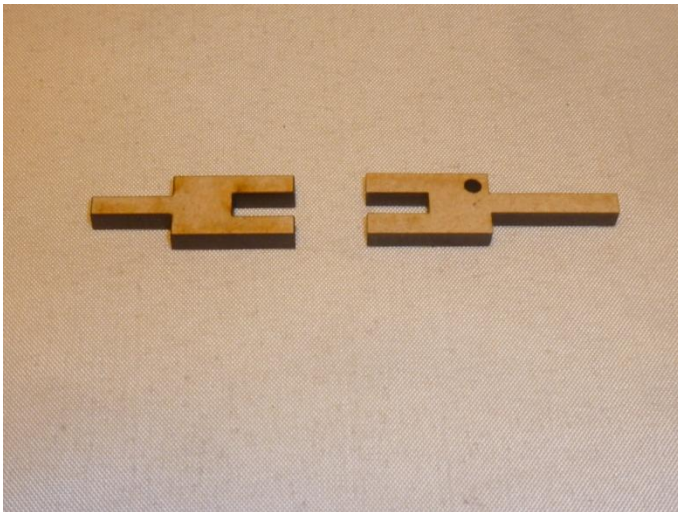
Do **NOT** use glue for the ladder-like structure if you want a moveable tread wheel!

Put structure aside and let dry thoroughly.



Now work with the parts shown by the **RED** arrow.

Start with assembling the winch as shown.





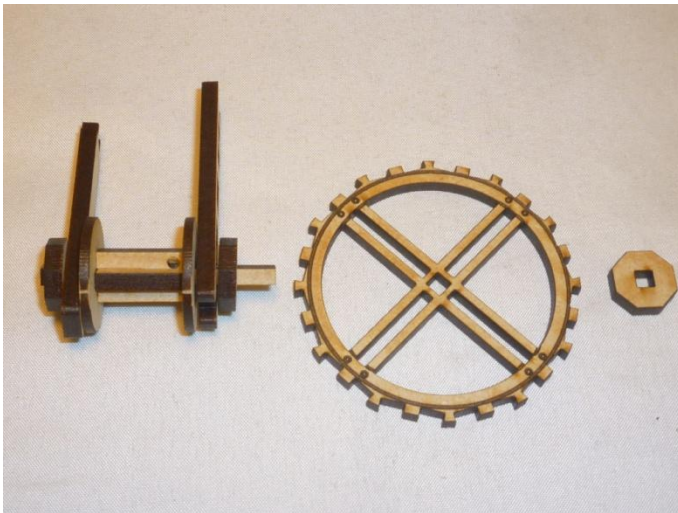
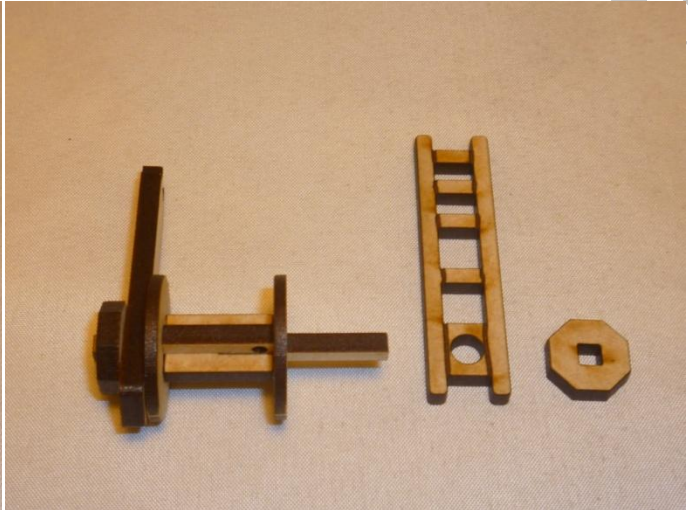
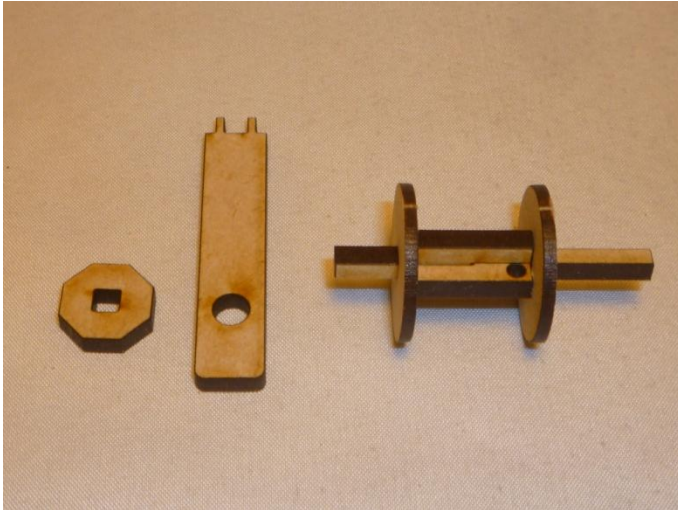
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Add the solid beam on the left side as shown.

Do **NOT** use glue if you want a moveable tread wheel! Secure the piece by gluing an end cap to the left end.

Now add the ladder-like structure on the right side. Do **NOT** use glue if you want a moveable tread wheel! Secure the piece by gluing an end cap to the left end. Then add the two remaining pieces as shown – all glued in place.

Put structure aside and let dry thoroughly.

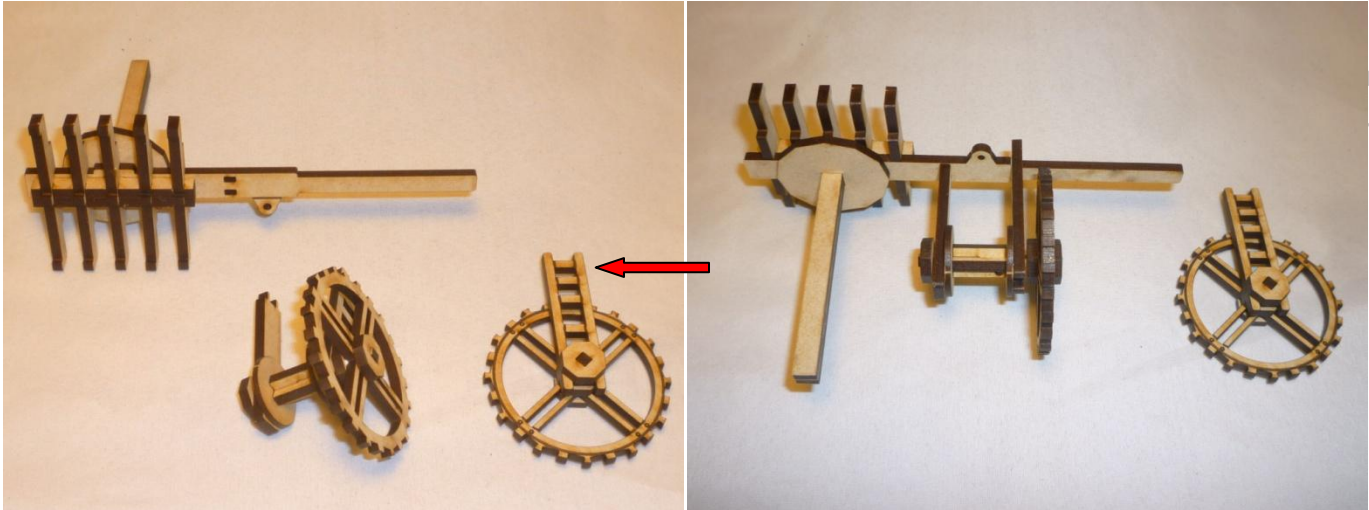




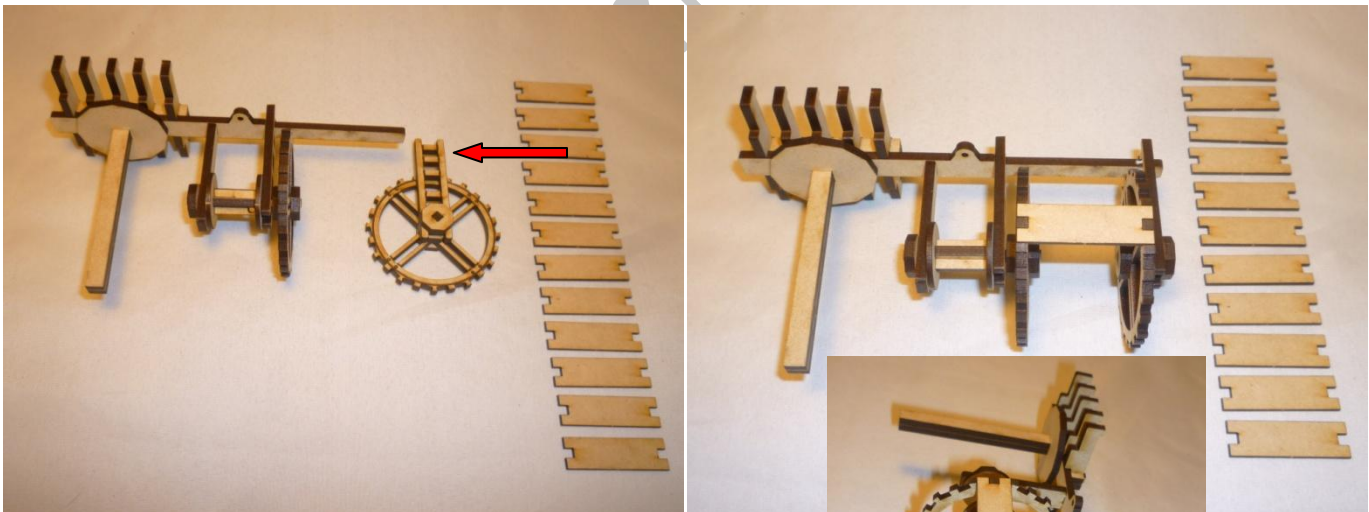
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When both wheel structures are dry glue them onto the crossbeam as shown.

Start with the part containing the winch. Push the ladder-like structure onto the crossbeam all the way through to where it gets thicker. Use the uppermost opening of the ladder! The solid beam fits into the two notches on the crossbeam.

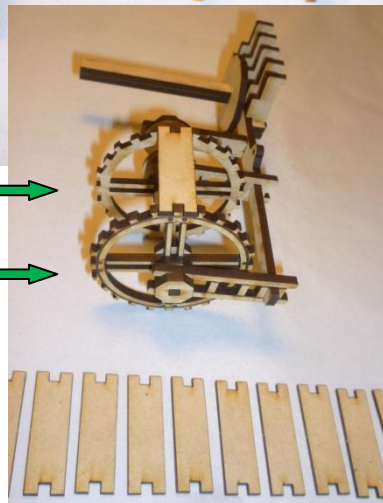


Now push the second wheel structure onto the crossbeam as shown. Use the uppermost opening of the ladder! About 1/8" of the crossbeam should be visible on the right side. The exact position will be achieved when you start gluing the tread in place. Start with one, continue on the opposite side. Then do the next two opposing treads. Imagine a clock: start at the 12 position, followed by 6, 3 and 9. Then glue all remaining treads in place. The tread wheel will get sturdier with every added piece.



Important:

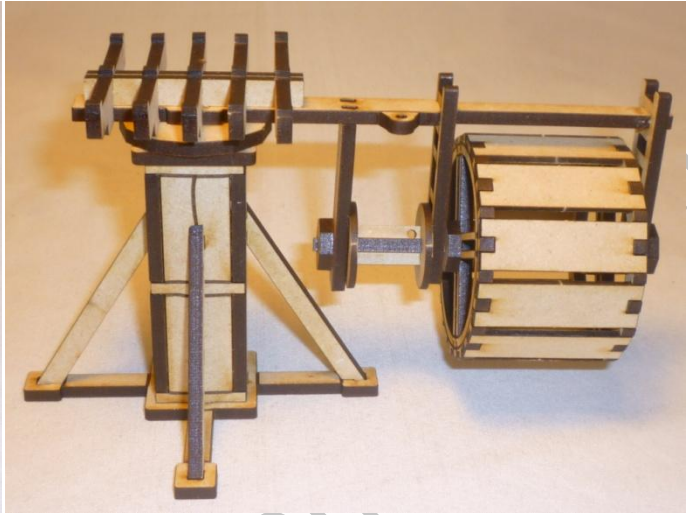
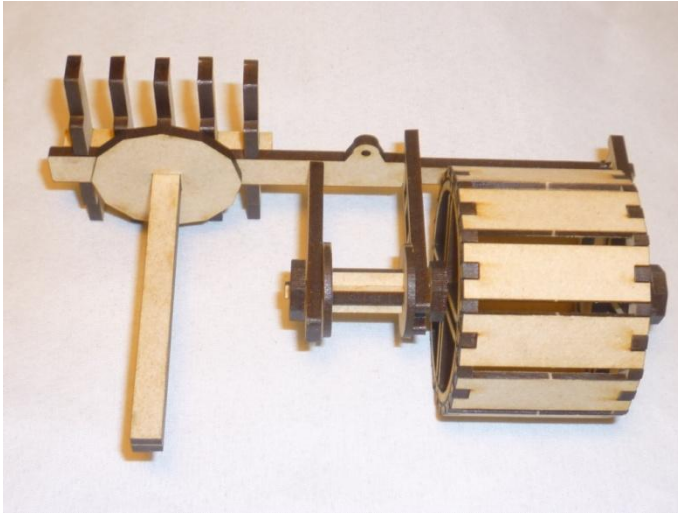
Make sure that the two big wheels are aligned in the same direction!





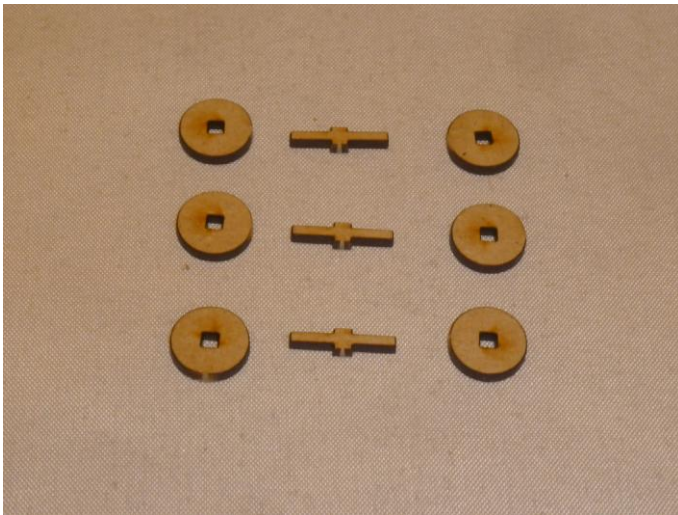
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Insert the completed structure into the base and let dry thoroughly.



Crane:

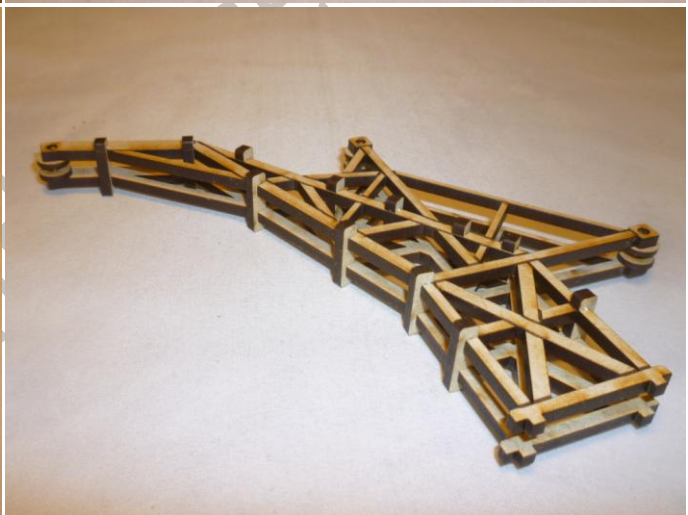
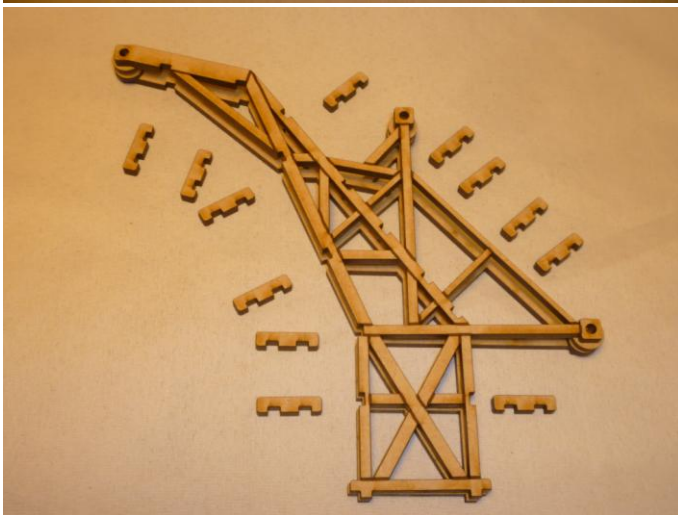
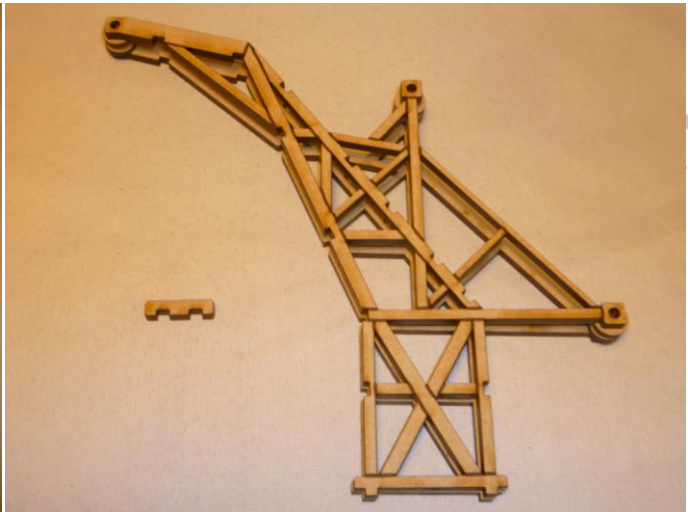
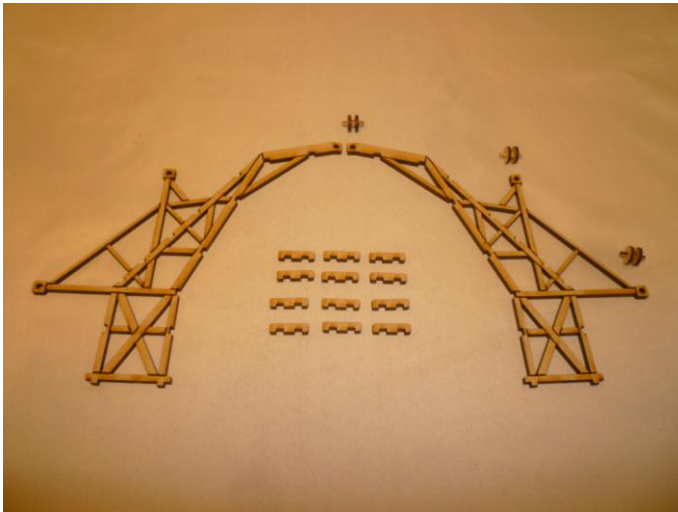
Start by building three pulleys.



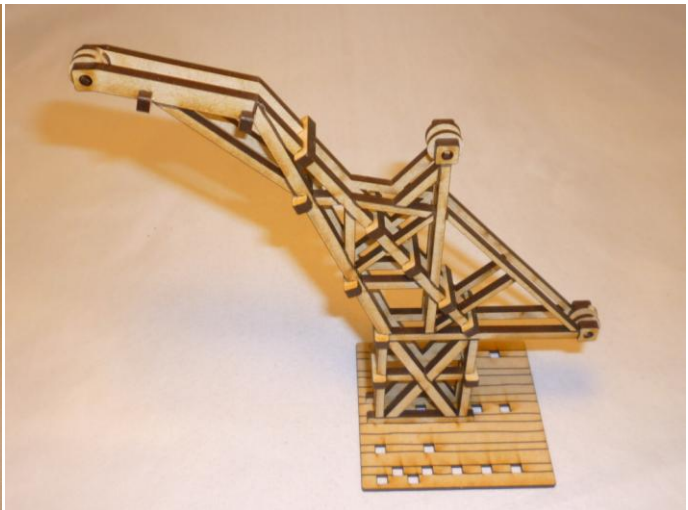
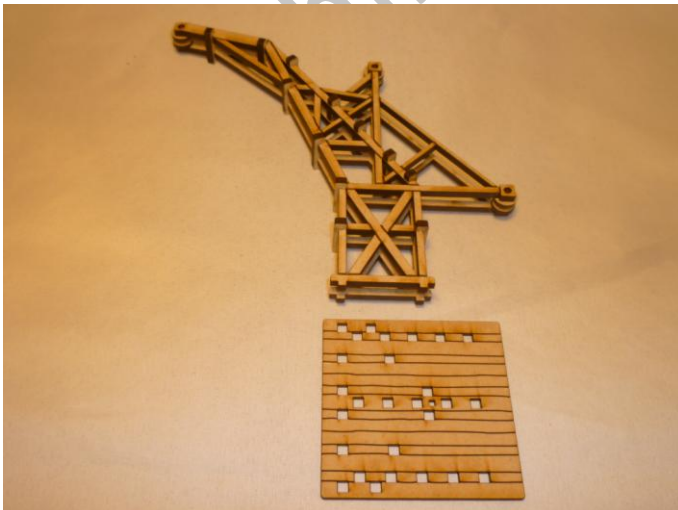


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Lay out the required parts as shown below. Put the three pulleys into the three openings. Do **NOT** use glue!
Hold the structure carefully in place and glue the twelve connectors in place as shown.



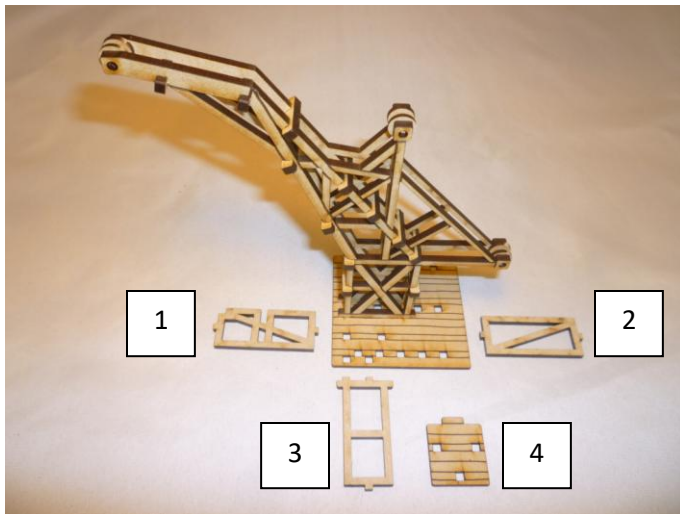
Glue onto base as shown.





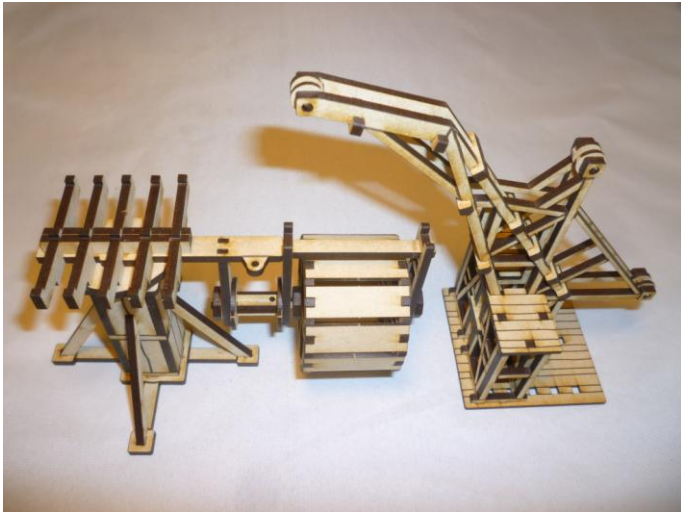
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Now build the first support structure as shown. Glue the parts on the base in the order specified in the picture. Repeat for the other side.



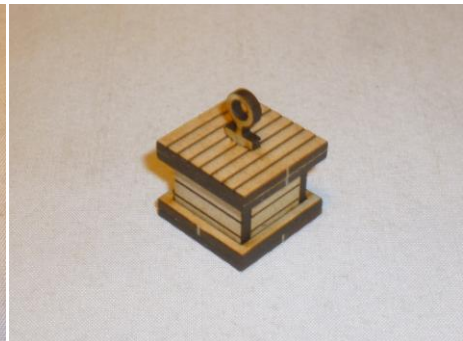
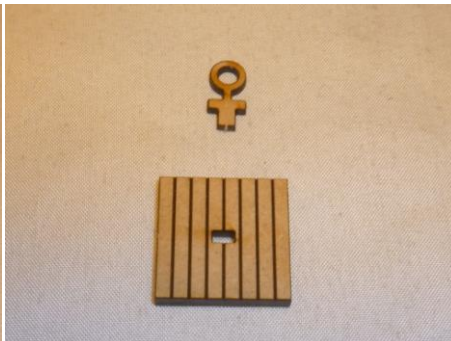
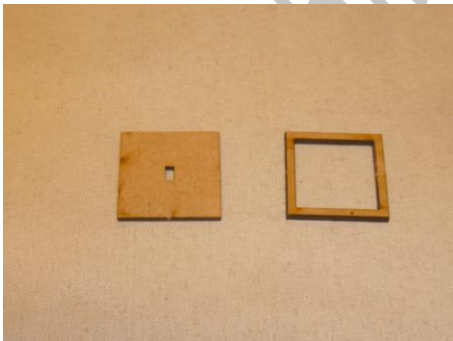
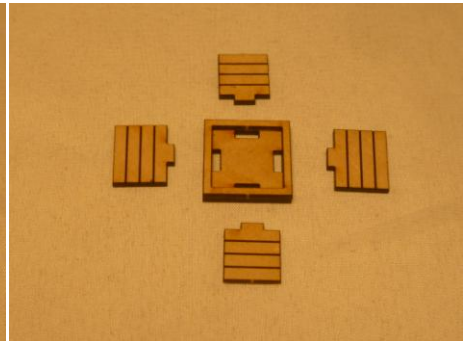
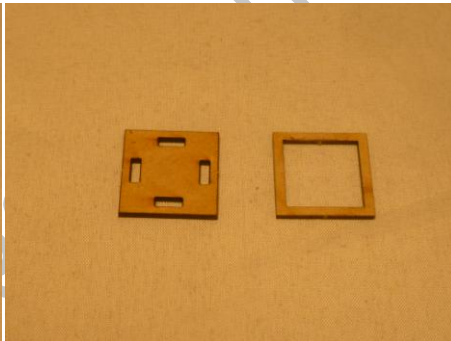
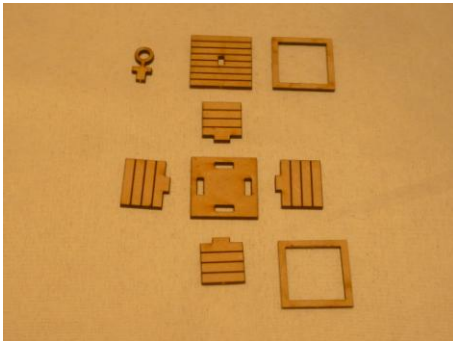
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Glue the finished crane onto the main shaft. Then finish by adding the lever in the center.



Crate:

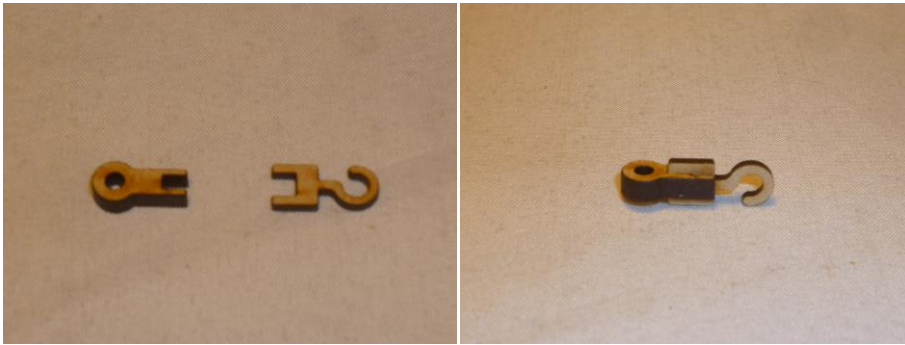
Glue crate together as shown. Before gluing the lid in place add something heavy inside to increase weight.



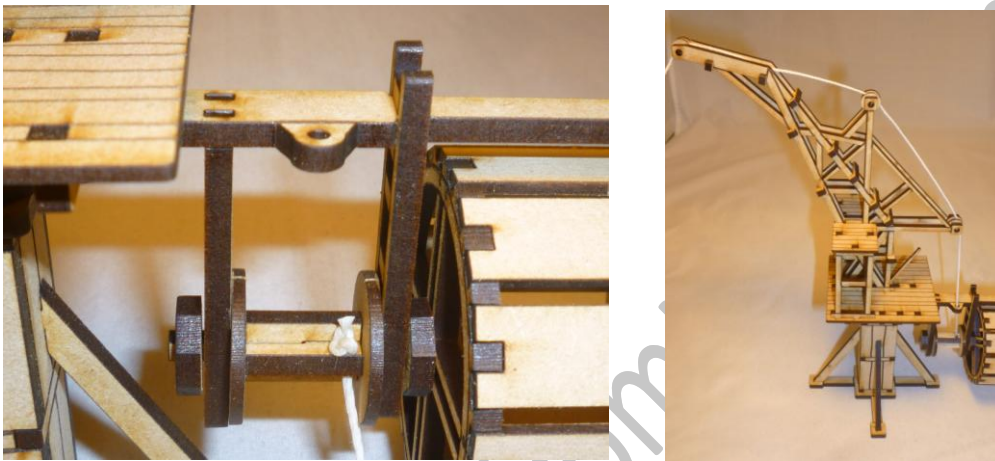


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Glue hook together as shown.



Tie a knot in the yarn and thread through the little hole in the winch. Secure in place with some glue. Then thread the yarn through the opening in the crossbeam and all three pulleys as shown. Tie the hook in place and add the crate.



If you ever experience problems or difficulties in finishing this kit don't become desperate! Just send me an email at thingsfromthebasement@gmail.com and I will help you get it done. Having designed the kit and then providing an instruction for everyone to understand is probably the hardest part of the whole project. I am ready for every kind of feedback to improve kit and instructions. I just need to know!

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Photos of finished kit:

