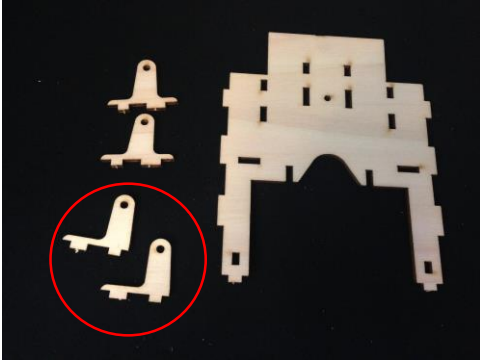
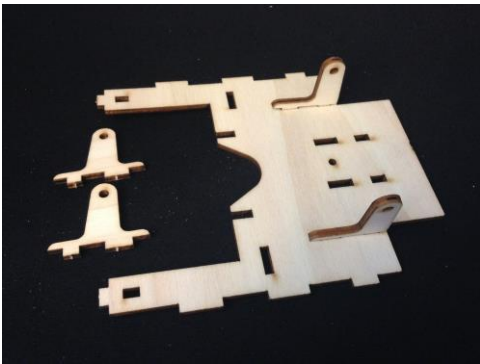


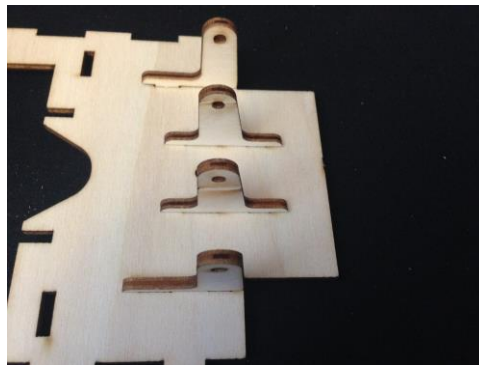
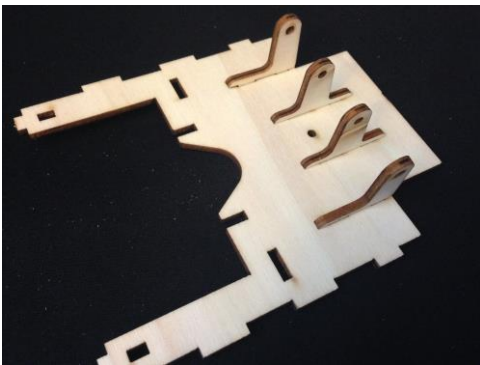
## Crawler 2



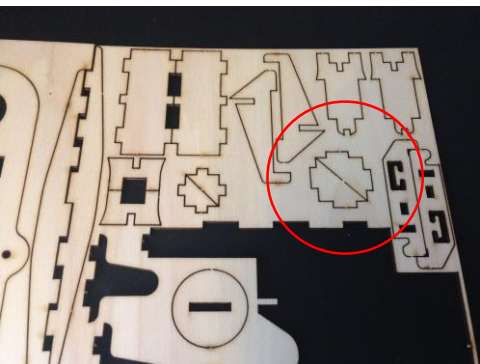
Break and file the parts as shown in the picture



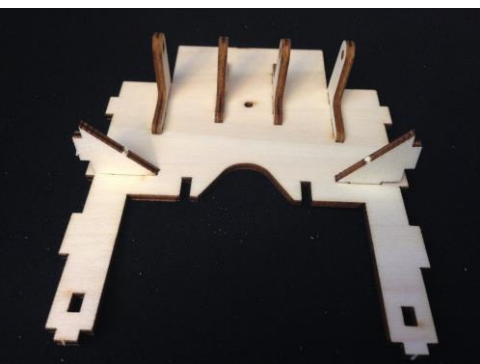
At first, we are going to glue the outer walls. We are going to use the shorter parts (please see red circle in picture above)



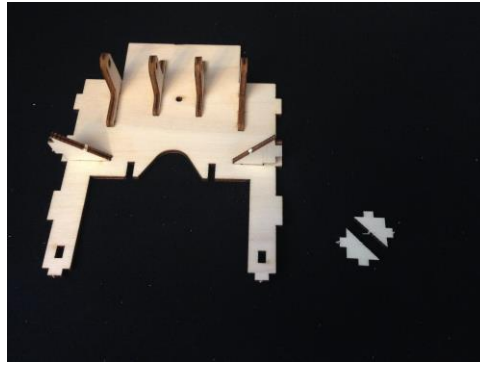
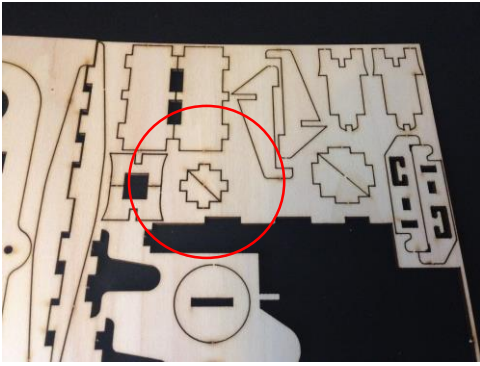
After finishing and checking, please glue the inner walls



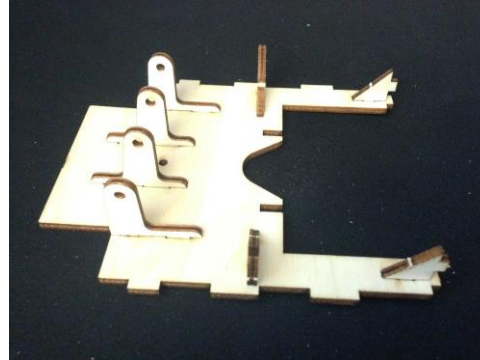
Please break and file carefully the large triangles circled in red



Glue the triangles to their proper spot. PLEASE NOTICE: until now all the parts are glued on the same side of the base.

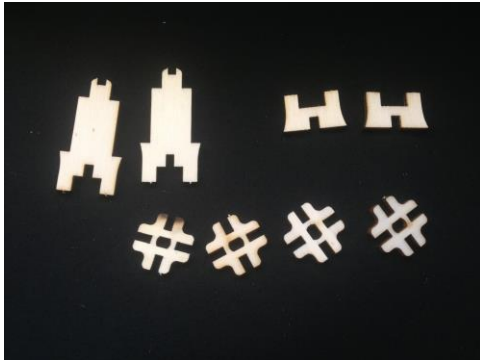


Please break and file carefully the smaller triangles circled in red



Glue the parts to the edges of the base, please make sure the straight angle is facing out.

**CHECK DIRECTIONS FOR ALL THE KIDS!!!!**

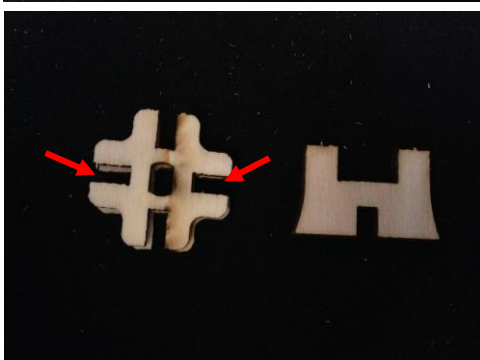


We are going to assemble the hinges that connect the motor to the wheel.

Carefully break and file the parts as shown in the picture.



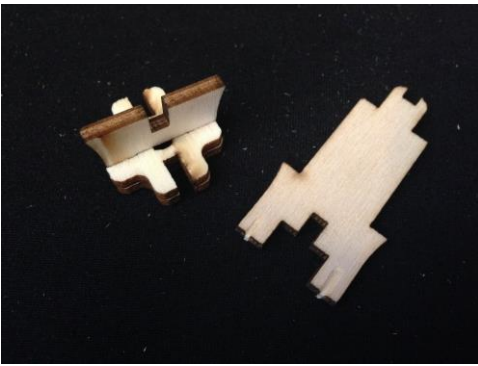
Take two # parts (hashtags), Place them on top of each other, the cracks in the middle must be aligned Do NOT continue before checking. Any mistake will cause us many problems later.



Apply a little glue on the sides of the # parts (see arrows)

Then glue the "goal" part on top. This part is a bit tricky so help the kids, if needed push the parts down against the table.

Use the table in order to insert the parts all the way without breaking them.

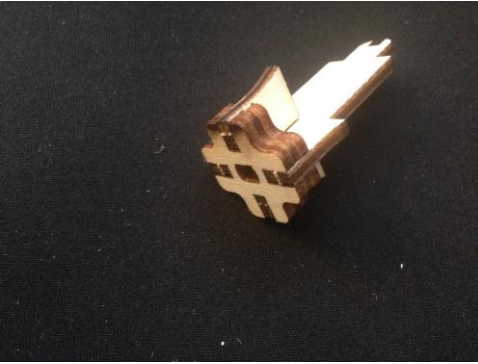


Take the final part, apply a little glue on the bottom and push the part from the top down towards the table.

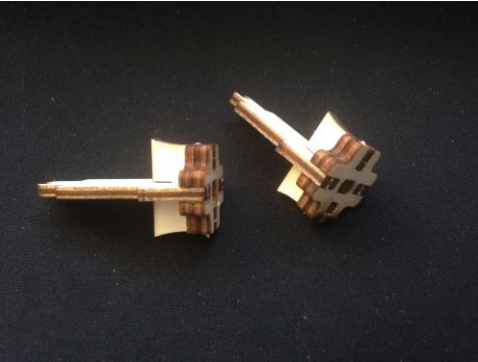
Use the table in order to push the parts in.



This is how the hinge looks like after we're done



Check again the crack in the middle of the hinge. Fix now if the cracks are not aligned!



Please go through the same routine in order to assemble the second hinge.

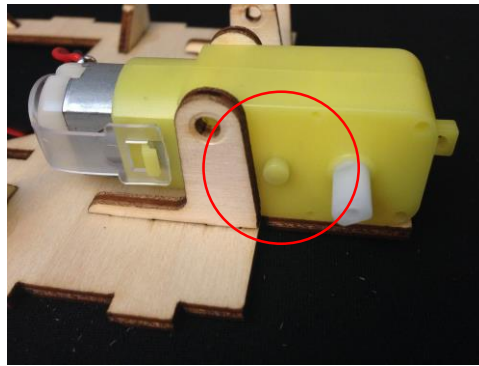
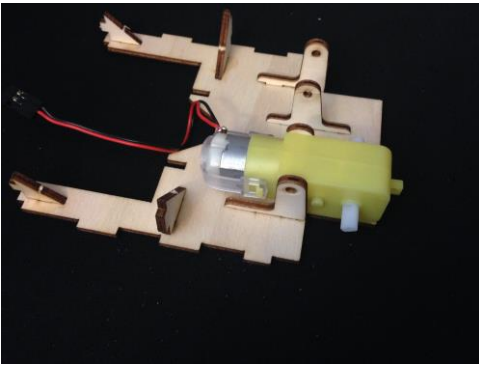
At the end double check the # parts and make sure they are assembled correctly!



Now we are moving on to the motors' assembly.

Each student receives one regular motor, and one motor marked with a black dot/circle (look at green circle)

Please give the kids instruction of how to use the motor probably in order to not rip the wires and damage the motor.



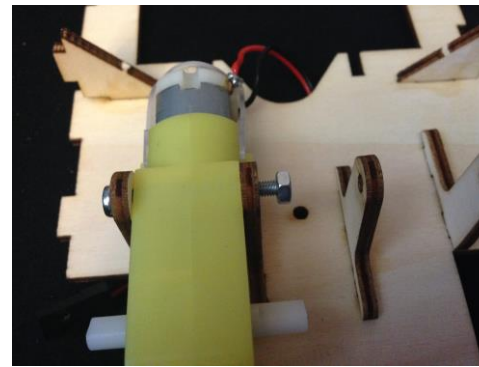
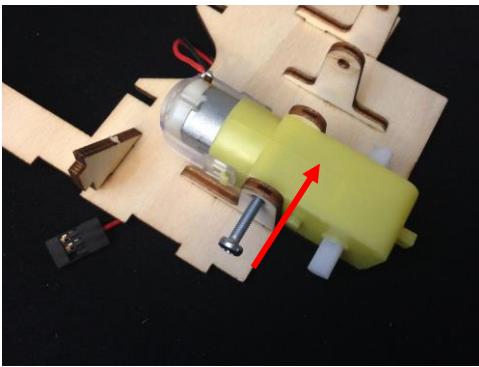
We are going to place the 1<sup>st</sup> motor in its place. We have only one way to make sure the motor is in the right direction.

**If the motor is not placed correctly there is no way of fixing it later on!**

**Pay attention to the bump on the side of the motor (red circle). The bump should always be FACING OUT!! Ignore the wires' directions.**

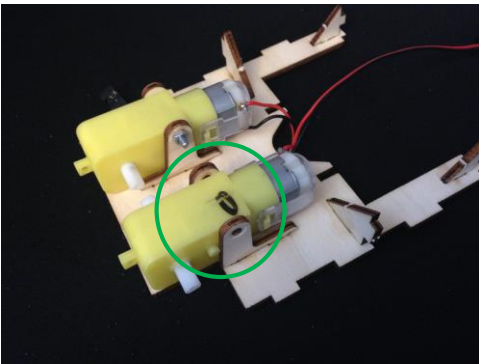


After all the kids placed the motor in its place, check their models!!! Then hand each of the kids a 30 screw and a regular locknut.



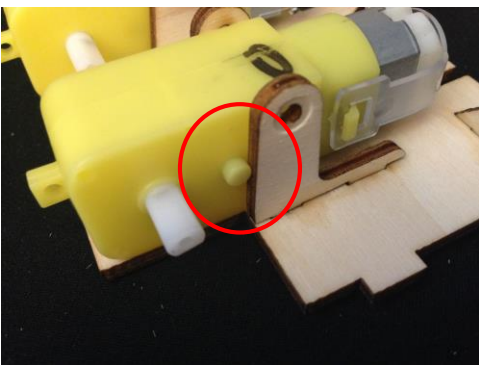
Push the screw in from the outer side towards the inner side (look at the arrow) Once inserted correctly tighten up the locknut.

This is a great opportunity to double check the direction of the motor!



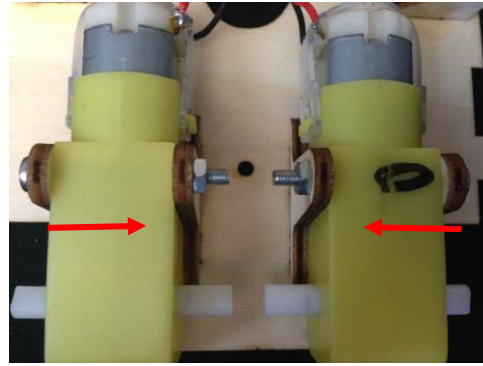
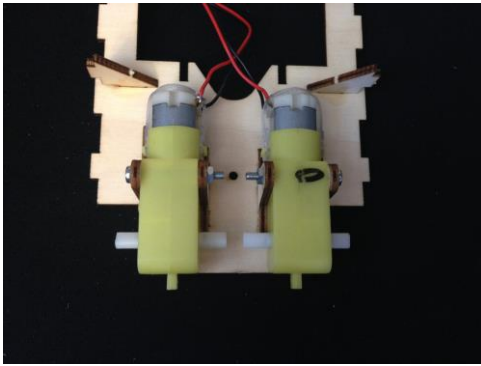
After assembling the 1<sup>st</sup> motor, we are continuing to the 2<sup>nd</sup> one.

Please notice that the 2<sup>nd</sup> engine should be different from the 1<sup>st</sup> one, so each student has 1 clean motor and one marked in black.



Just like we assembled the 1<sup>st</sup> motor. Ignore the wire's direction and concentrate on the bump.

The bump should be FACING OUT (look at red circle)



After checking the students placed the 2<sup>nd</sup> motor in its rightful place, hand the students one 30 screw and one locknut.

Like the first time, the screw will be inserted from the outside towards the inside (look at red arrows)

After finishing, double check all the steps from beginning to end.

Both motors are side by side. The right motor's bump is on the right side, the left motor's bump is facing the left.

Both 30 screws are coming from the outside and both locknuts are next to each other (between the motors)