

I have tried a different approach to the instructions for the Tumbl3 Tank based on feedback for the Tract3r Car. I have taken lots of pictures instead of relying on the Lego Digital Designer. From start to finish it took about 7.5 hours to go from an idea and a pile of bricks to the finished tested model.

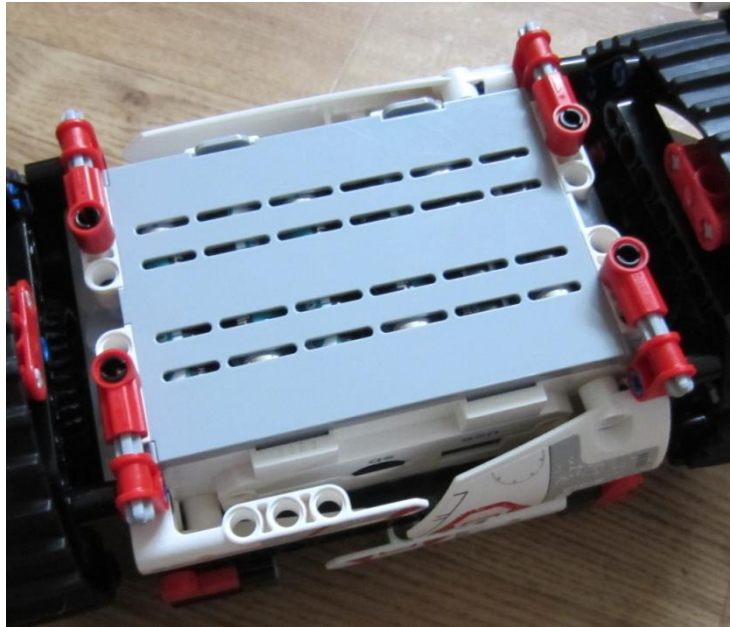
The frame around the brick can be found in the .lxf file stored with this instruction file on the LEGO website. This model is very compact which makes it quite a tricky build. It is hard to show the frame construction in photographs. The panels were added after the model was finished to make the tank more visually interesting and serve no functional purpose.

The instructions for the wheels are much clearer and can be found towards the end of the document.



Along each side of the brick attach a 13 bar using 4 black pegs. At the ends of each bar add the red piece with two holes side by side that can fit over a bar and secure with a red 2 axle.

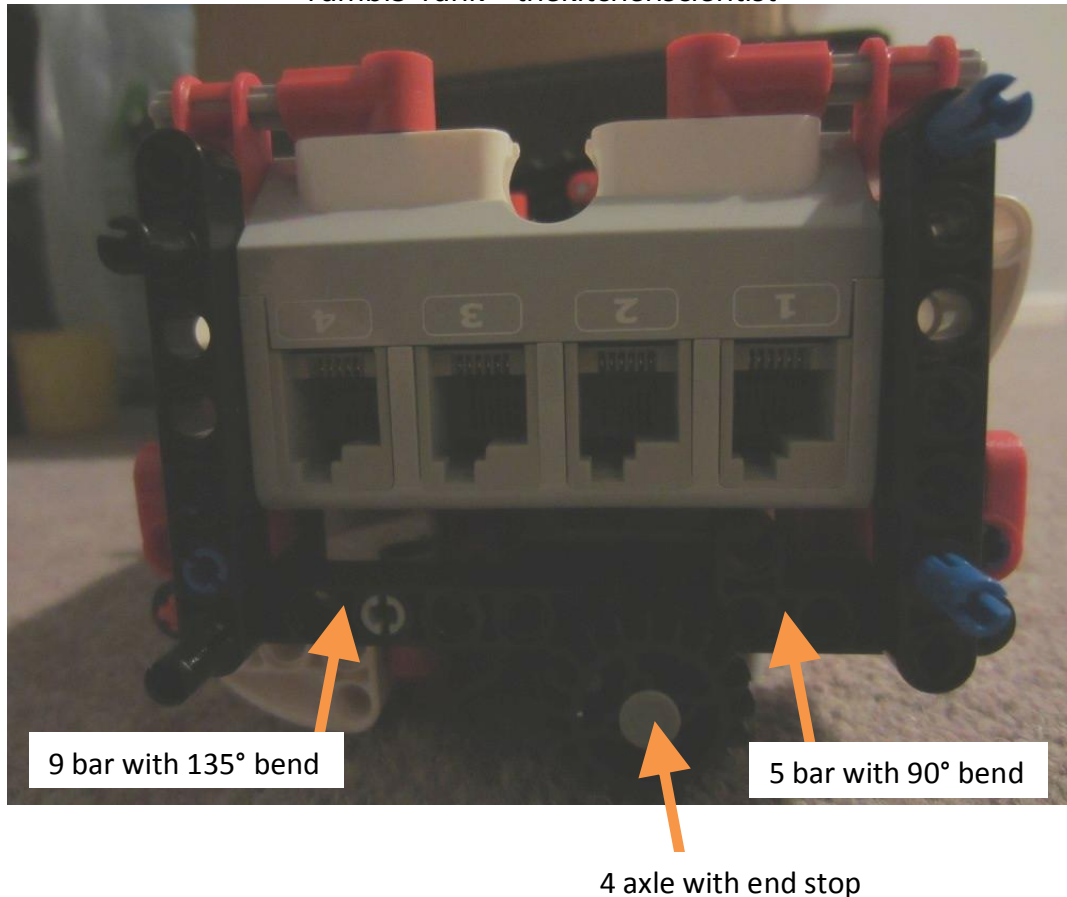
Add the four supports to the base of the brick as shown in the picture below.



Add two 7 bars to each end of the brick as shown on the next page. One bar on each end is attached with black pegs the other with long blue pegs.

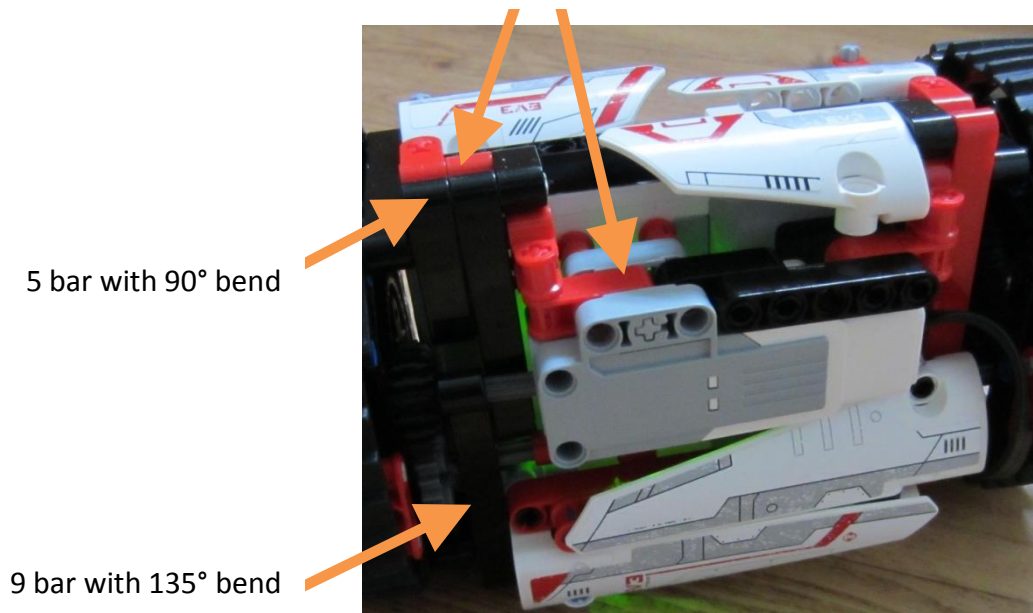
At the motor port end of the brick attach a red 13 bar along the top of the screen. At one end it is fixed to the 7 bar upright and at the other end (shown below) used a 2 bar along with a black peg and blue cross peg.



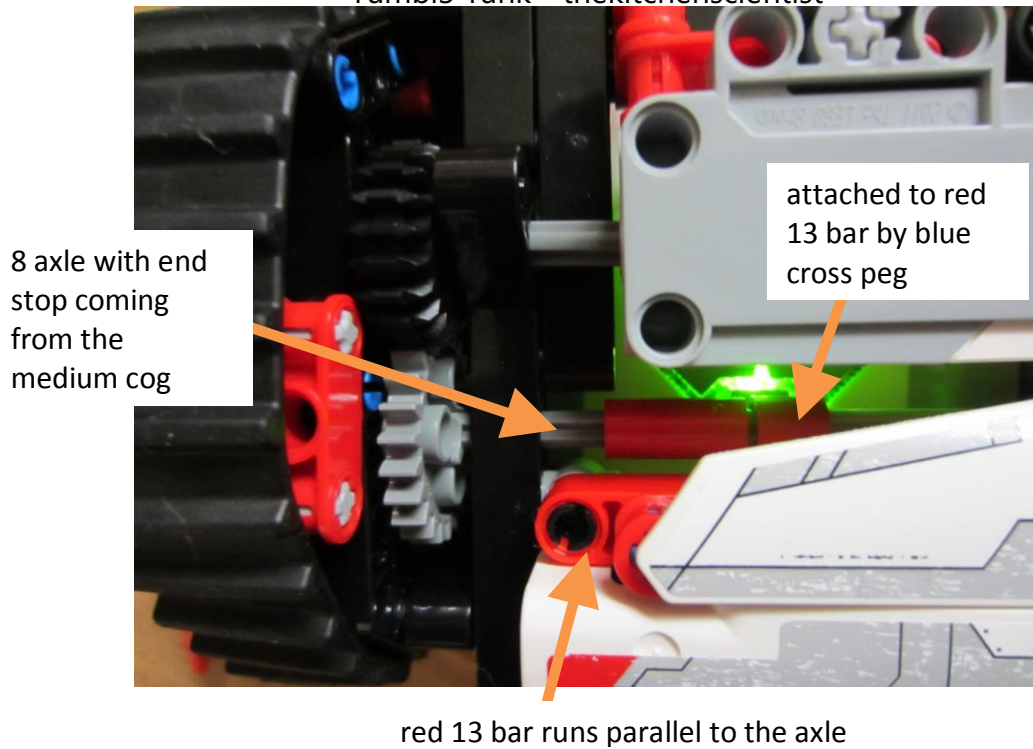


At the sensor port end use a 9 bar with 135° bend, 5 bar with 90° bend and a 7 bar to create a bar 13 long. One end attaches to the 7 bar upright, the other is fastened as shown below using a grey 3 axle, 2 bar, long blue peg and red 3 piece.

these two pieces are the same

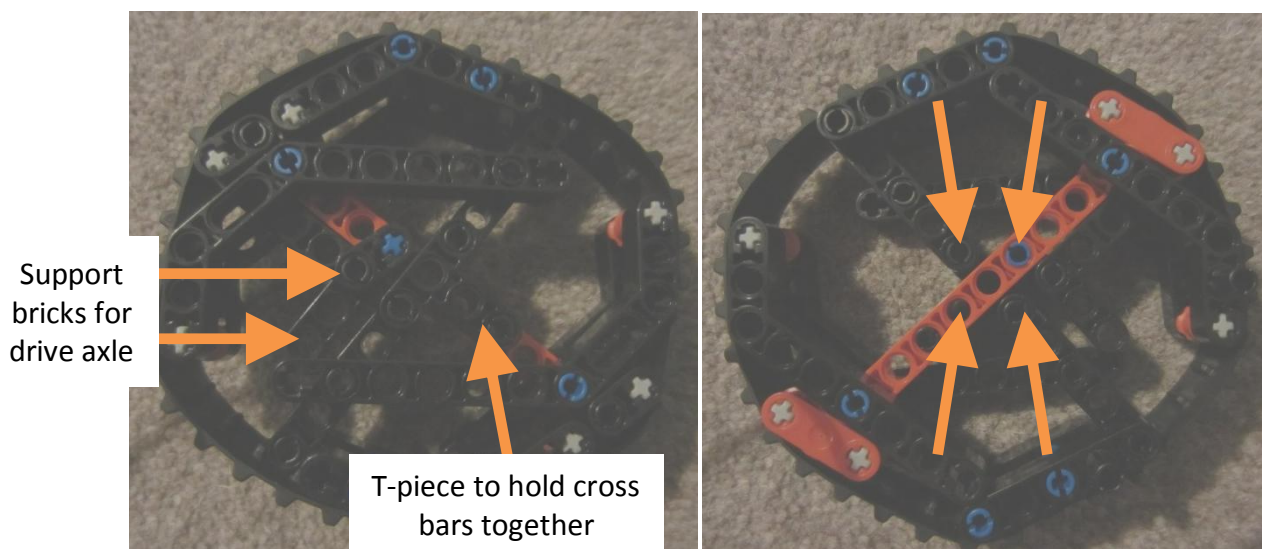


The motor and gears are fixed to the frame as shown above and below

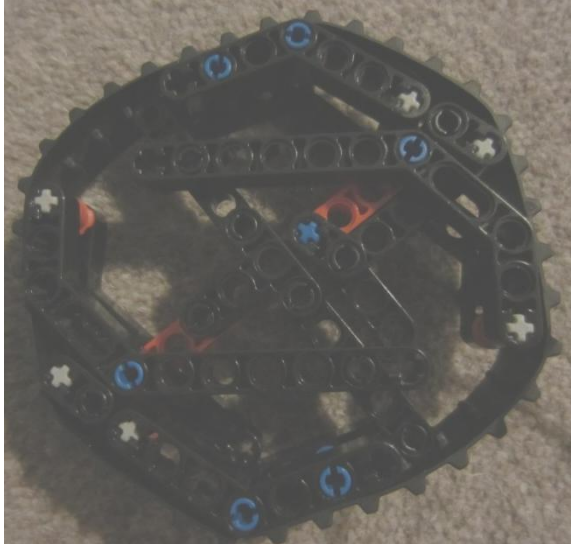
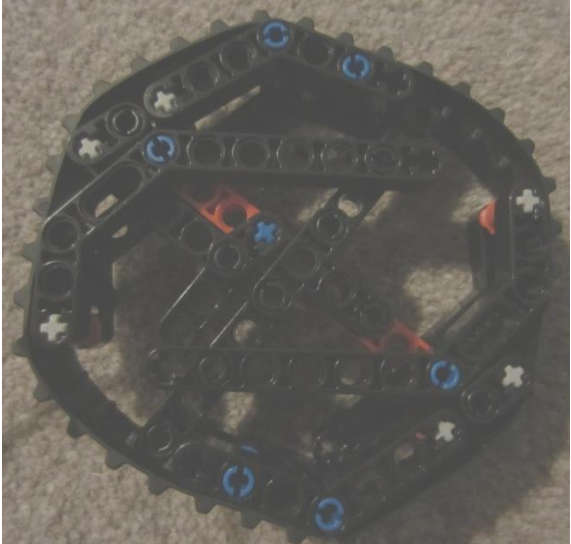
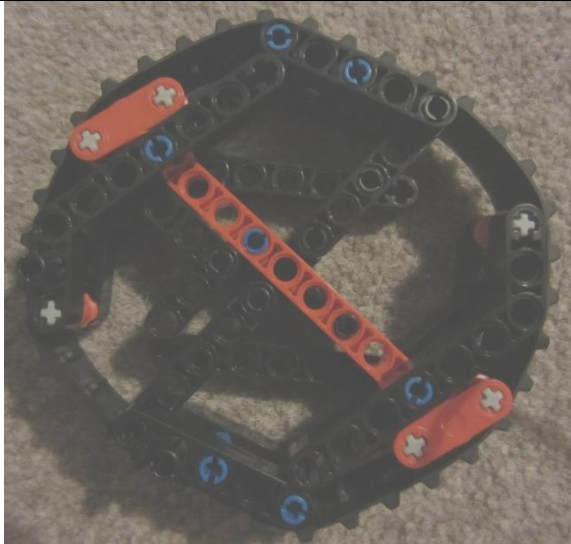



There is a red 13 bar that runs parallel to the drive axis to support it. The other end (not shown) attaches to the red 13 bar that runs above the screen in the same way. There is another red axle joiner and axle support by the screen.

The wheels don't spin in this model but can be easily modified so they could be used as drive wheels. The pictures below show how to modify the construction to do that.





If you desire to use the wheels in another model where they are turned by an axle, remove the support bricks for drive axle, T-piece and pegs. On the other side use 2 black pegs and 2 blue cross pegs and a large black cog at the wheels centre.

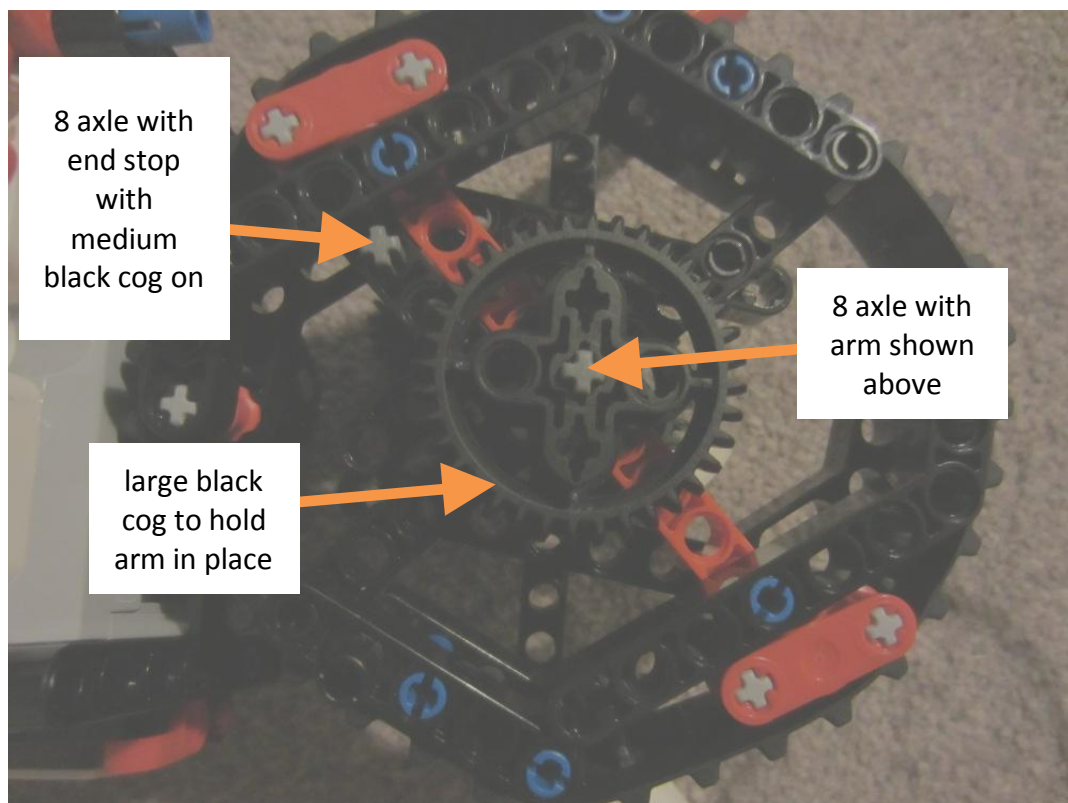
Sensor Port Wheel	Motor Port Wheel
	
Outside	
	
Inside	

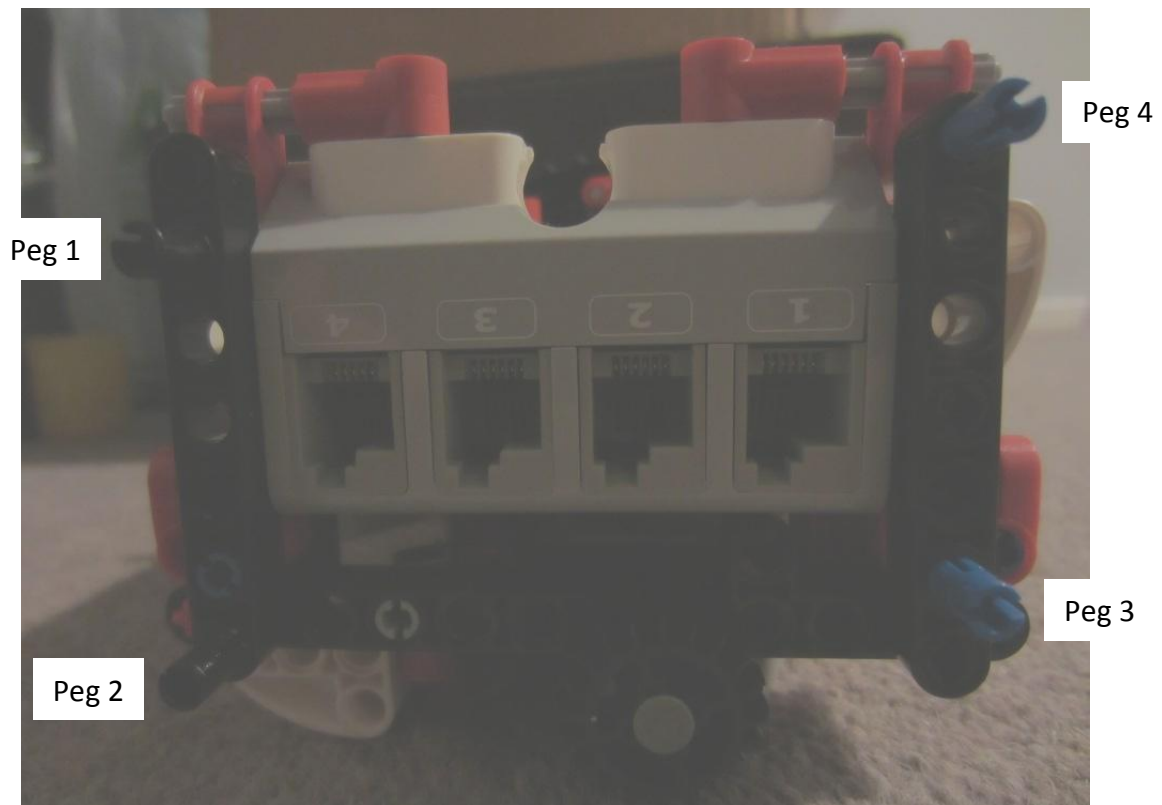
For each wheel you will need:

- 6 x 3 grey axle
- 2 x Red 1 sleeve
- 2 x 9 bar with 135° bend
- 2 x 12 bar with two 45° bends
- 4 x 5 bar
- 2 x Red 3 bar
- Red 11 bar
- 6 bar with 90° bend
- 2 x 7 bar with 135° bend
- 3 x 2 bar
- 5 bar T-piece
- Blue cross peg
- 6 x long blue pegs
- 10 x black peg
- Track

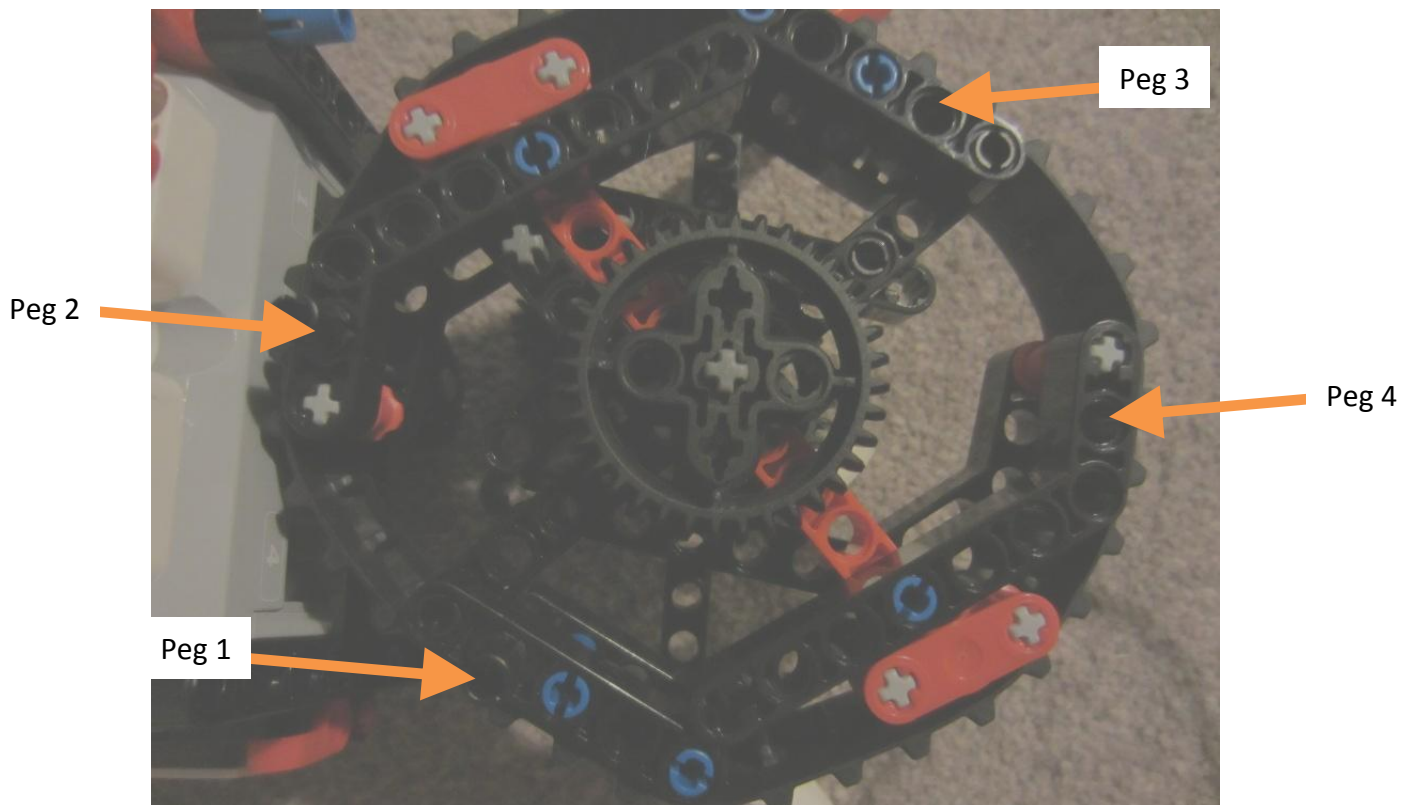
Sensor Port Arm	Motor Port Arm
 <p>3 x 9 bar with 135° bend Grey 3 axle Grey 5 axle Grey 8 axle with stop 2 x black connector Yellow 0.5 sleeve Red 1 sleeve 4 x teeth 2 x white blades Large black cog</p>	 <p>3 x 9 bar with 135° bend Grey 3 axle Grey 5 axle Grey 8 axle with stop 2 x black connector Yellow sleeve Red sleeve 4 x teeth 2 x white blades Large black cog</p>

Track frame and arm should be put together as shown below before attaching to the brick.





The motor port side is a mirror image of this; the blue pegs are on the same edge of the brick.



(I moved the black pegs from the brick to the wheel to remind me where they go)