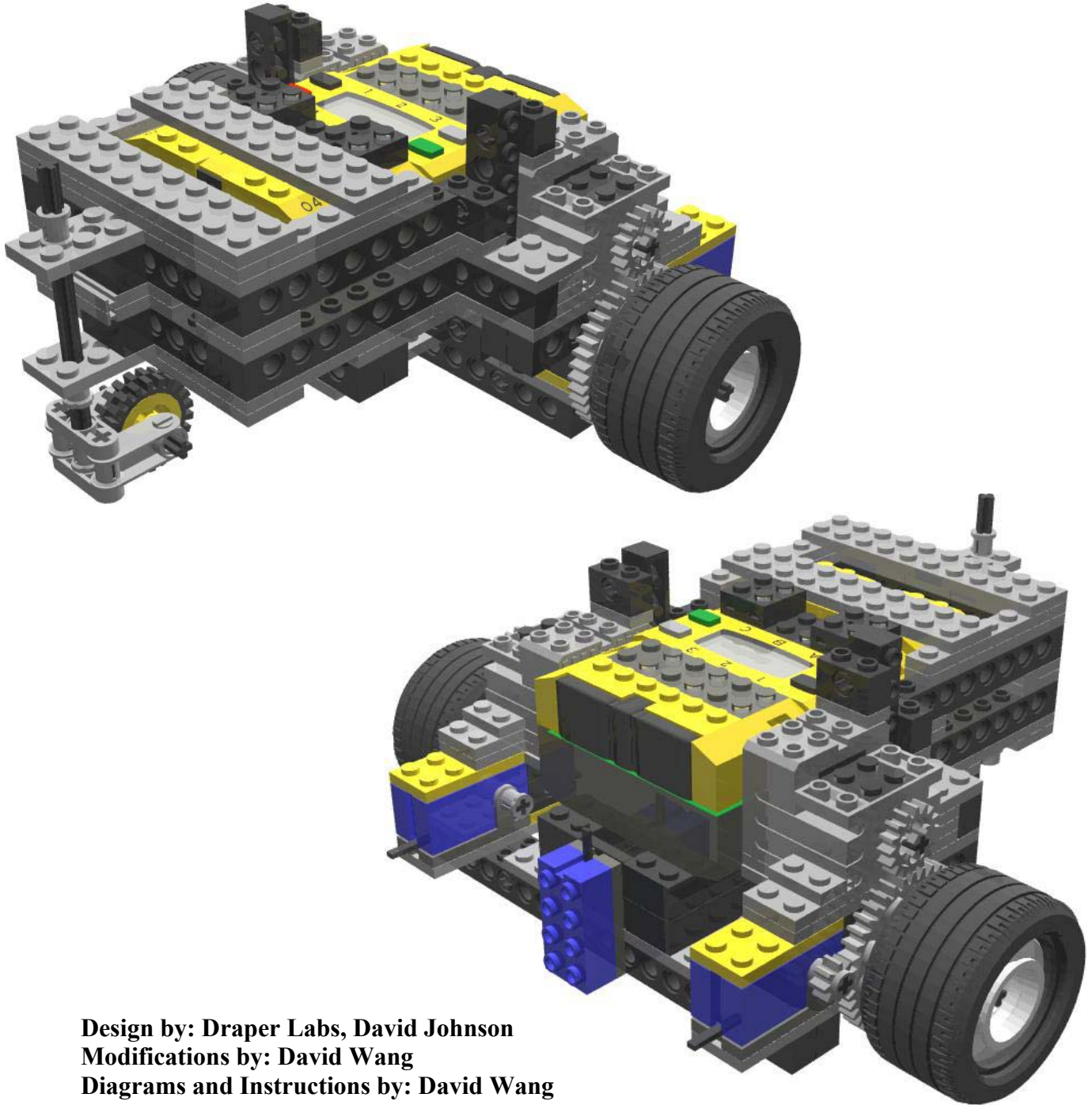
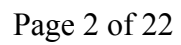


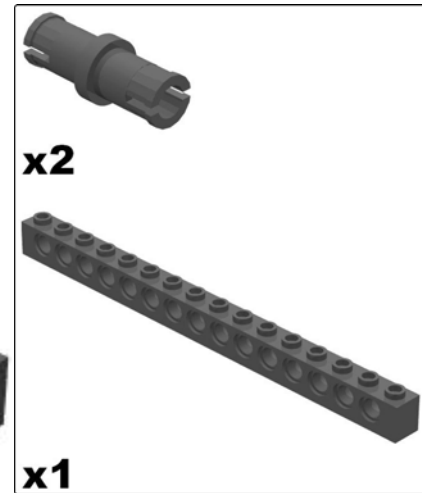
Building Instructions: Mars Robot



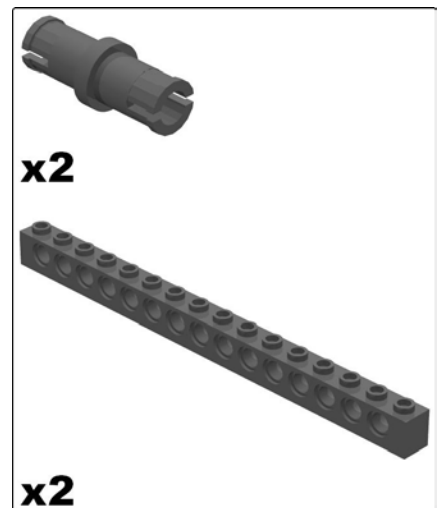
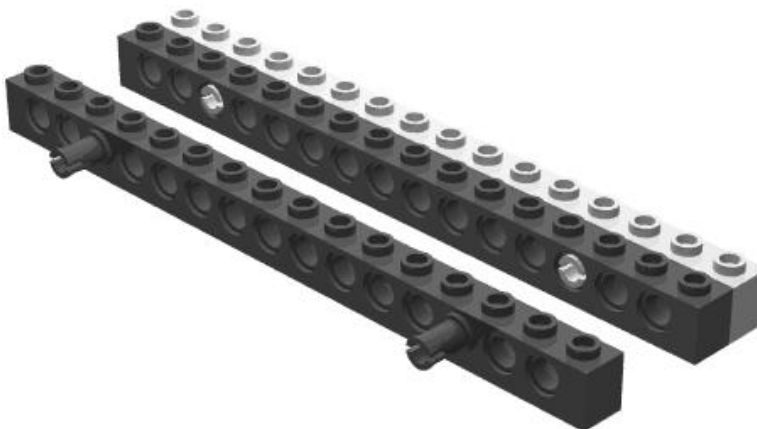
Design by: Draper Labs, David Johnson
Modifications by: David Wang
Diagrams and Instructions by: David Wang
Diagrams and Instructions generated by: MLCad, LPub, L3P, and POVRay



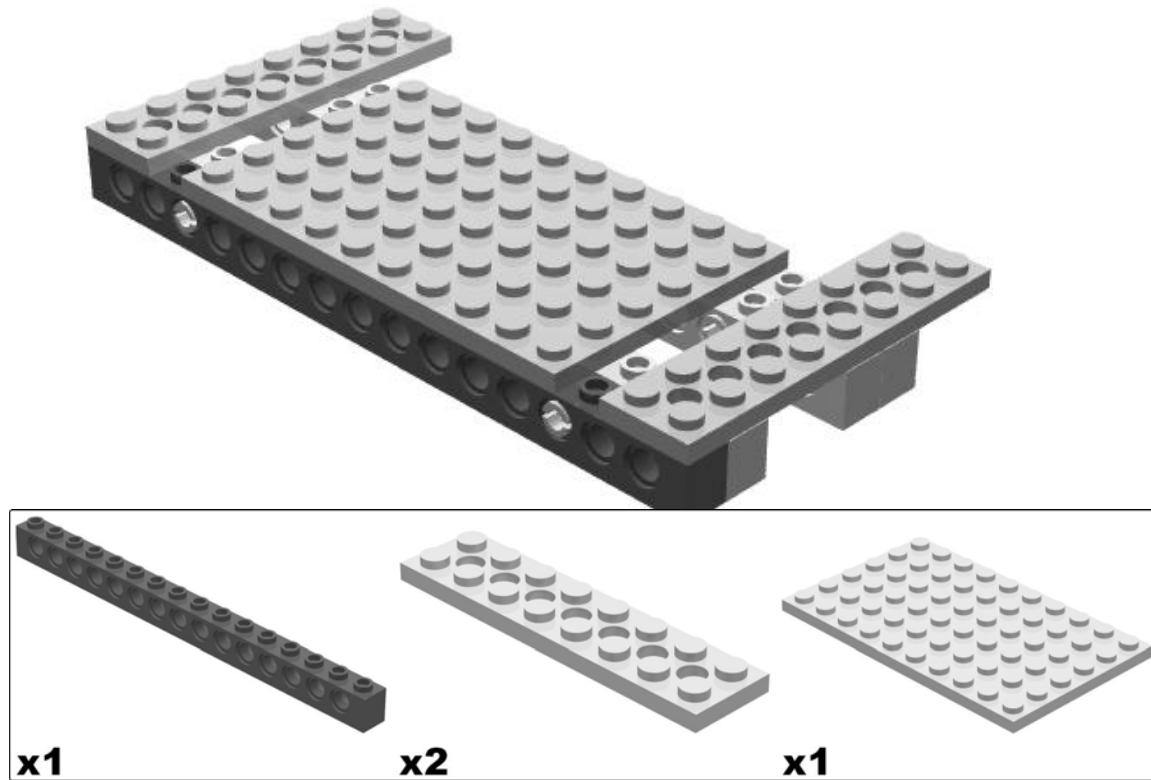
Step 1:



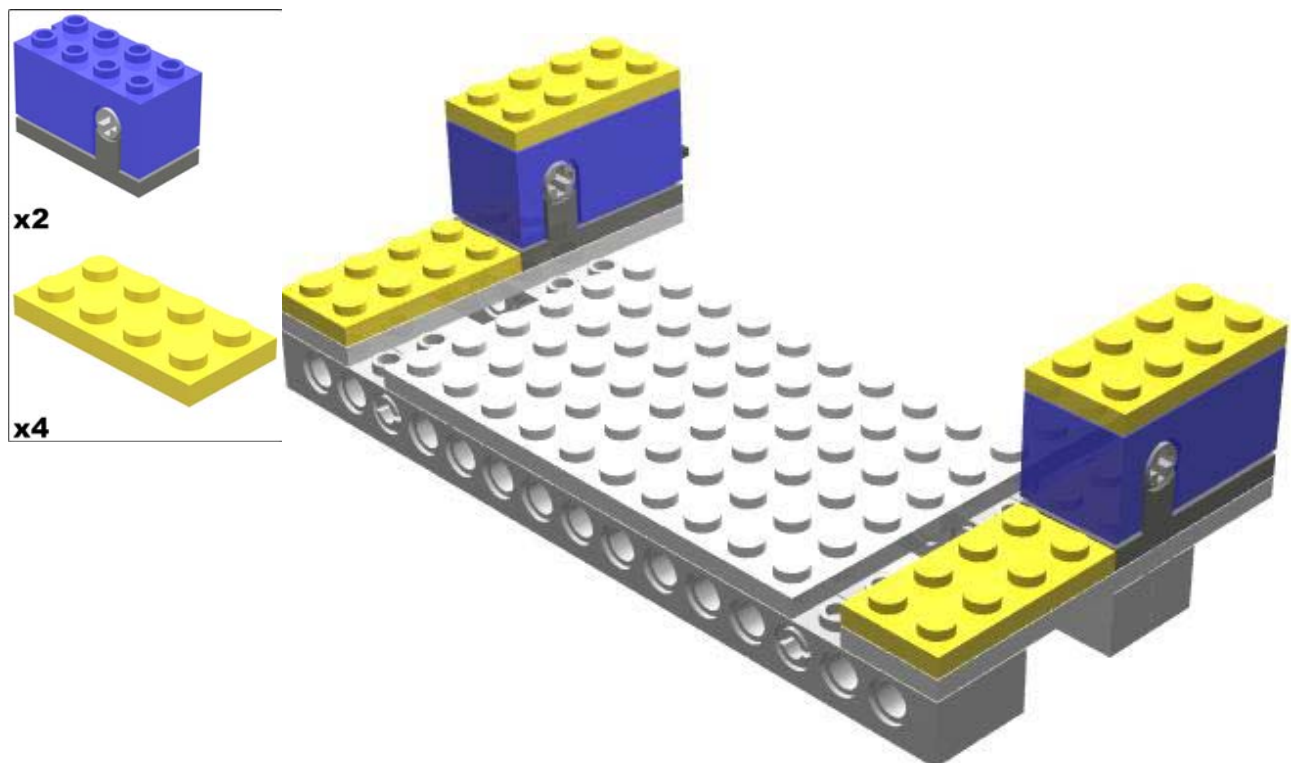
Step 2:



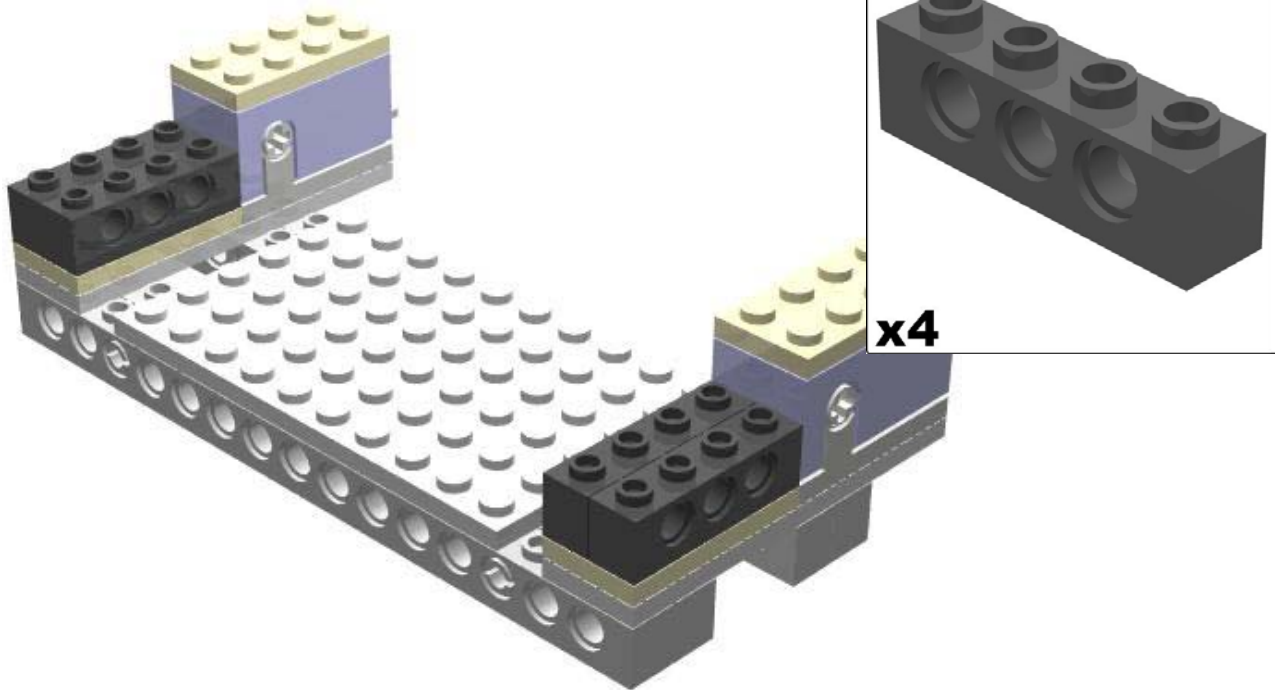
Step 3:



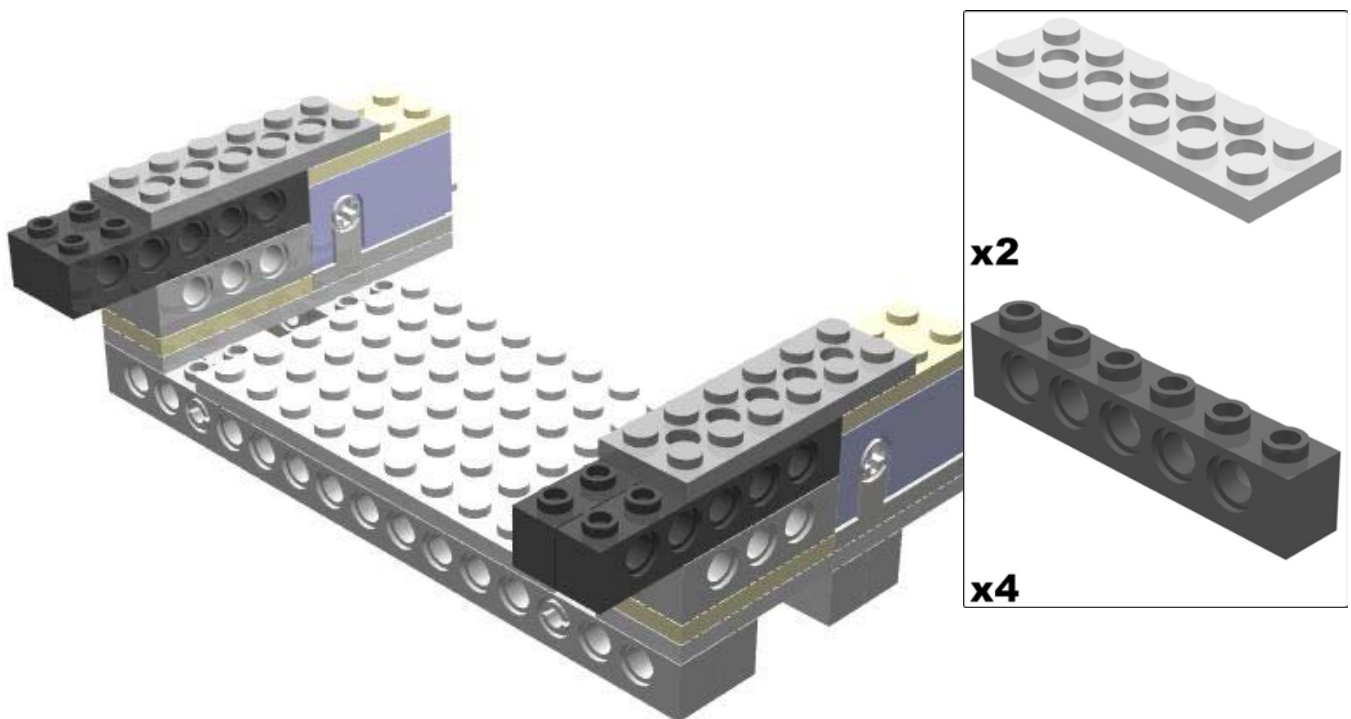
Step 4:



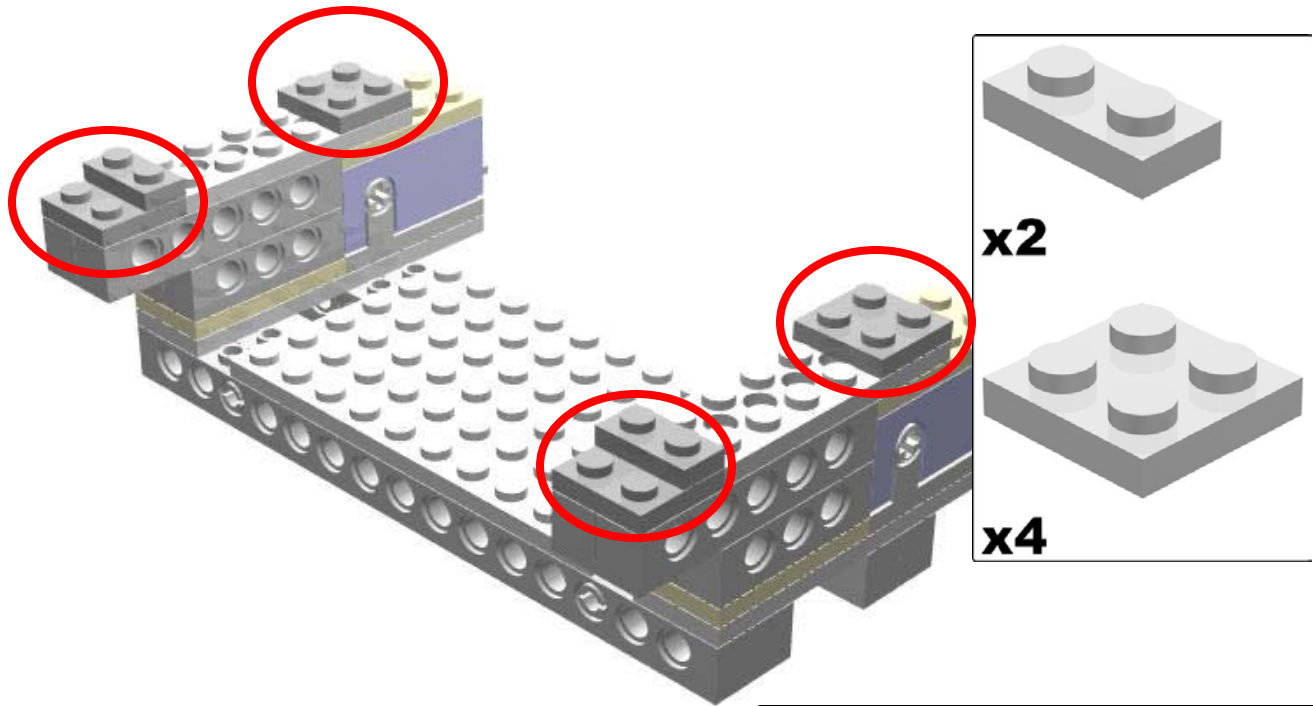
Step 5:



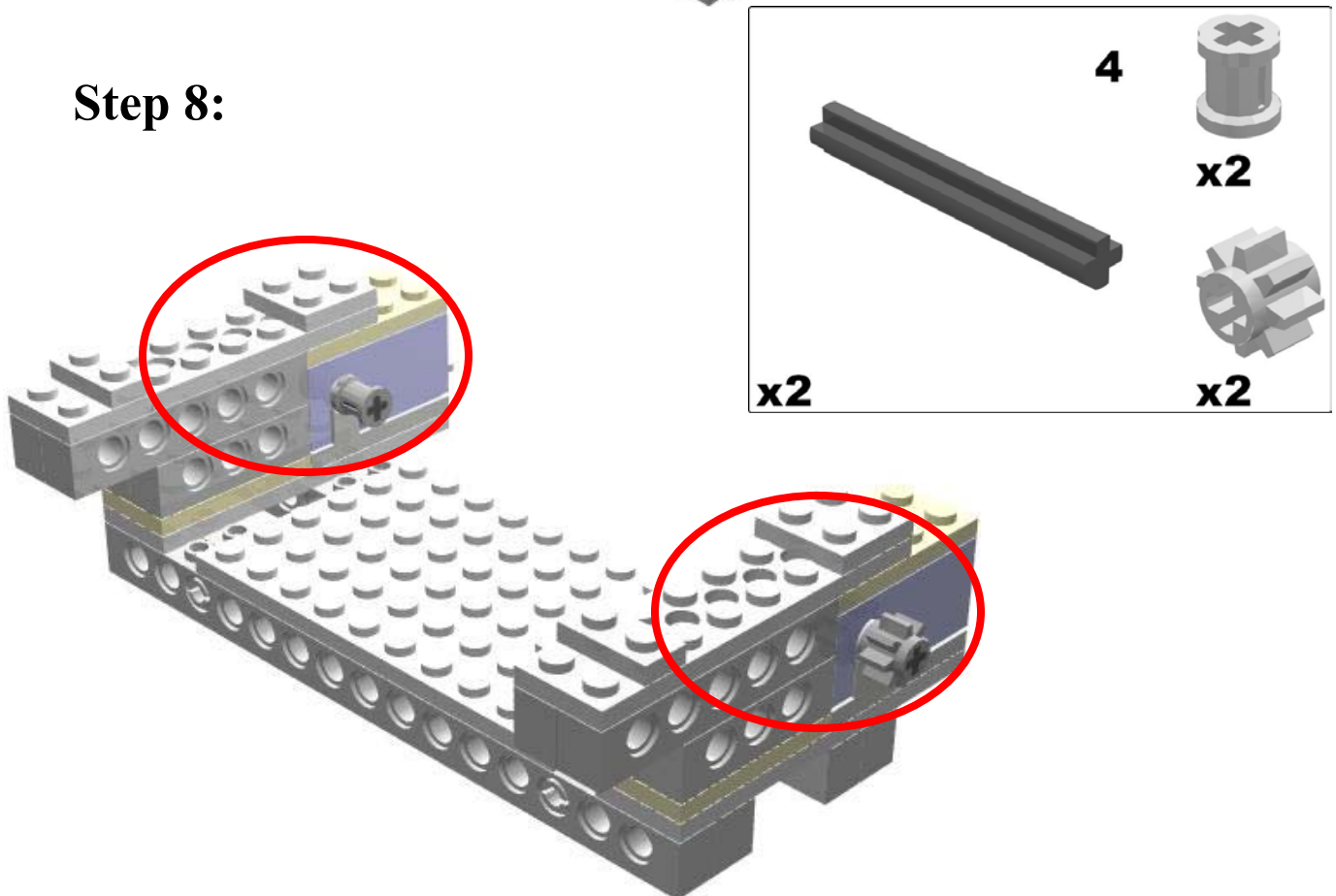
Step 6:



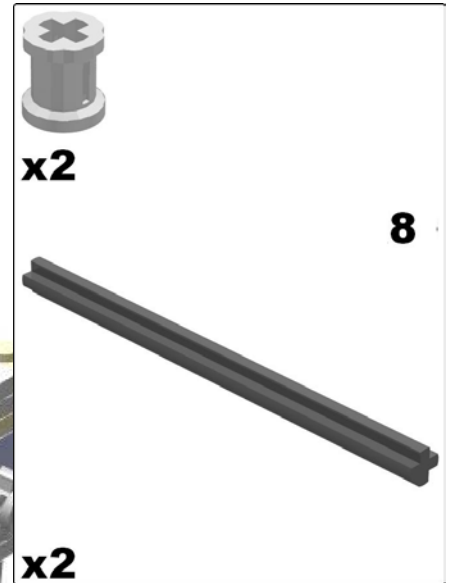
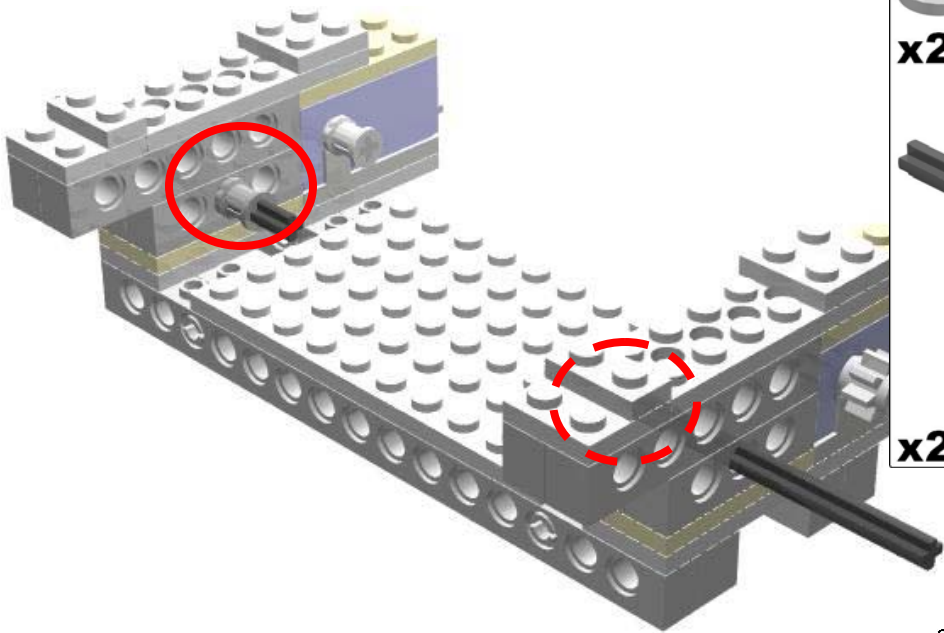
Step 7:



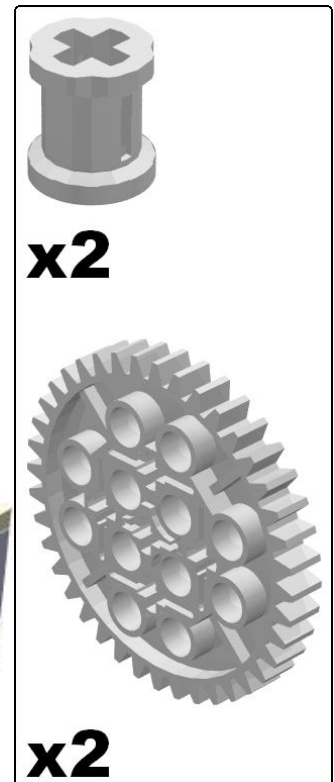
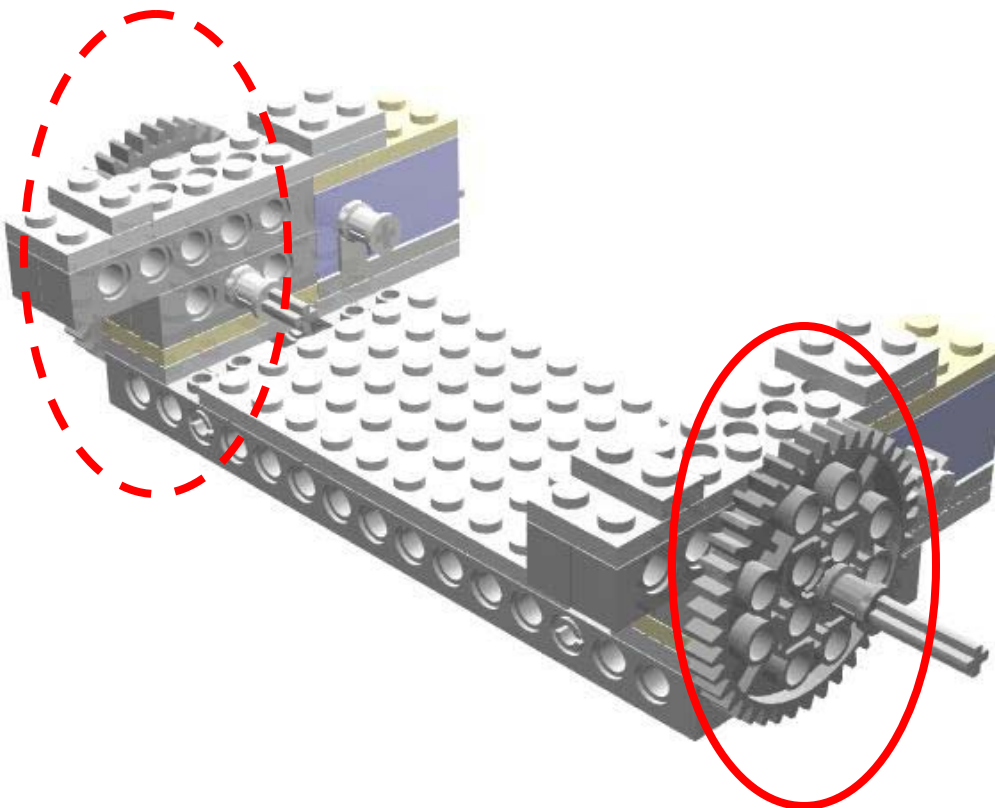
Step 8:



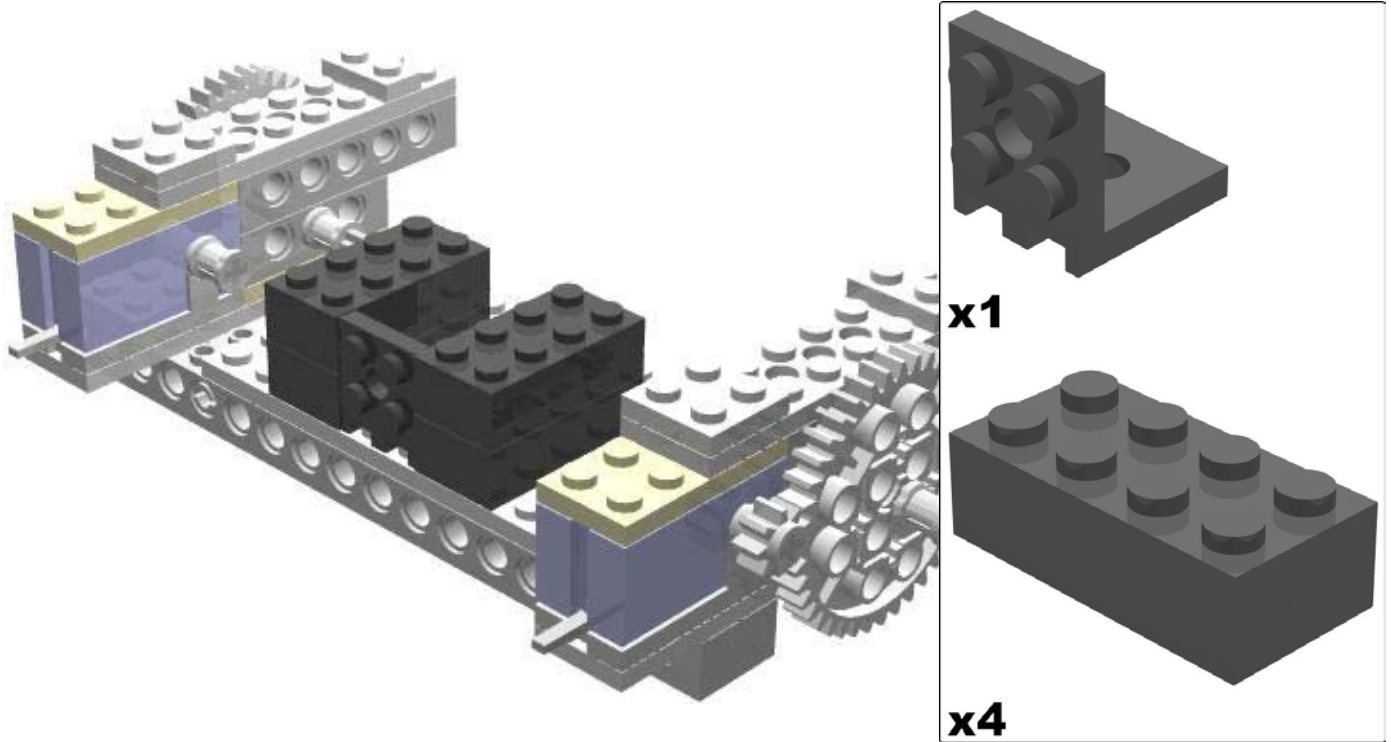
Step 9:



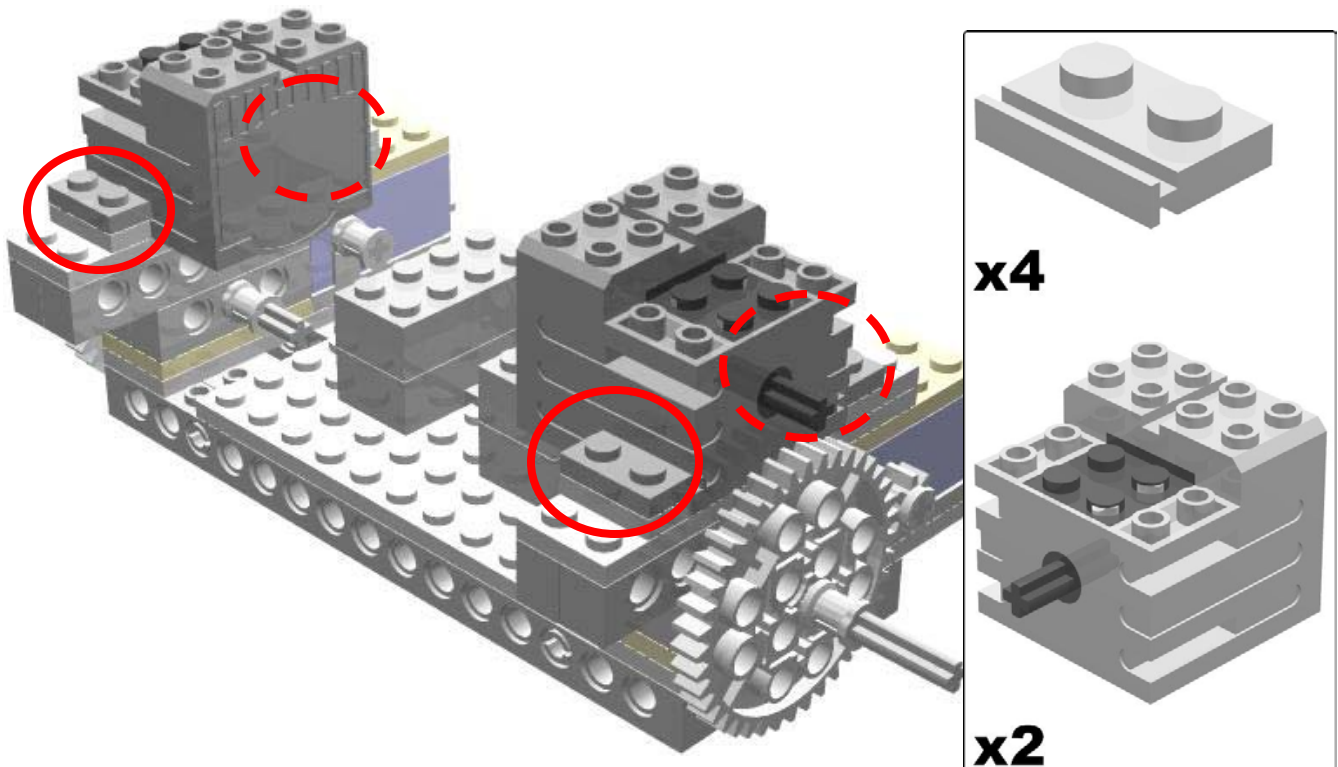
Step 10:



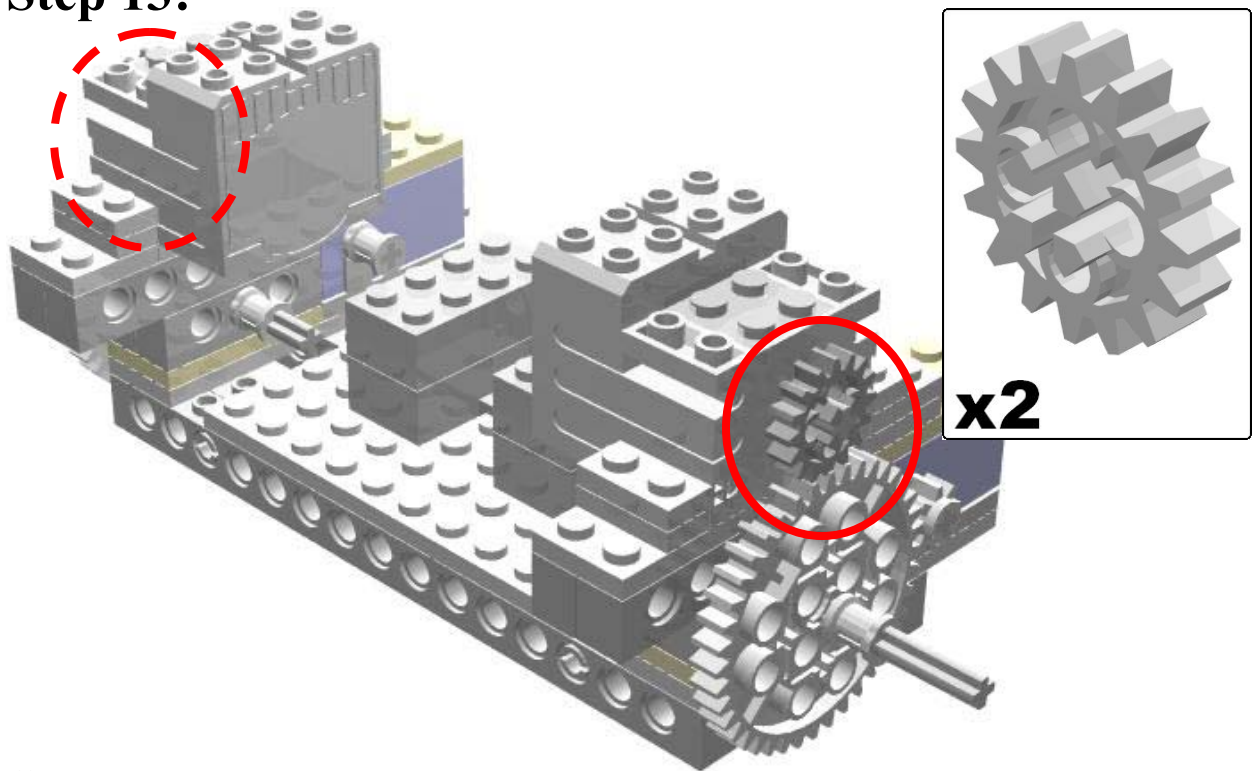
Step 11: (Rotate construction by 180°)



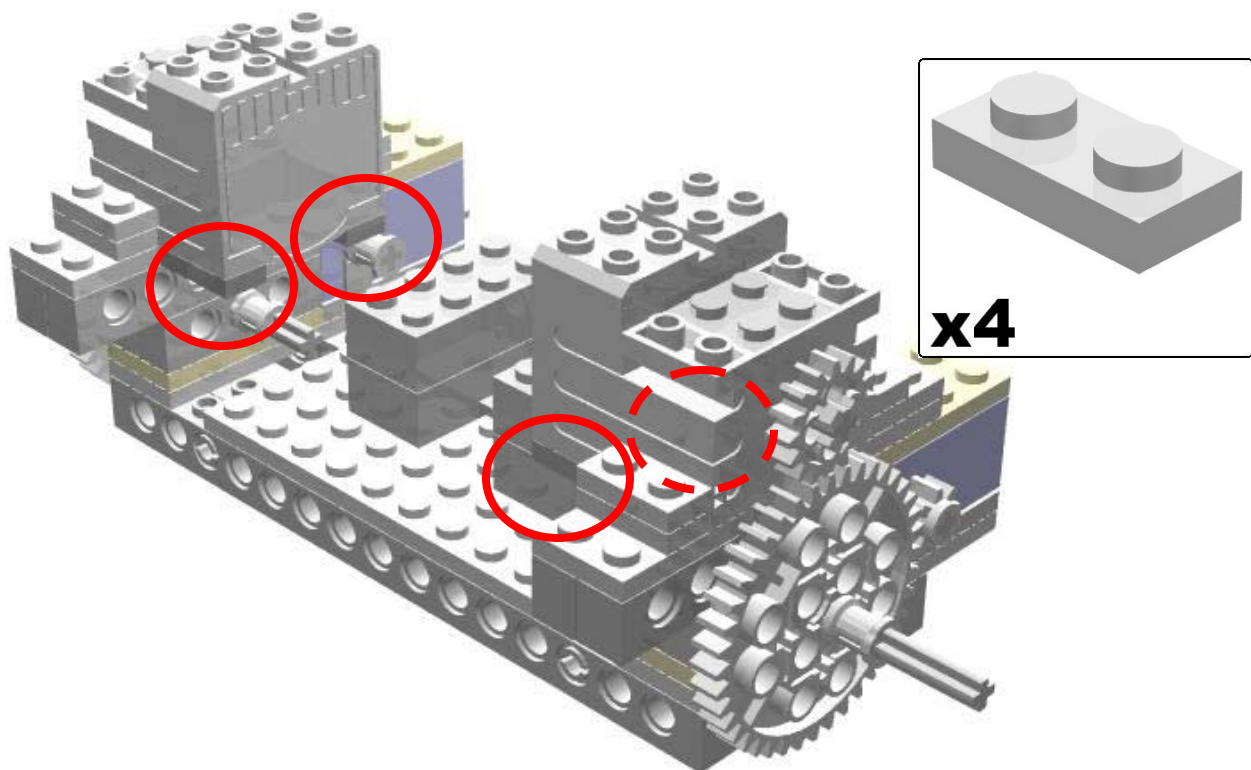
Step 12: (Rotate construction by 180°)



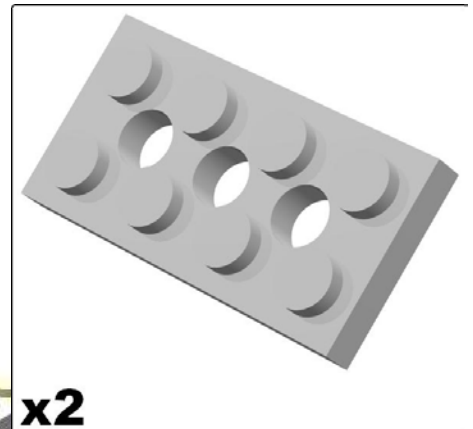
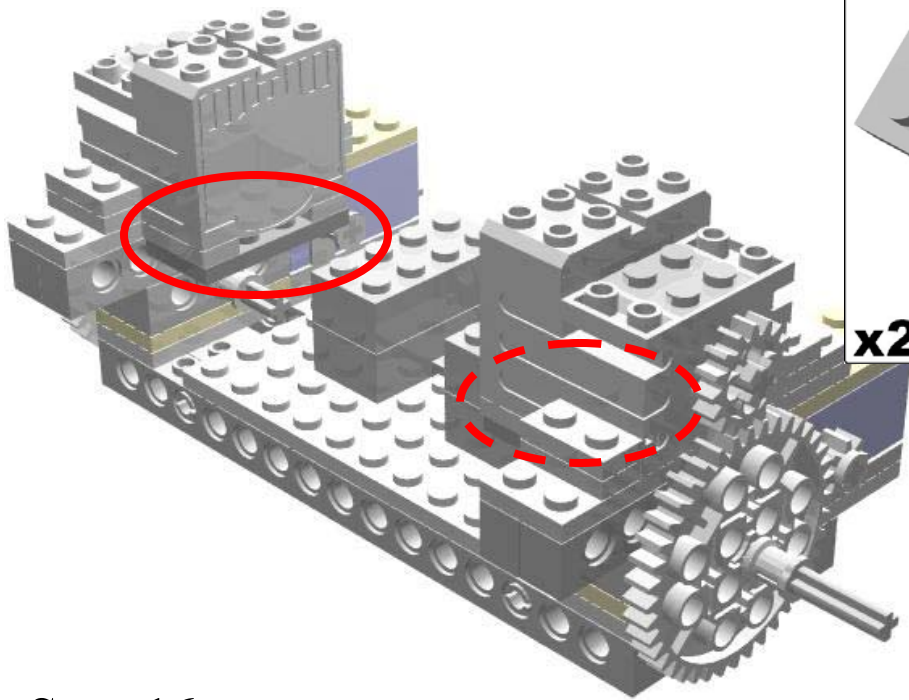
Step 13:



Step 14:

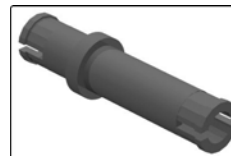
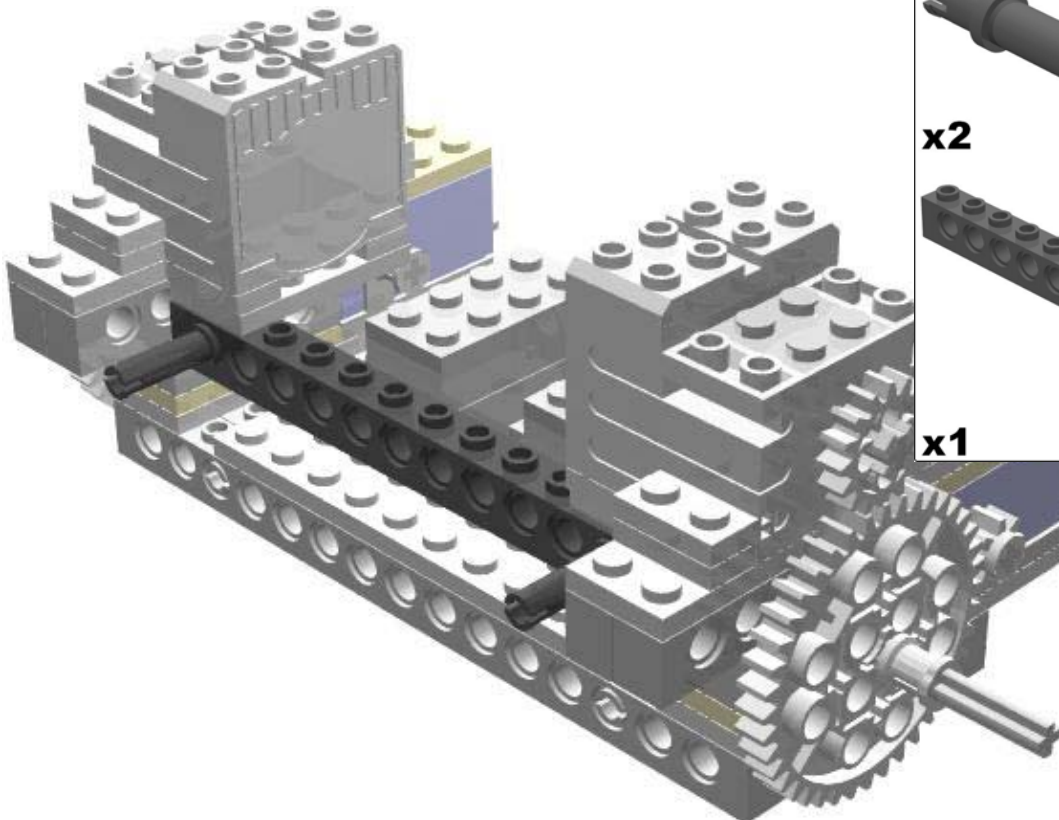


Step 15:

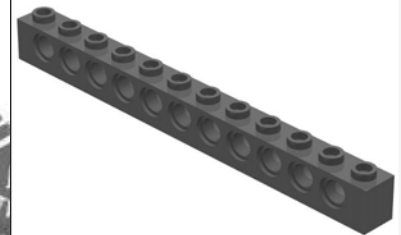


x2

Step 16:

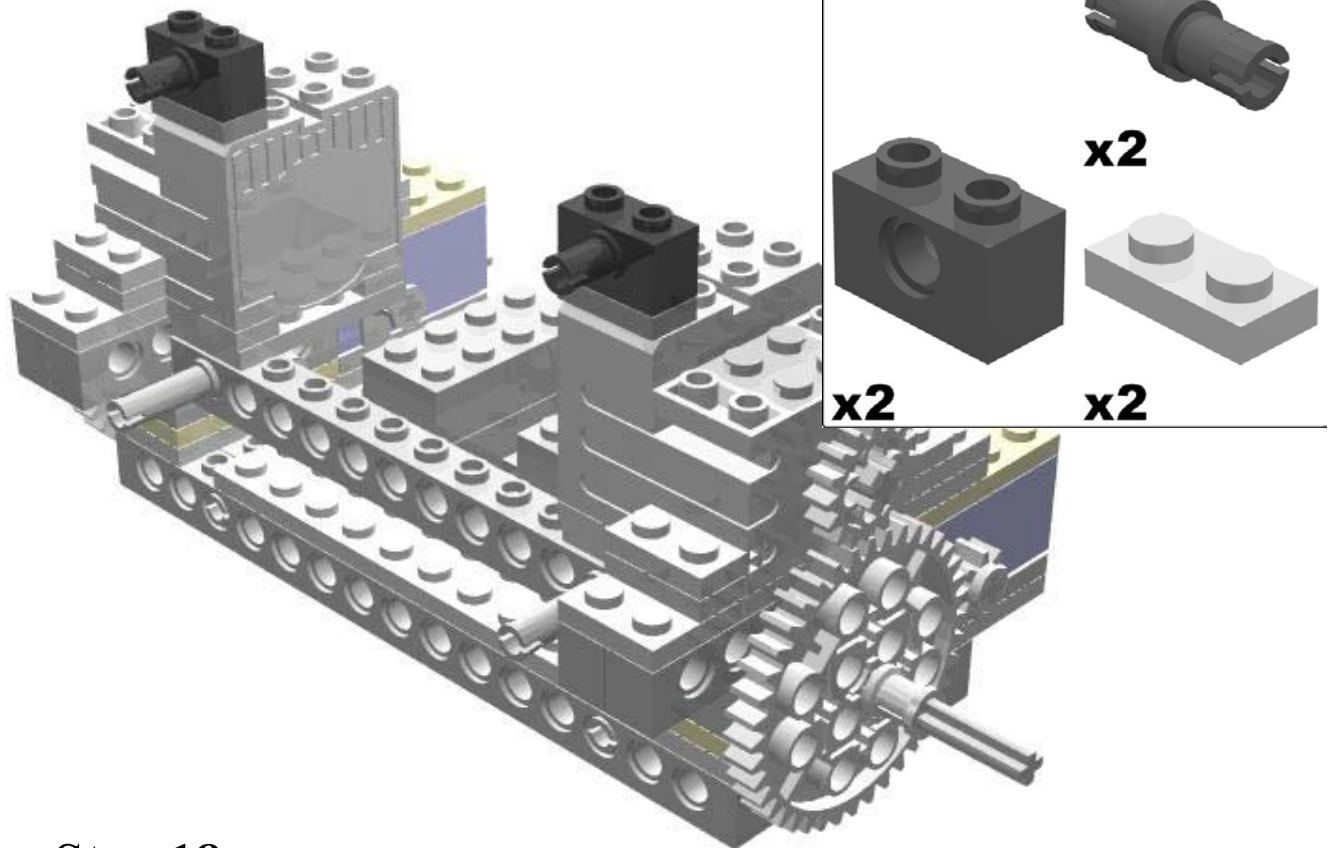


x2

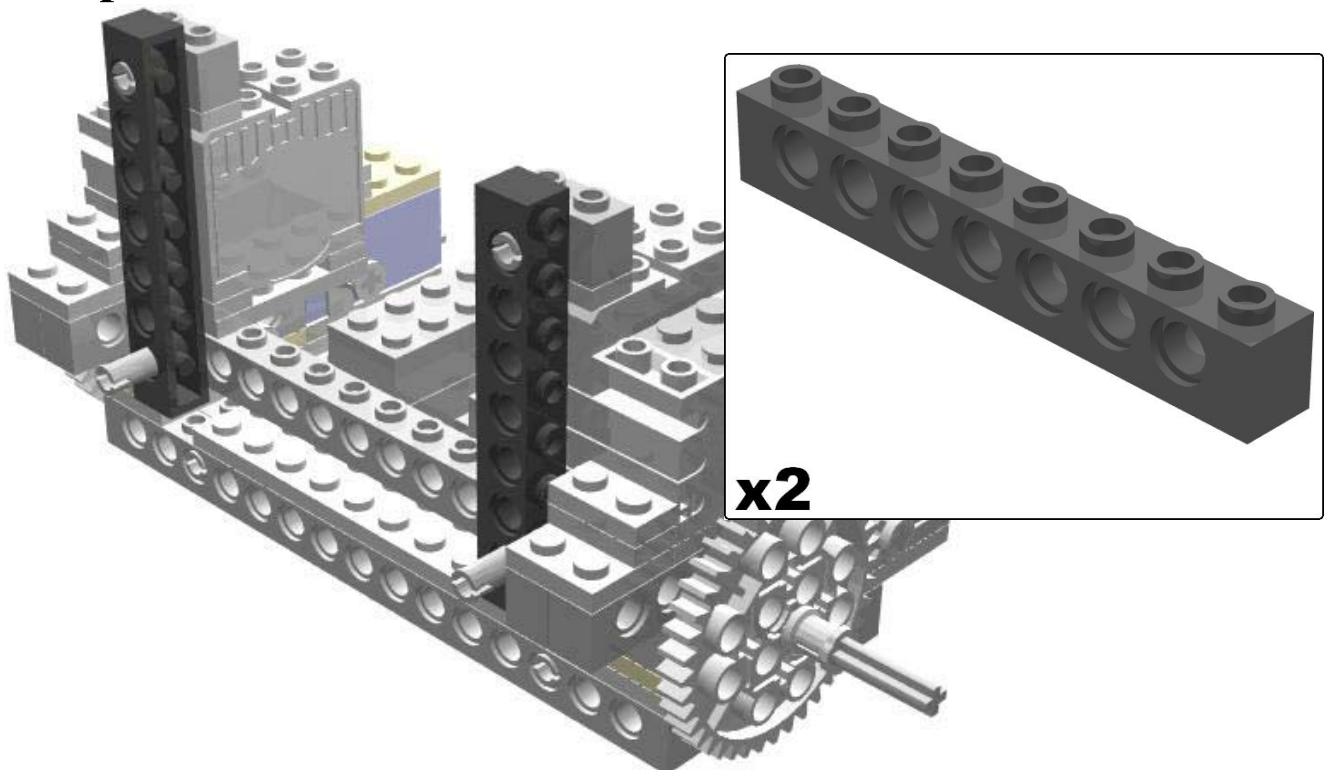


x1

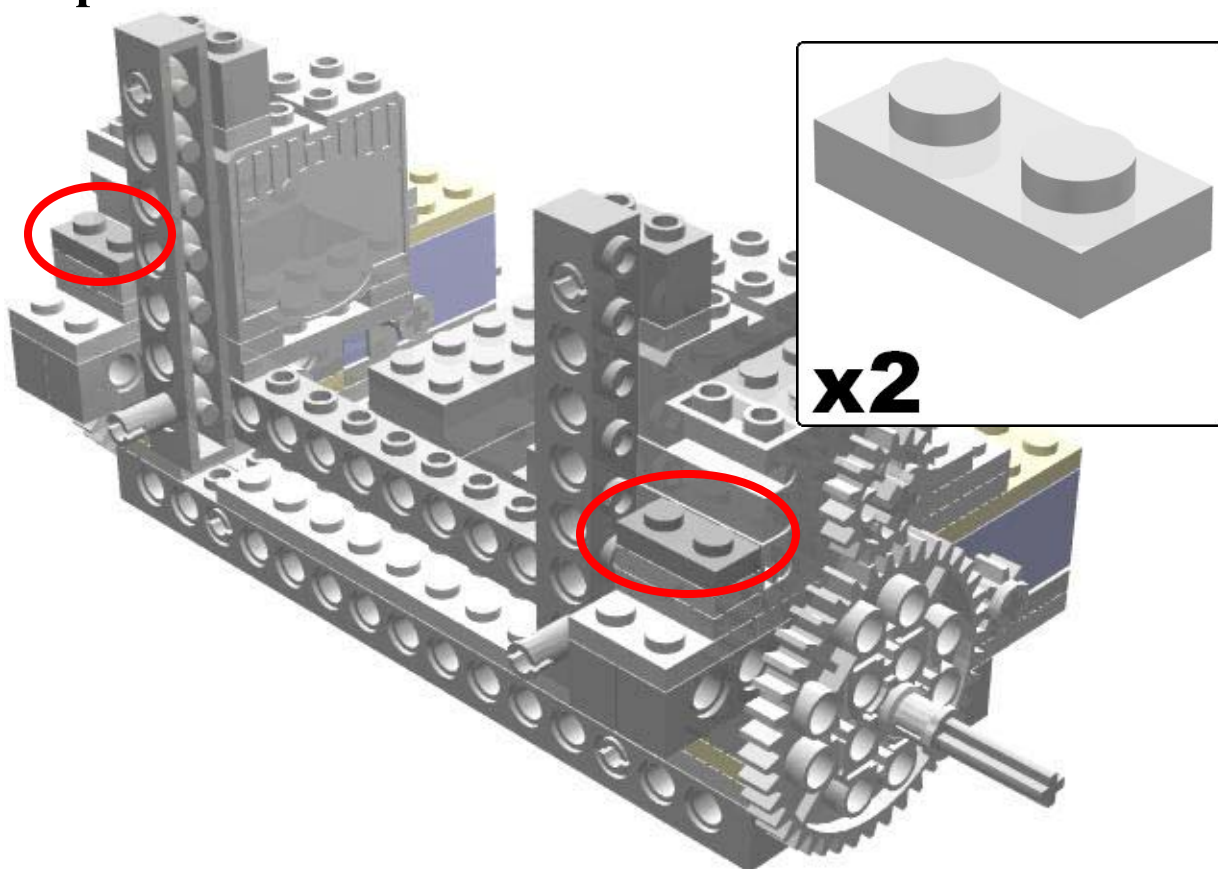
Step 17:



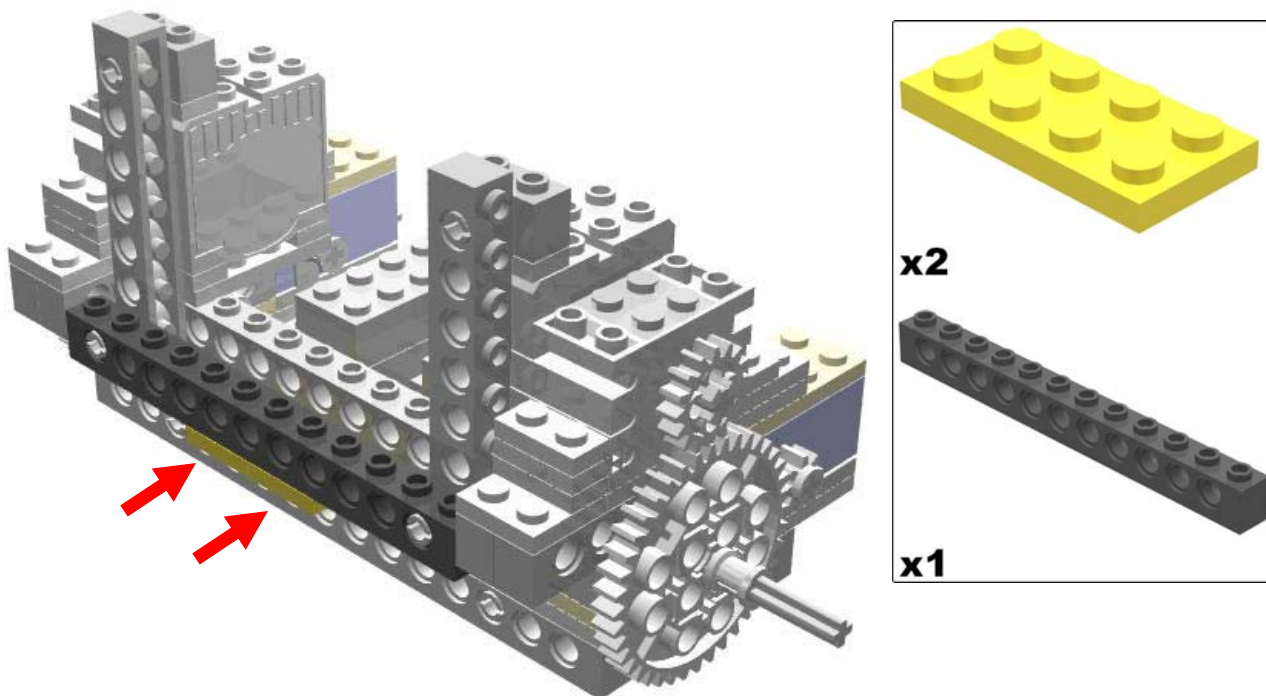
Step 18:



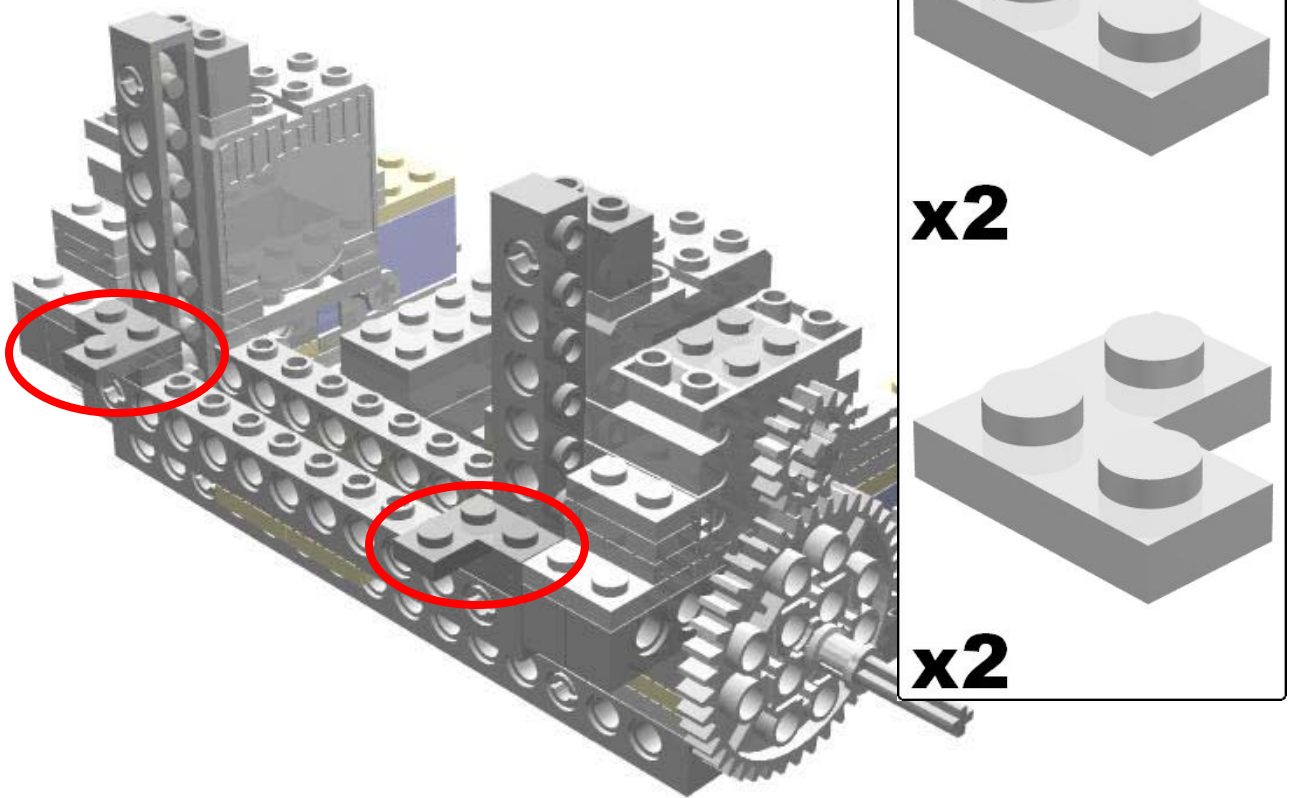
Step 19:



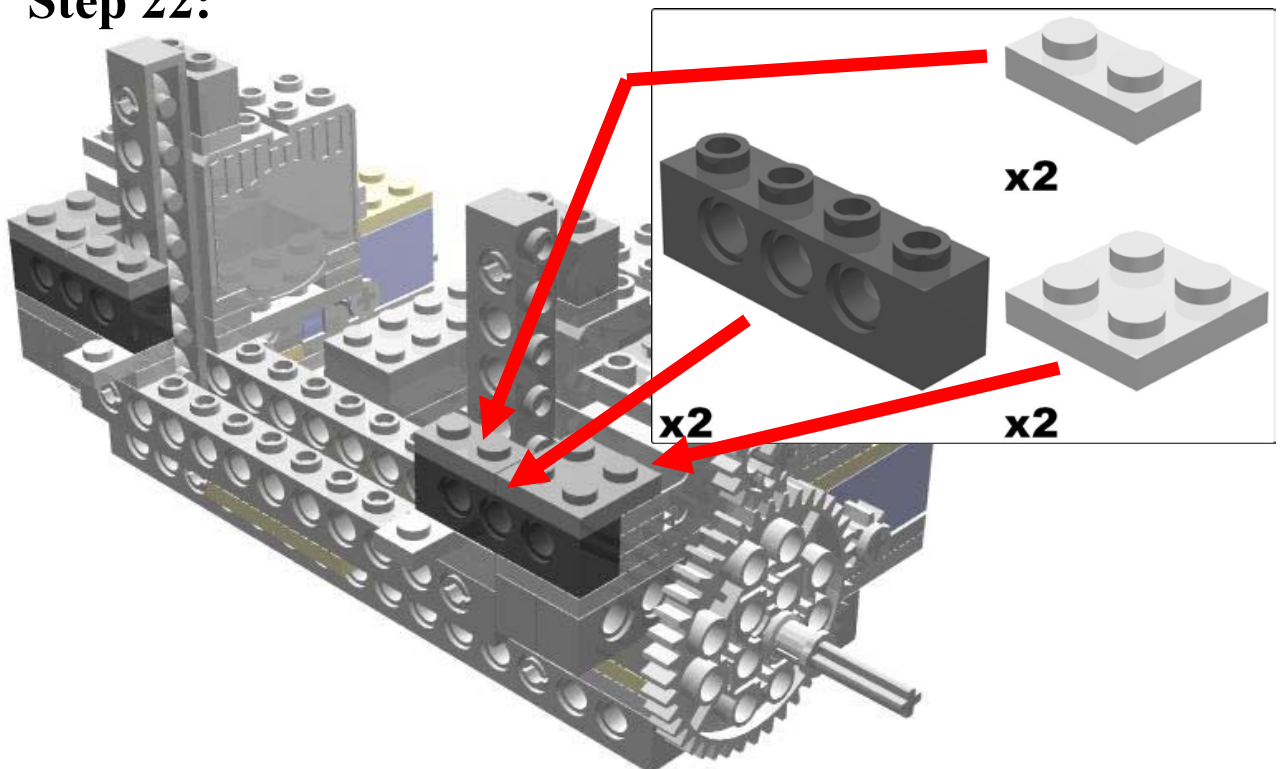
Step 20: (The 2x4 plates are underneath and oriented perpendicular to the beam)



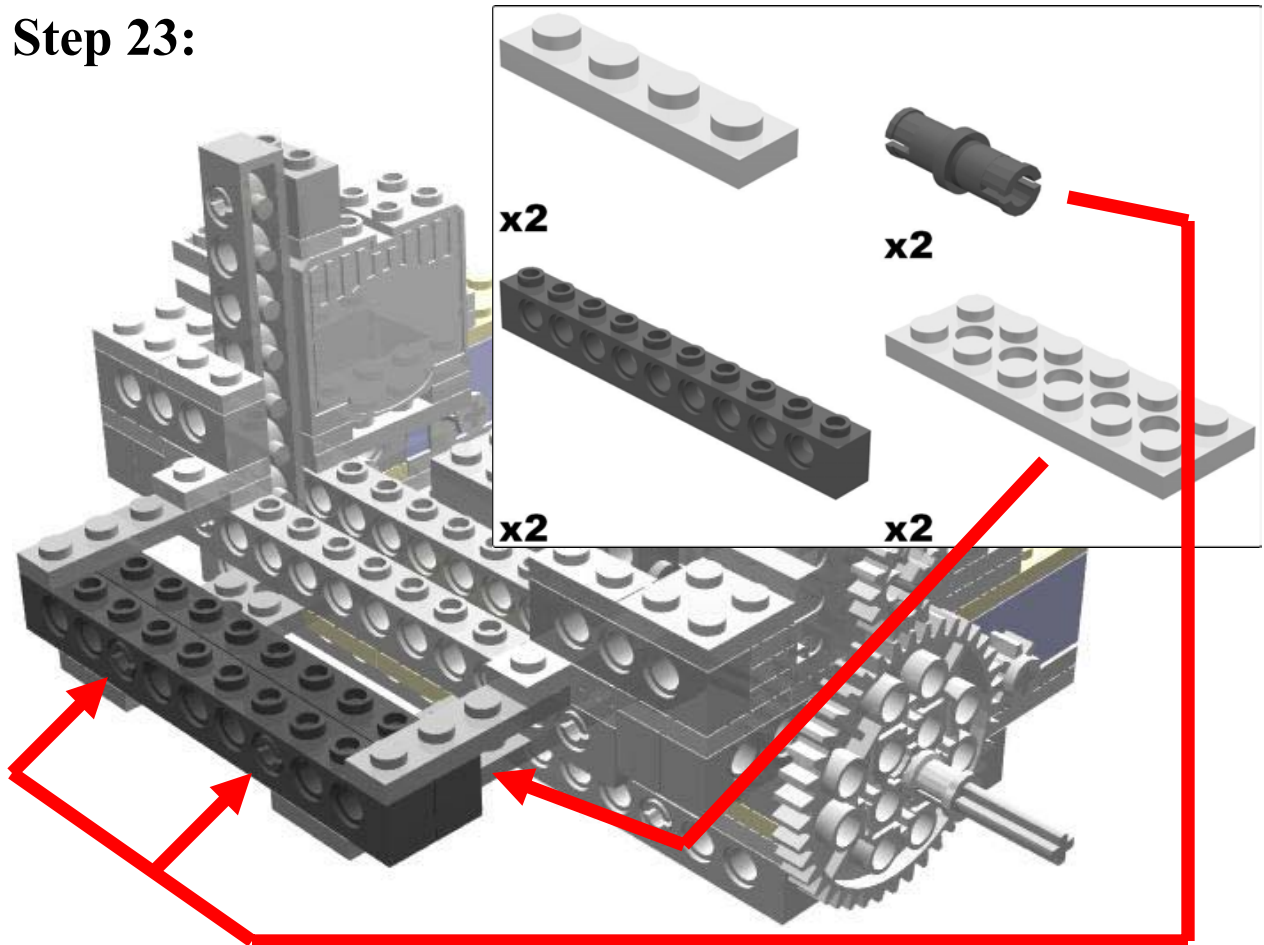
Step 21:



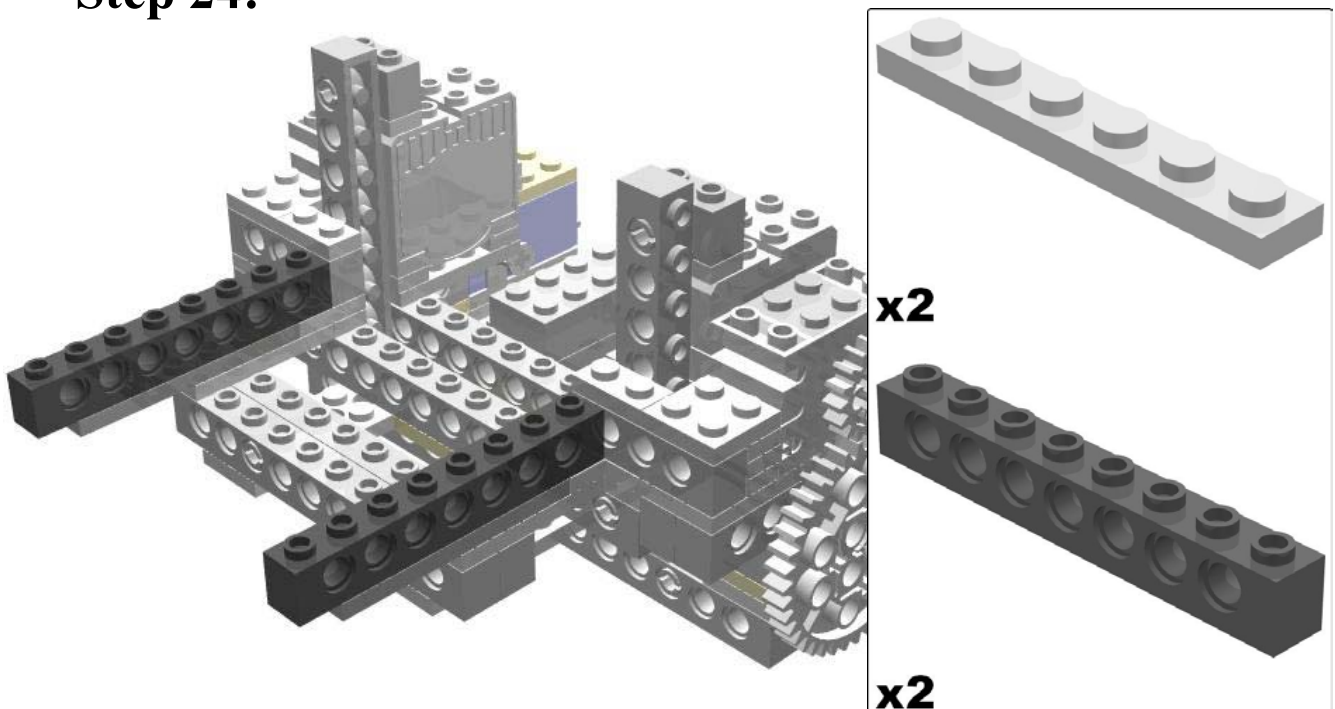
Step 22:



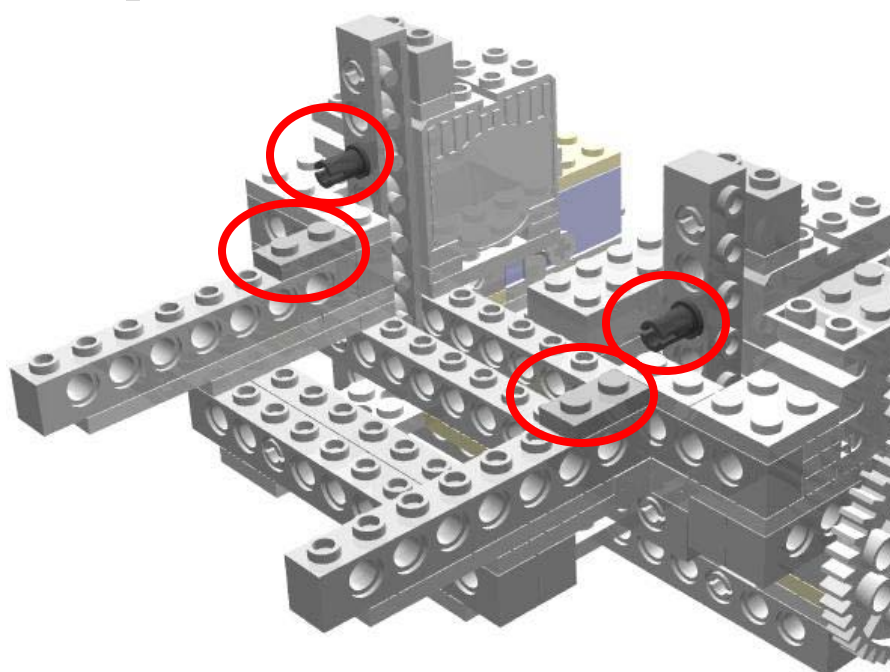
Step 23:



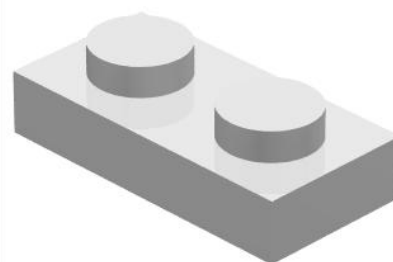
Step 24:



Step 25:

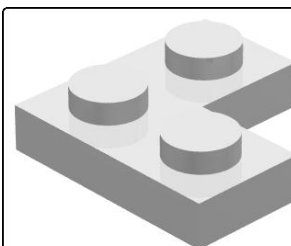
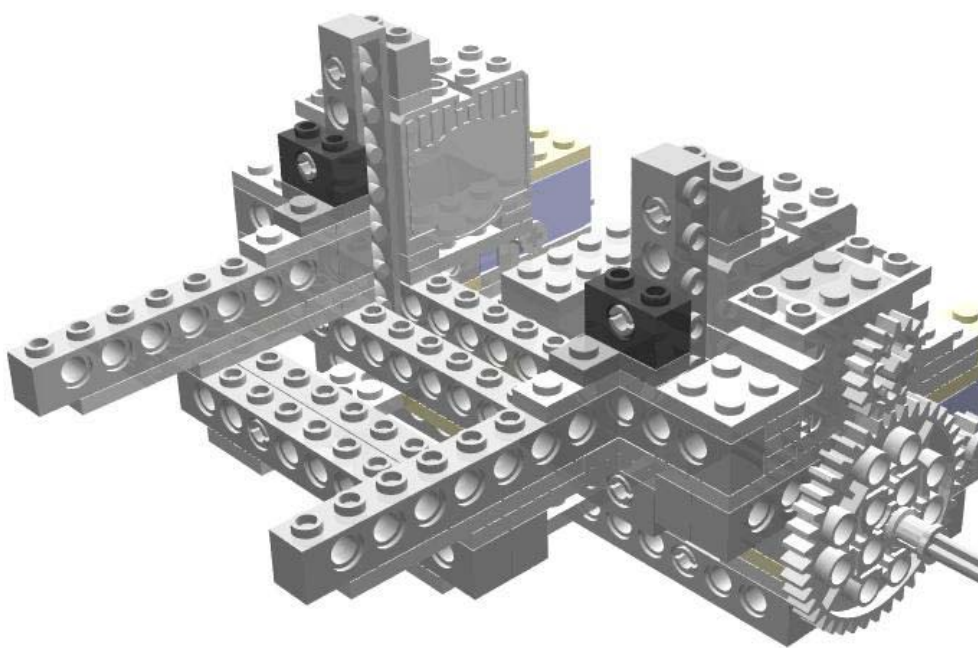


x2

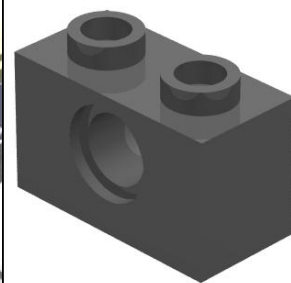


x2

Step 26: (These pieces need to be wedged in. This is typically difficult to accomplish and requires some flexing of pieces)

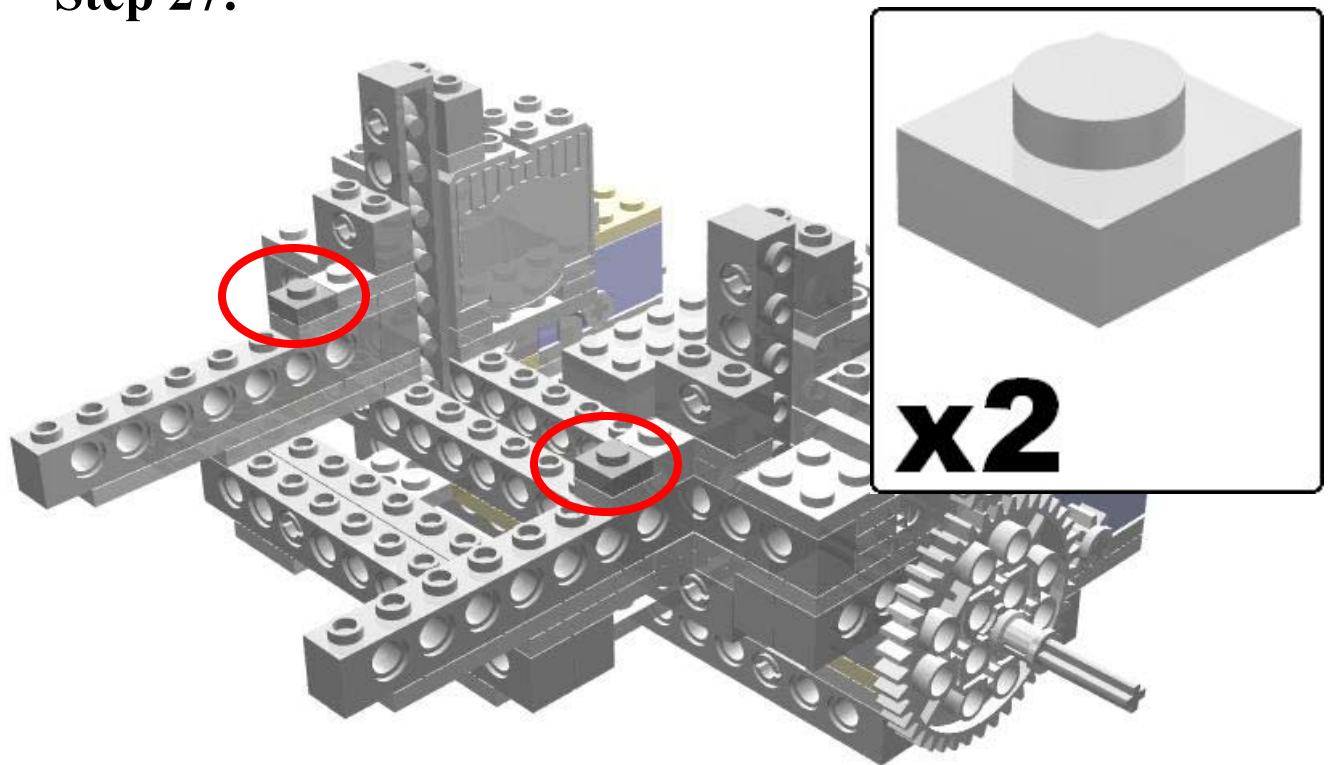


x2

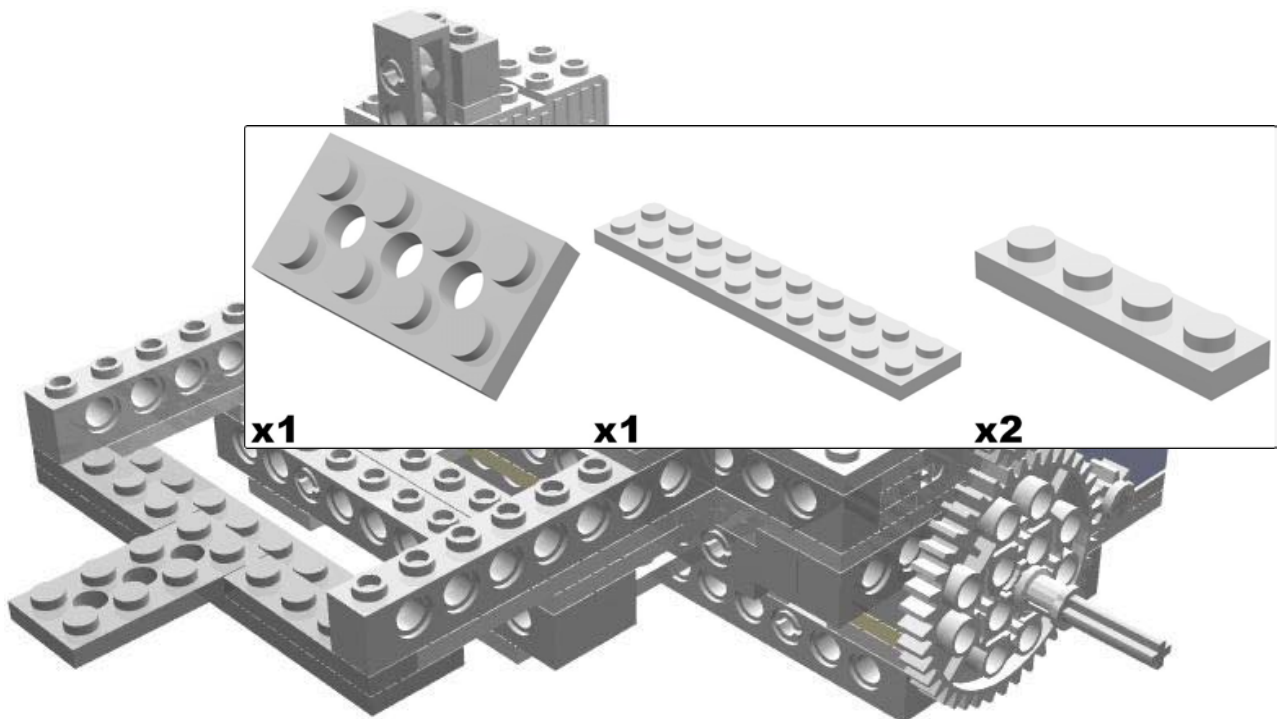


x2

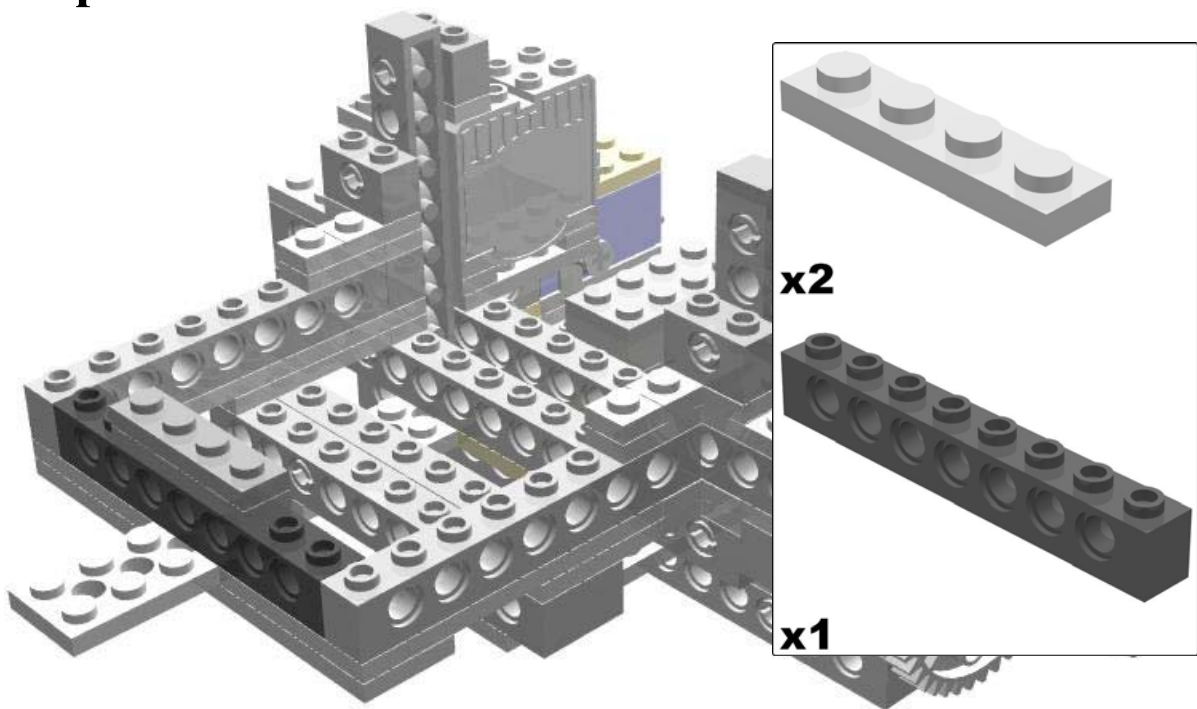
Step 27:



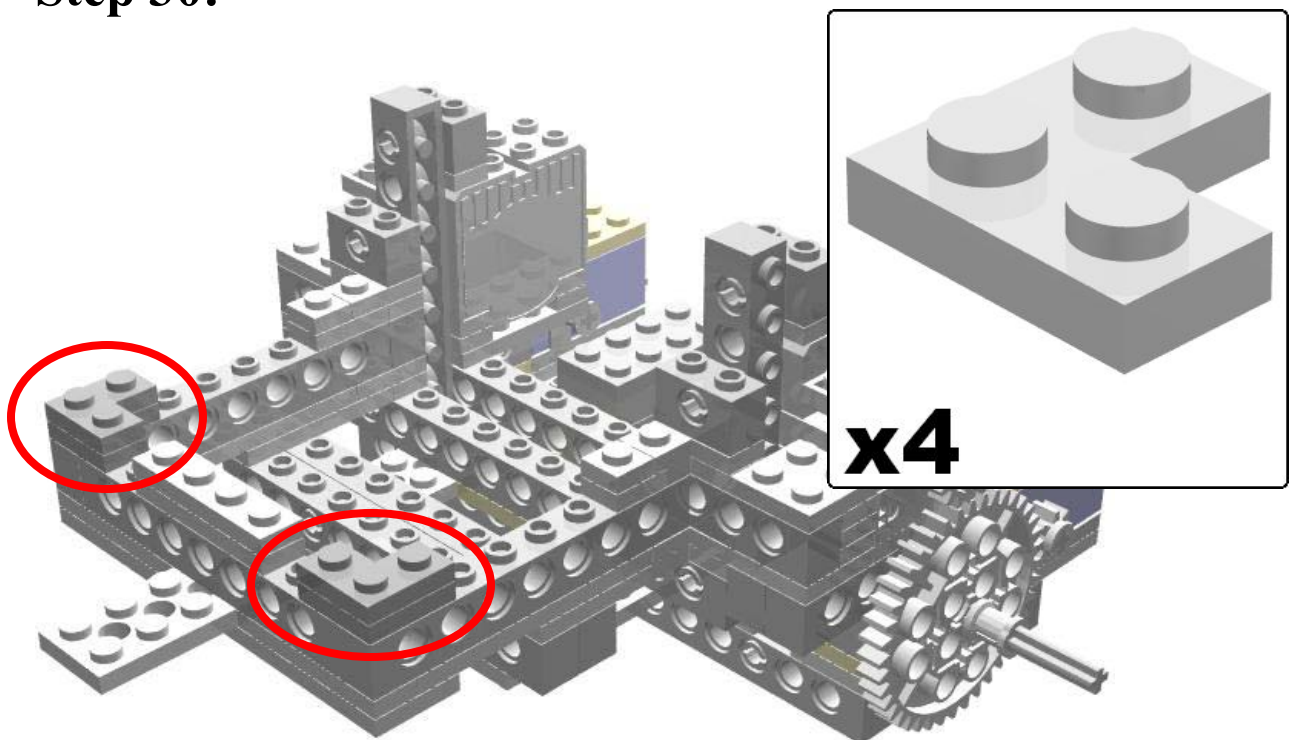
Step 28:



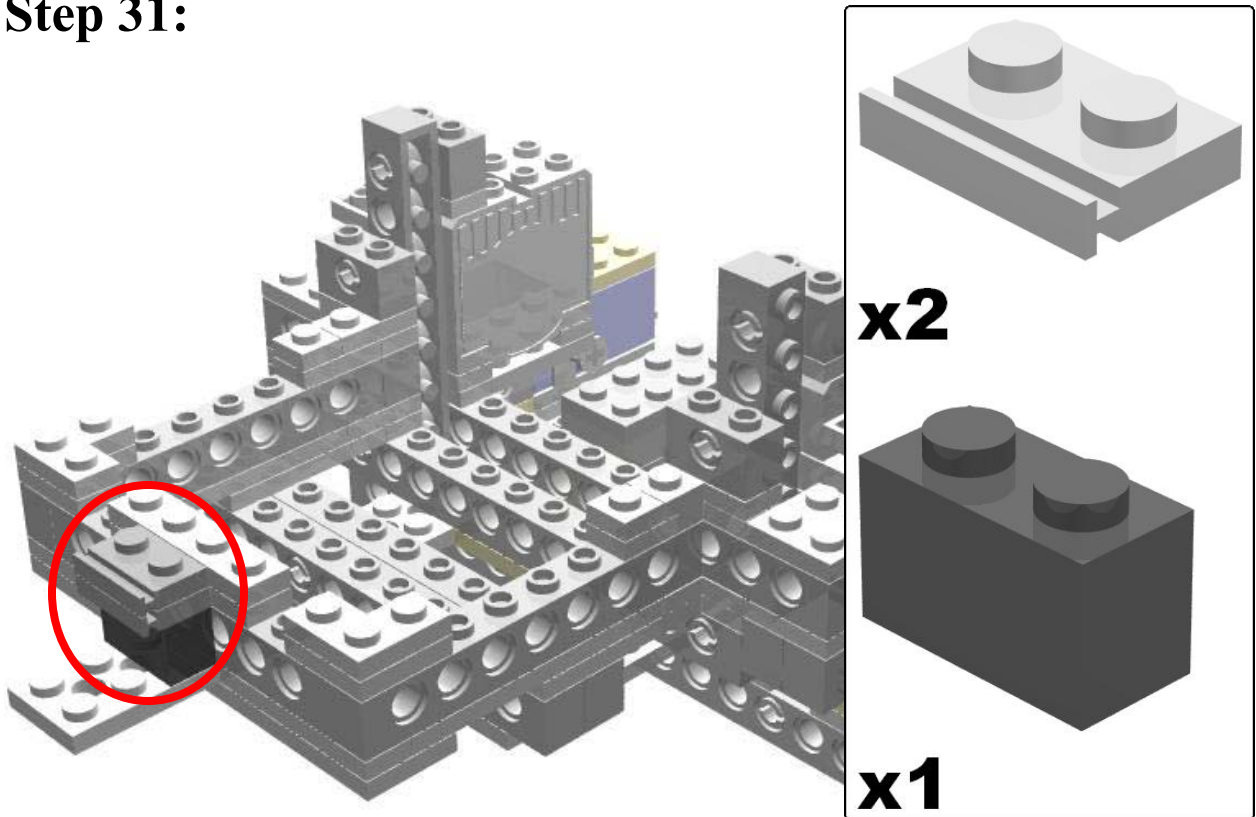
Step 29:



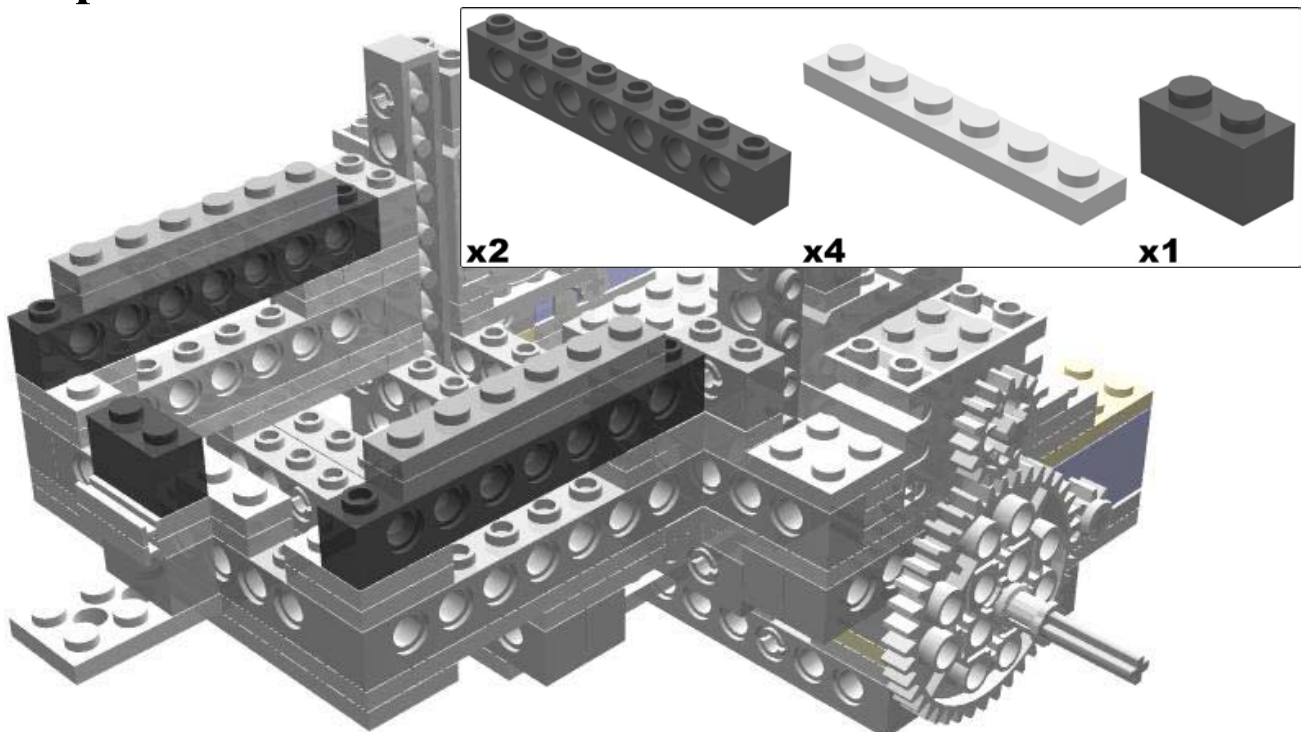
Step 30:



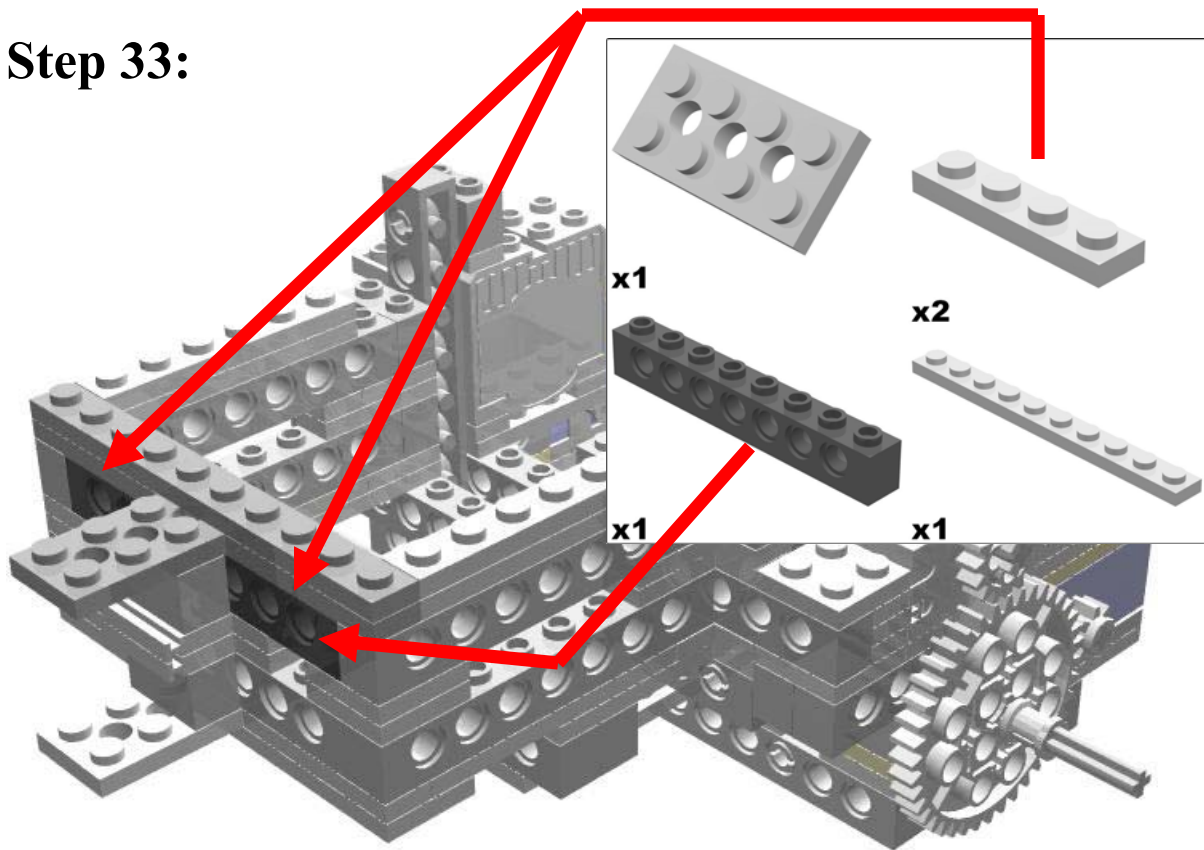
Step 31:



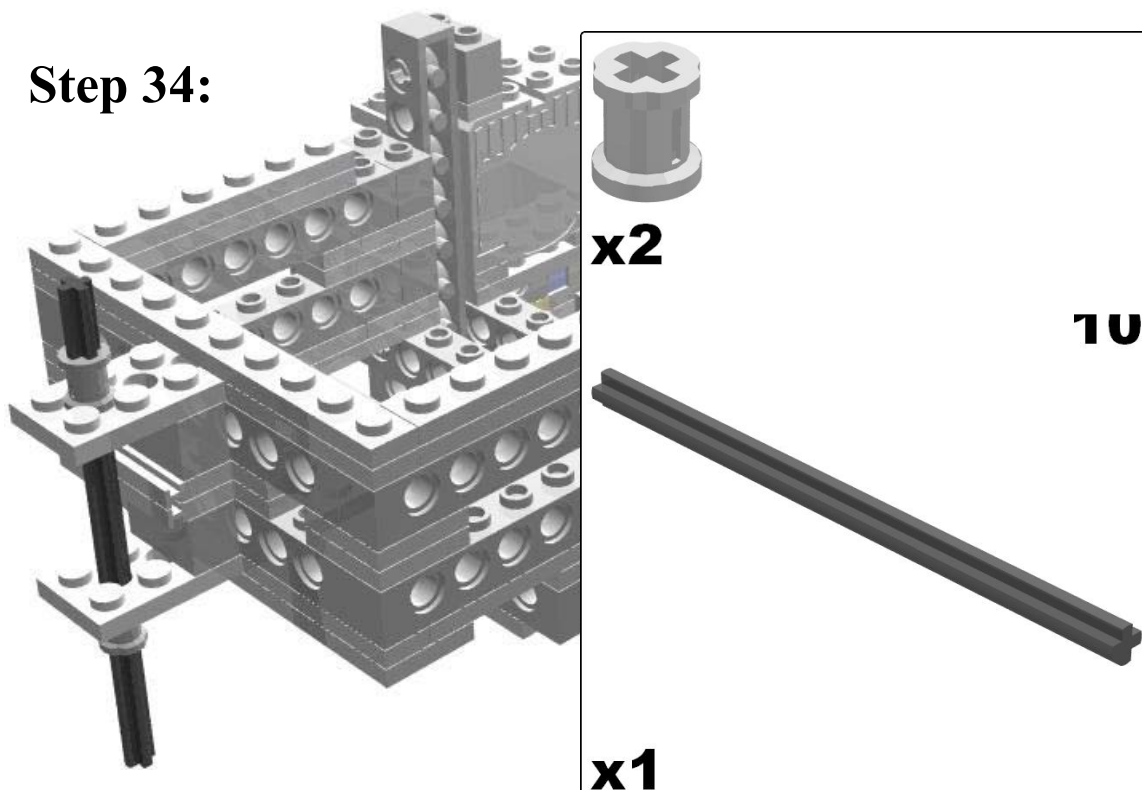
Step 32:



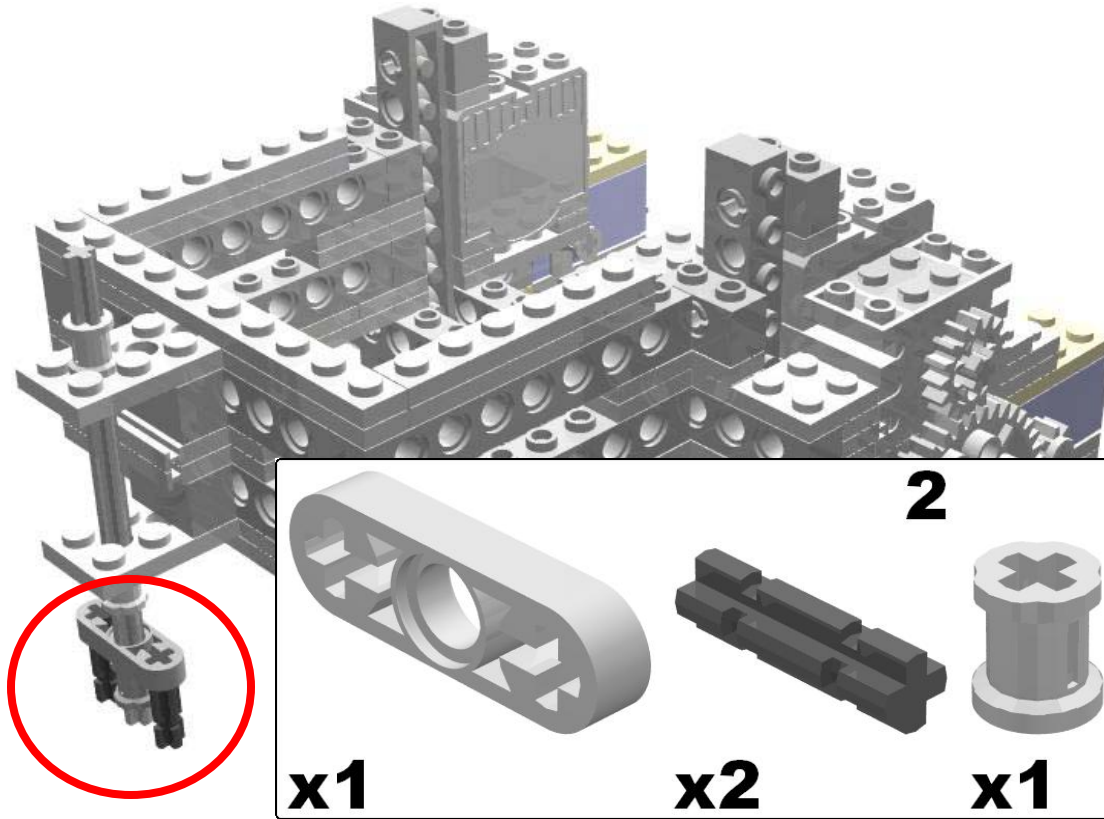
Step 33:



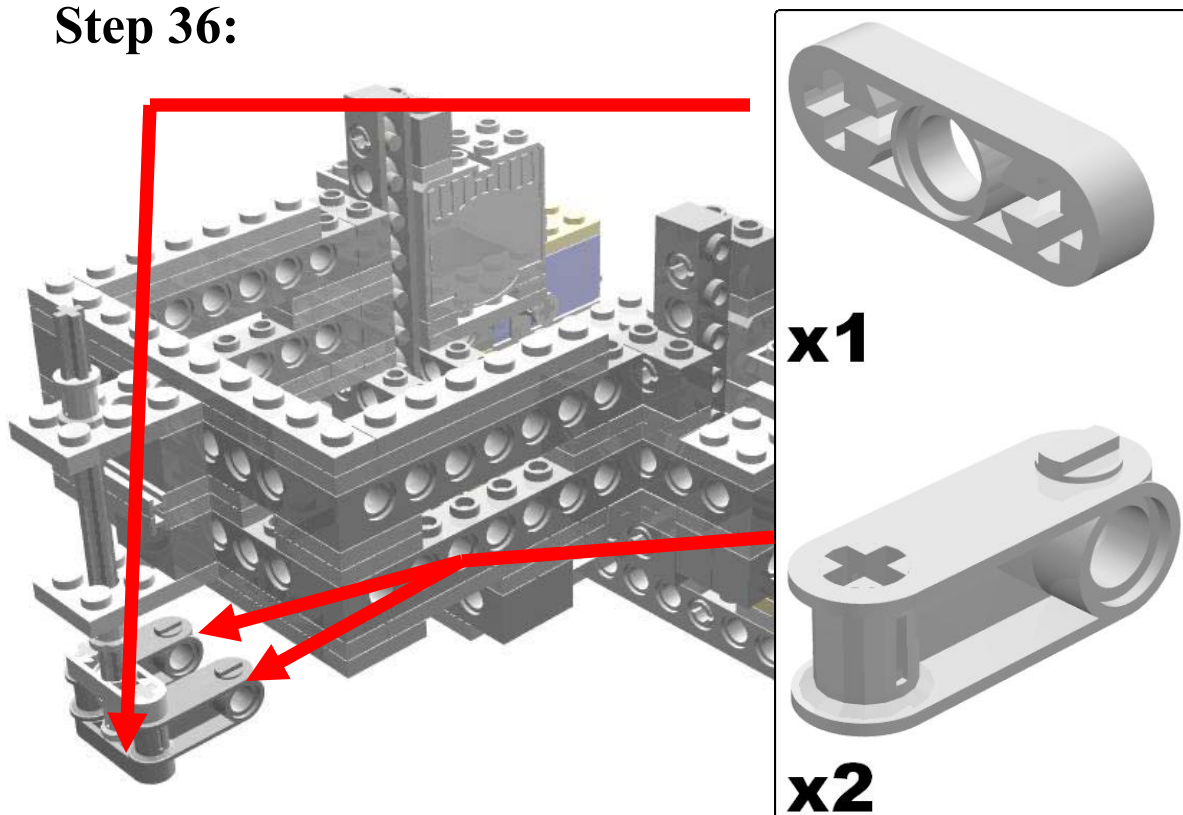
Step 34:



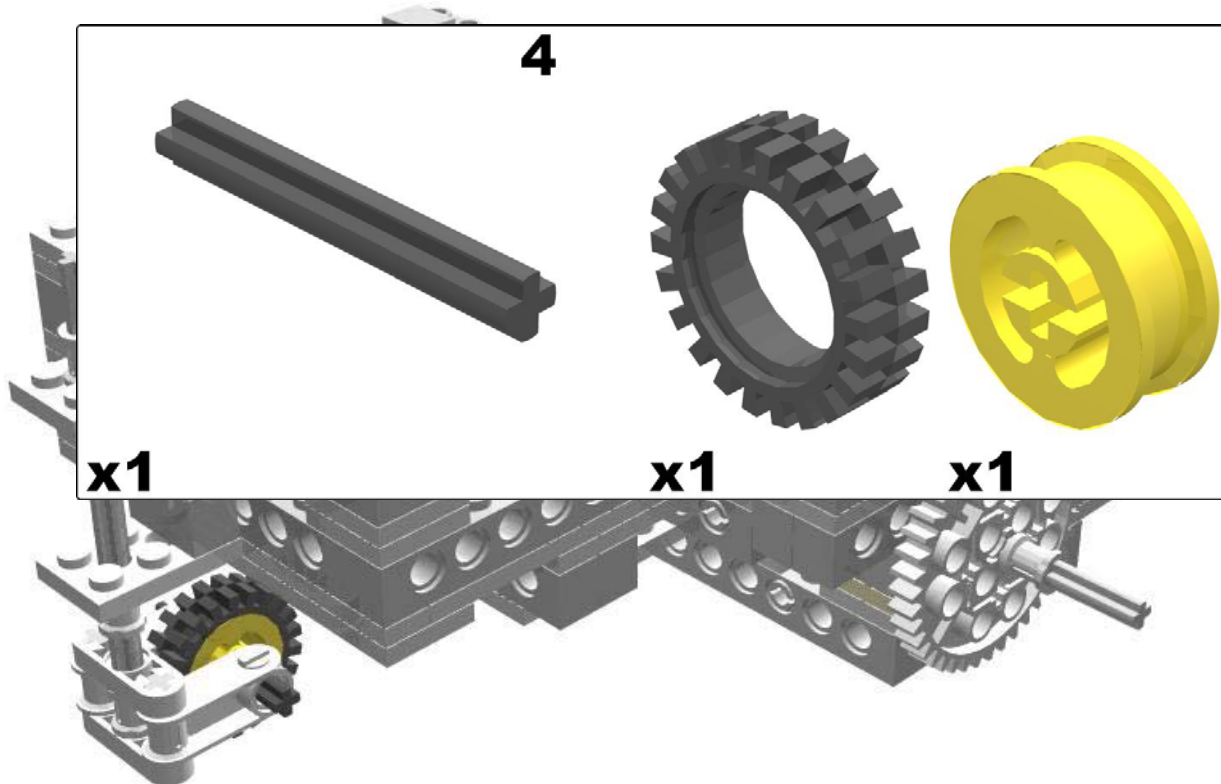
Step 35:



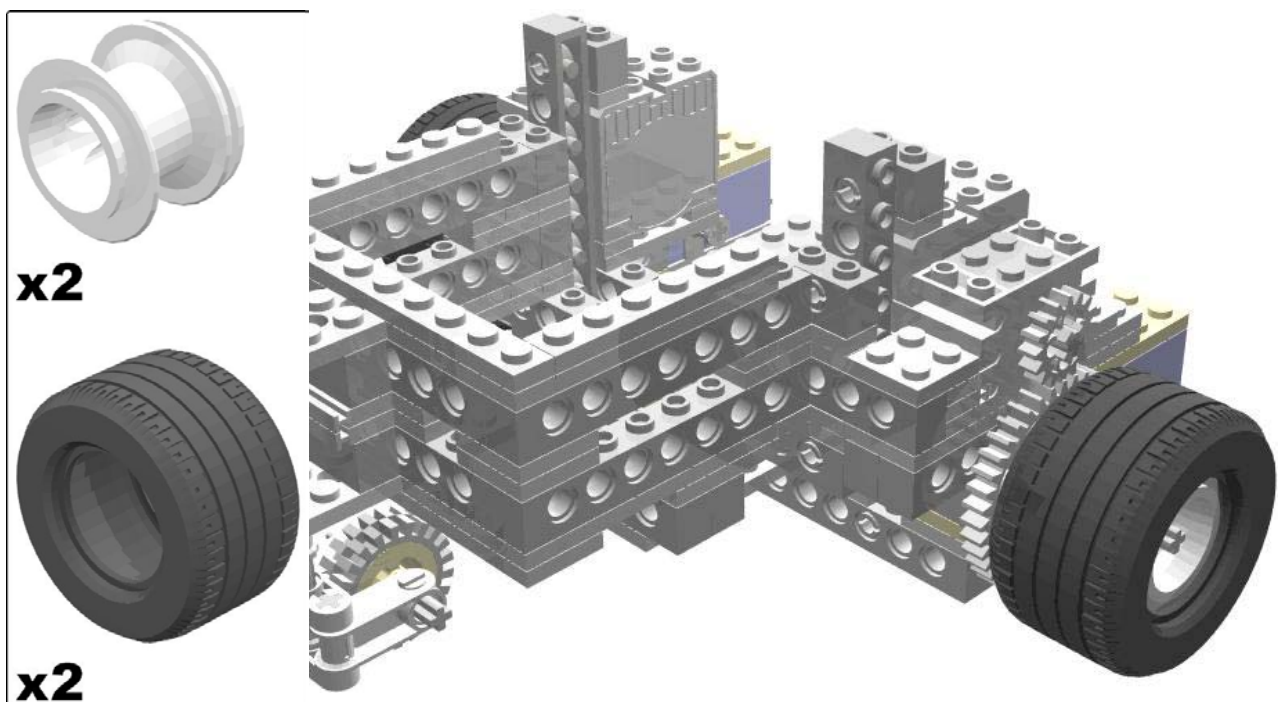
Step 36:



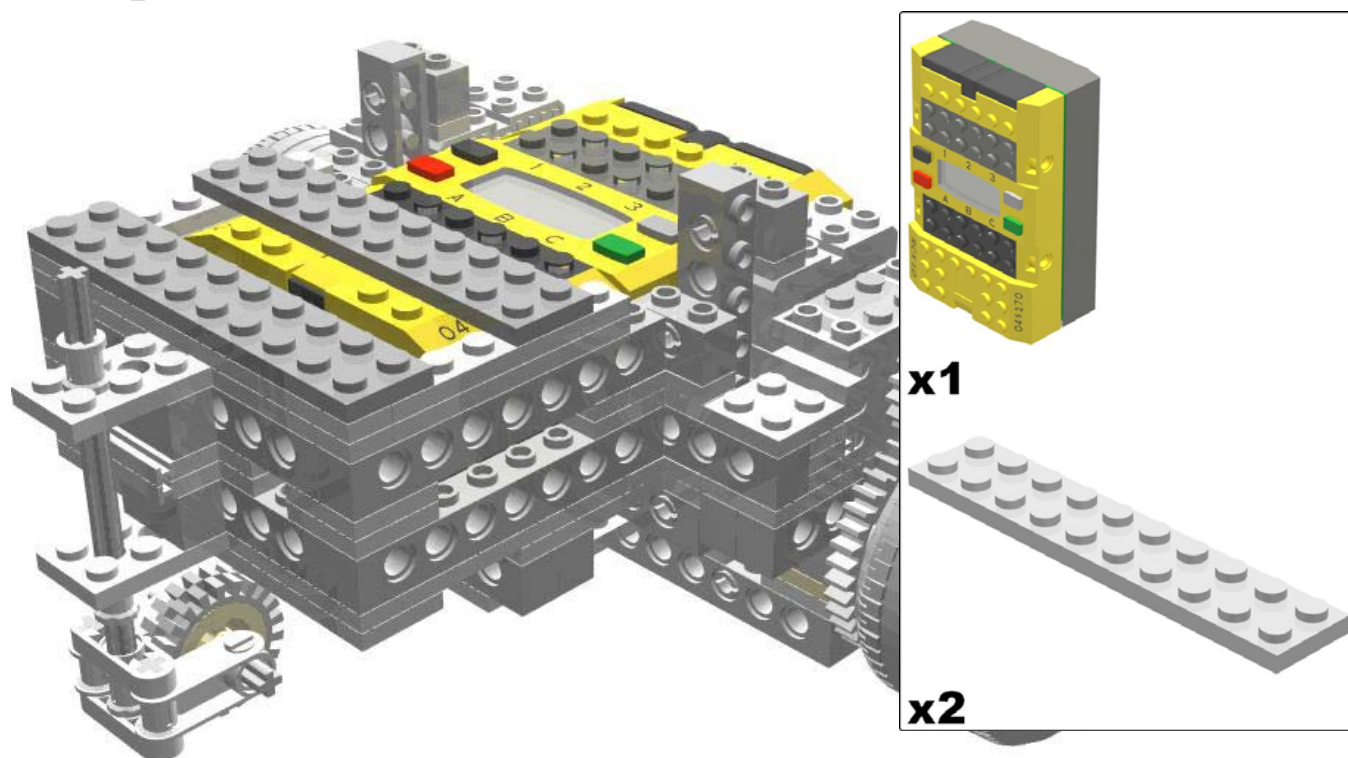
Step 37:



Step 38:



Step 39:



Step 40: (Rotate construction by 180°) Connect the sensors and motors.

