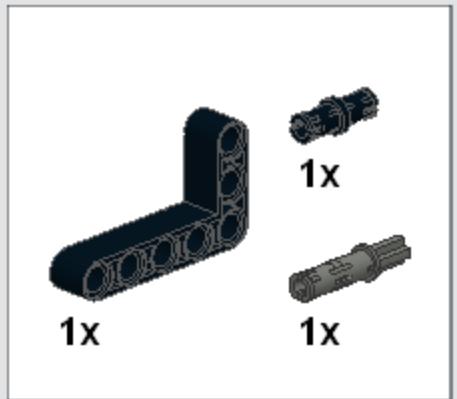


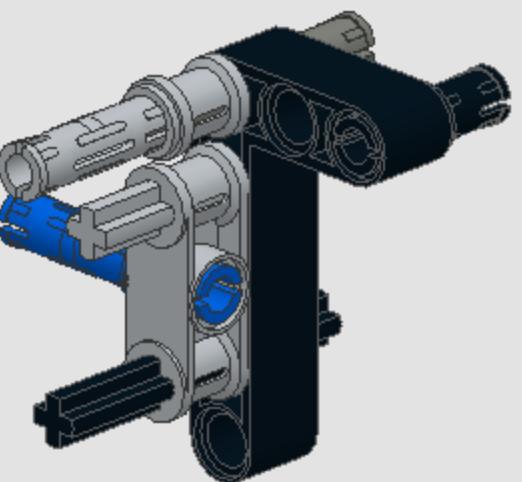
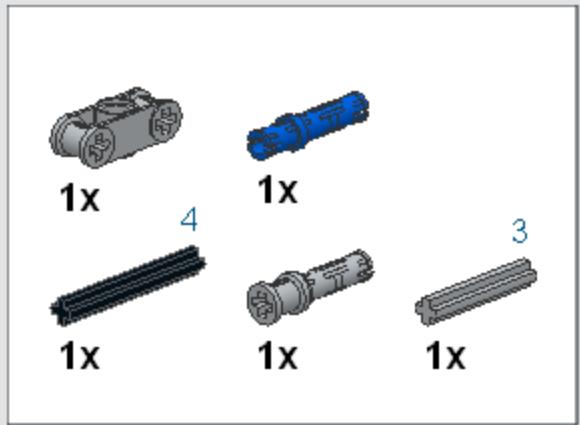


Compact convertible

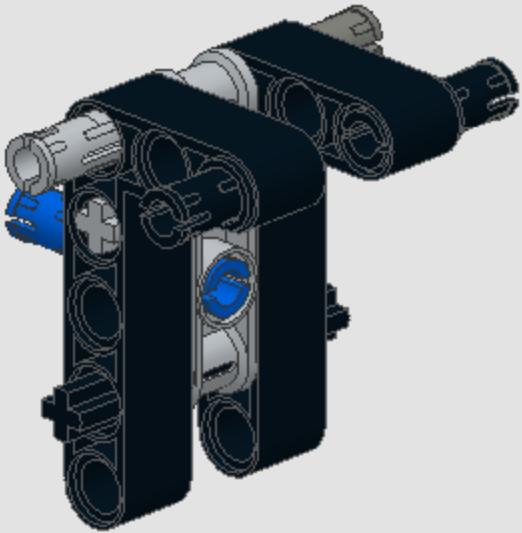
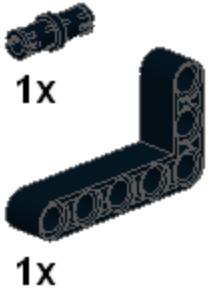
Created by Jaap Joris Vens
Free to copy and share



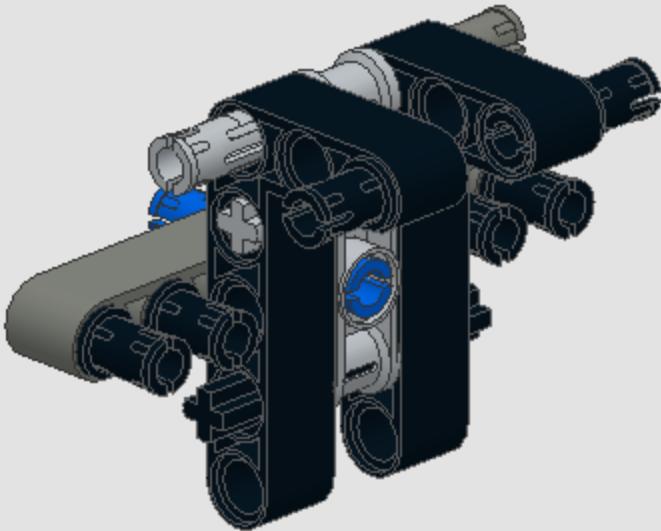
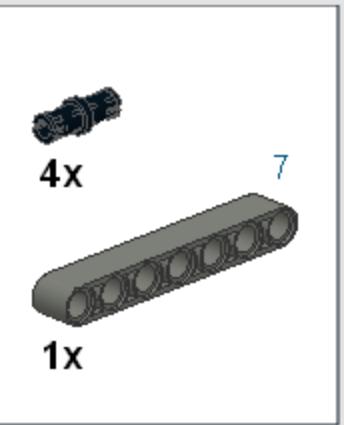
Hey there! Welcome to the first step of building the Compact Convertible. Generally, these steps will speak for themselves. Sometimes I'll place a comment like this one if some extra explanation is needed. Have fun!



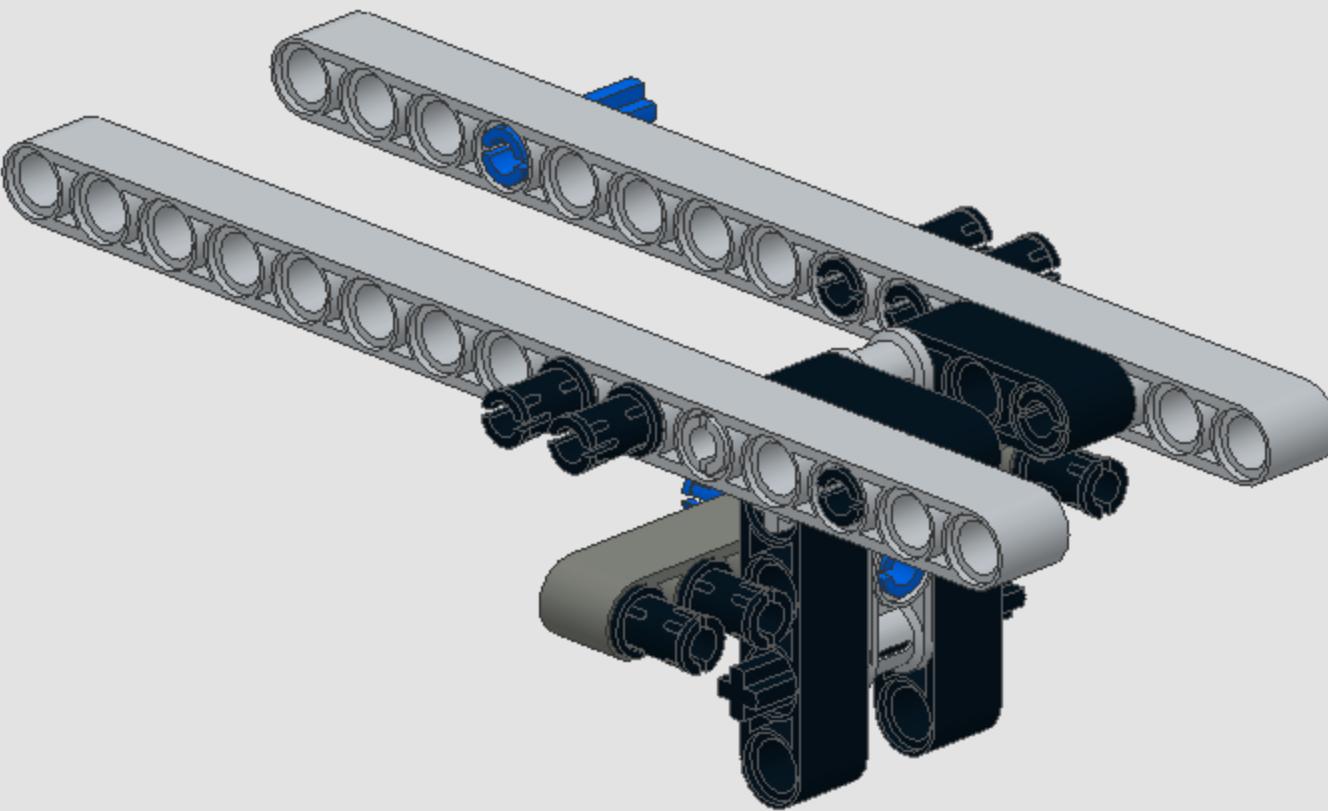
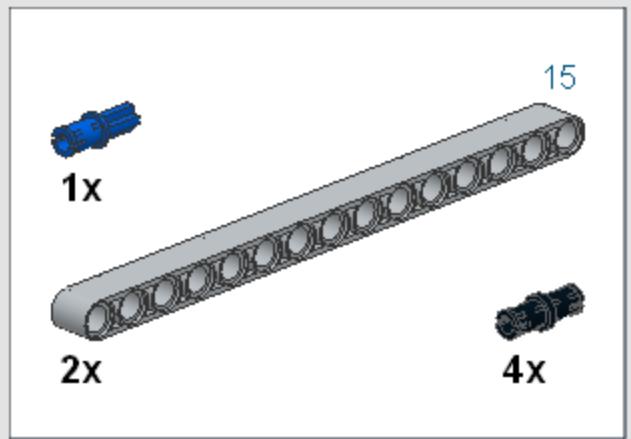
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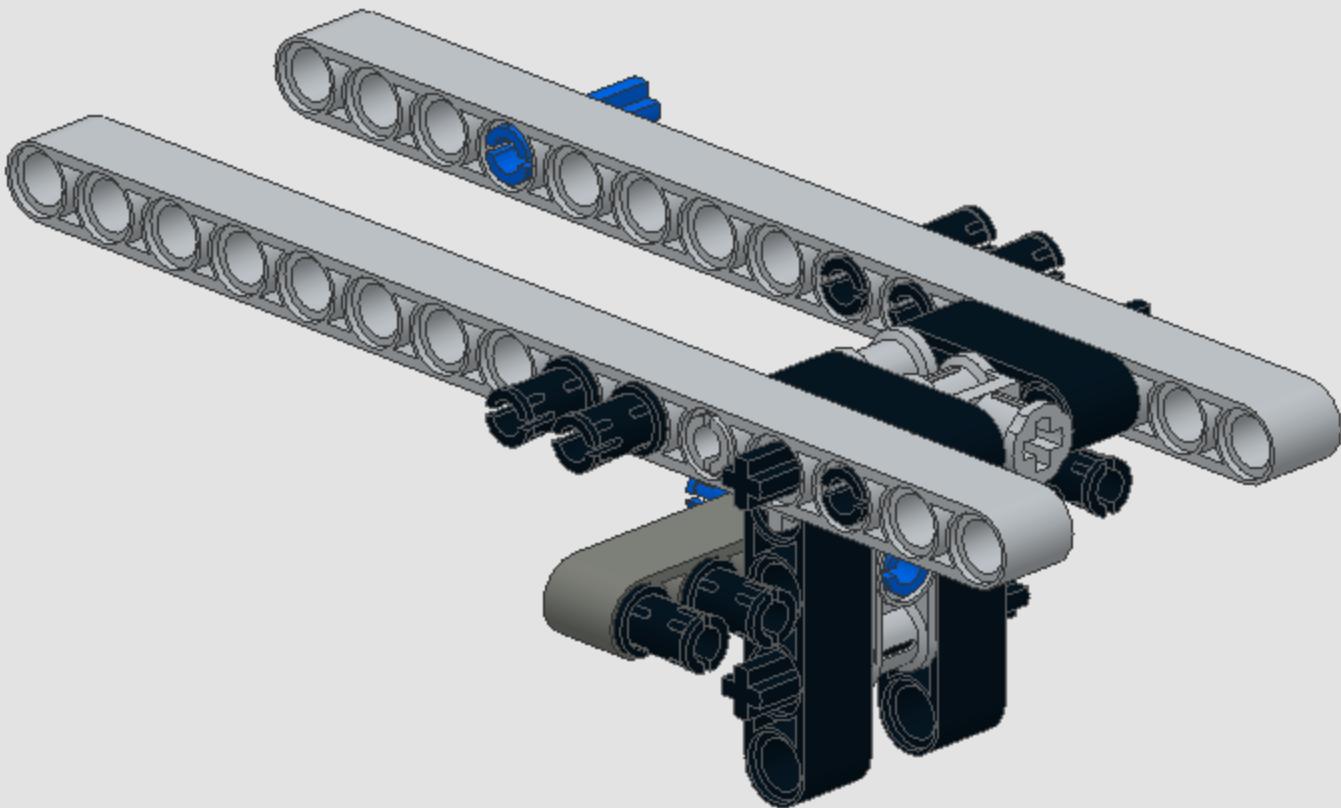
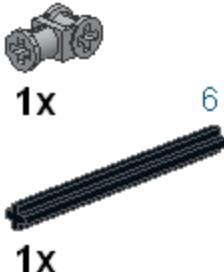
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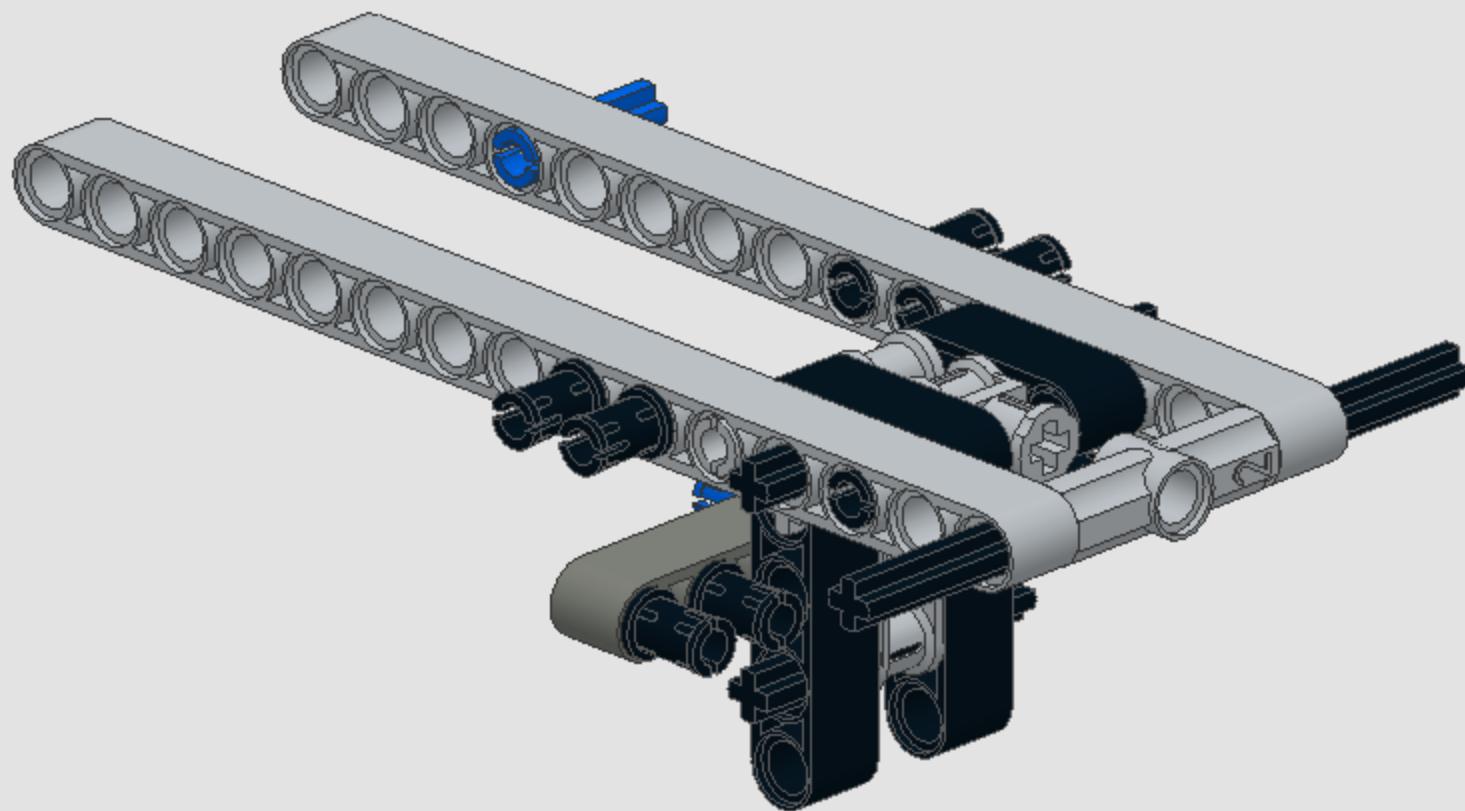
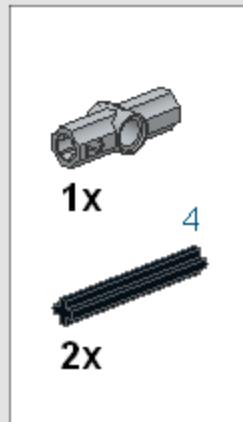
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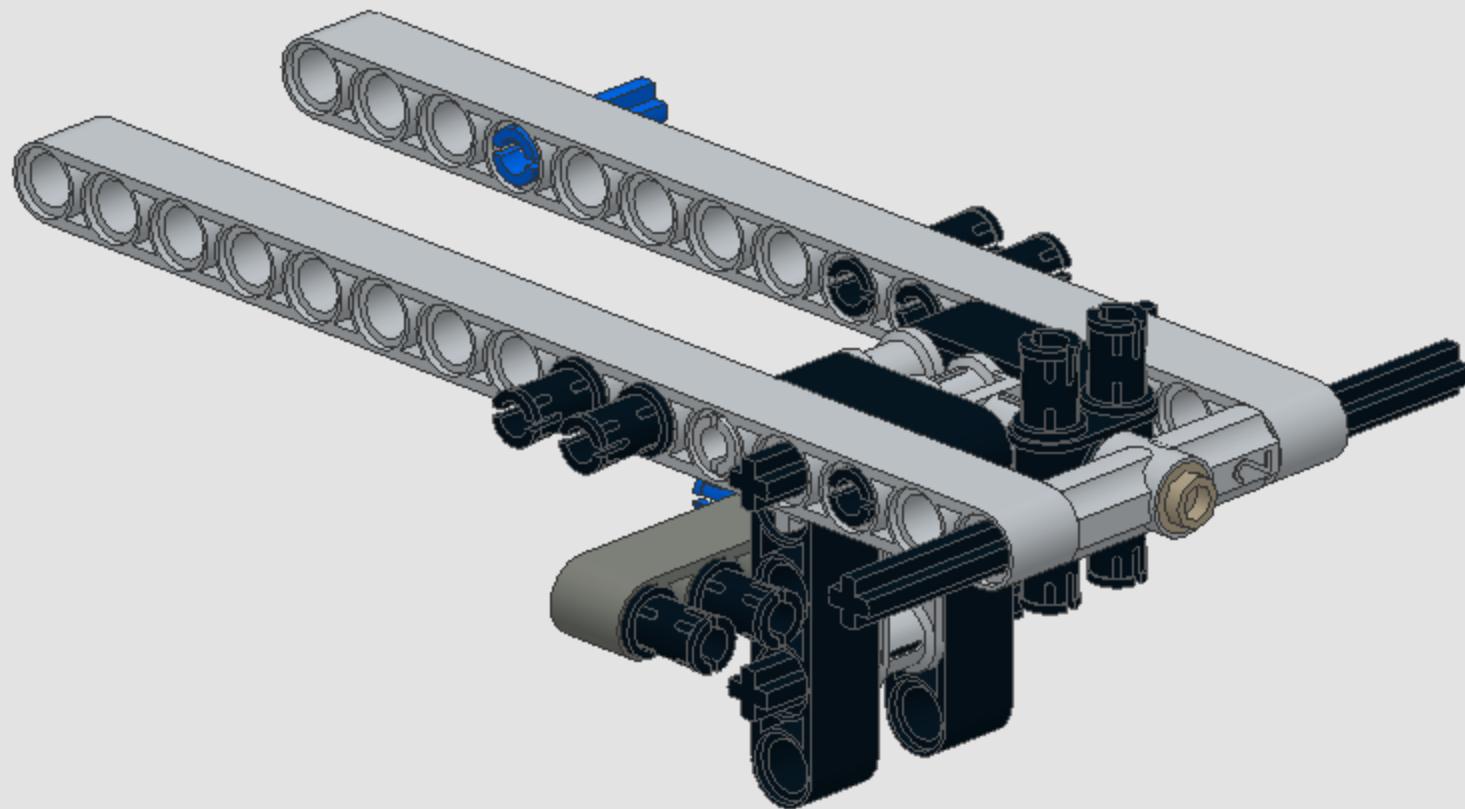
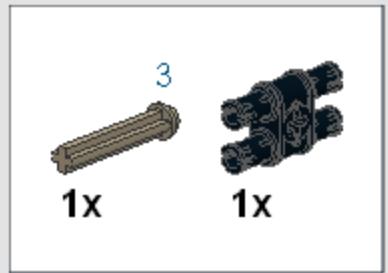


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6



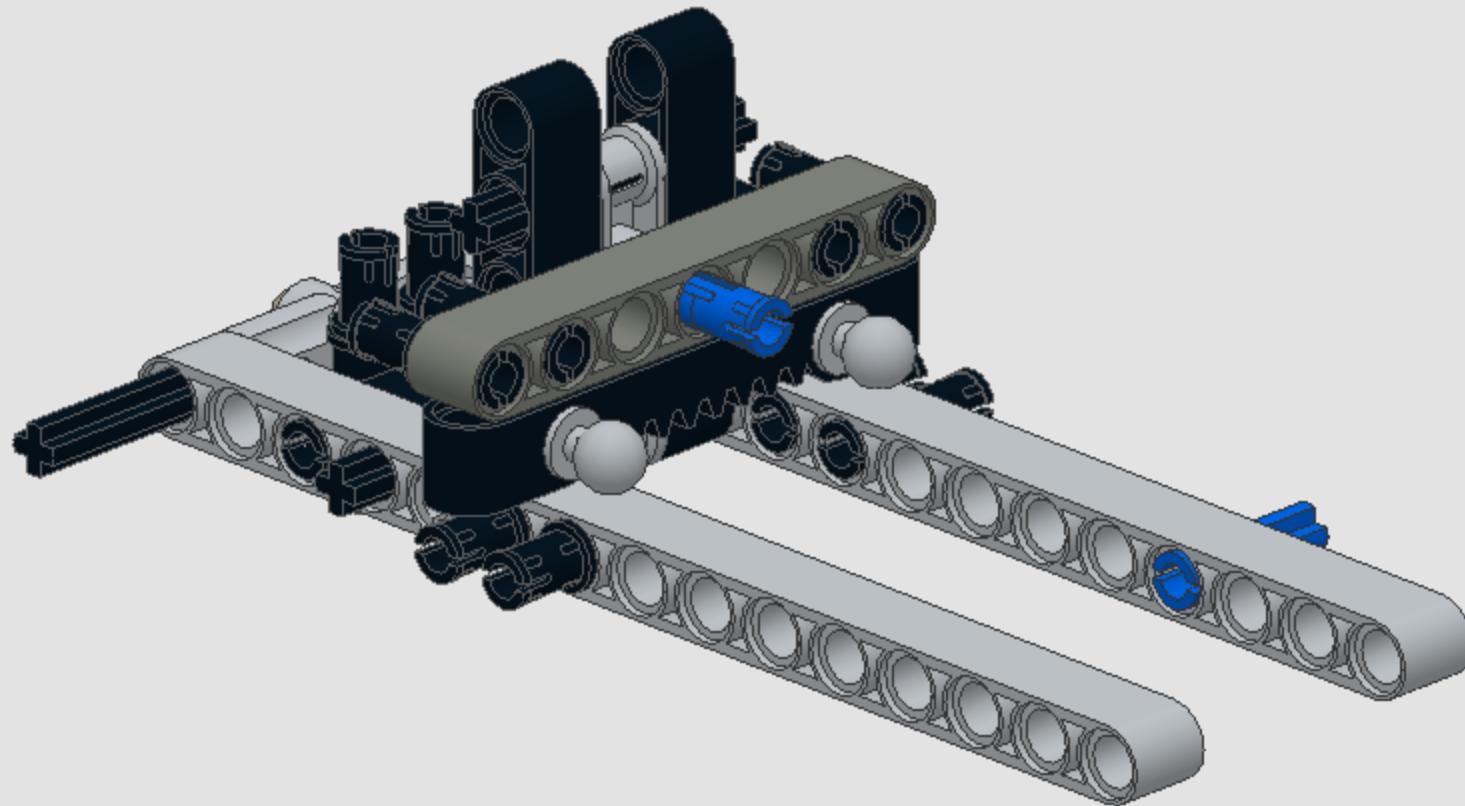


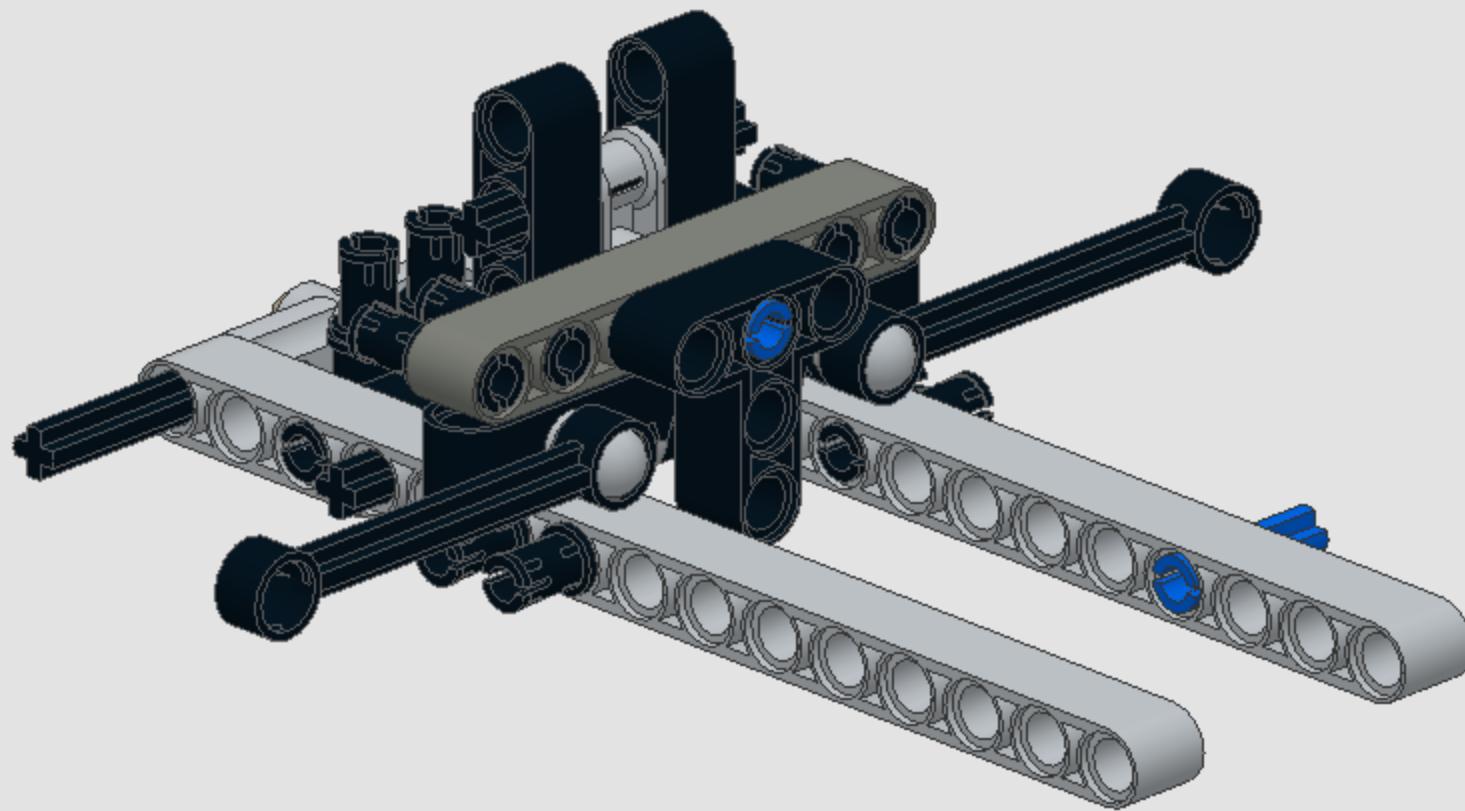
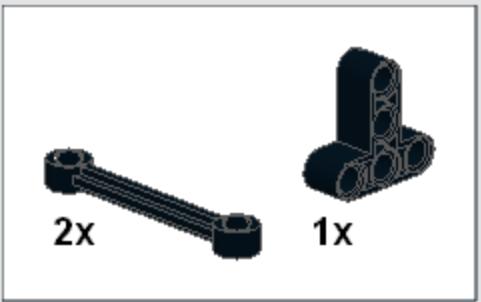


2x

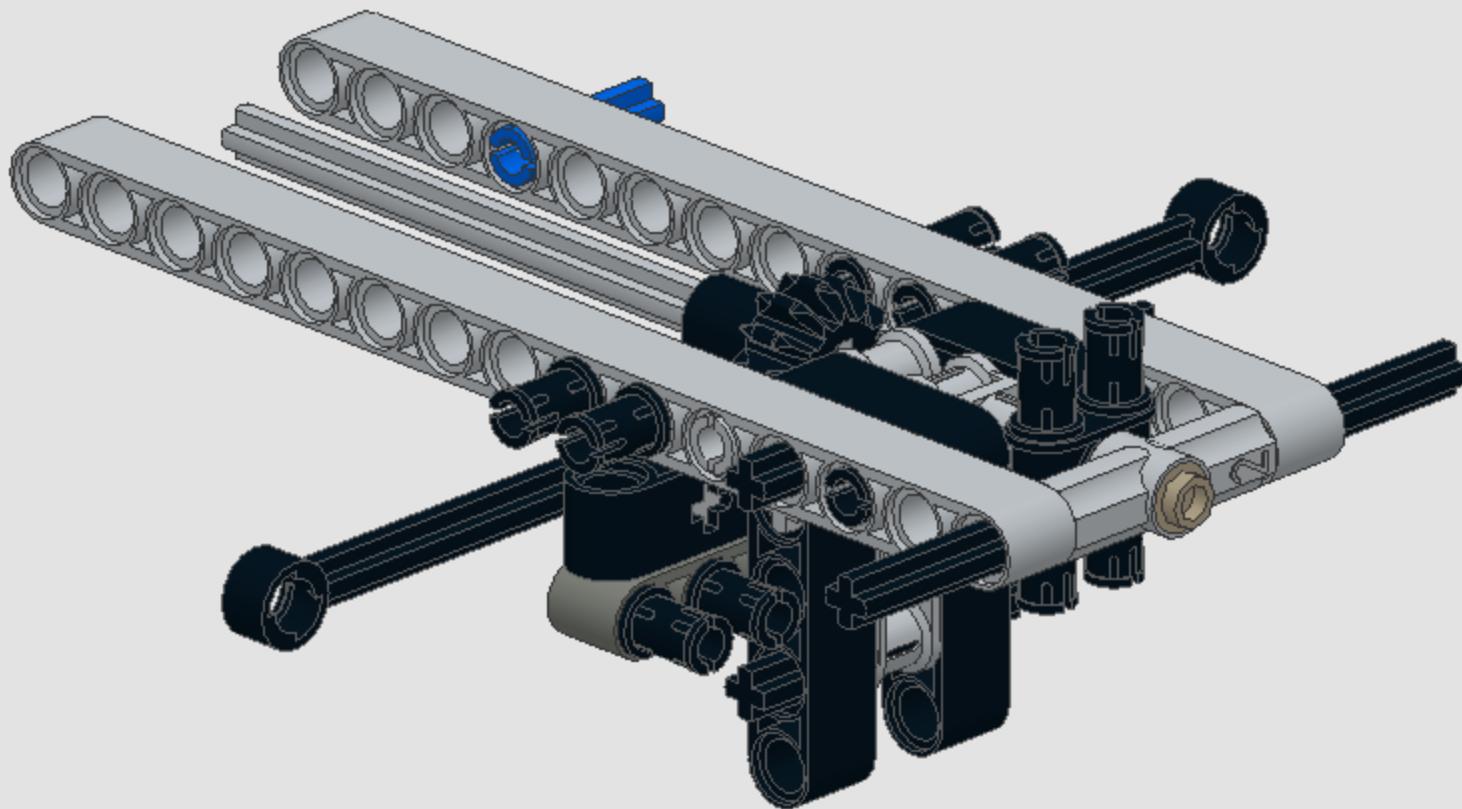
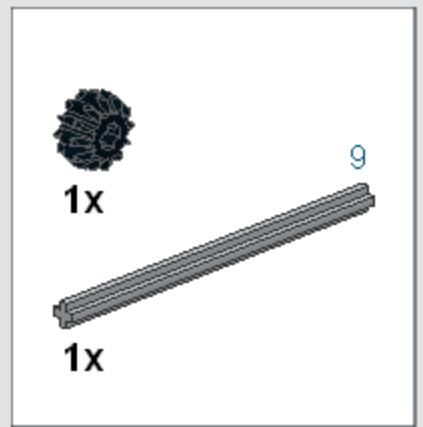


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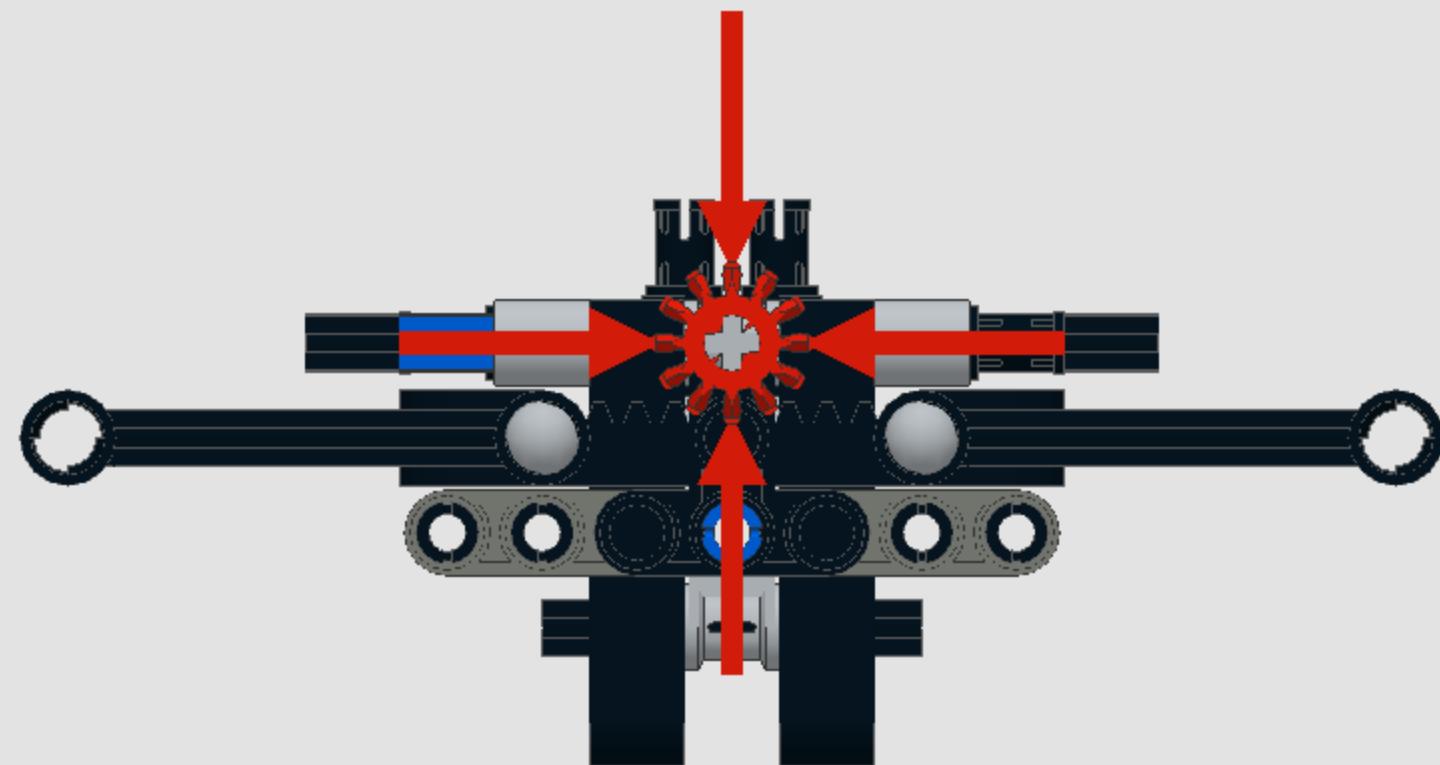


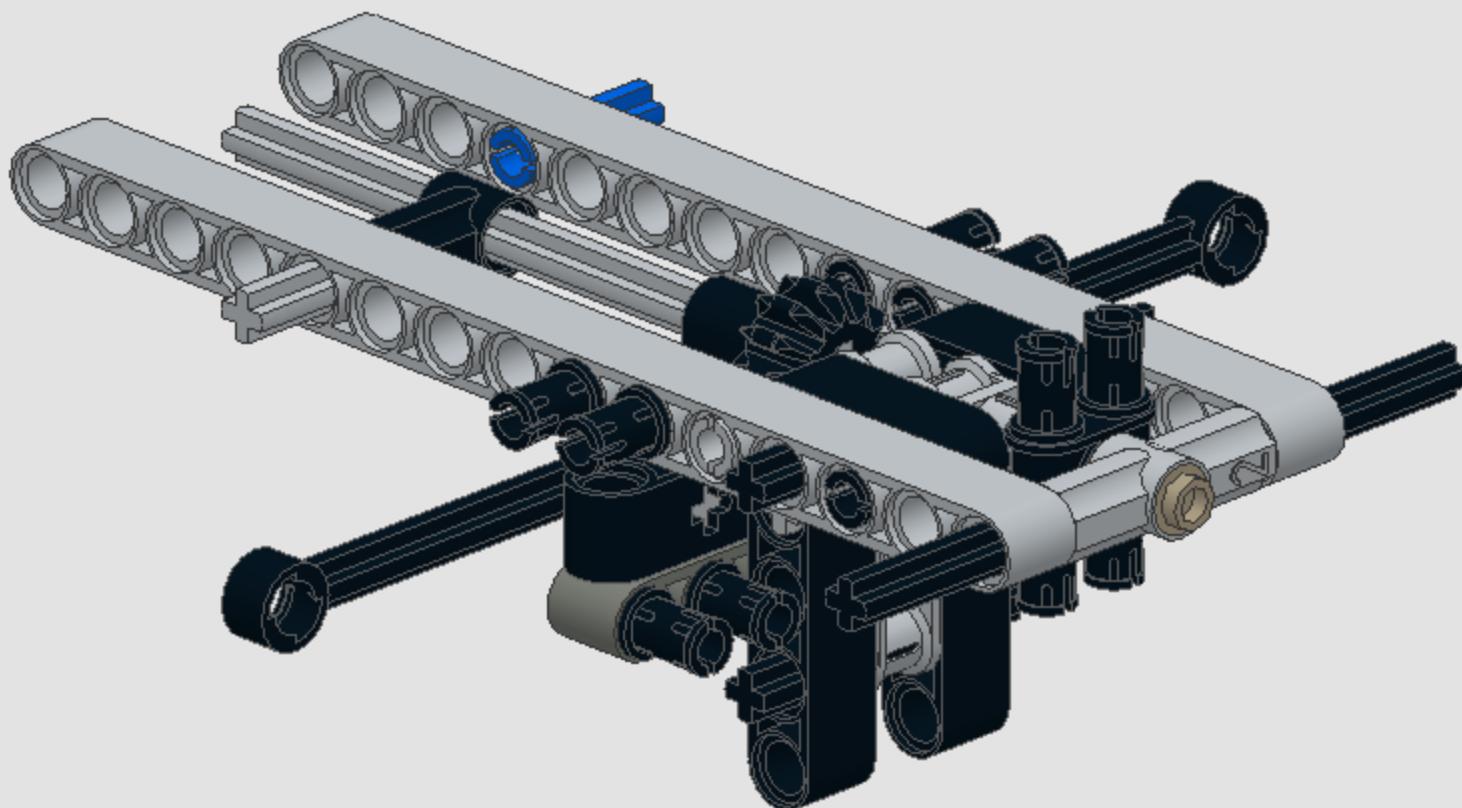
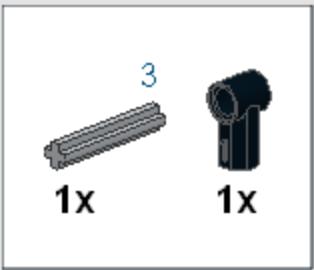


10



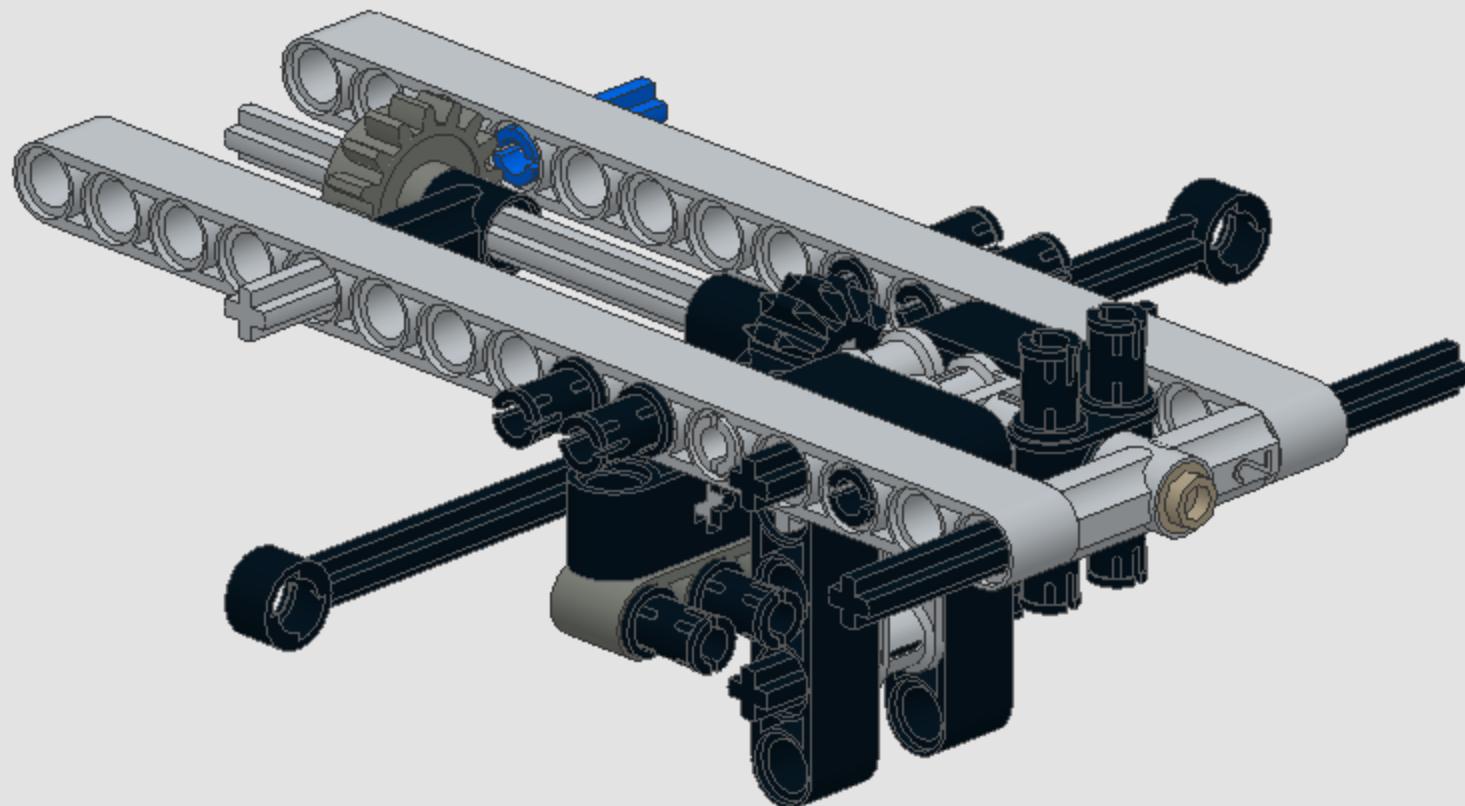
Make sure the gear rack is perfectly centered, and carefully position the gear so that the axle running through it is centered as well.

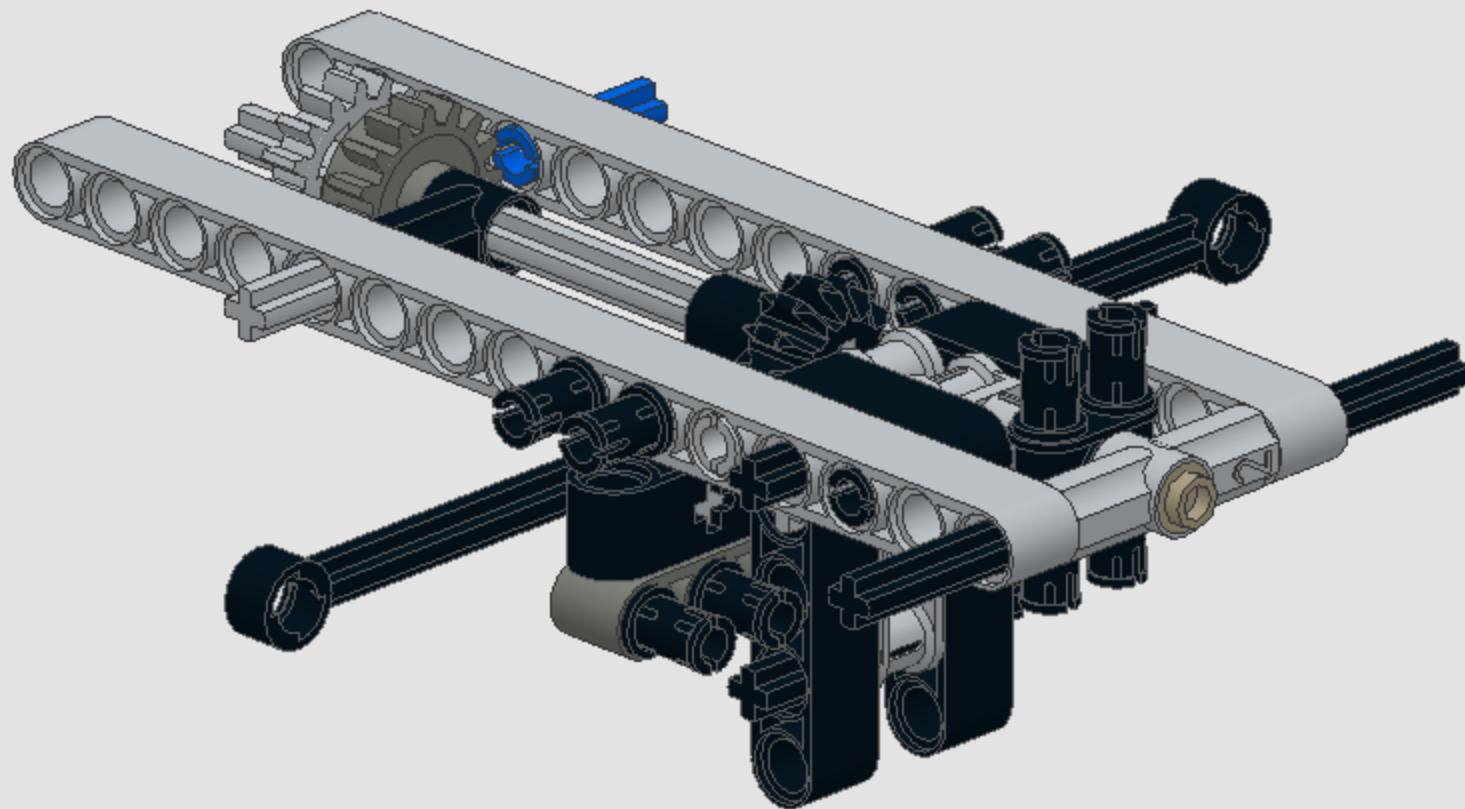


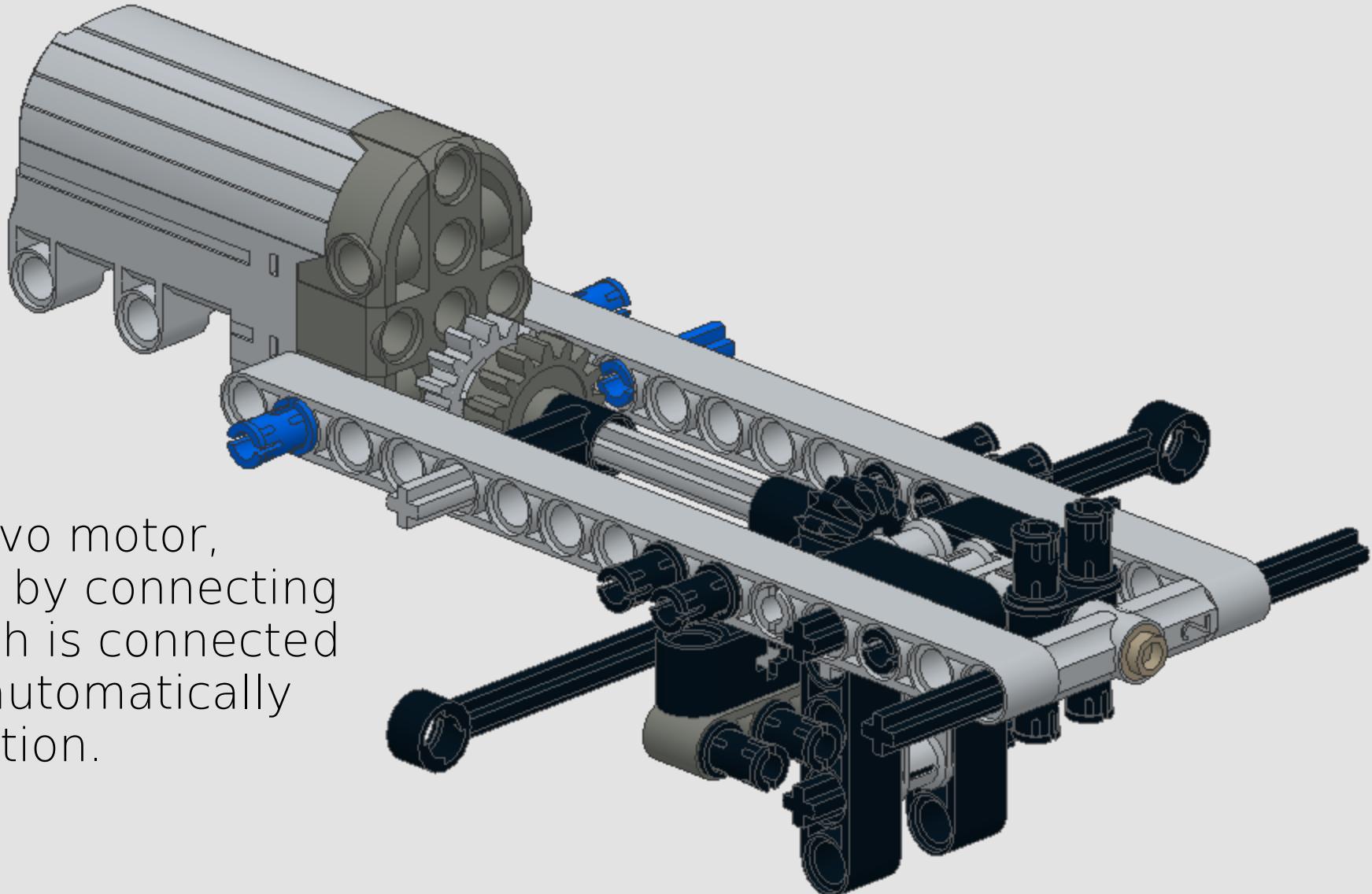
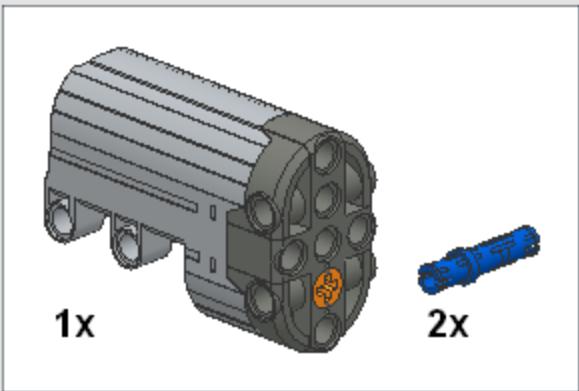




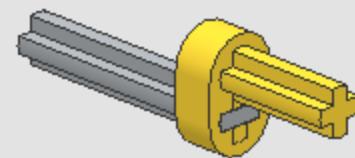
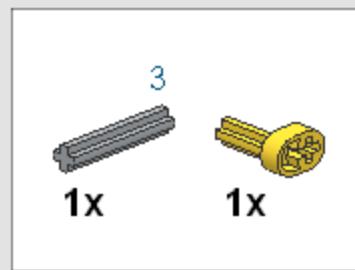
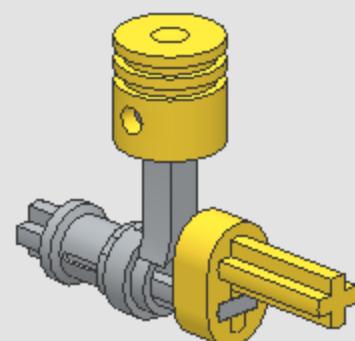
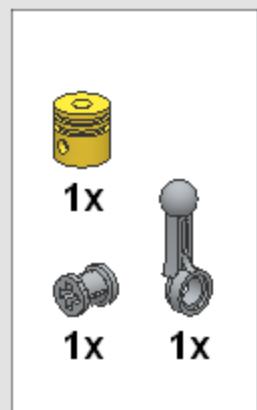
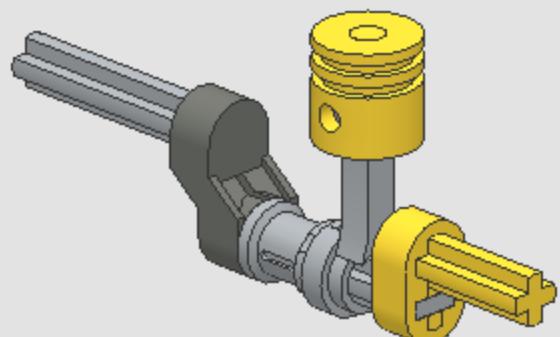
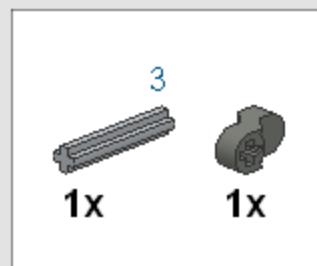
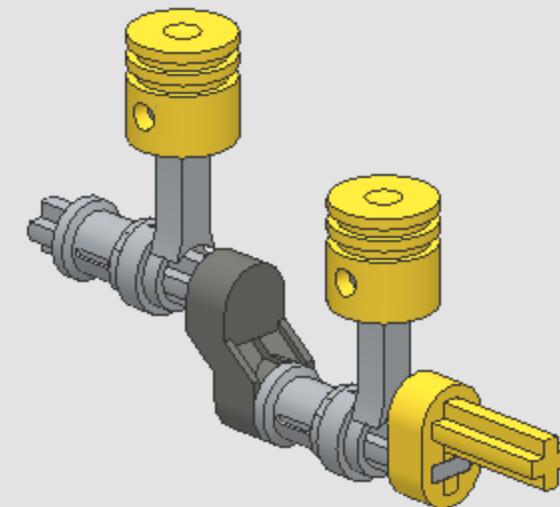
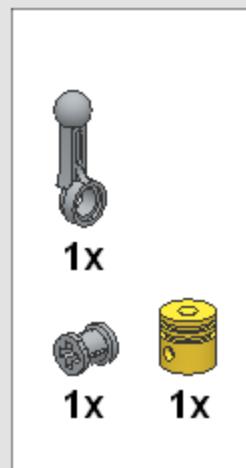
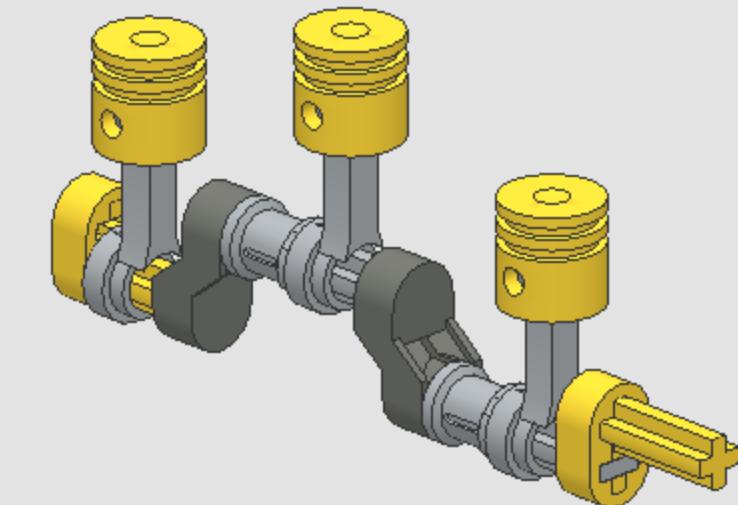
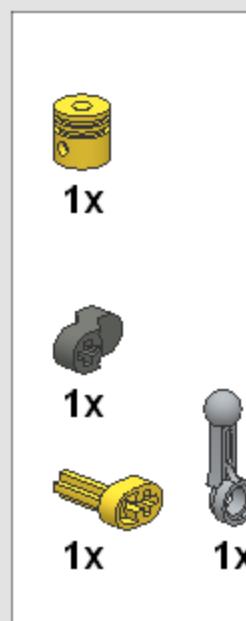
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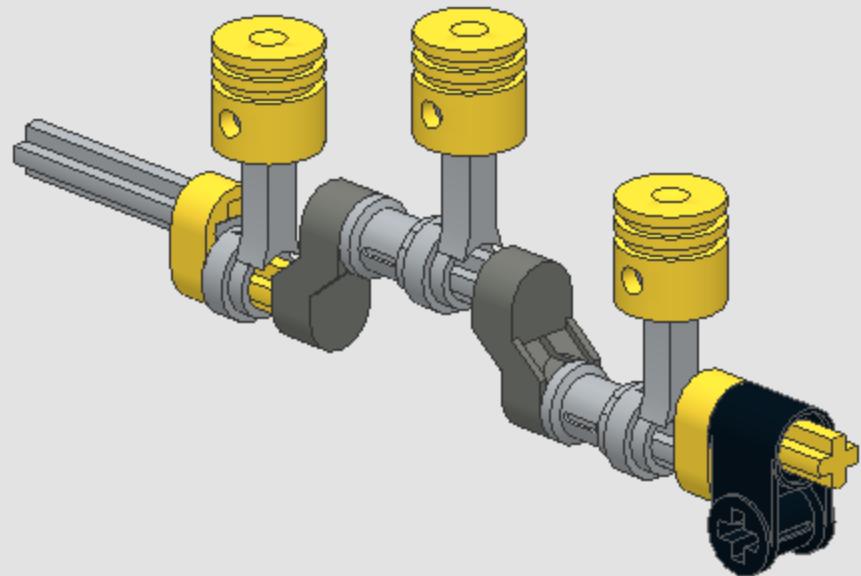
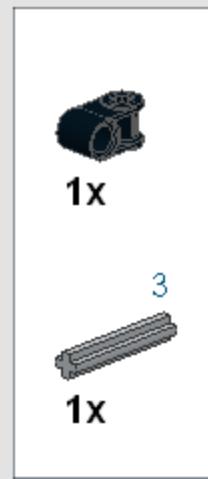




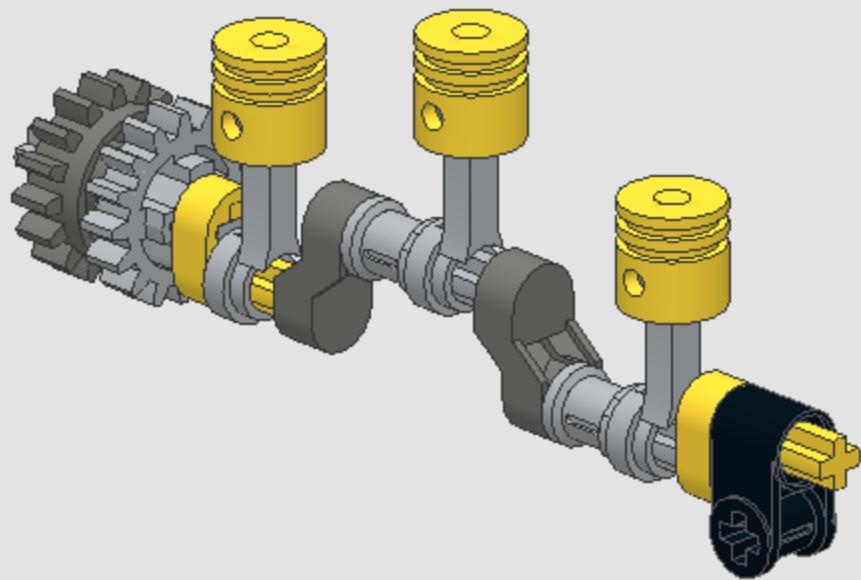
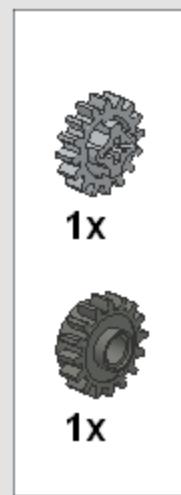
Before mounting the servo motor,
make sure it is centered by connecting
it to an IR receiver (which is connected
to a batterybox). It will automatically
rotate to the center position.

1**2****3****4****5**

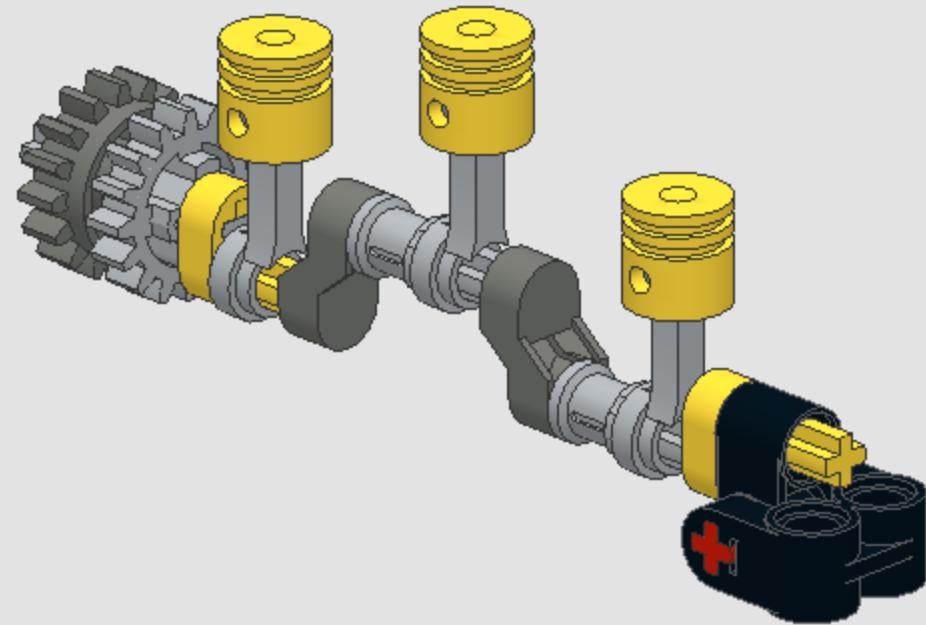
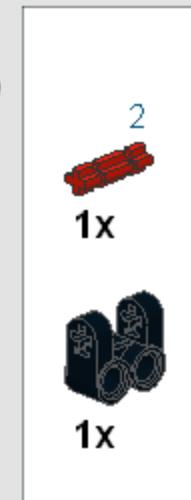
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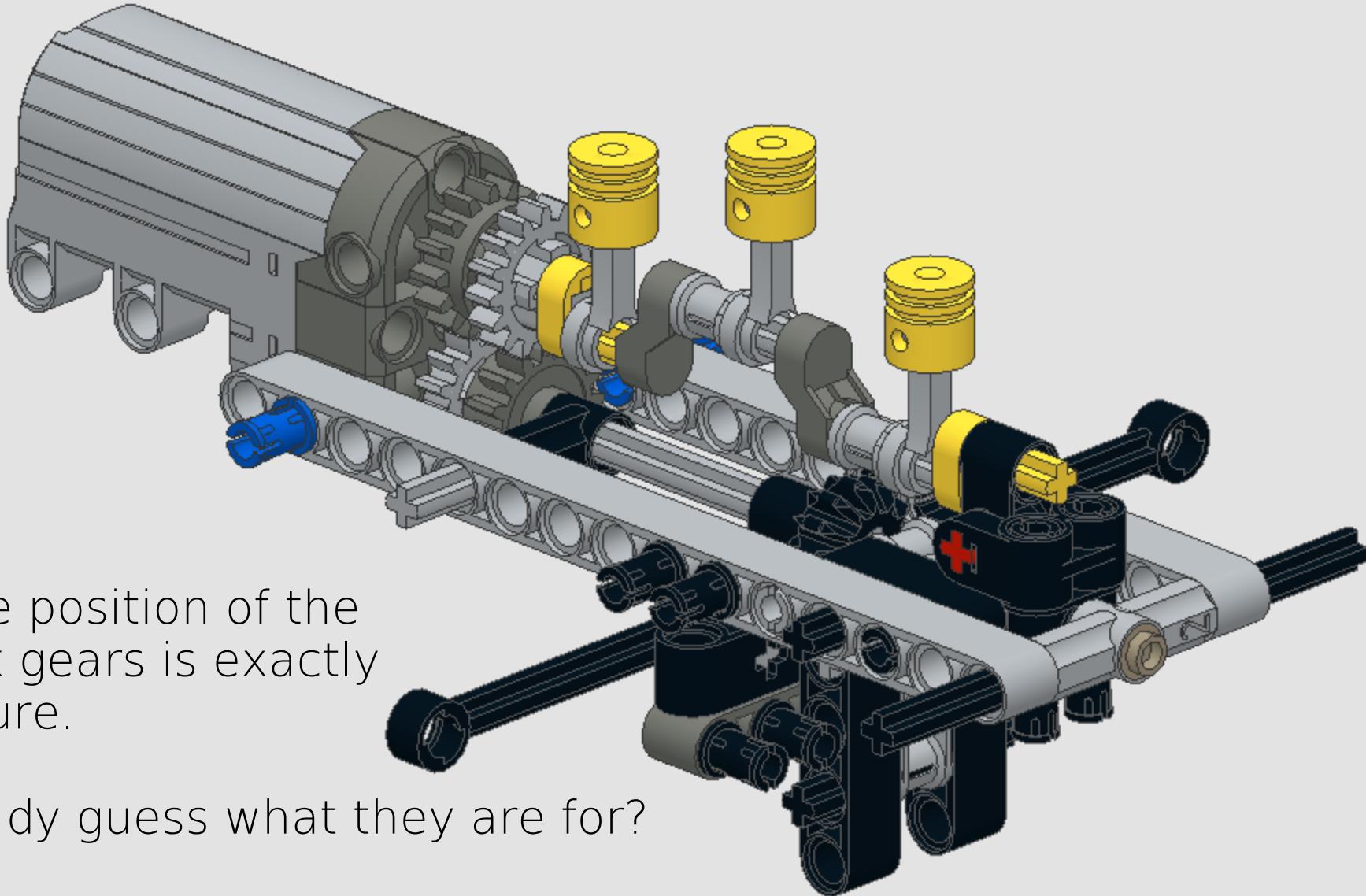
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8

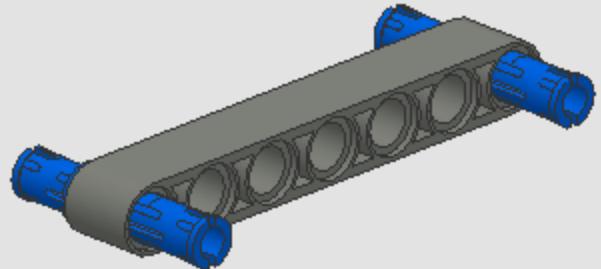
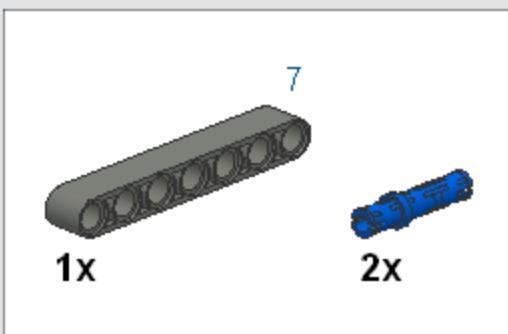
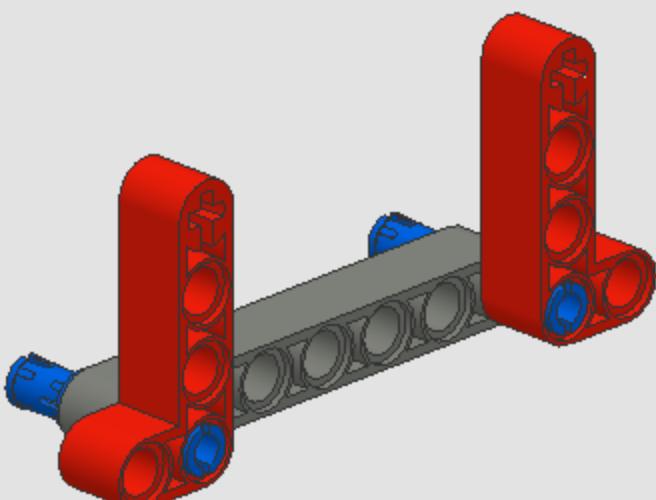
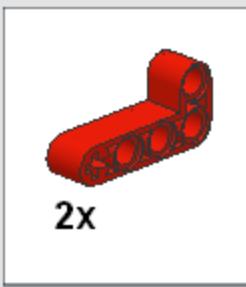
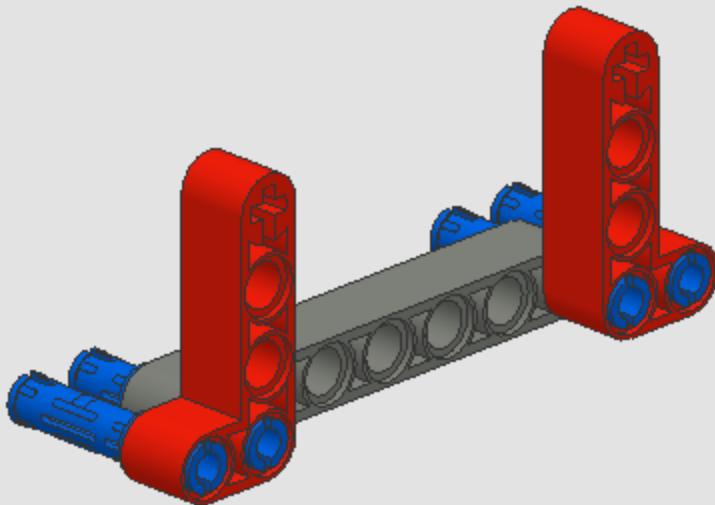
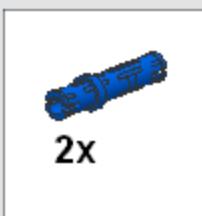
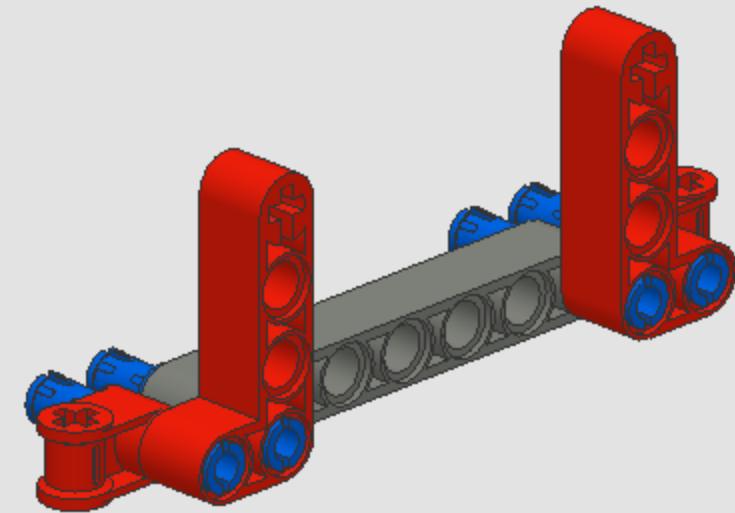
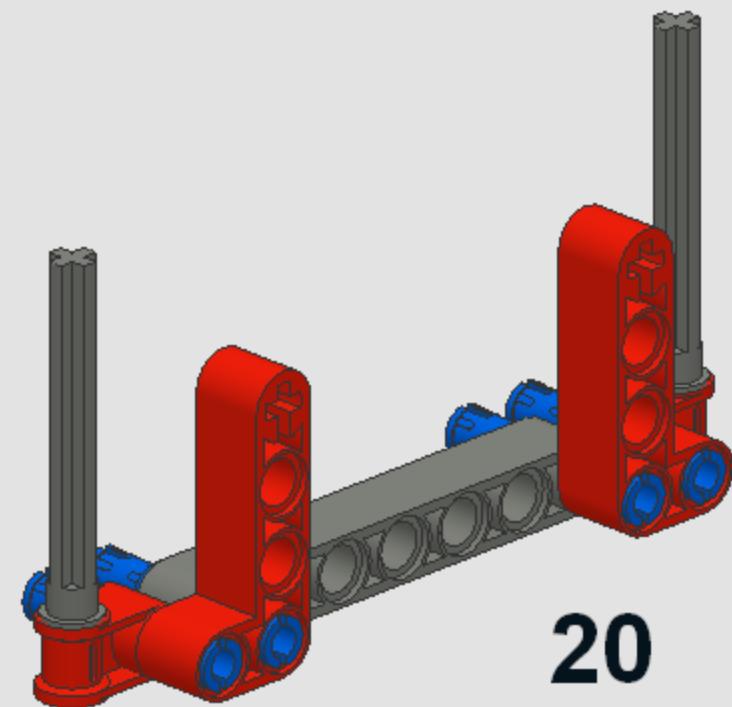
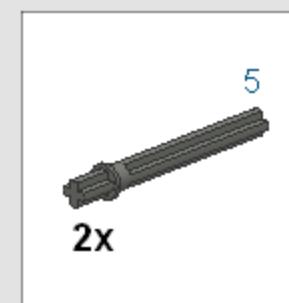


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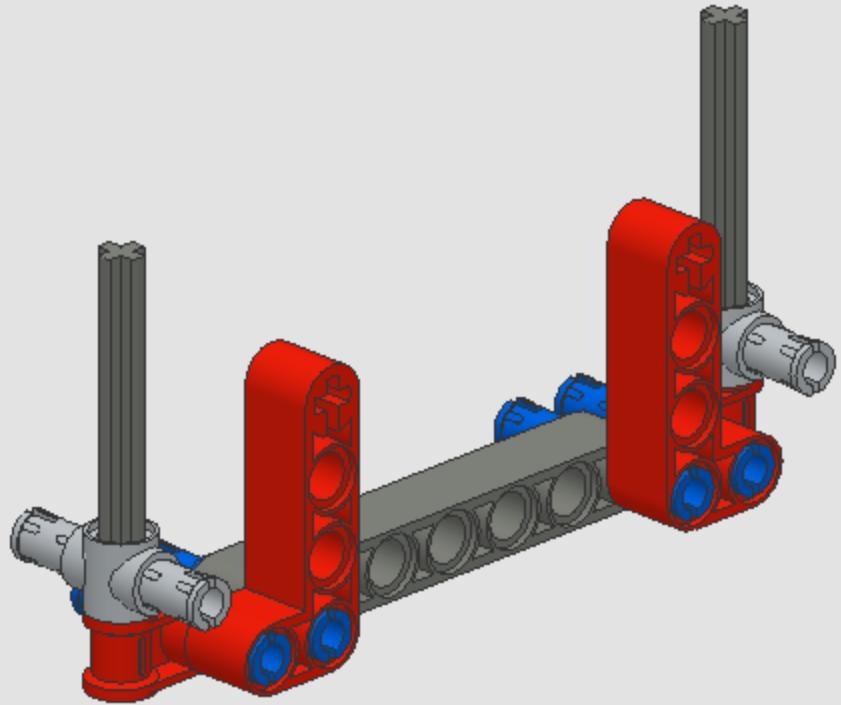
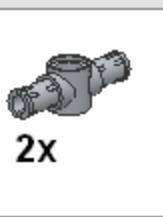


Make sure the position of the light and dark gears is exactly as in the picture.

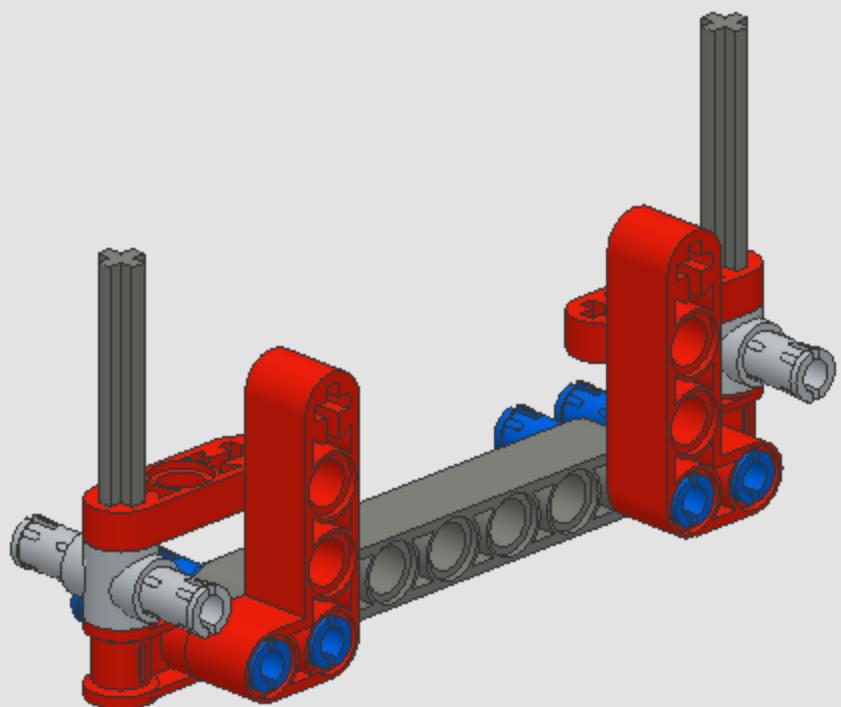
Can you already guess what they are for?

1**2****3****4****5****20**

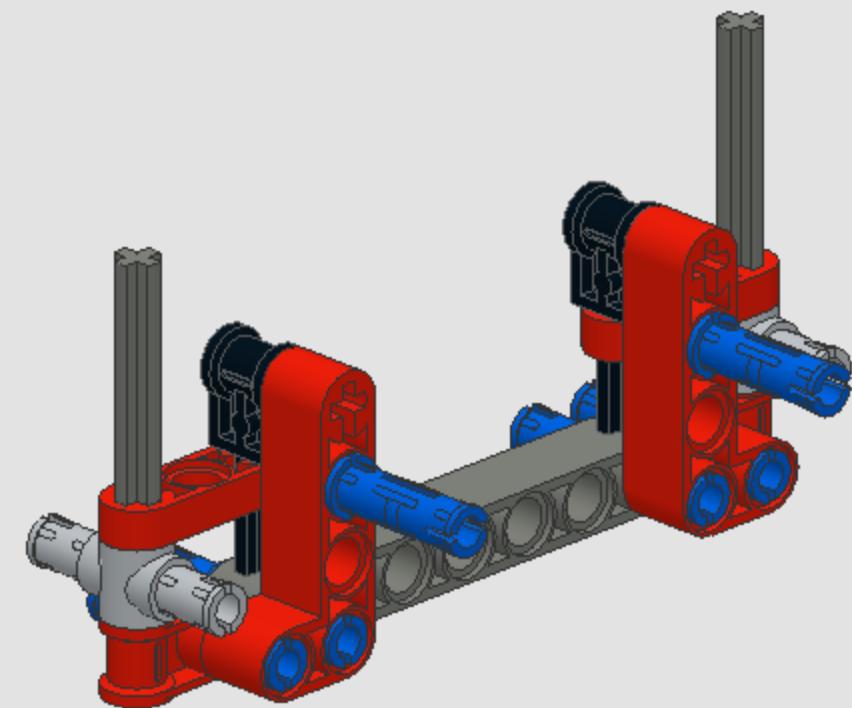
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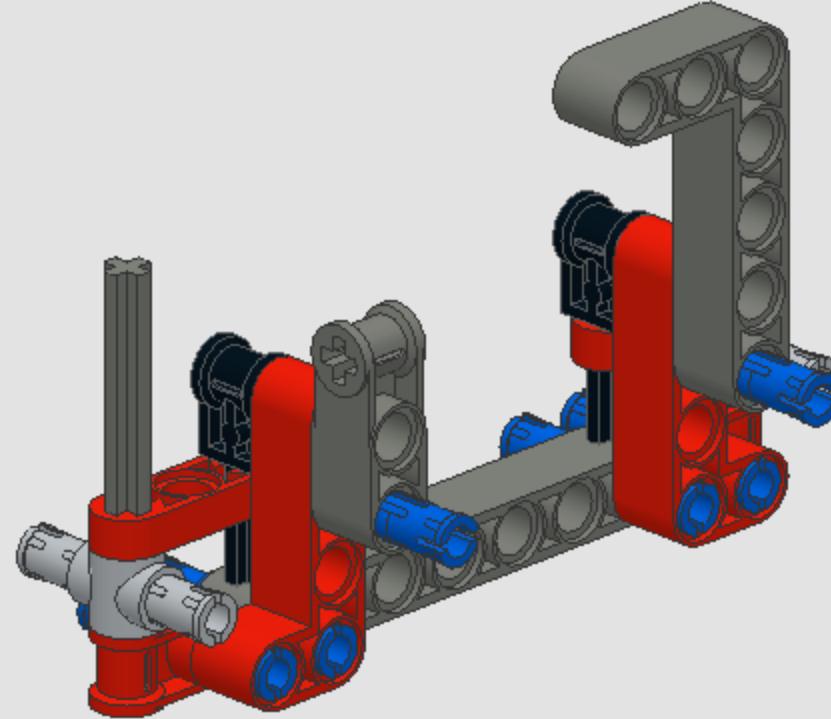
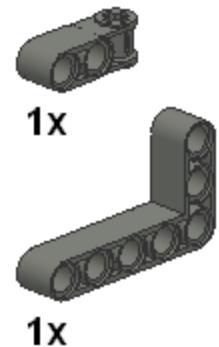


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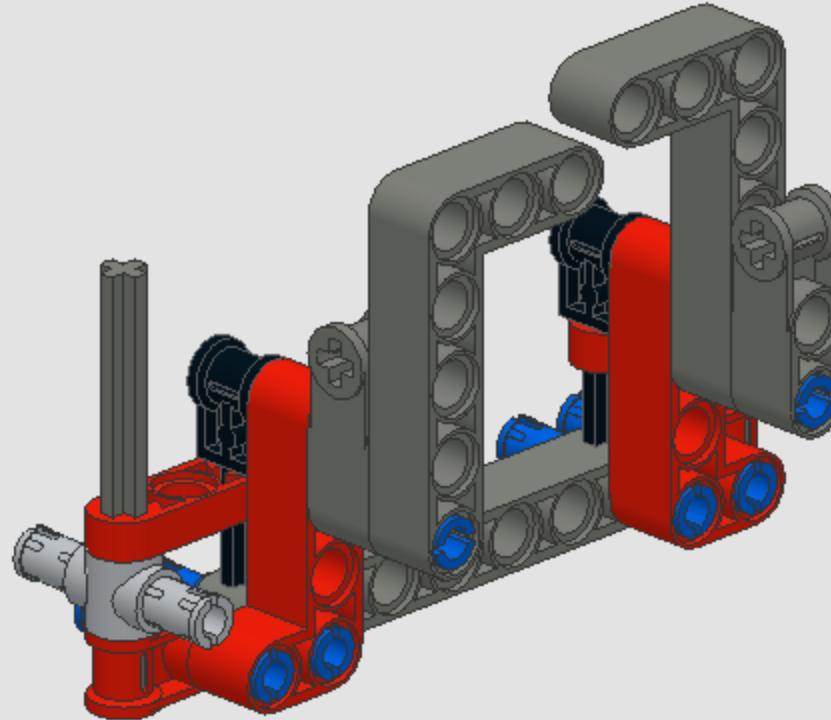
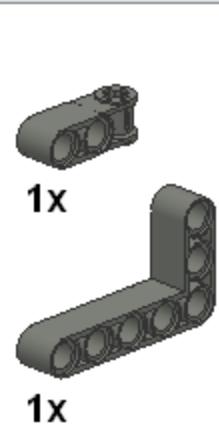


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9

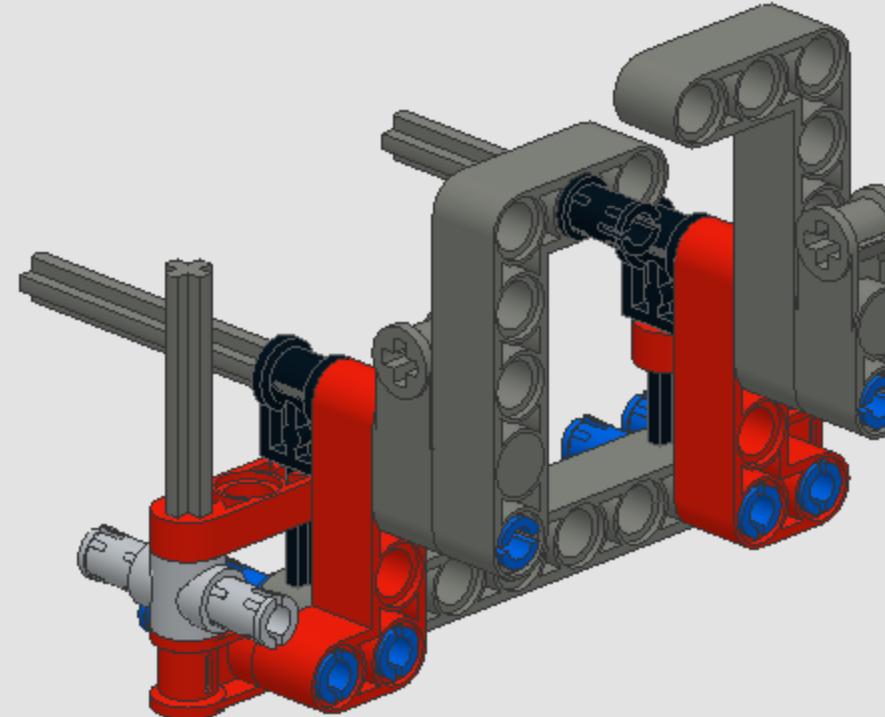
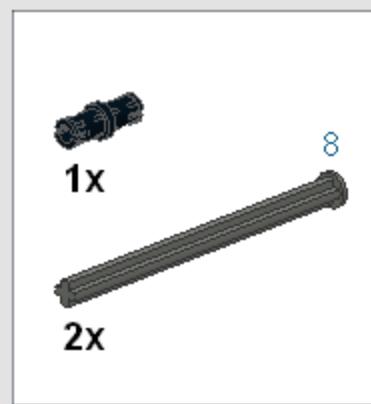


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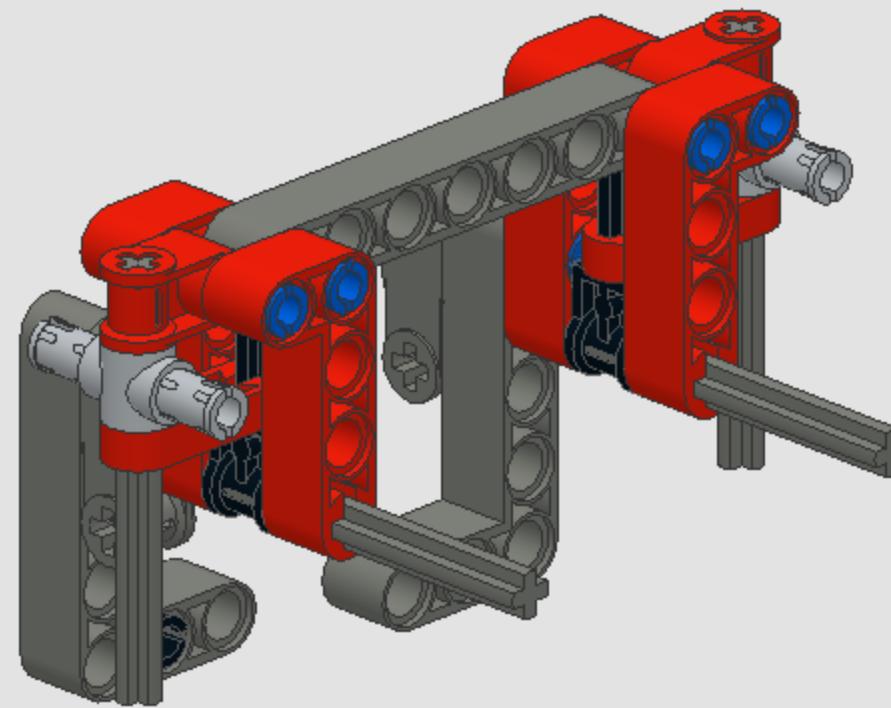
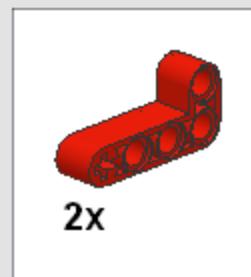


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11

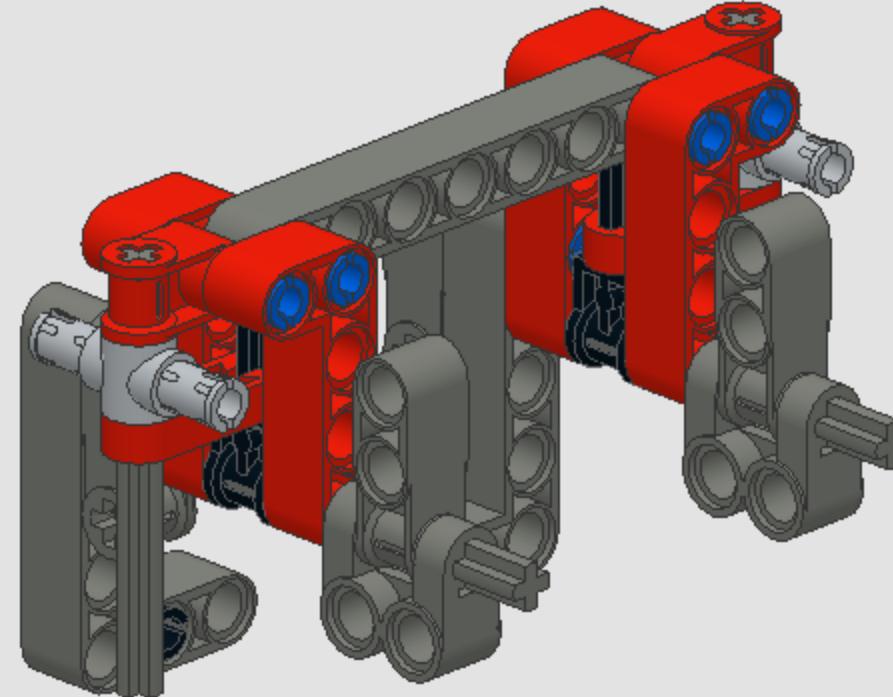
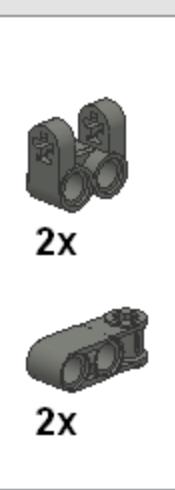


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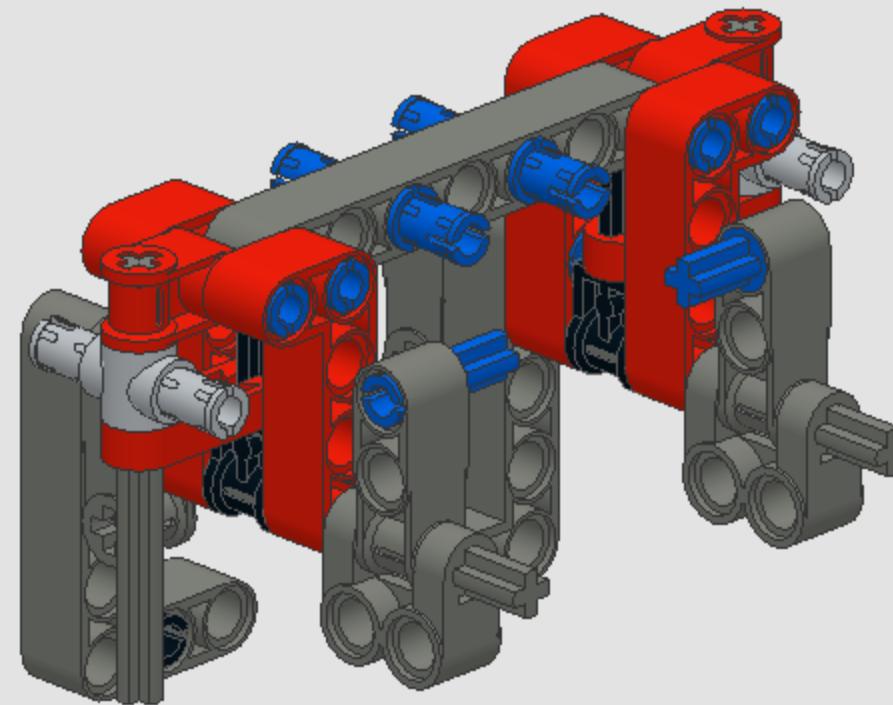
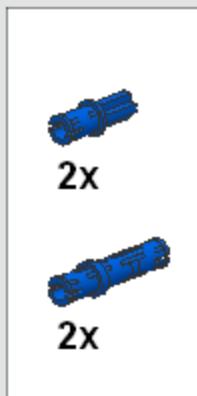


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13



14



24

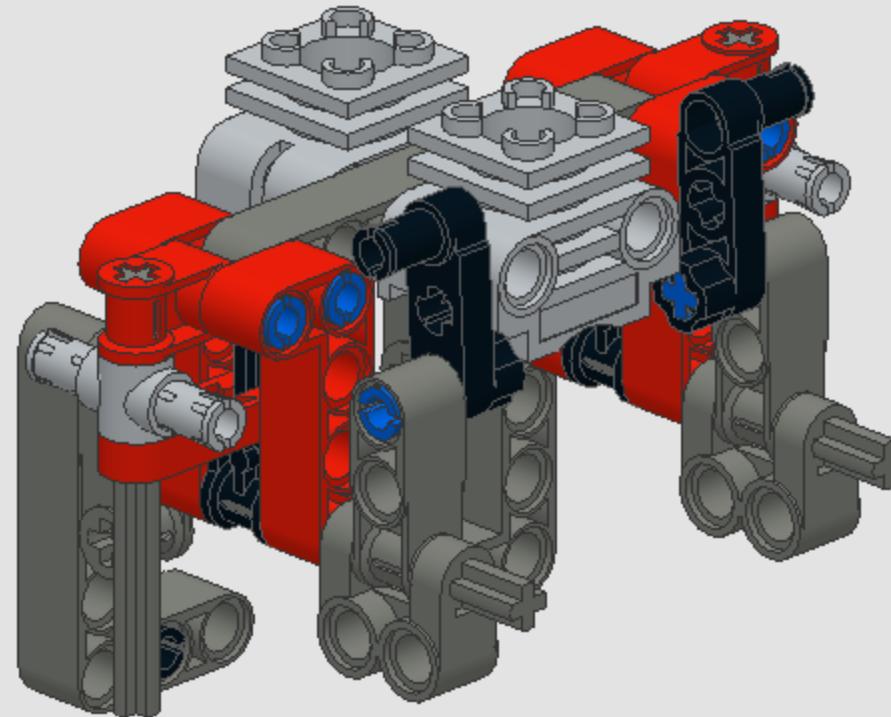
15



2x



2x



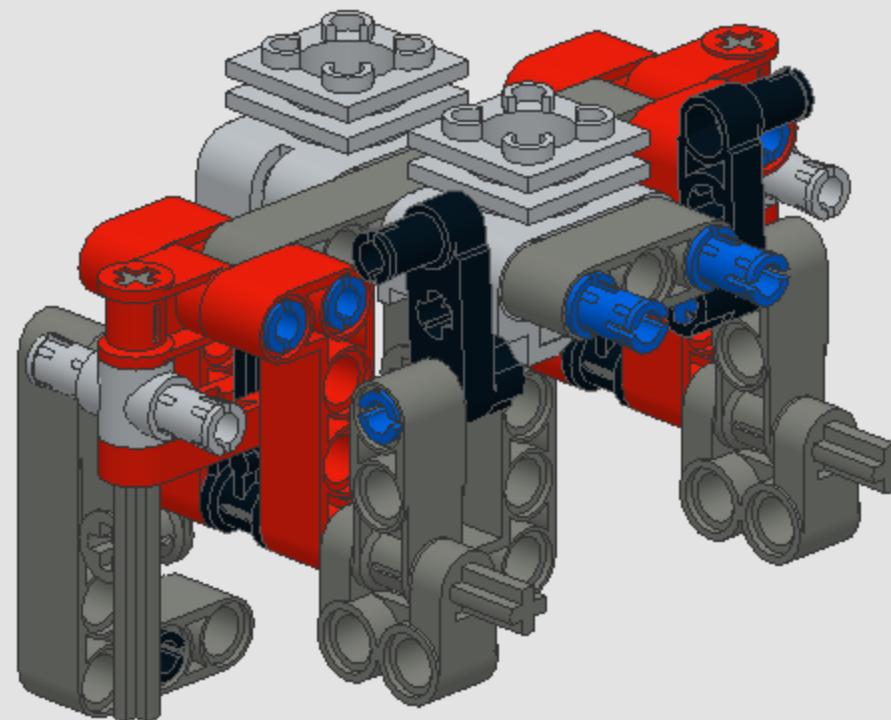
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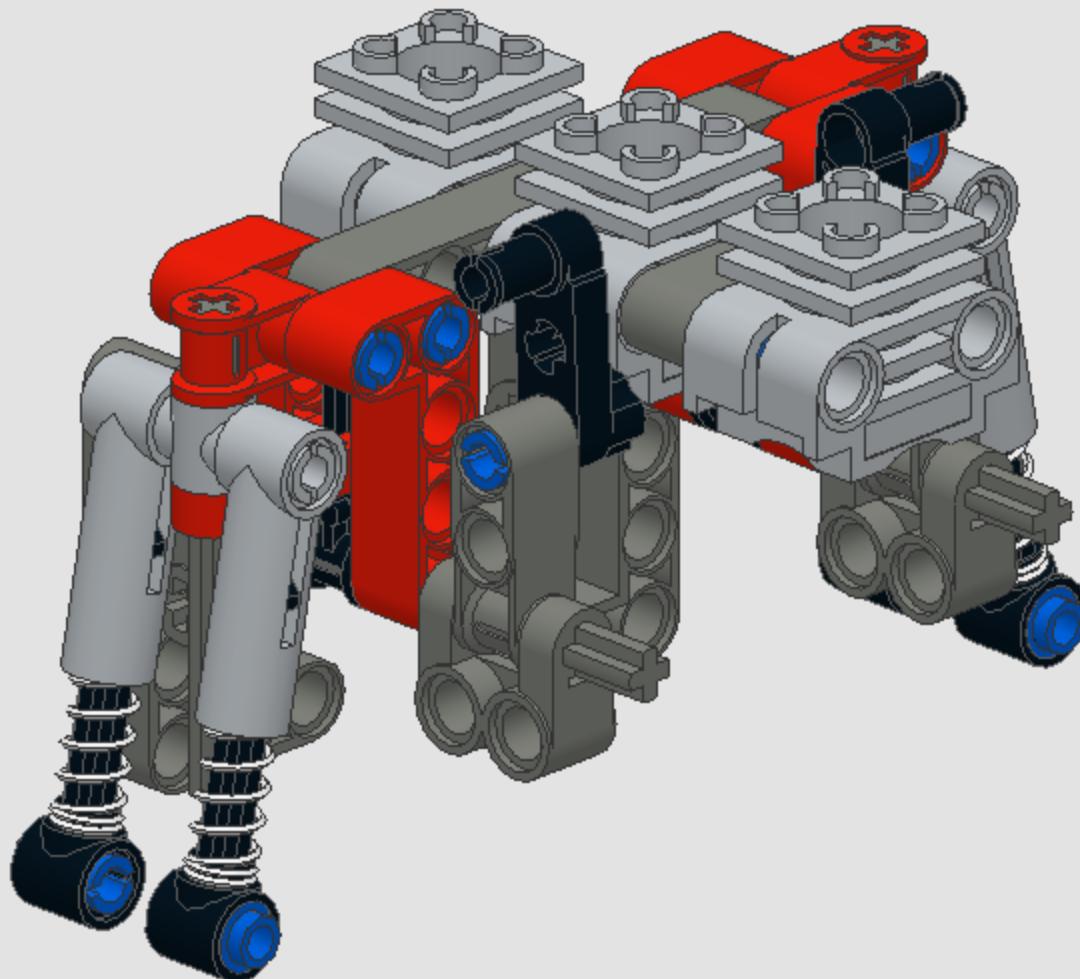
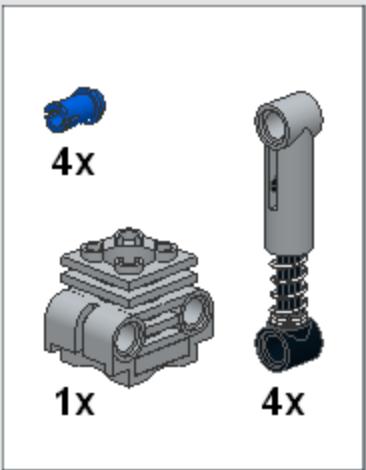
2x



1x

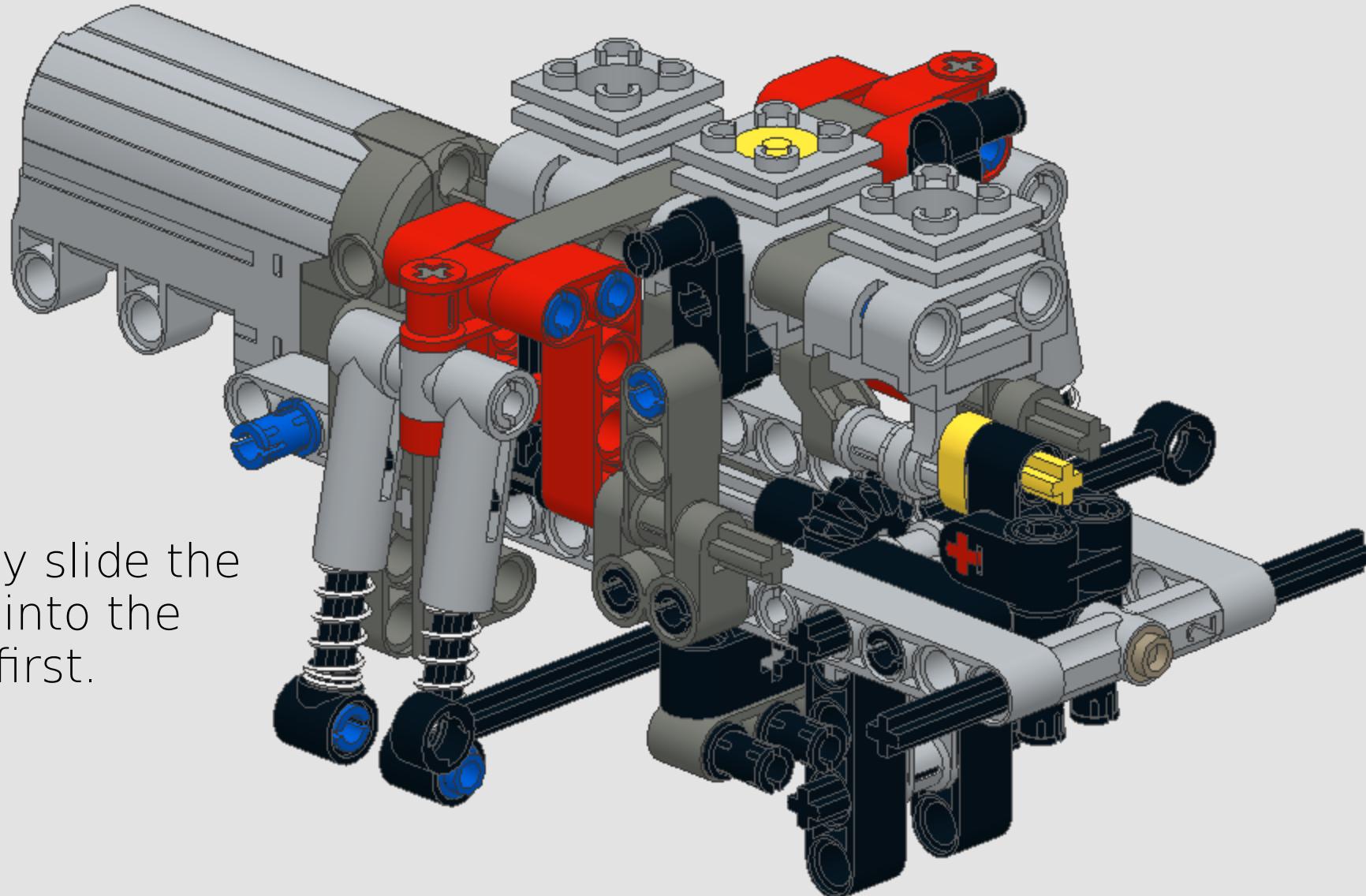


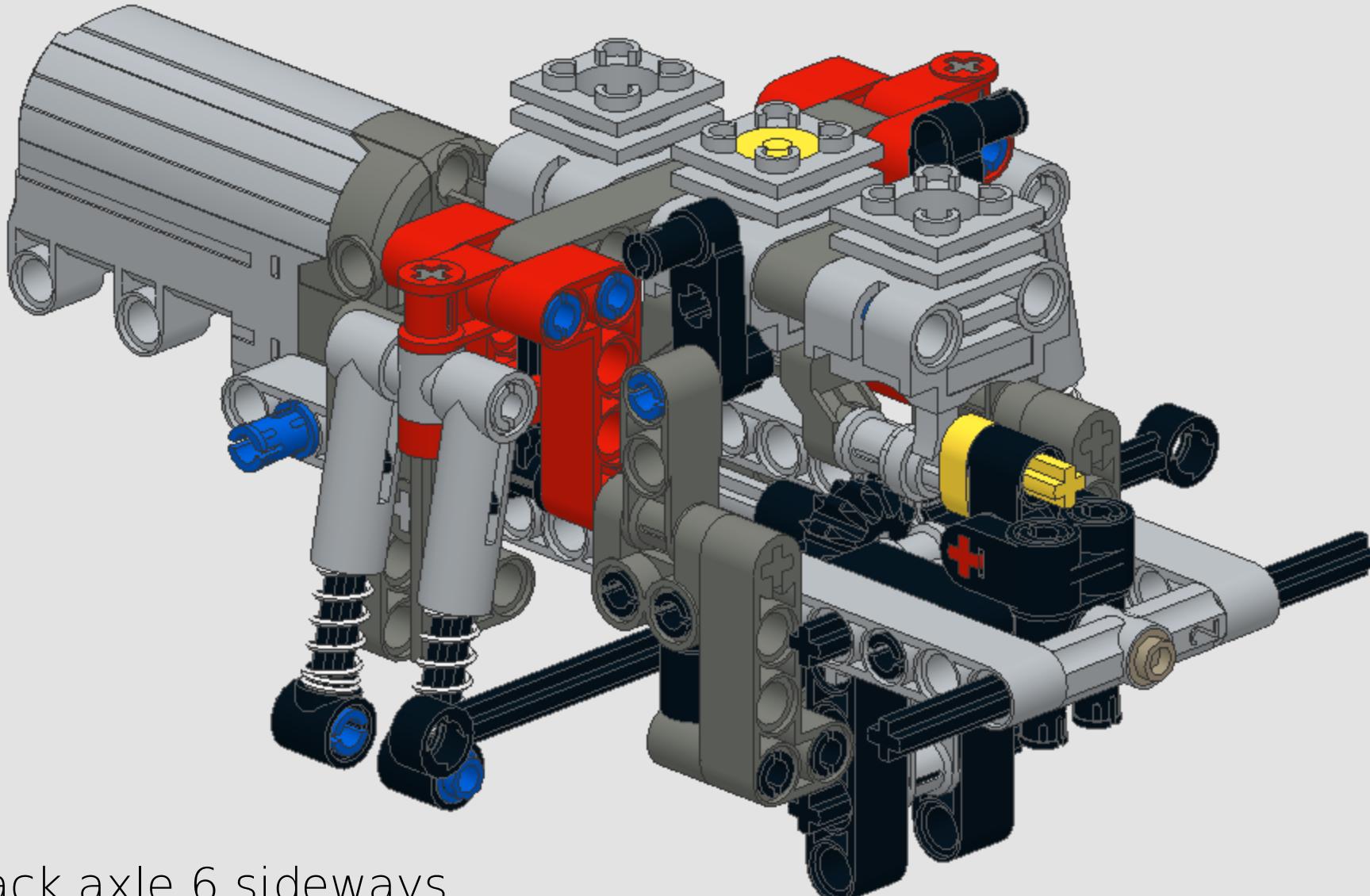
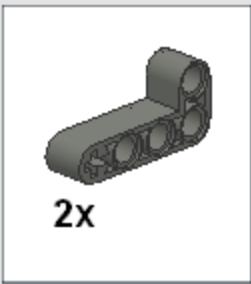
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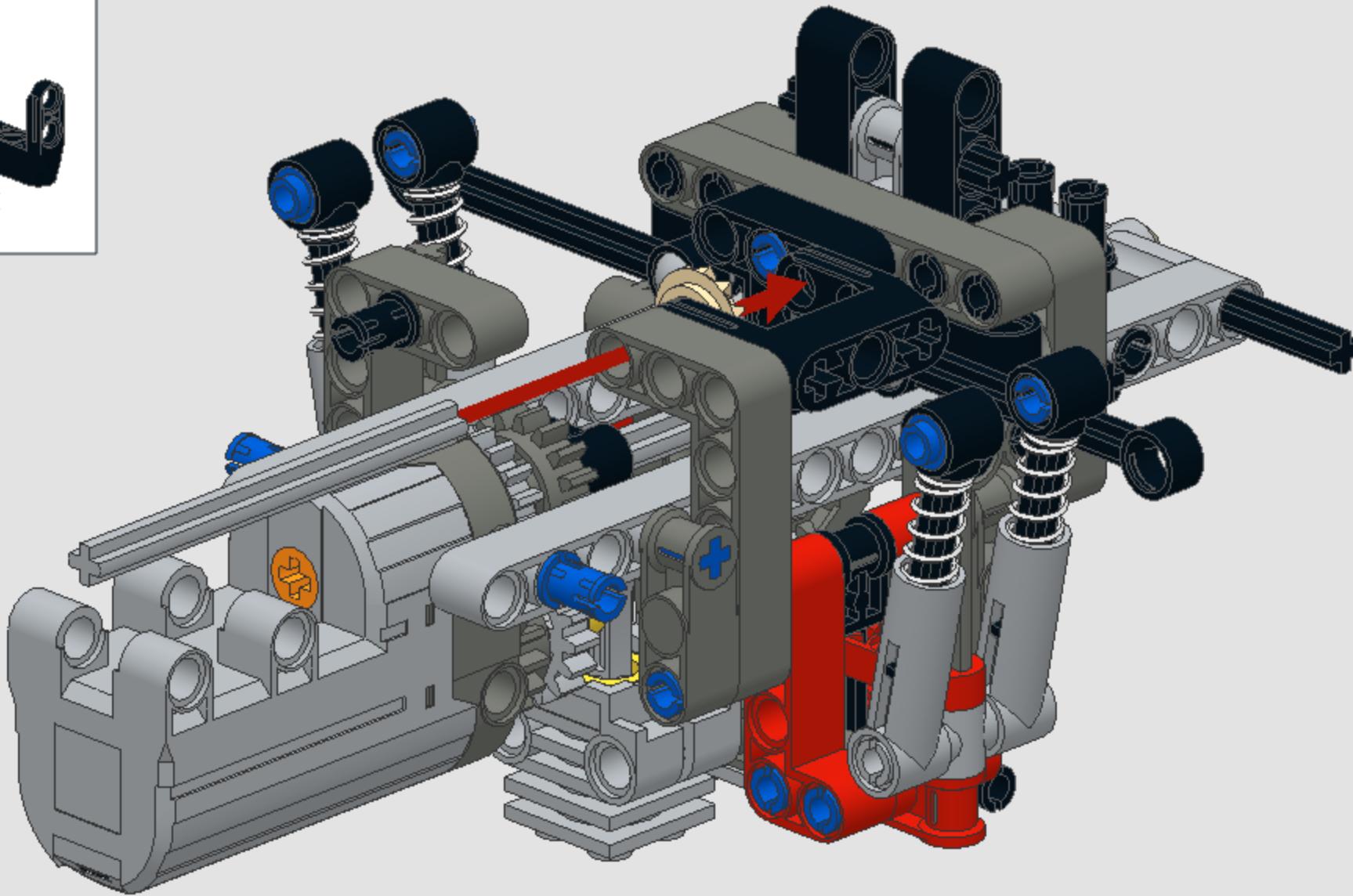
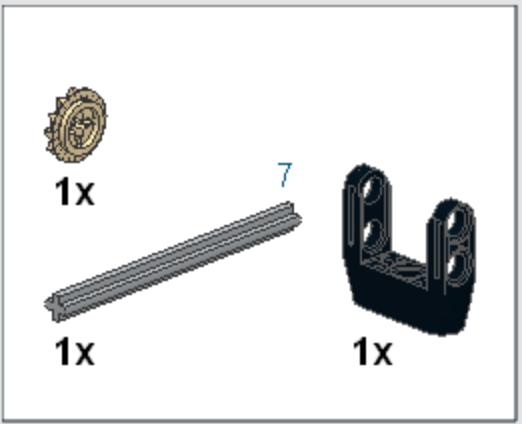
The studs of the blue pins should face outside.

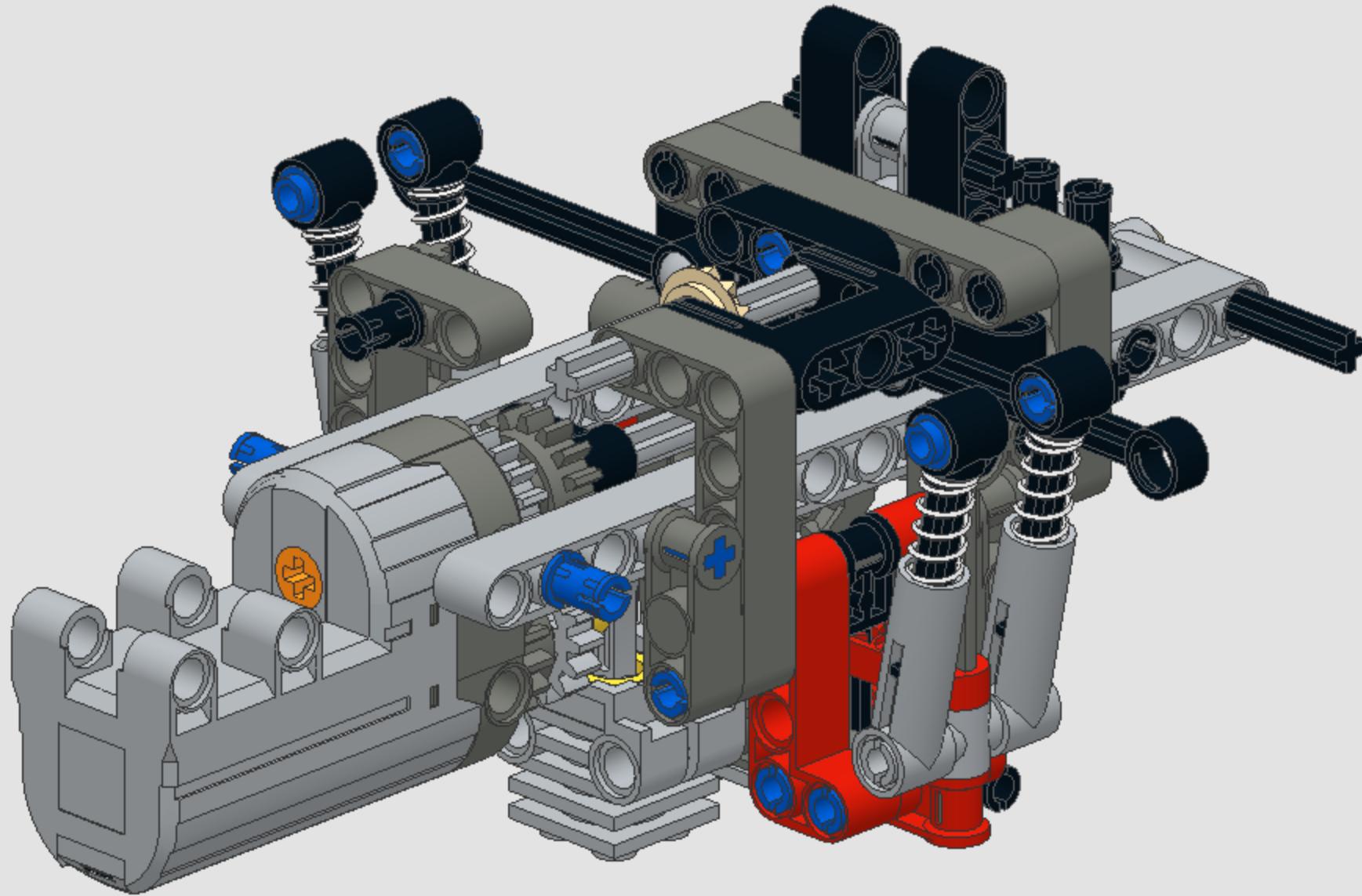
Carefully slide the pistons into the engine first.

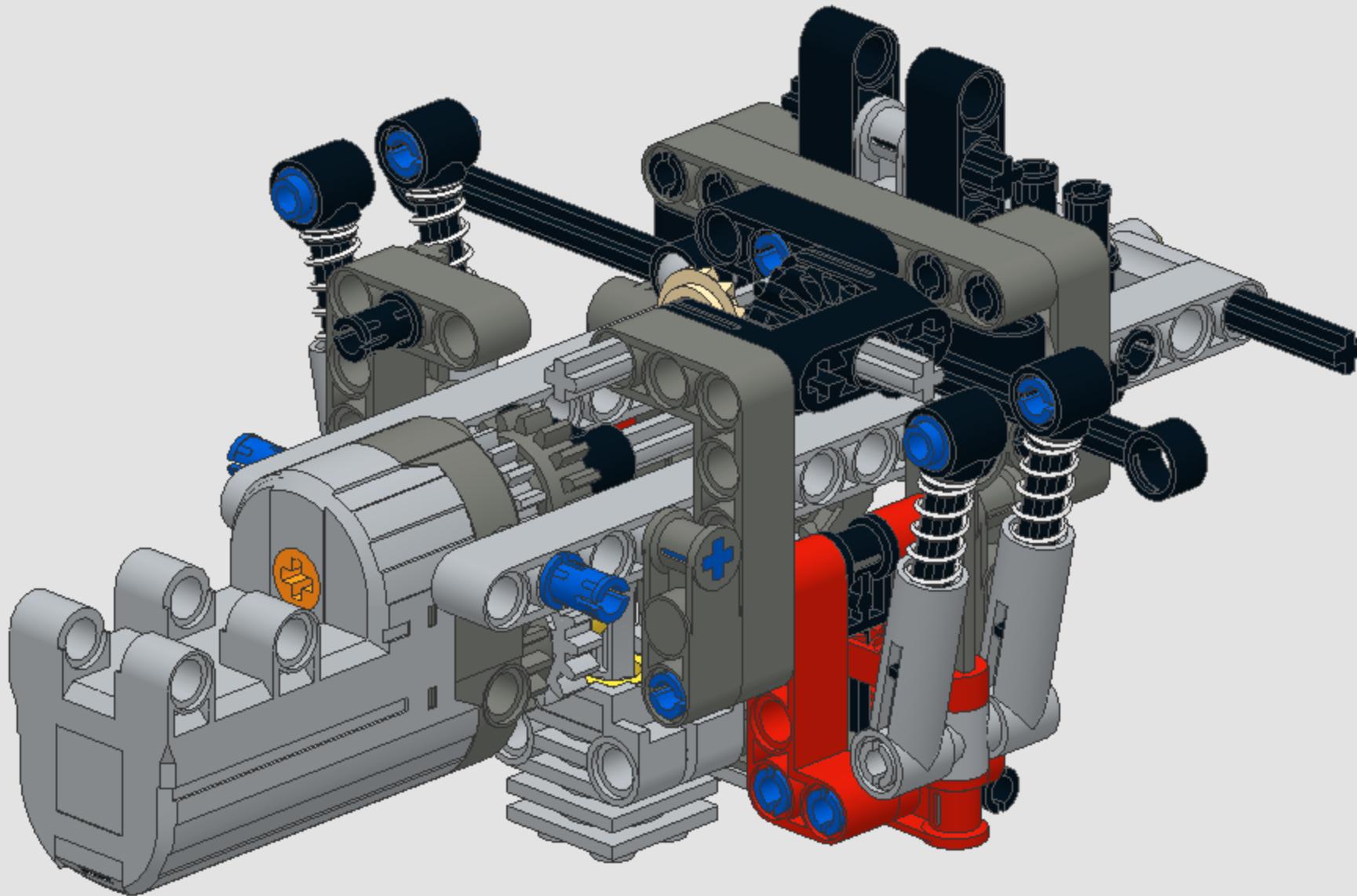
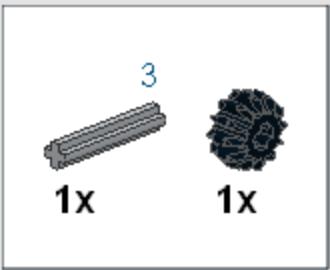


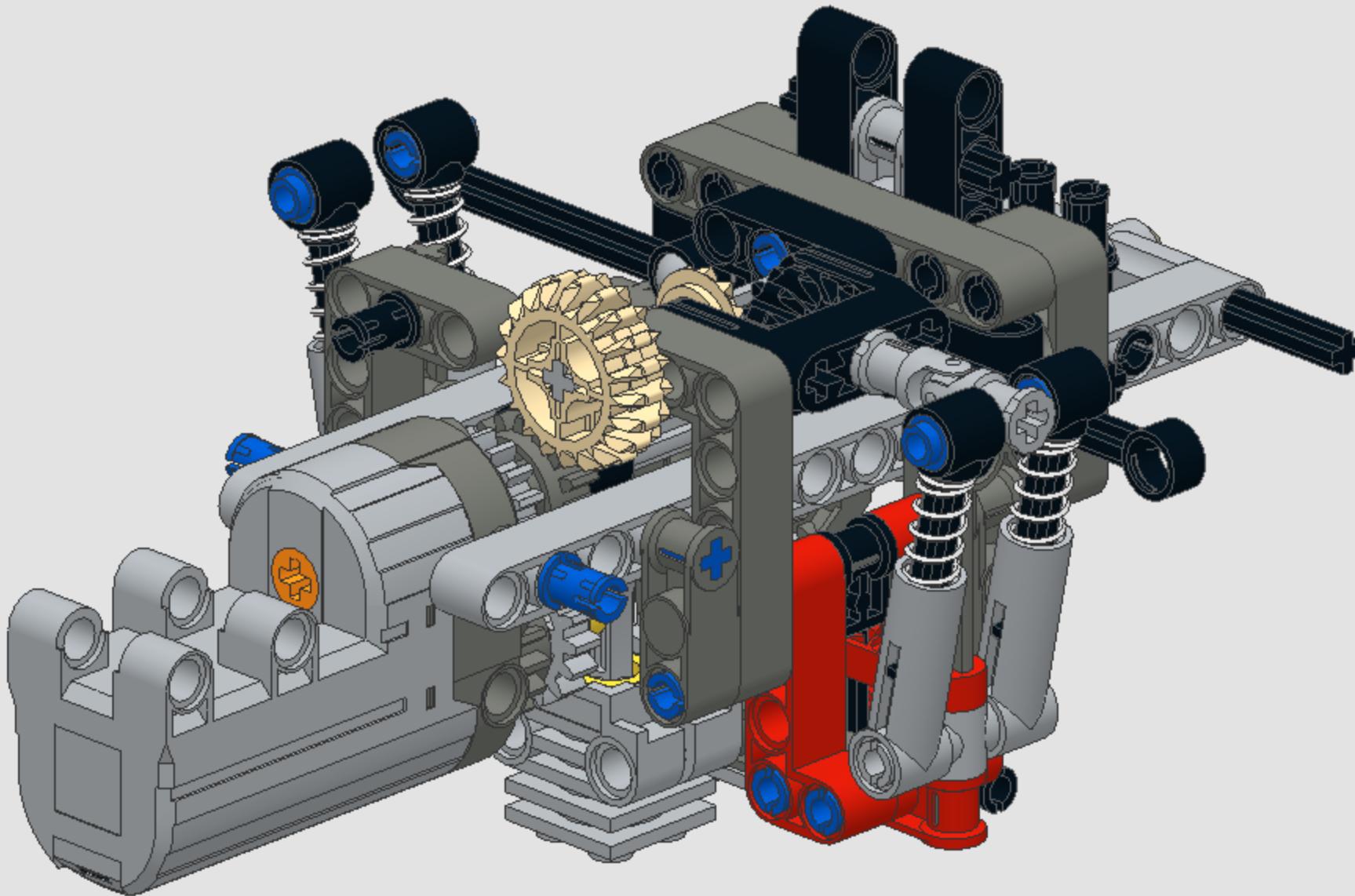
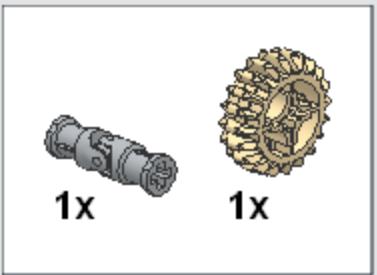


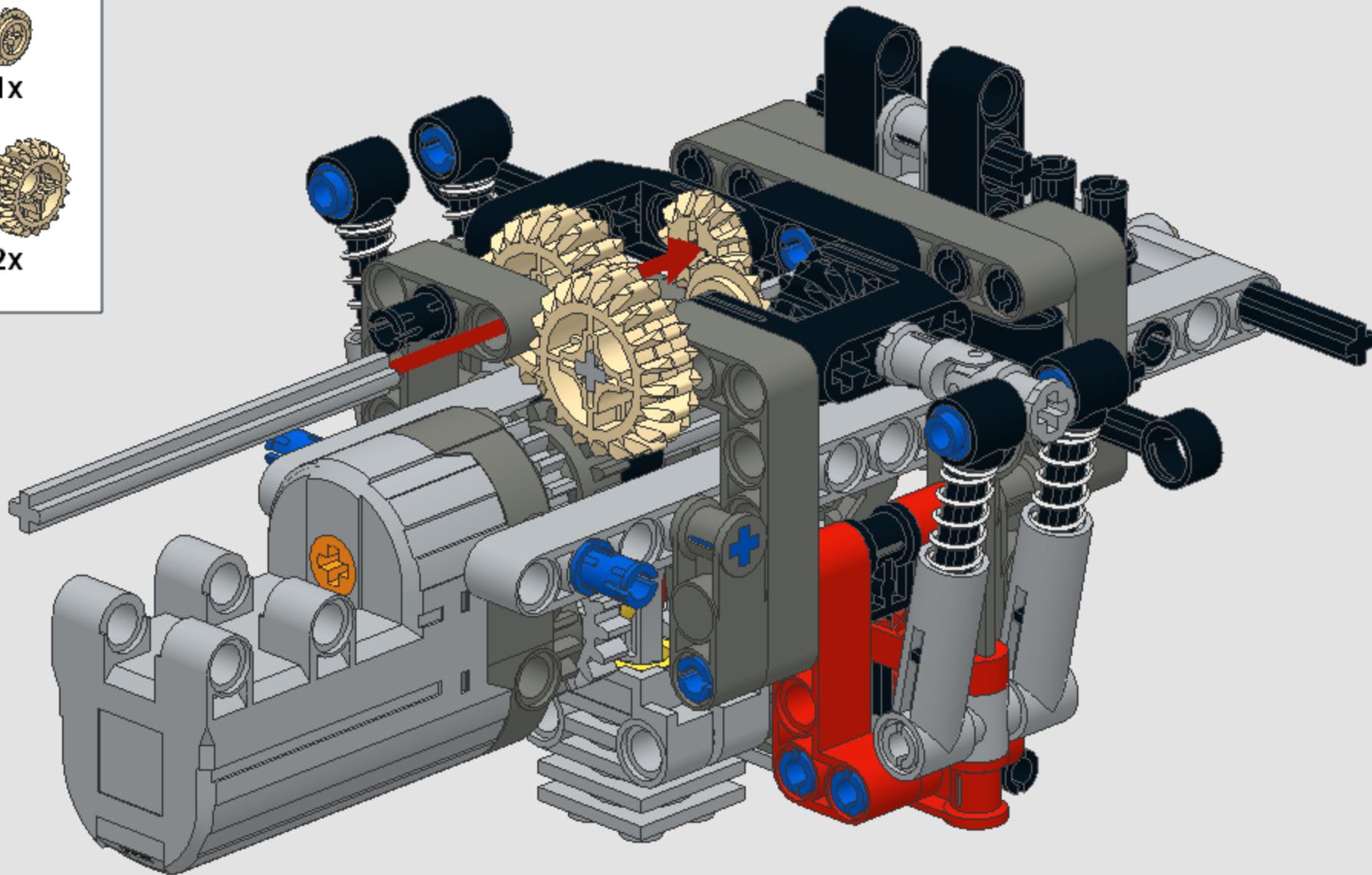
Shift the black axle 6 sideways
to make room for the two L-beams.

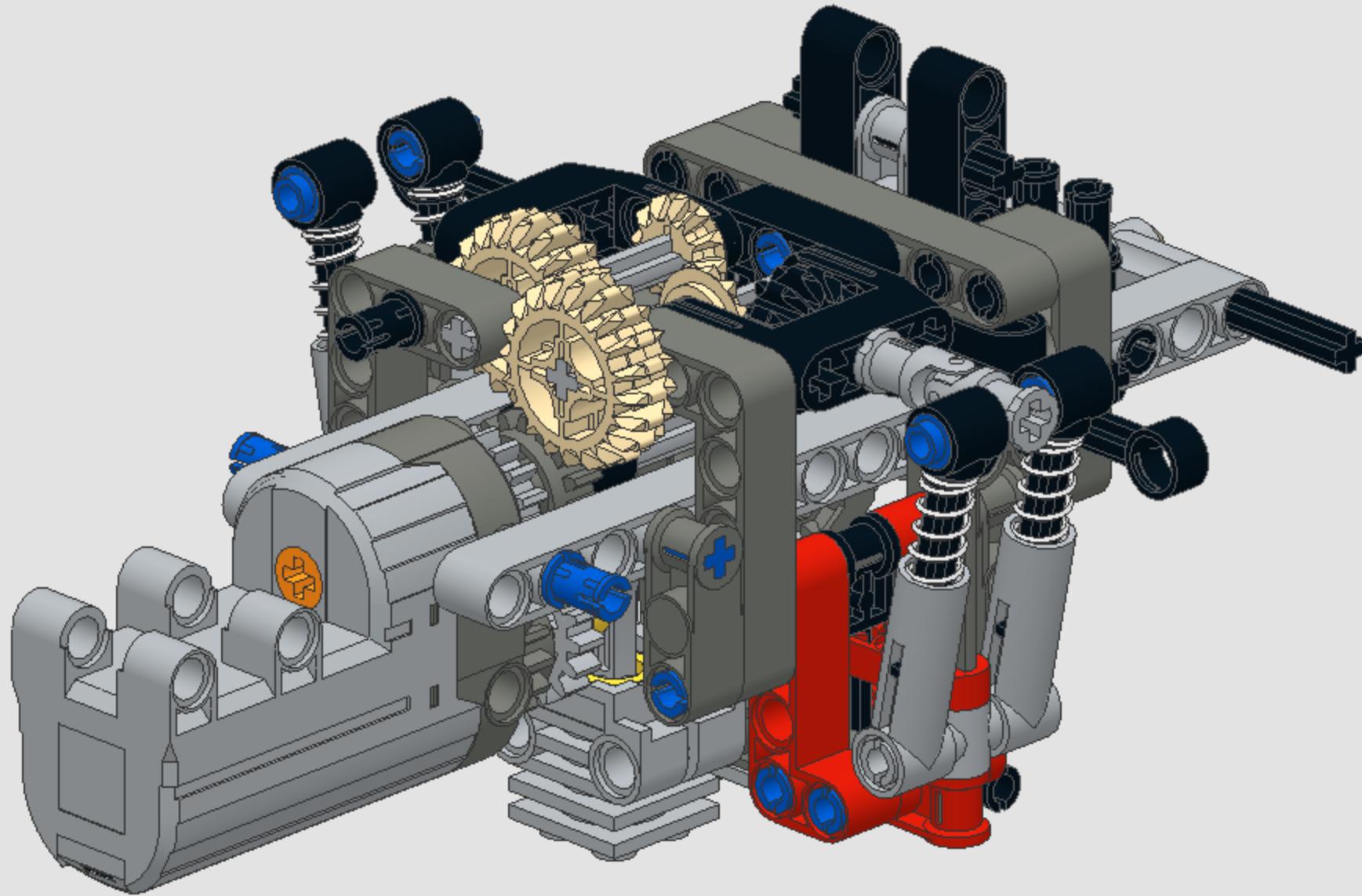


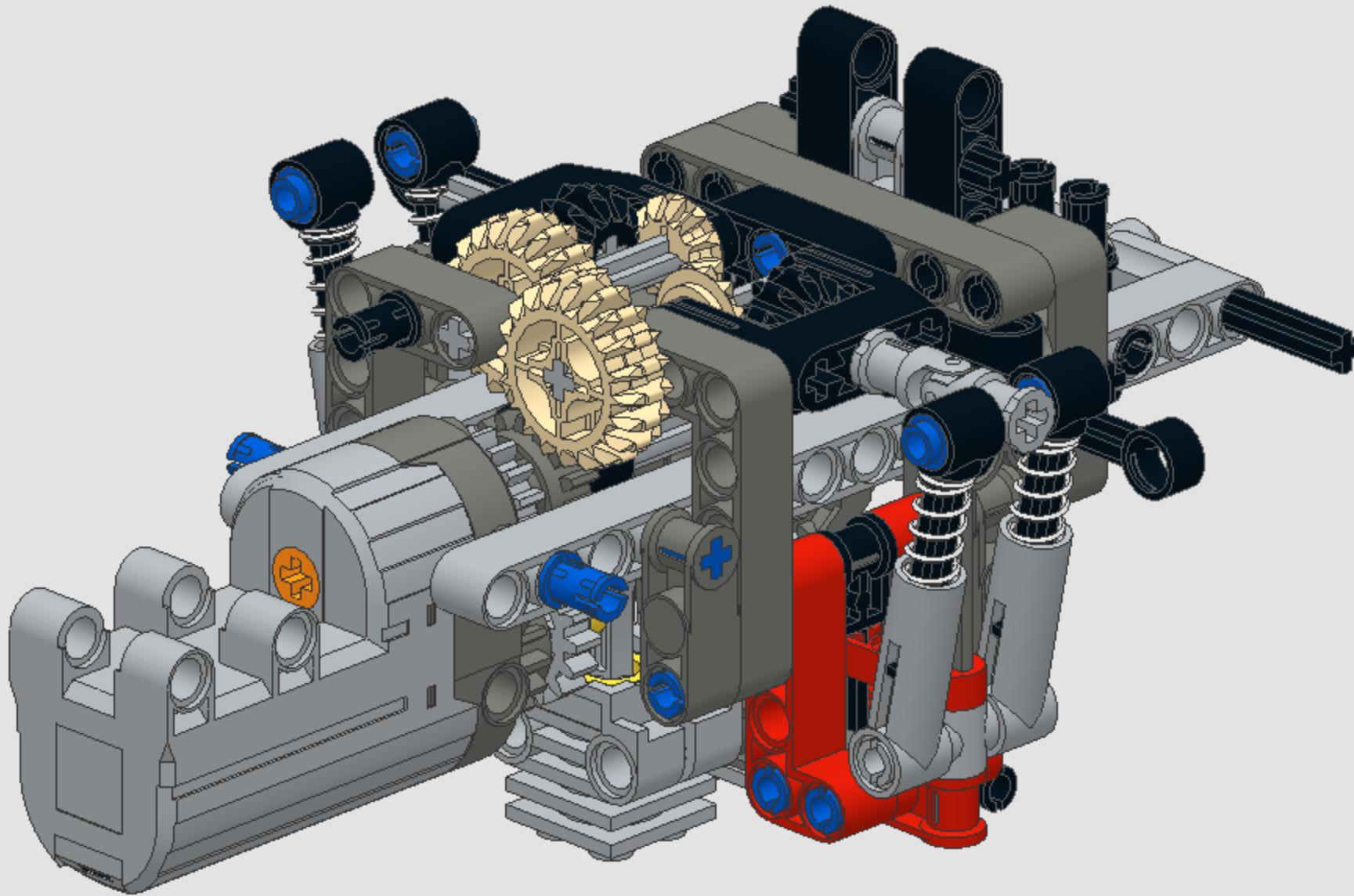
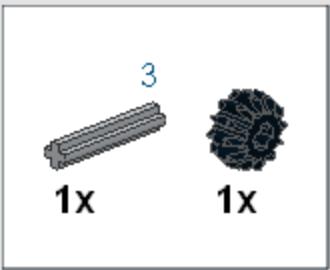


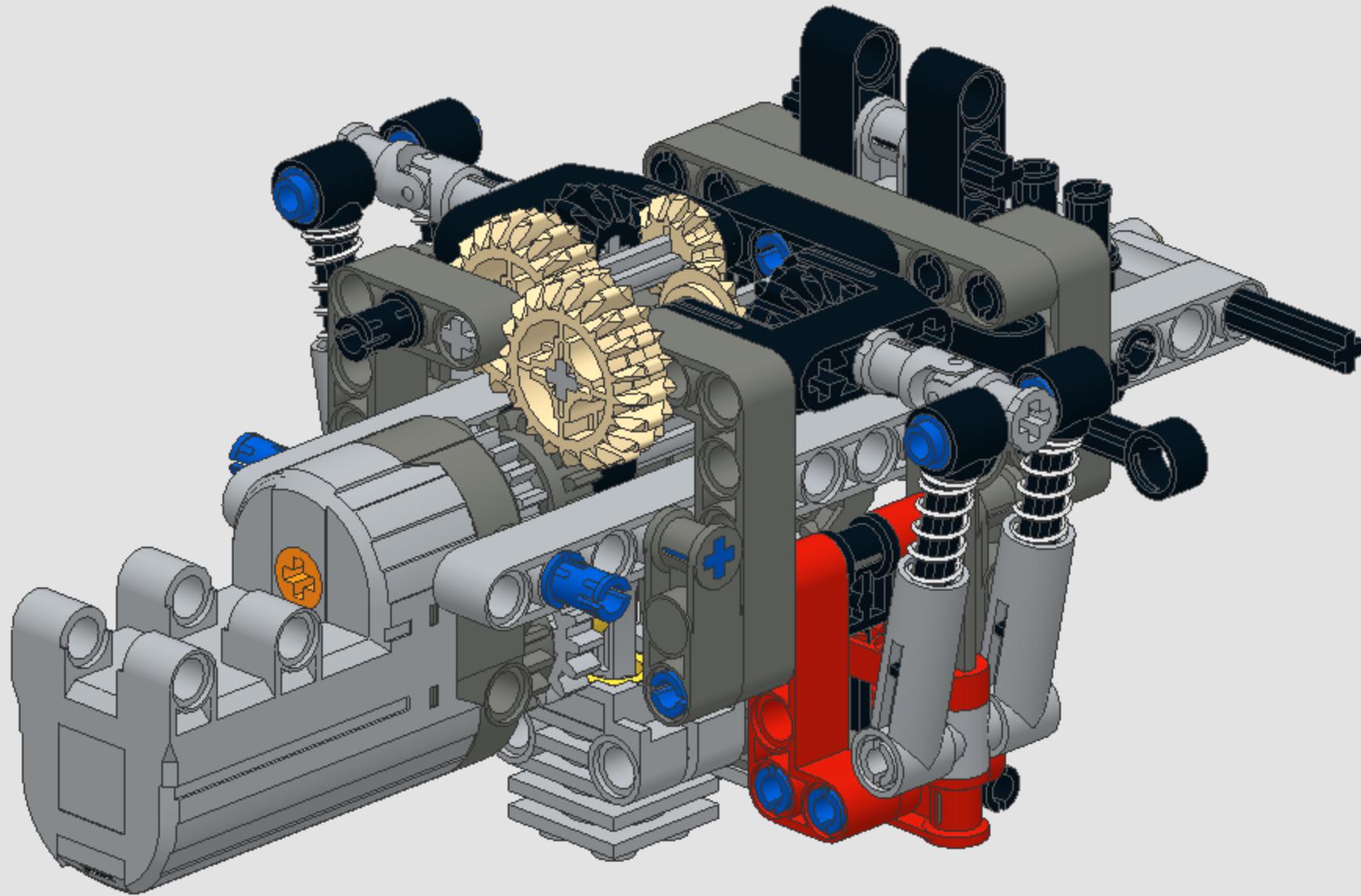
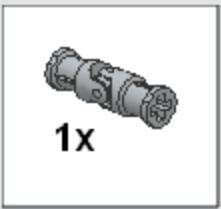


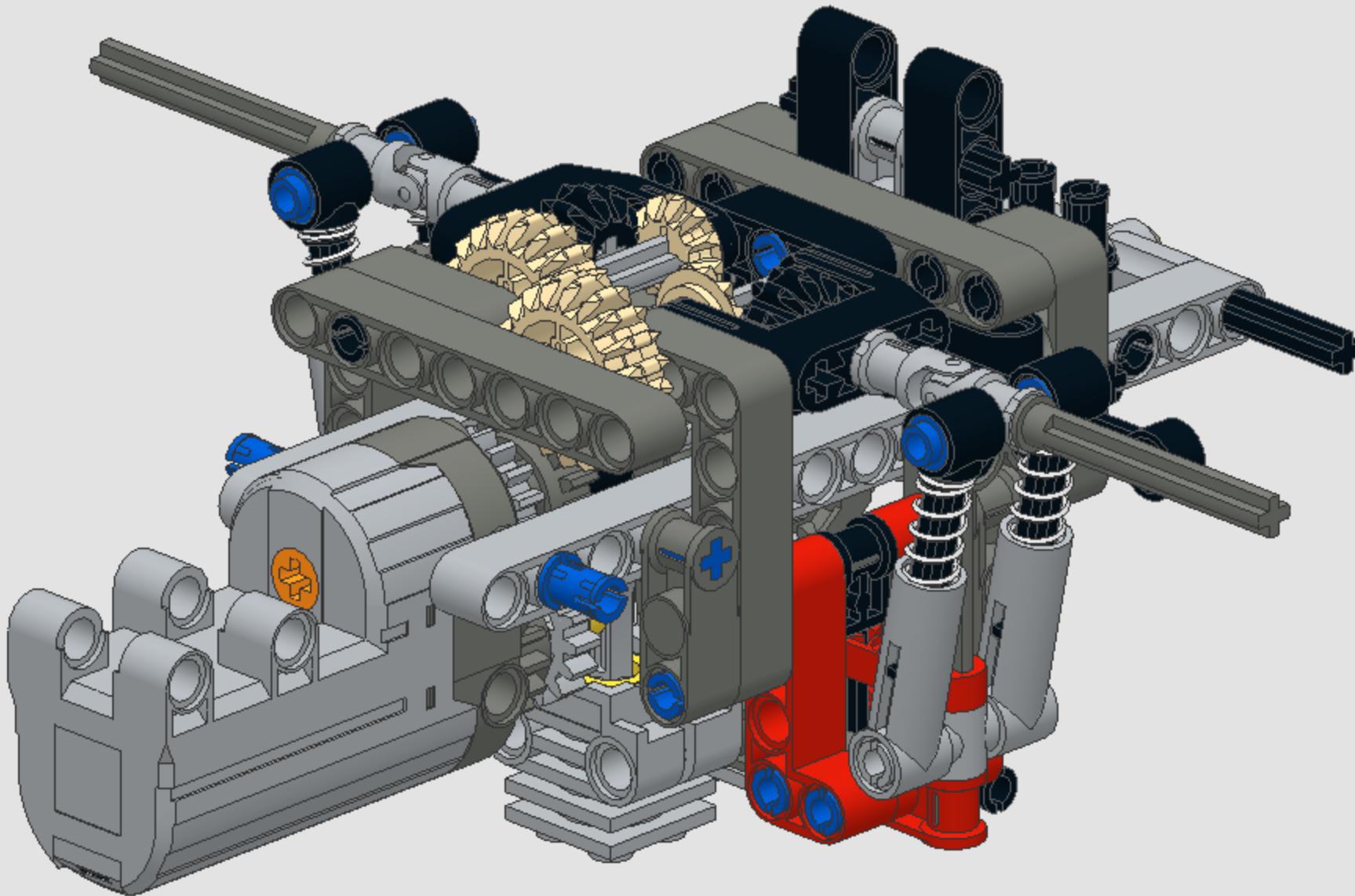
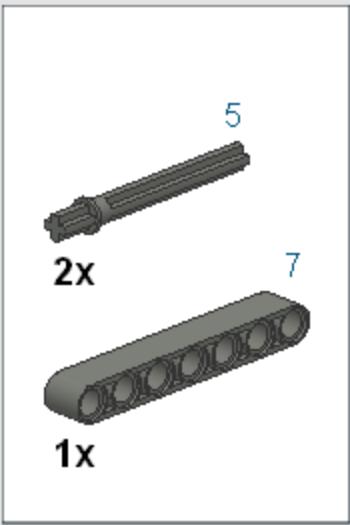


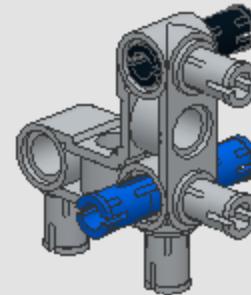
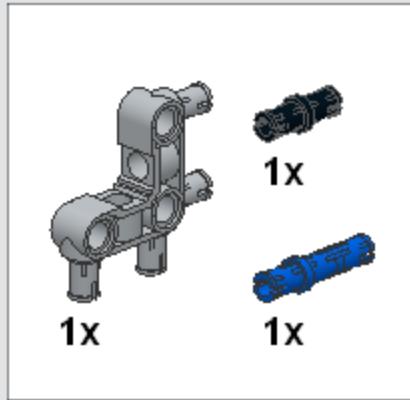
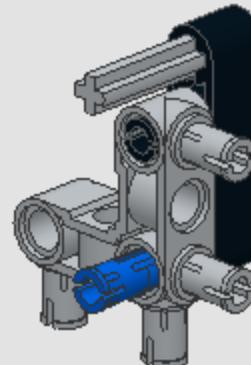
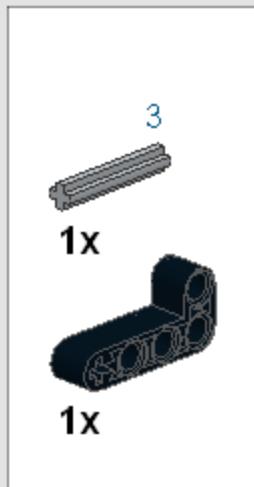
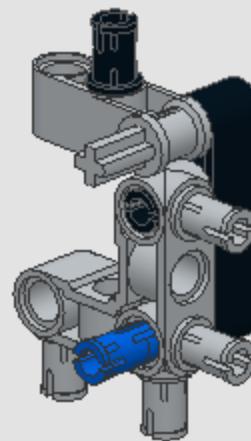
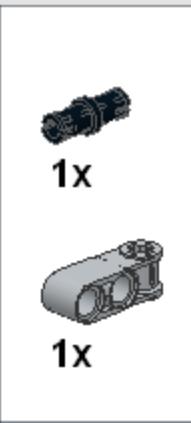
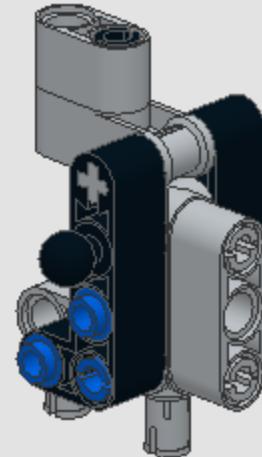
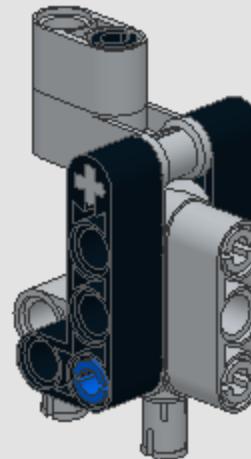
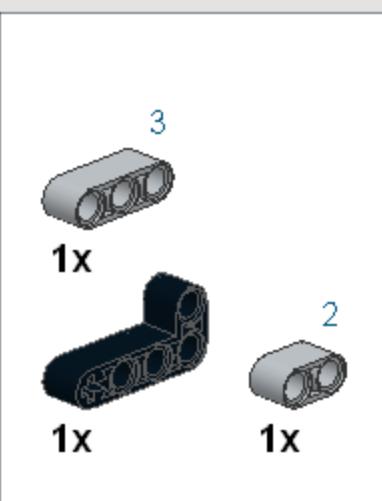
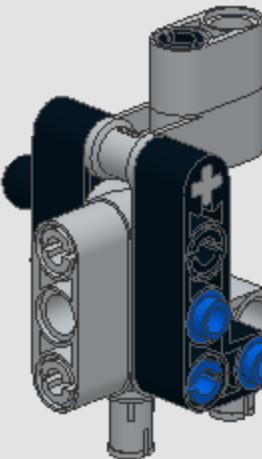


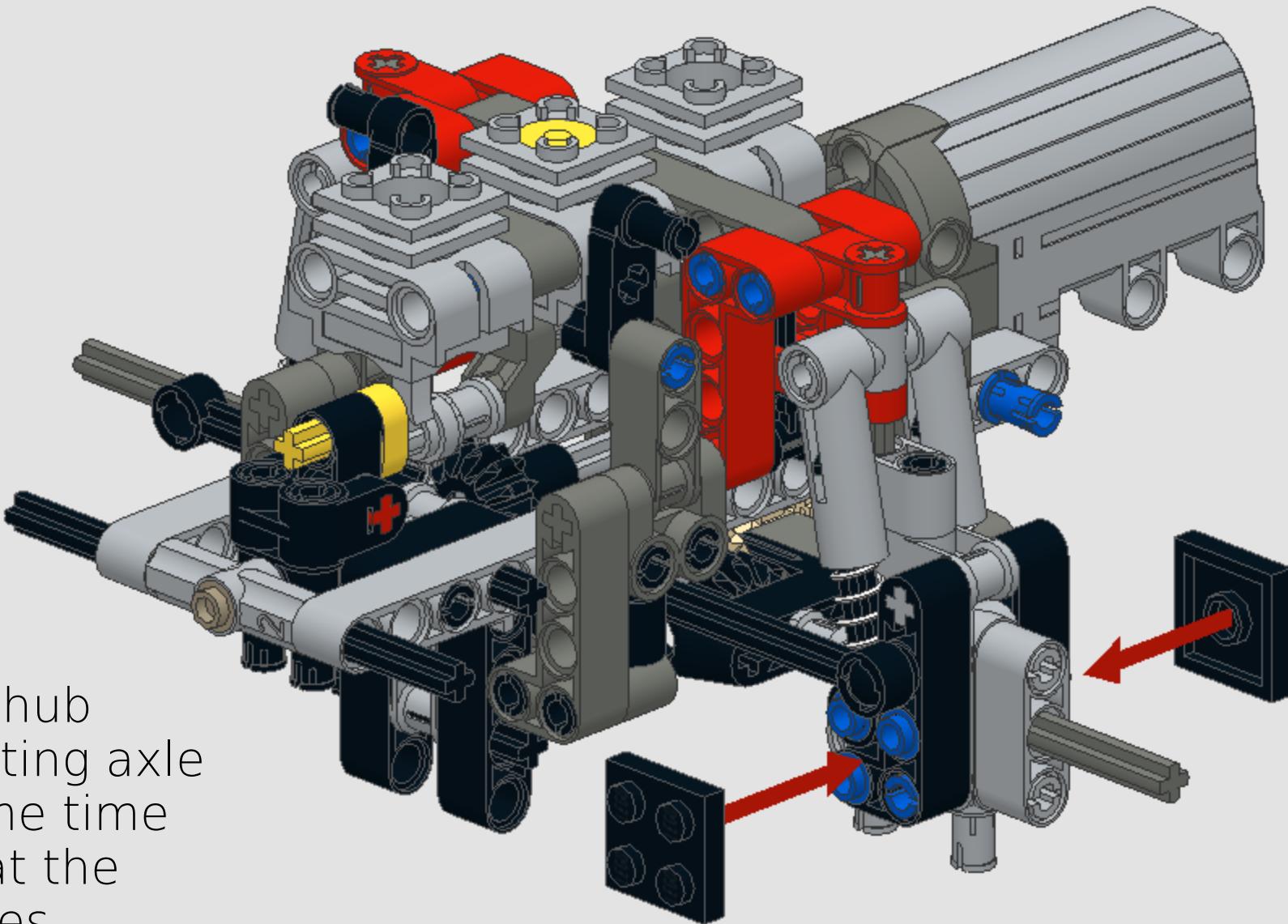




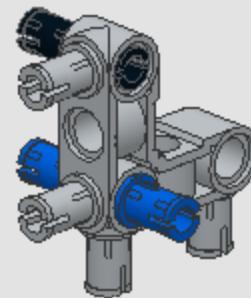
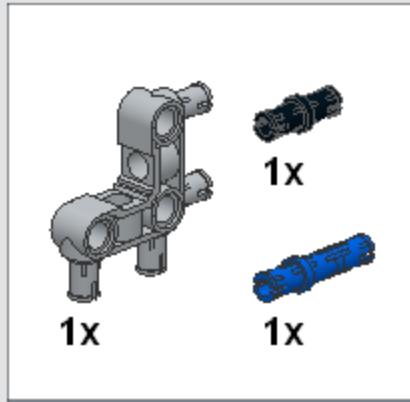
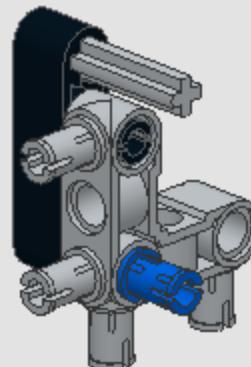
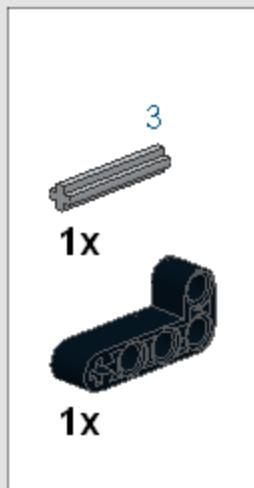
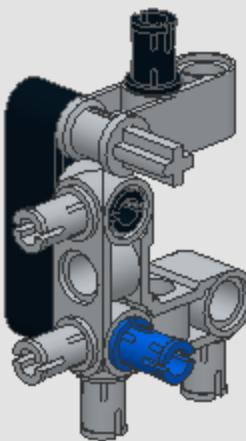
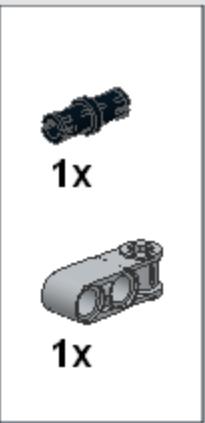
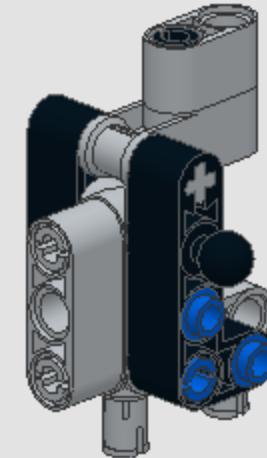
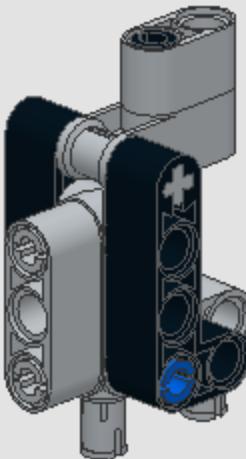
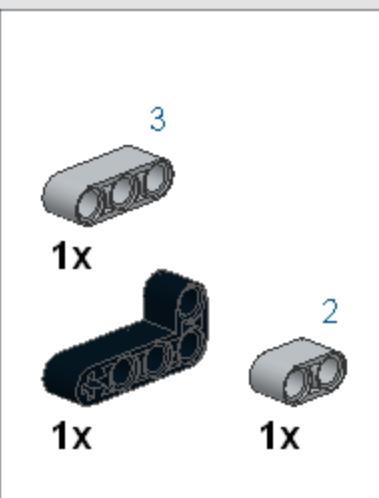
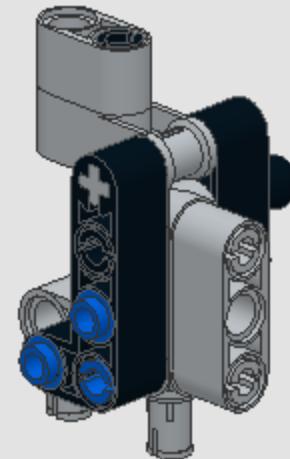




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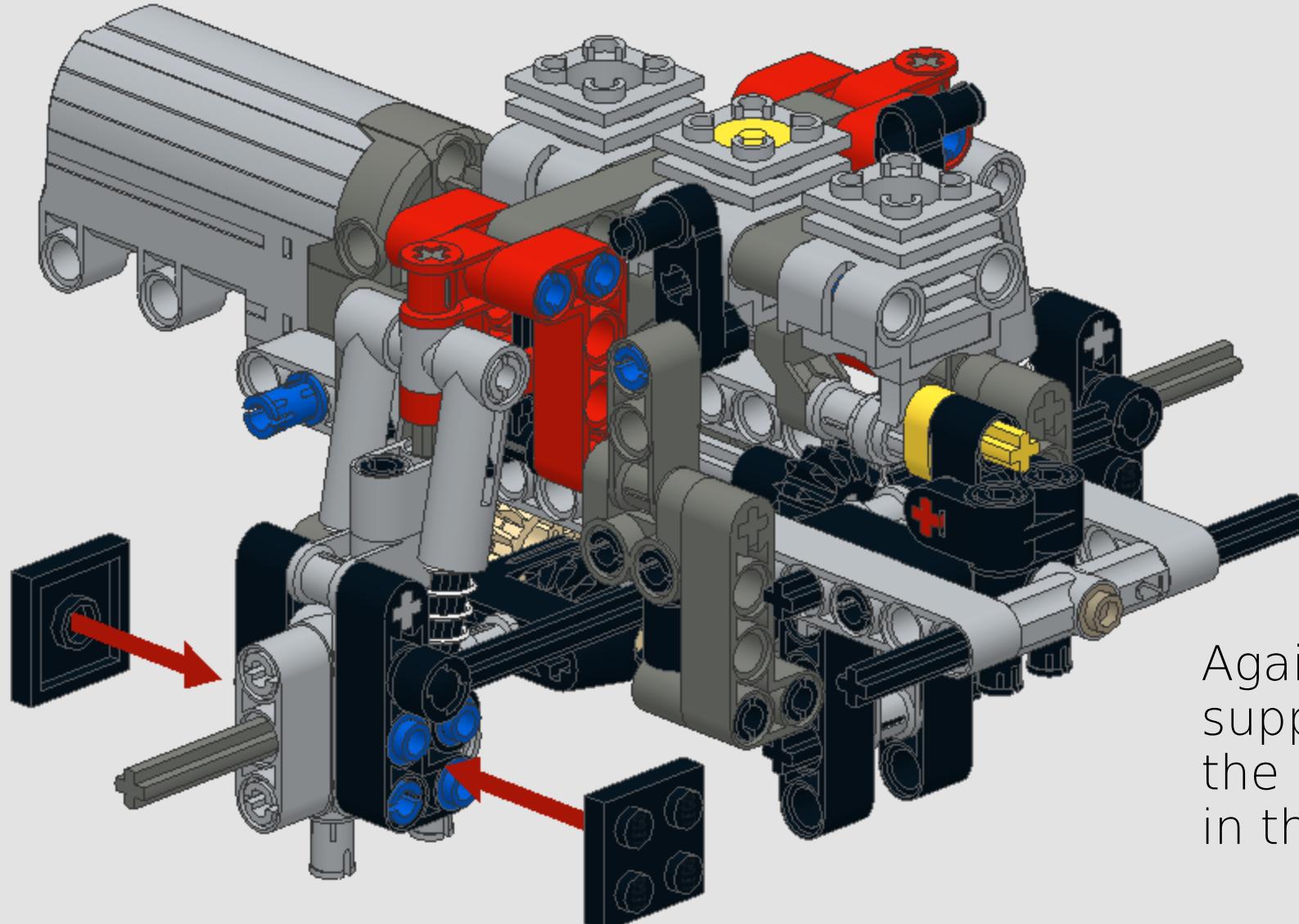


Slide the wheel hub over the supporting axle while at the same time making sure that the driving axle slides through the wheel hub.

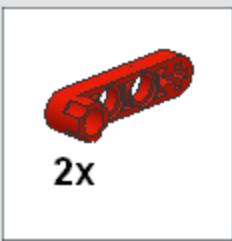
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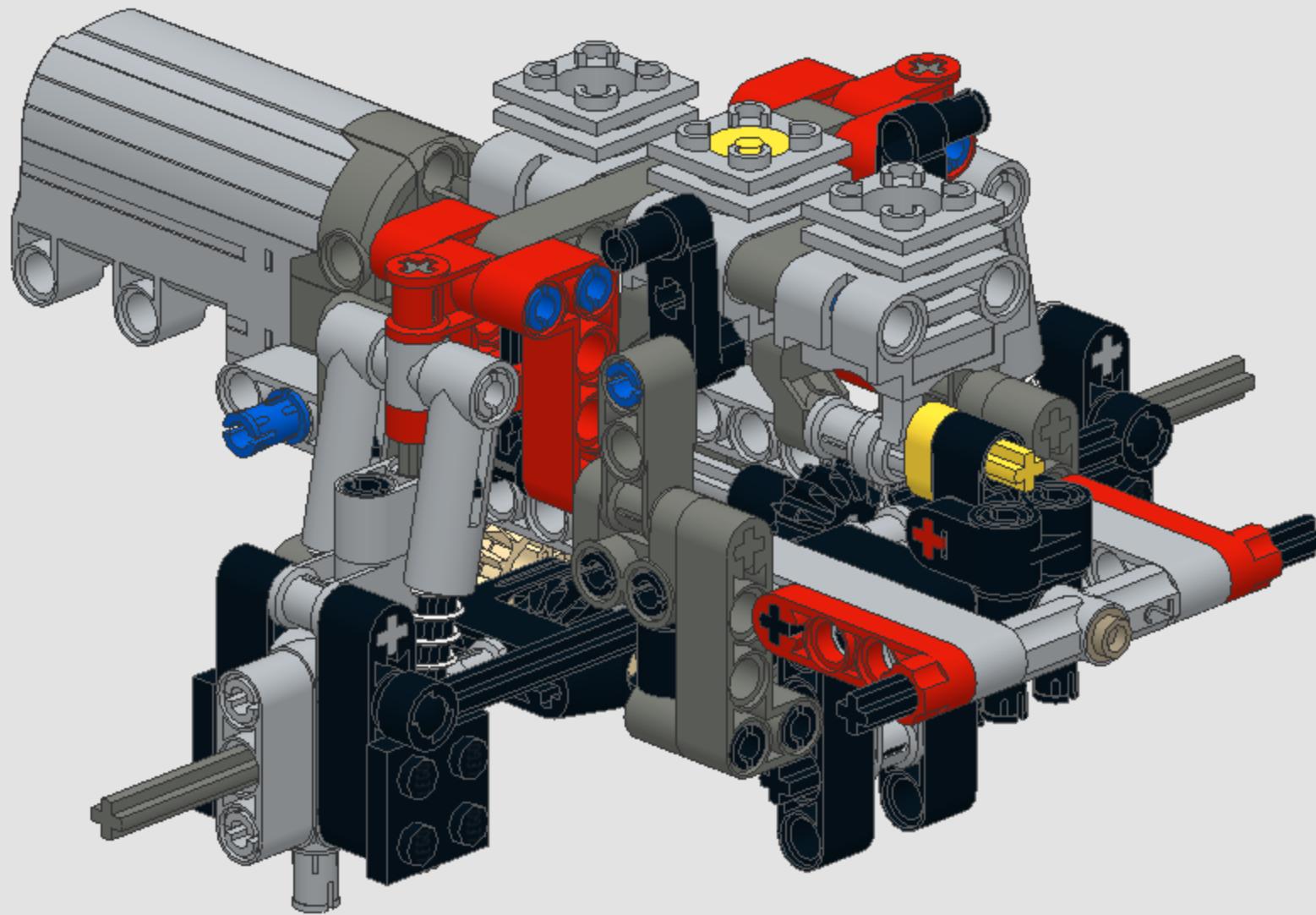
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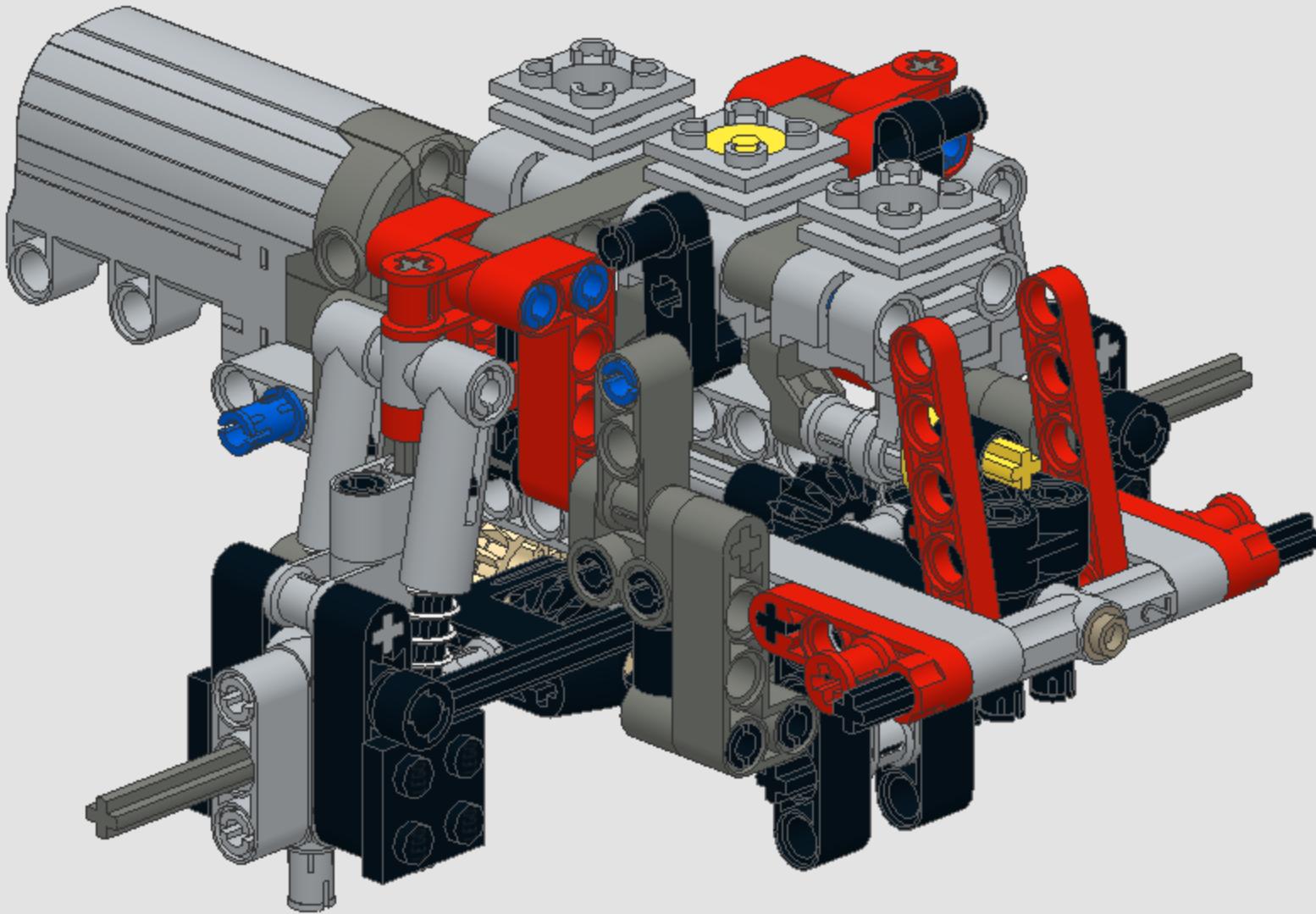
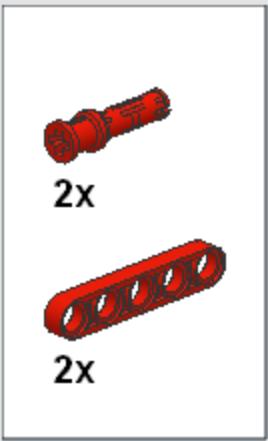


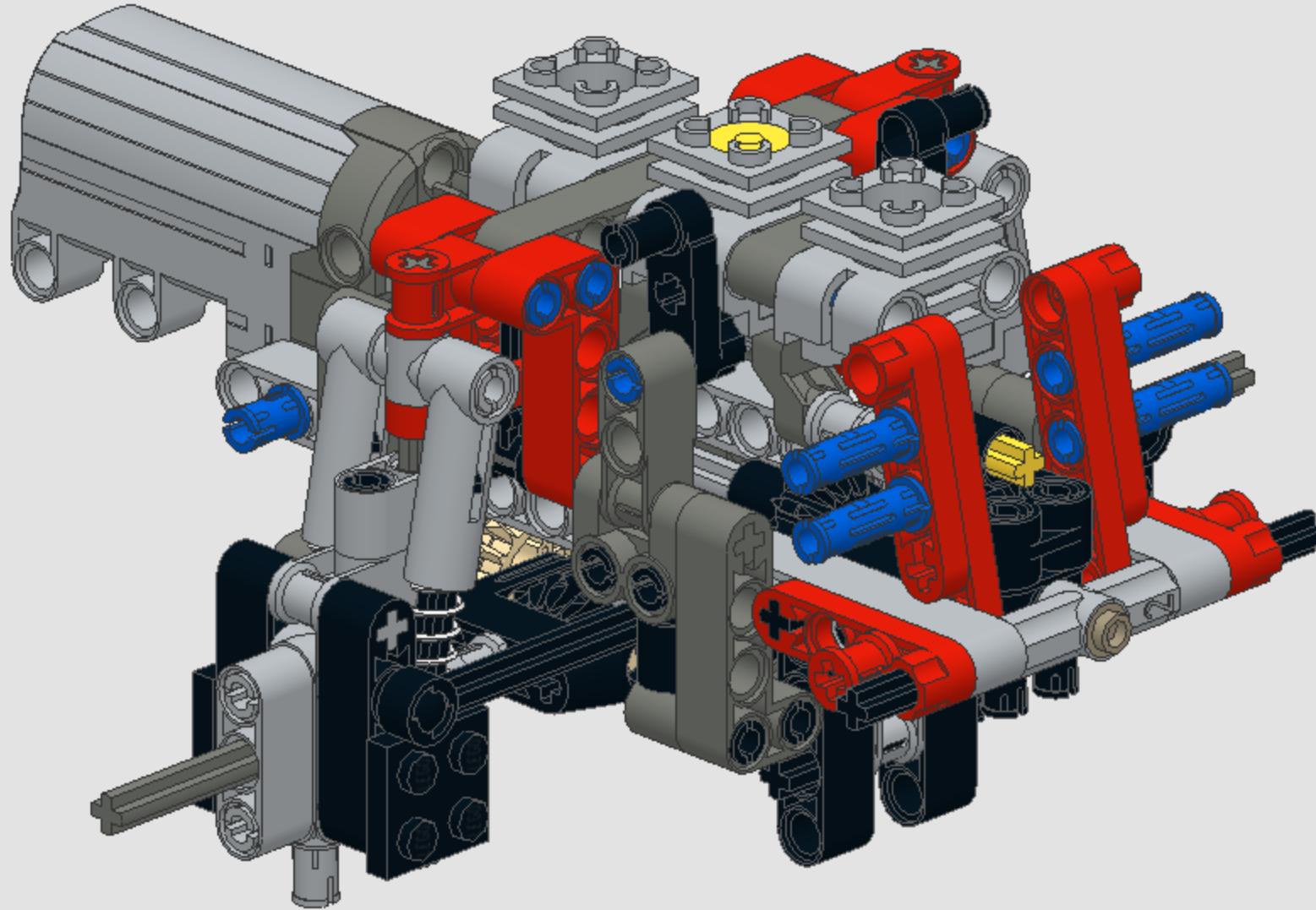
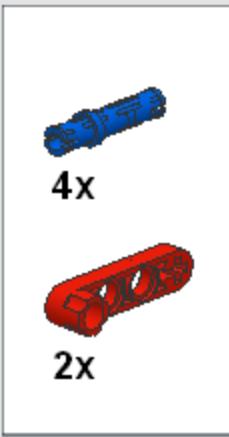
Again, make sure the supporting axle and the driving axle are in the right place.

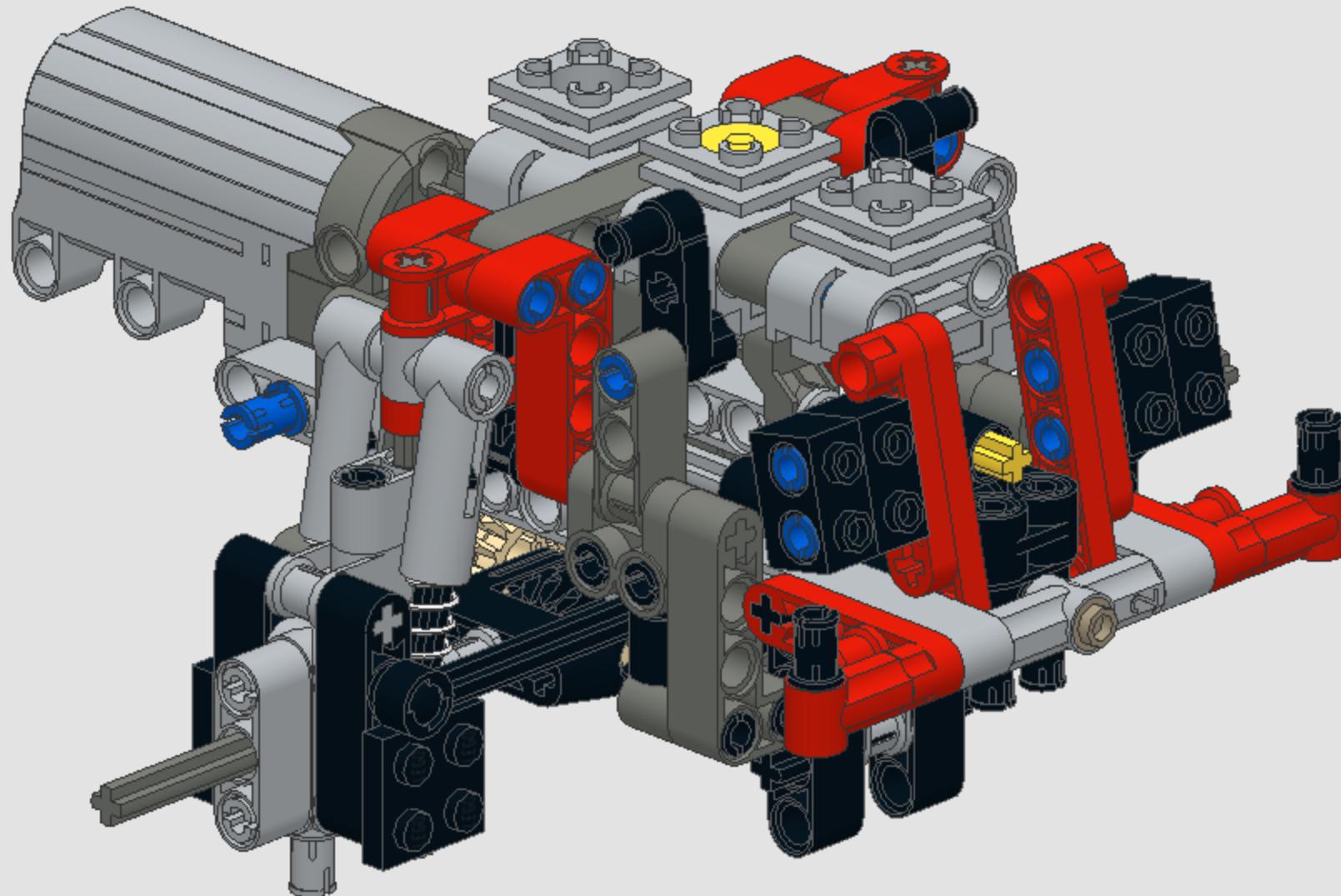
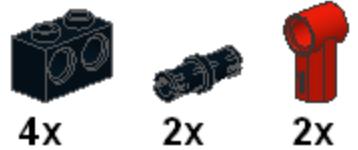


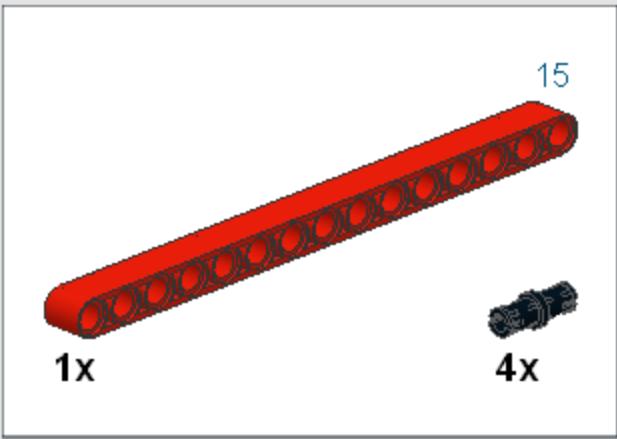
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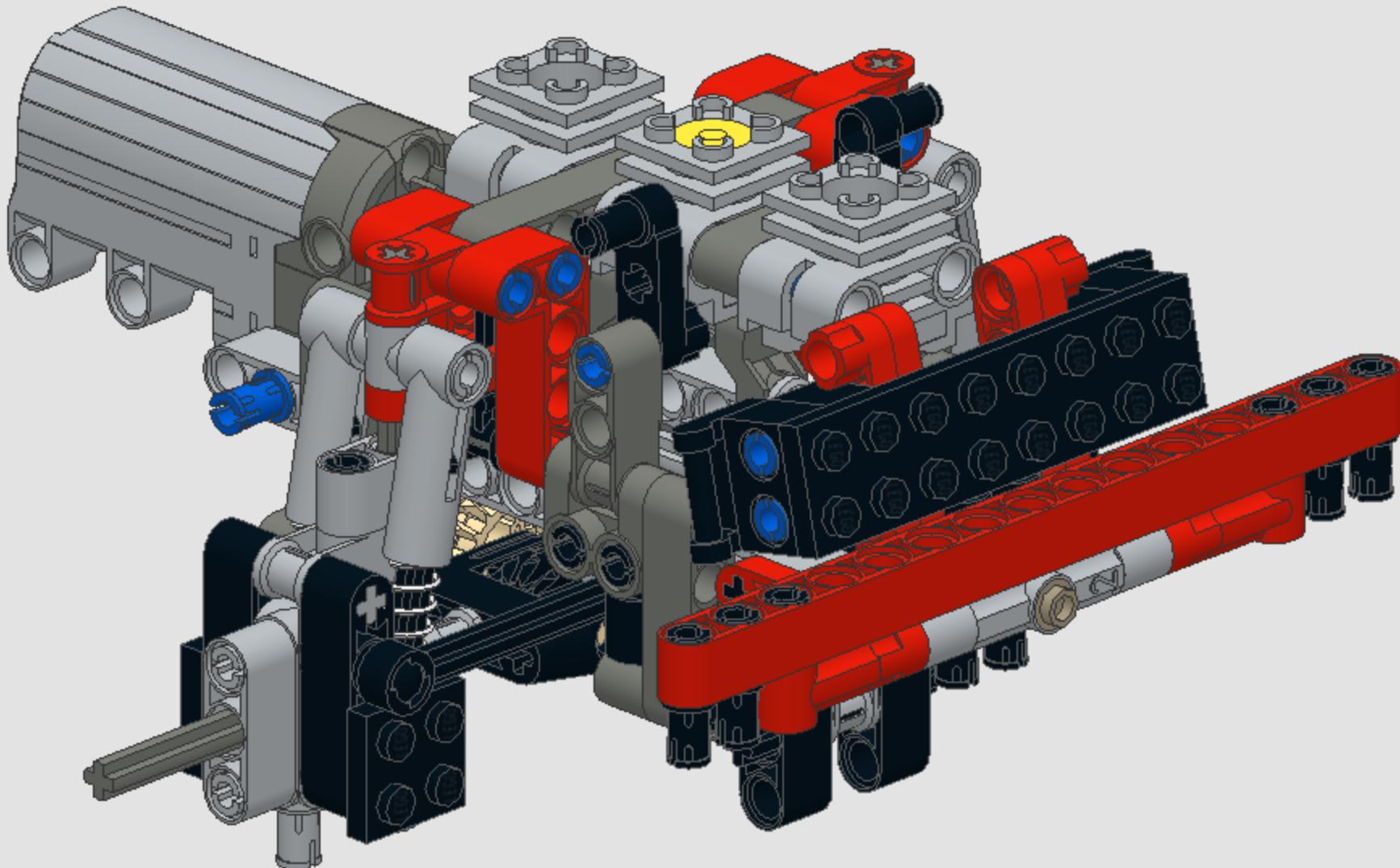
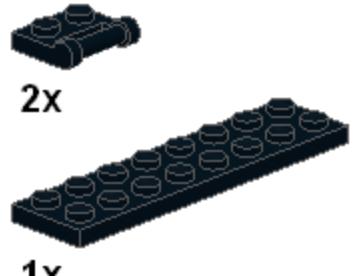


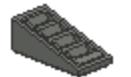




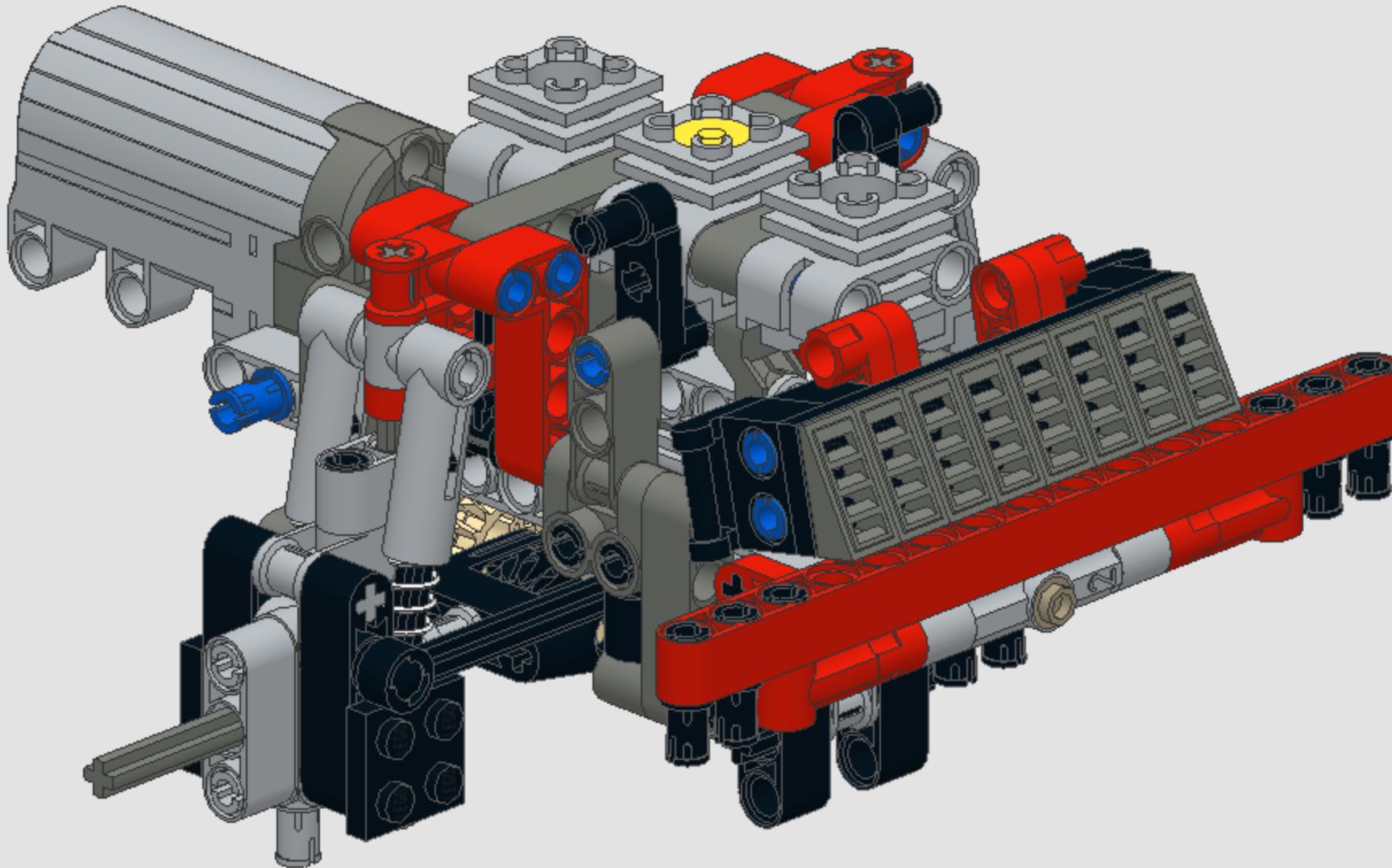




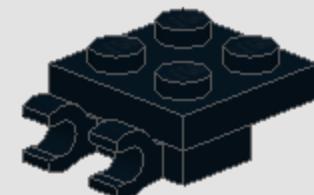
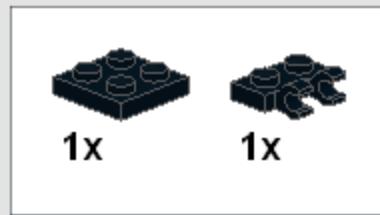




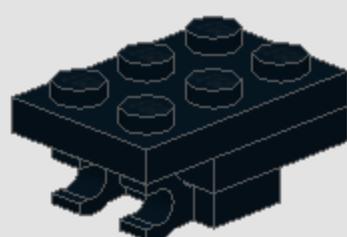
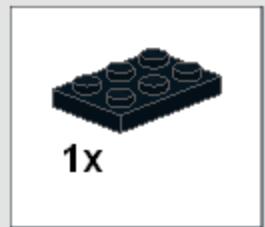
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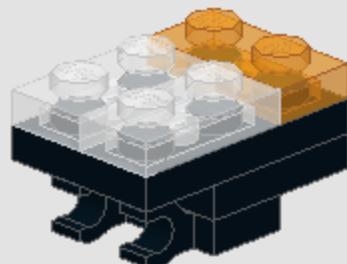
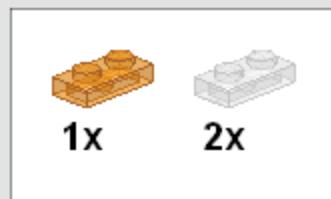
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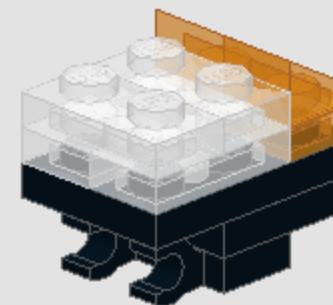
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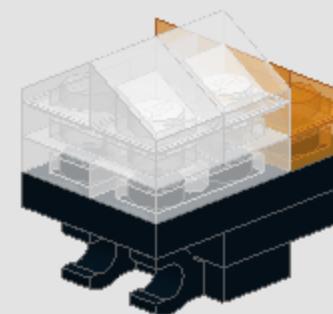
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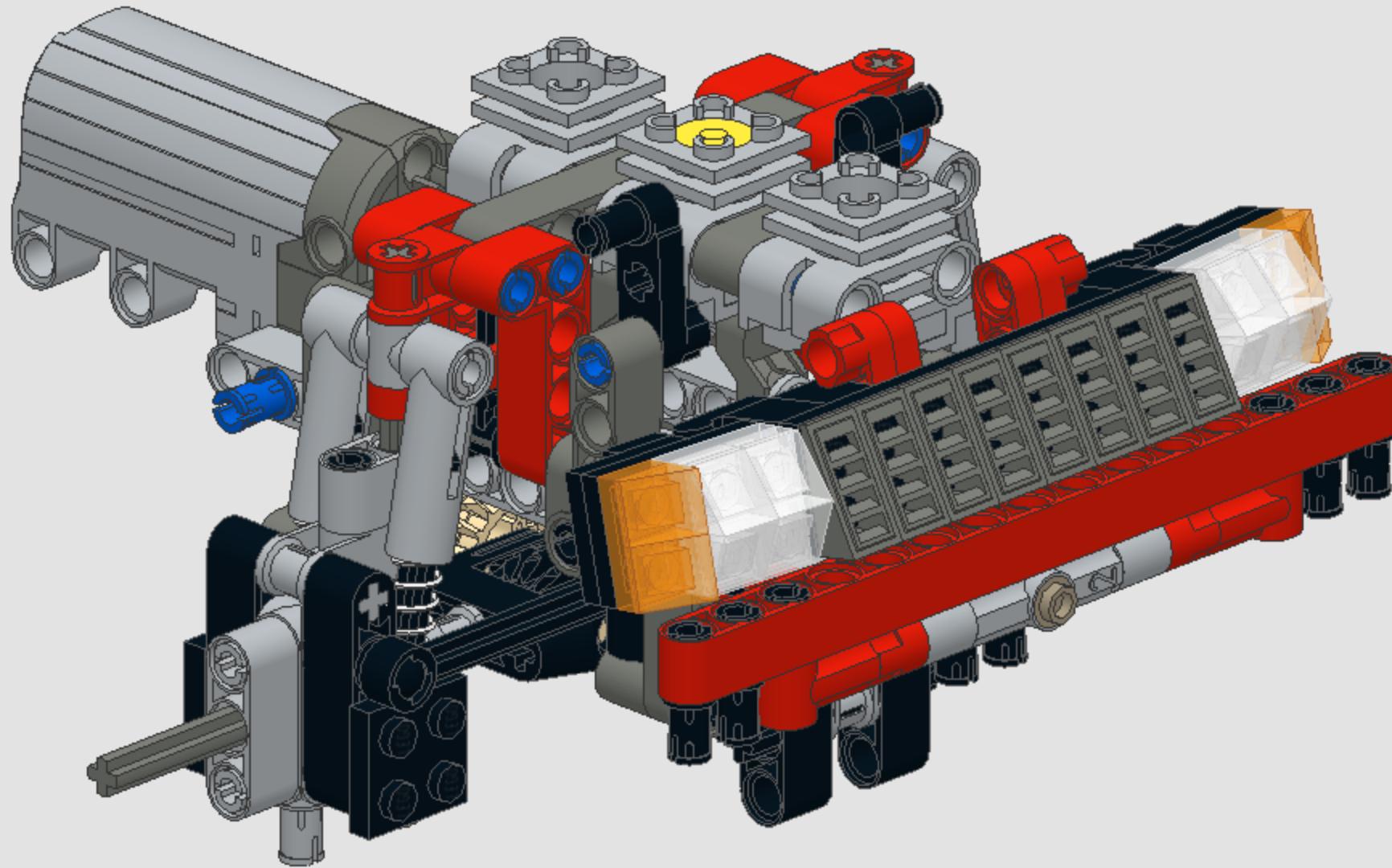


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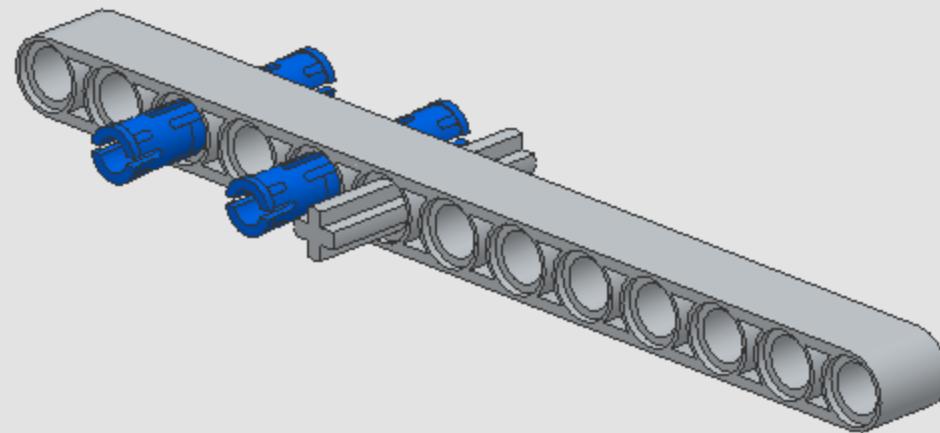
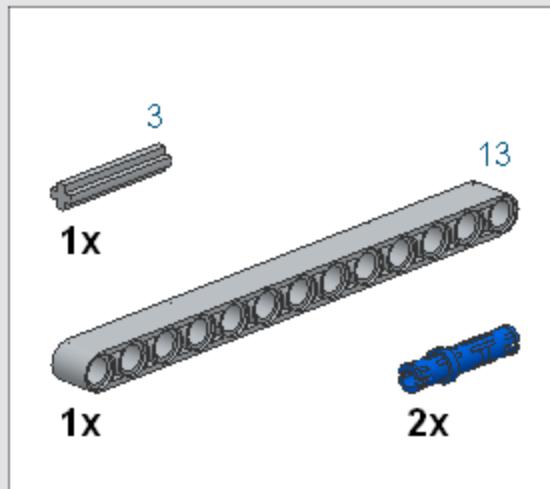


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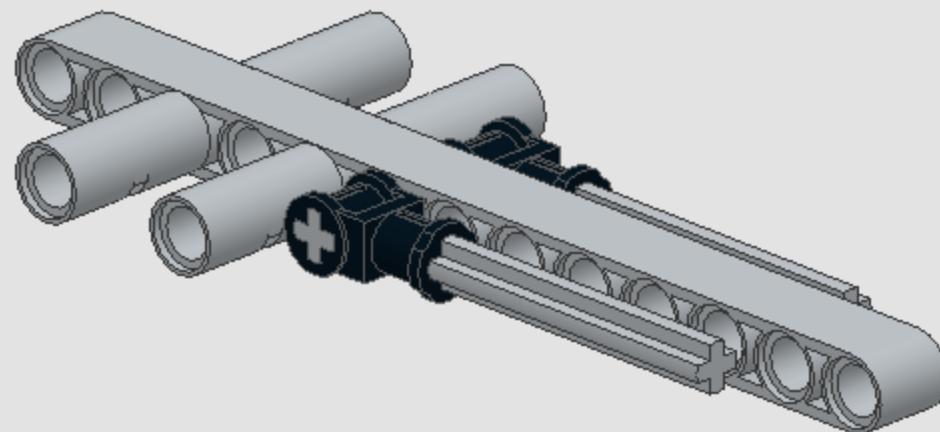
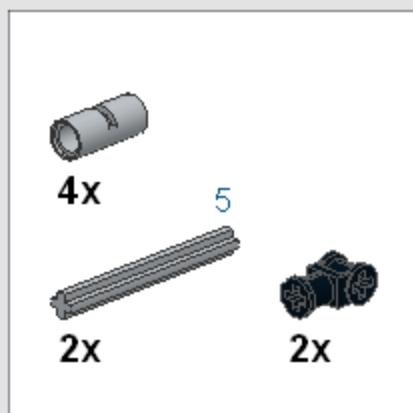
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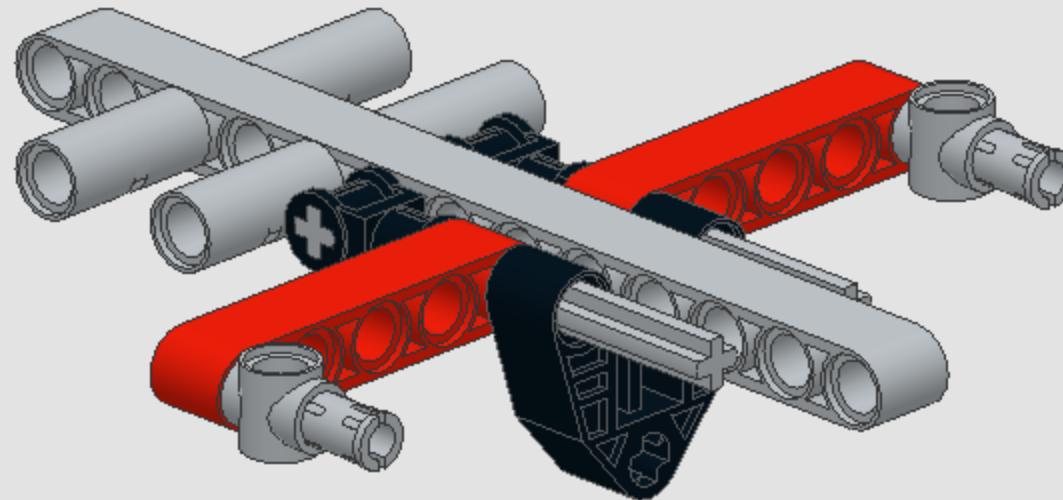
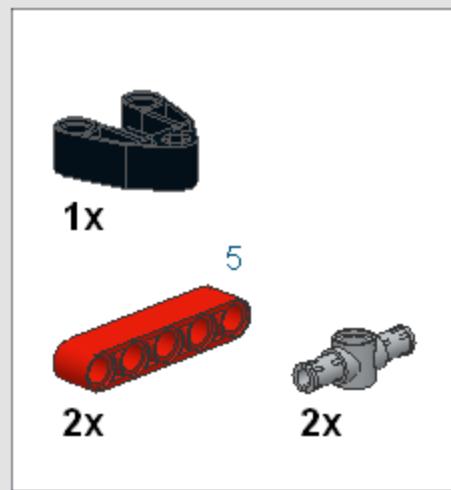
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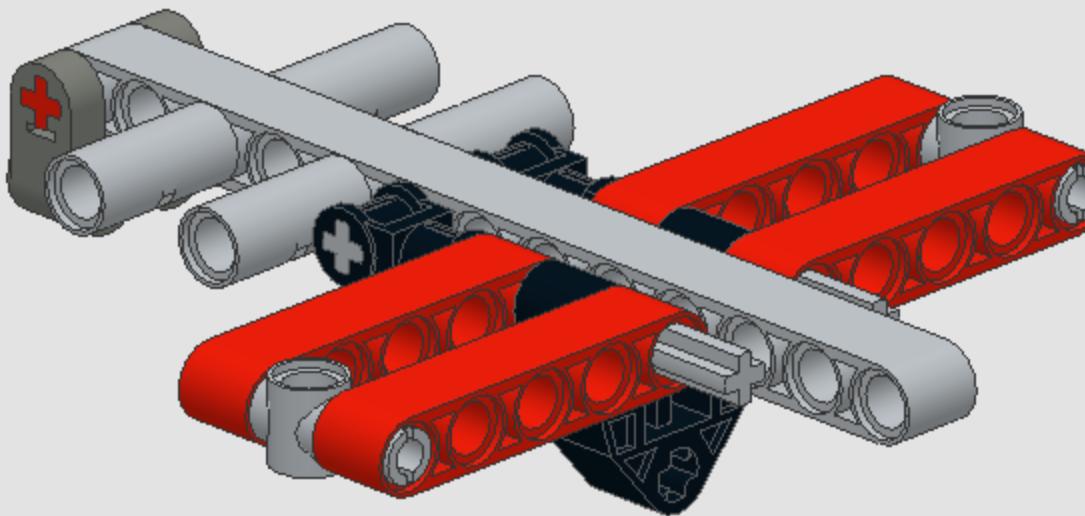
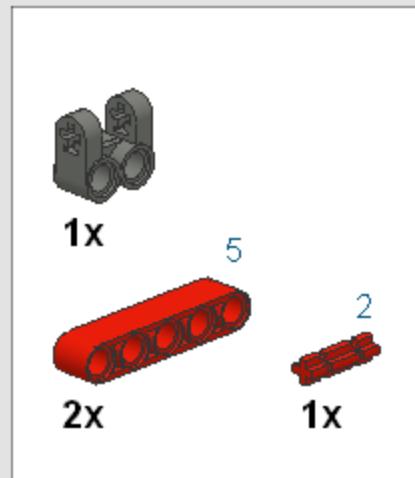
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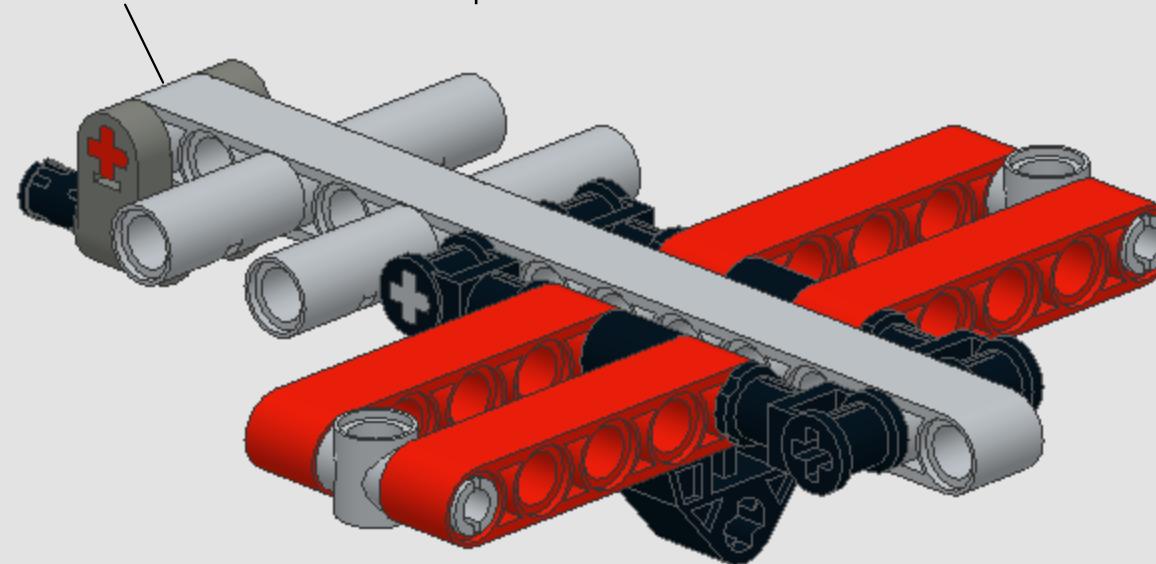
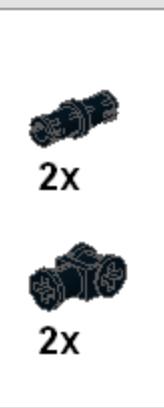


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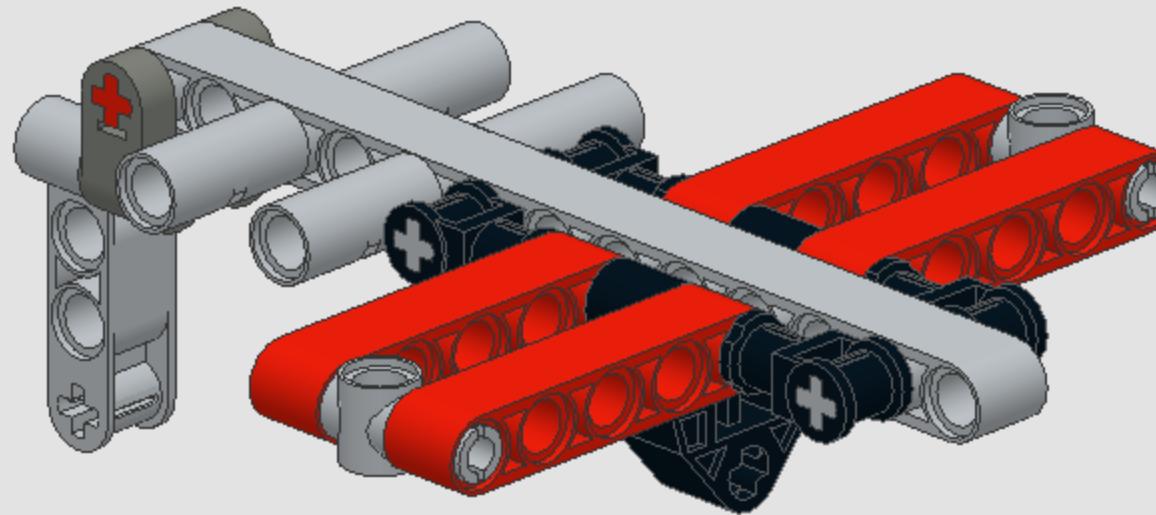
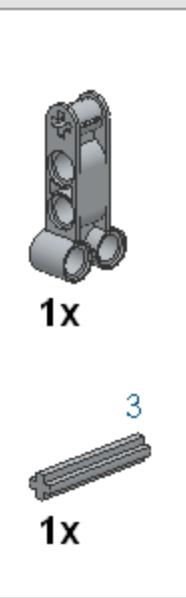


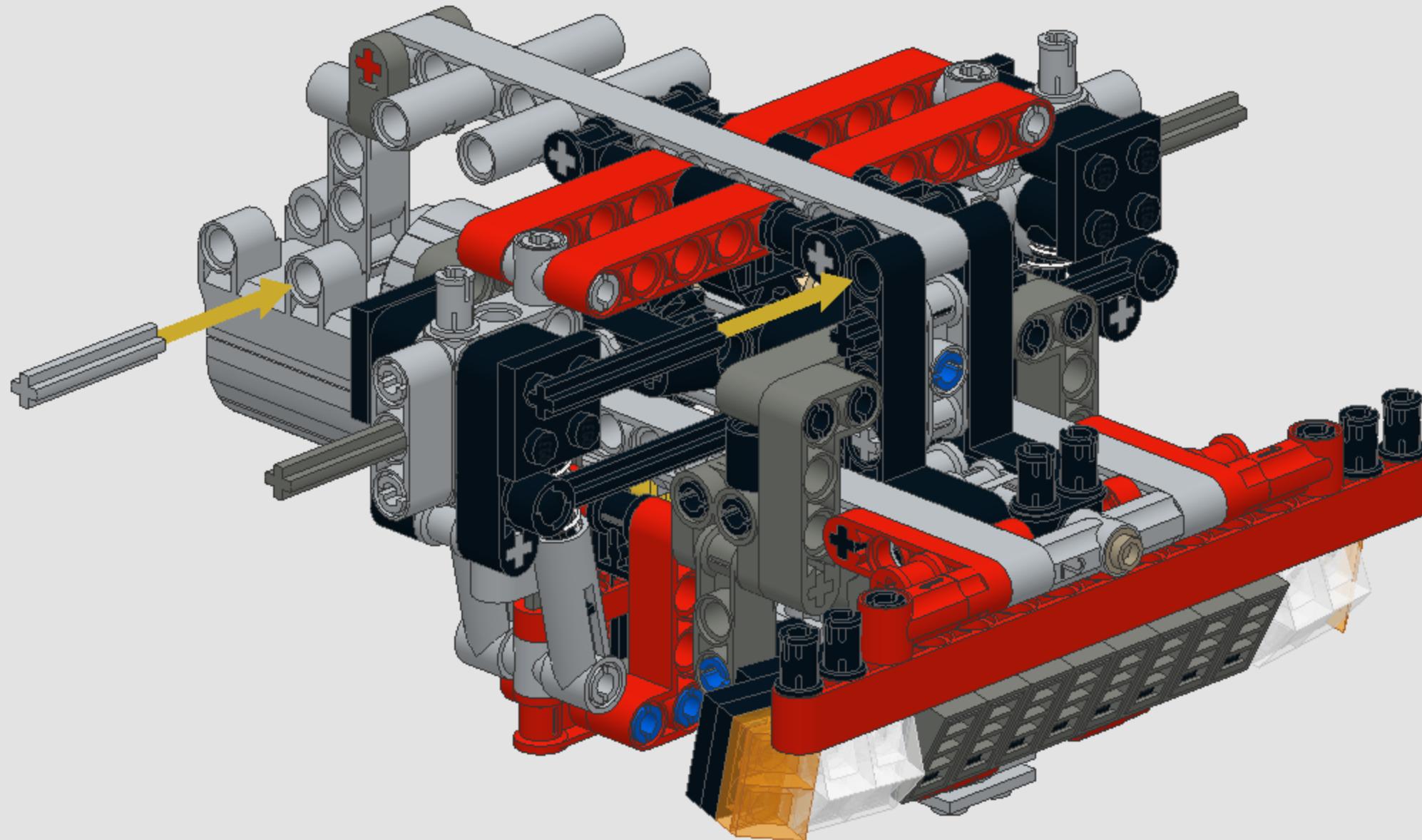
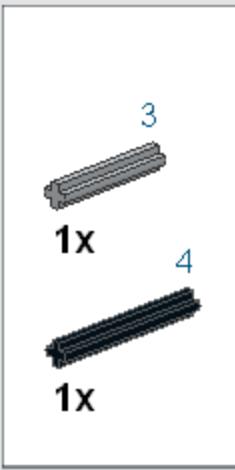
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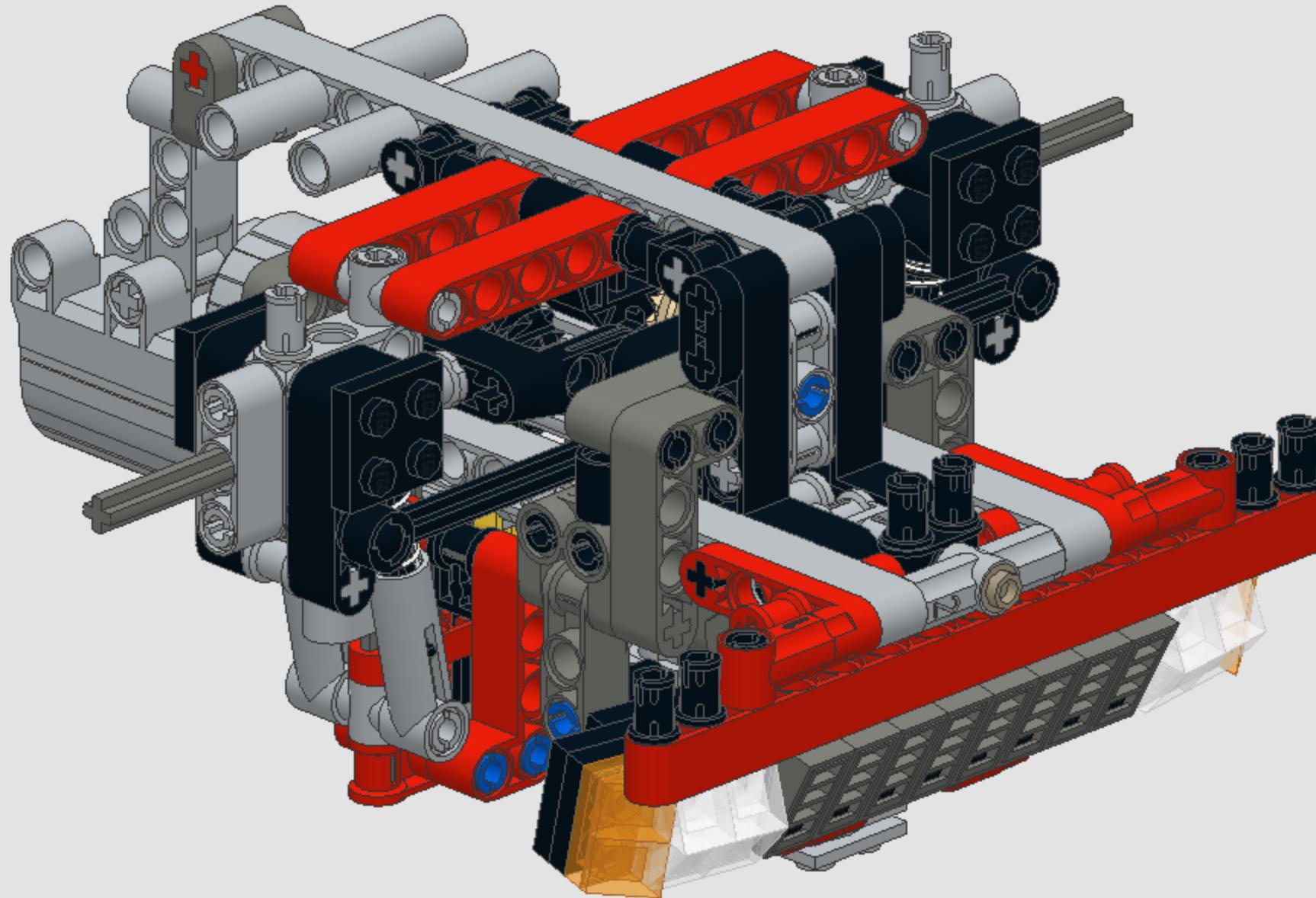
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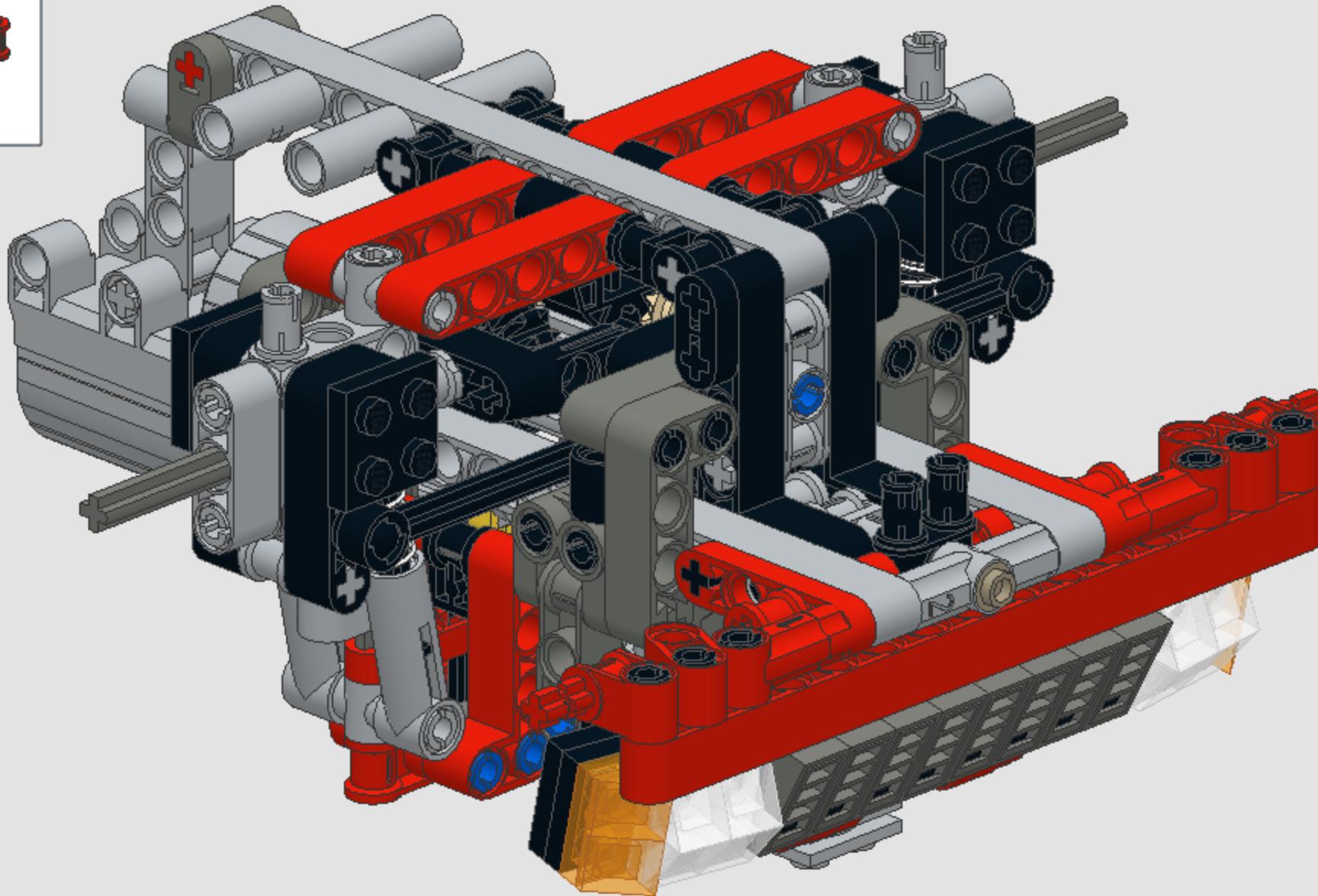
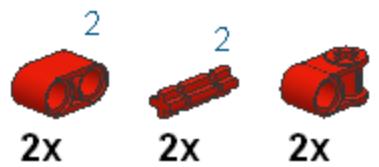


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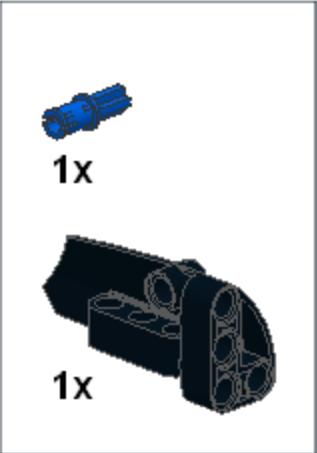




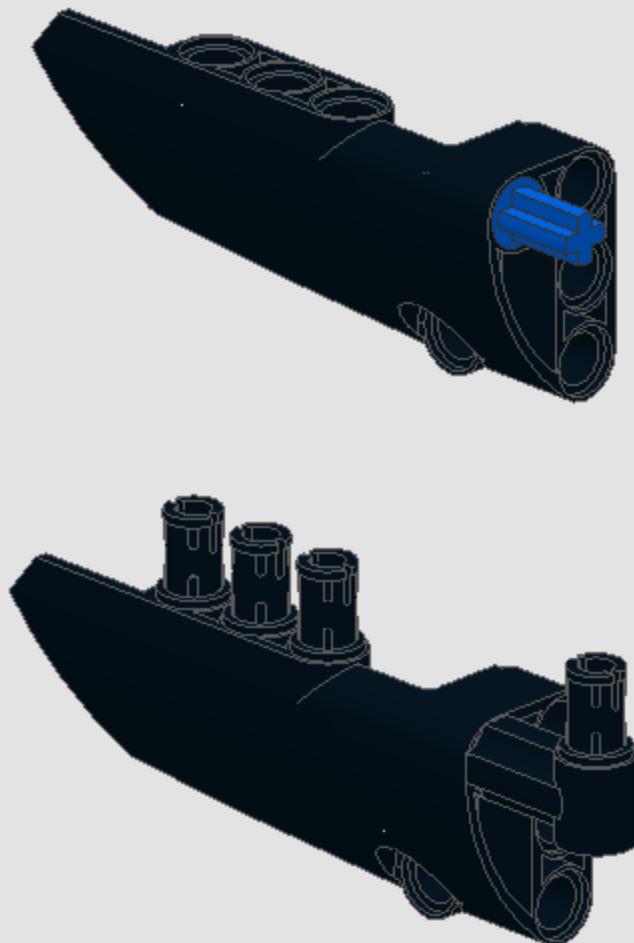




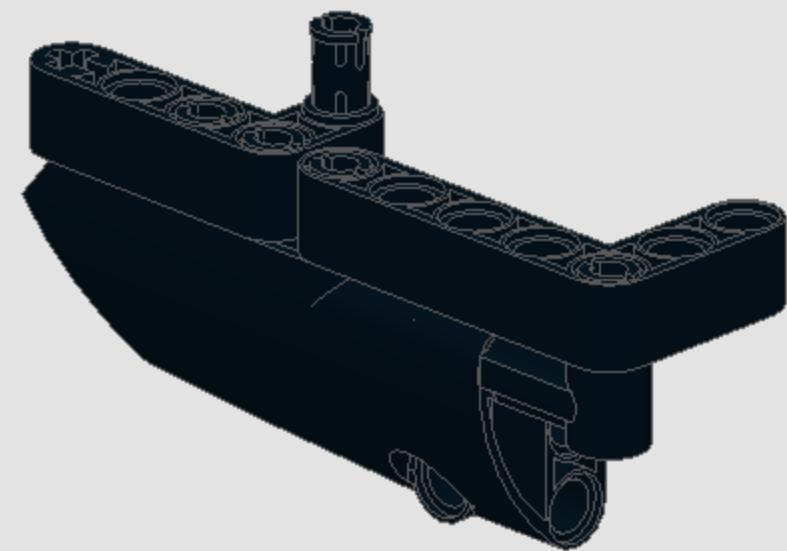
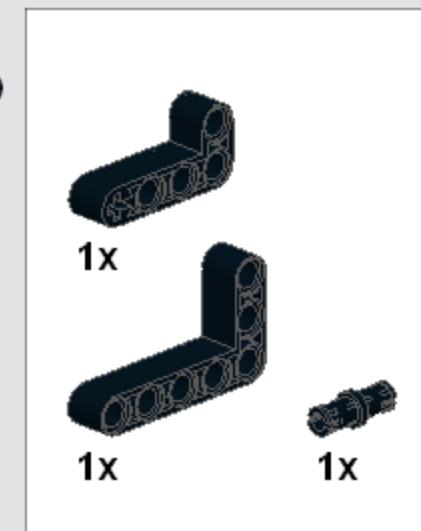
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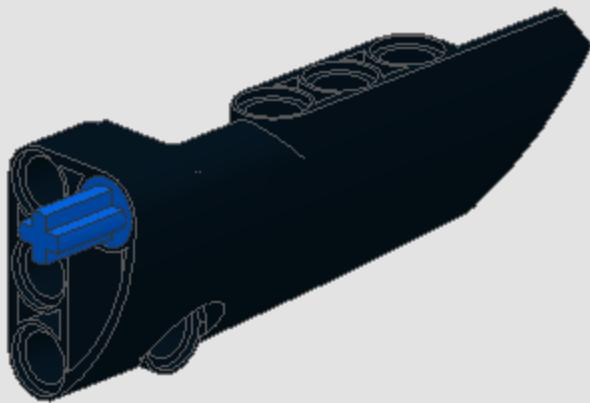
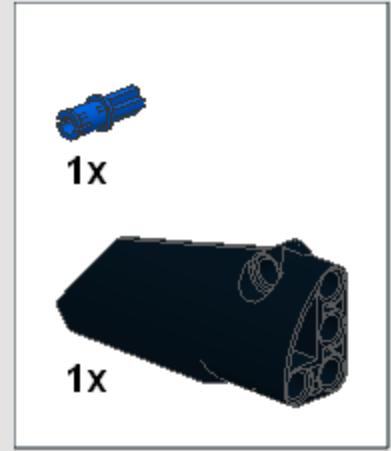
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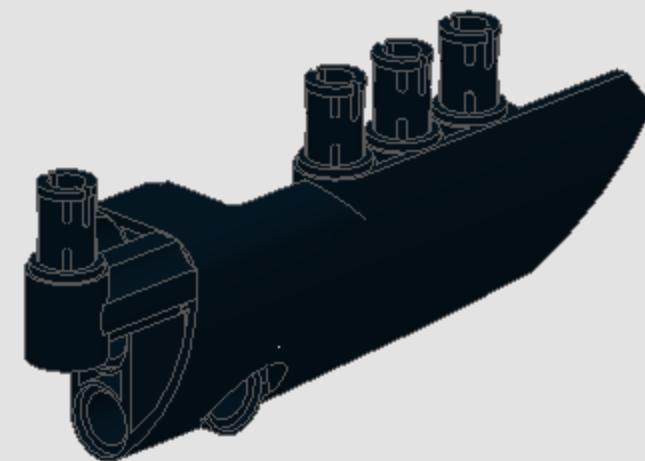
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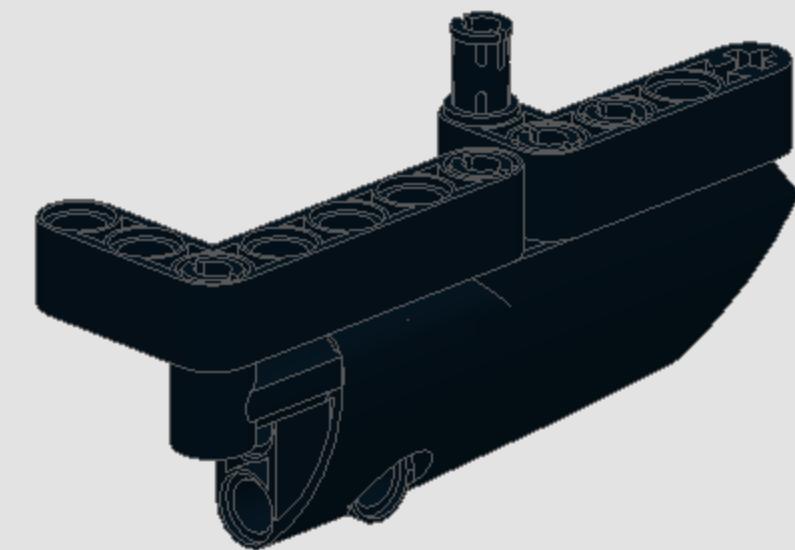
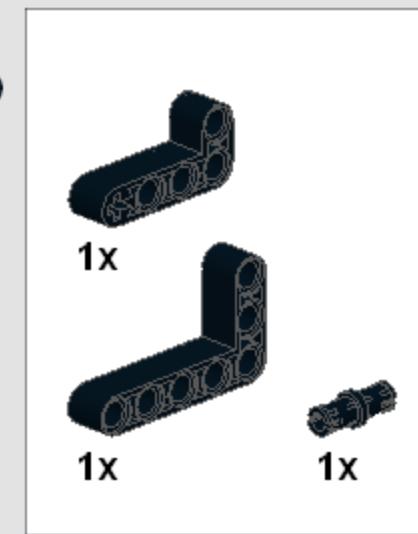
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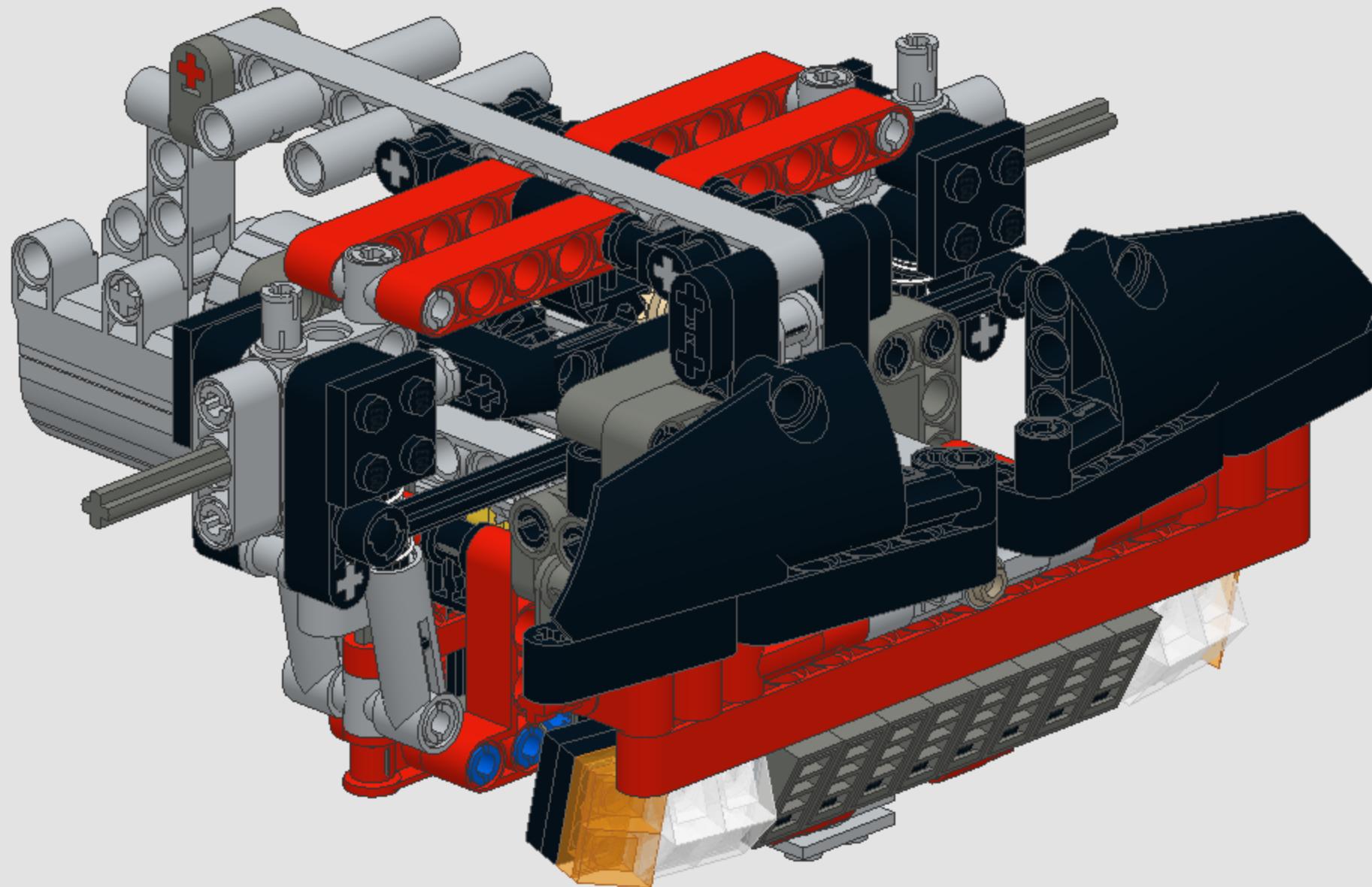


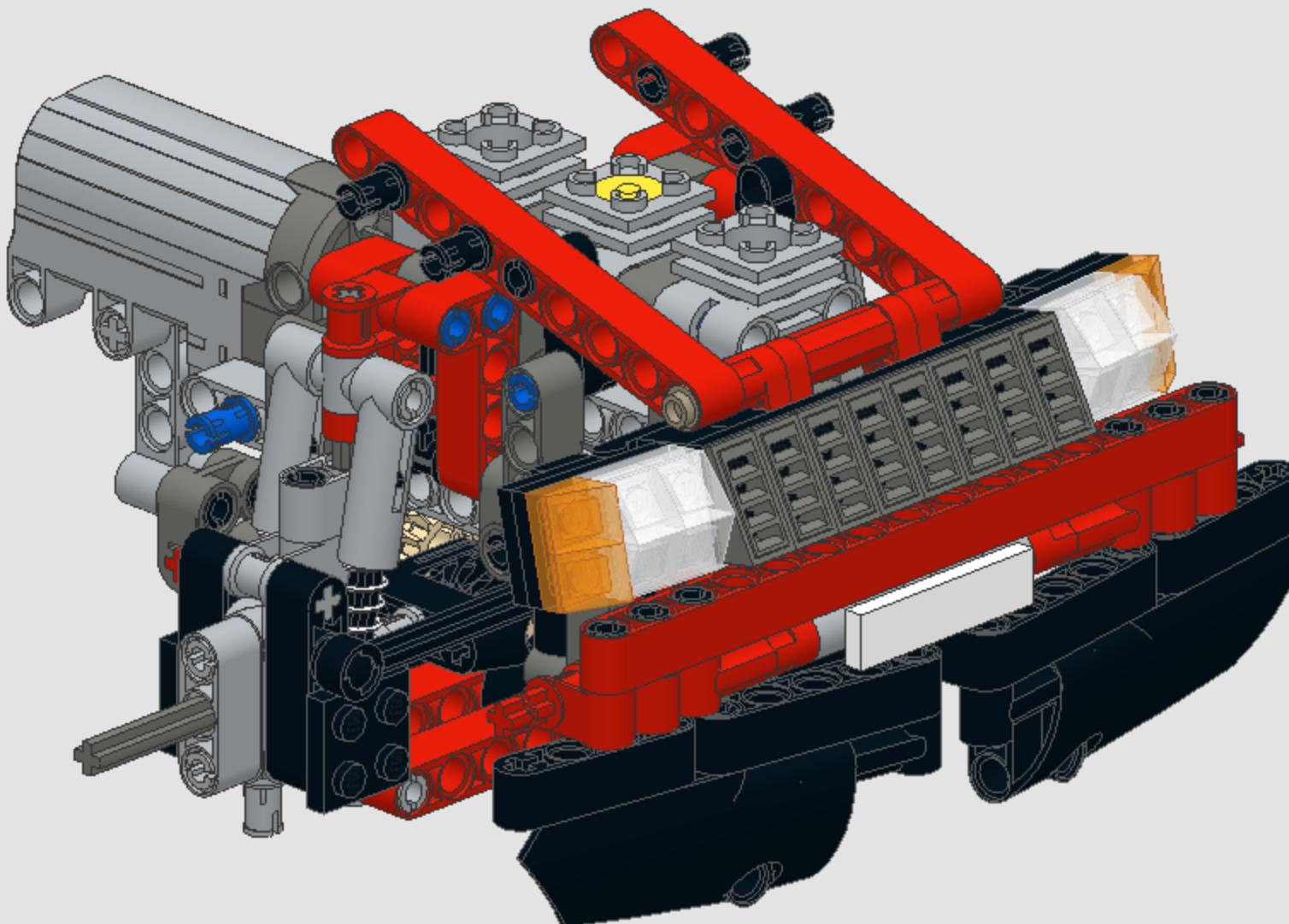
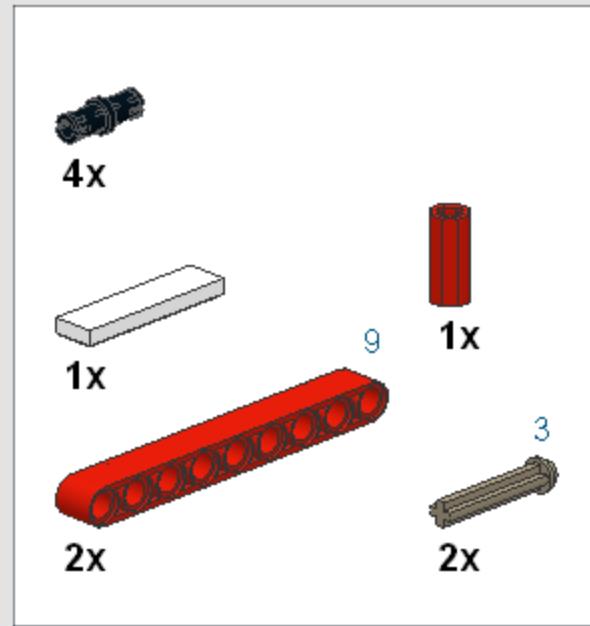
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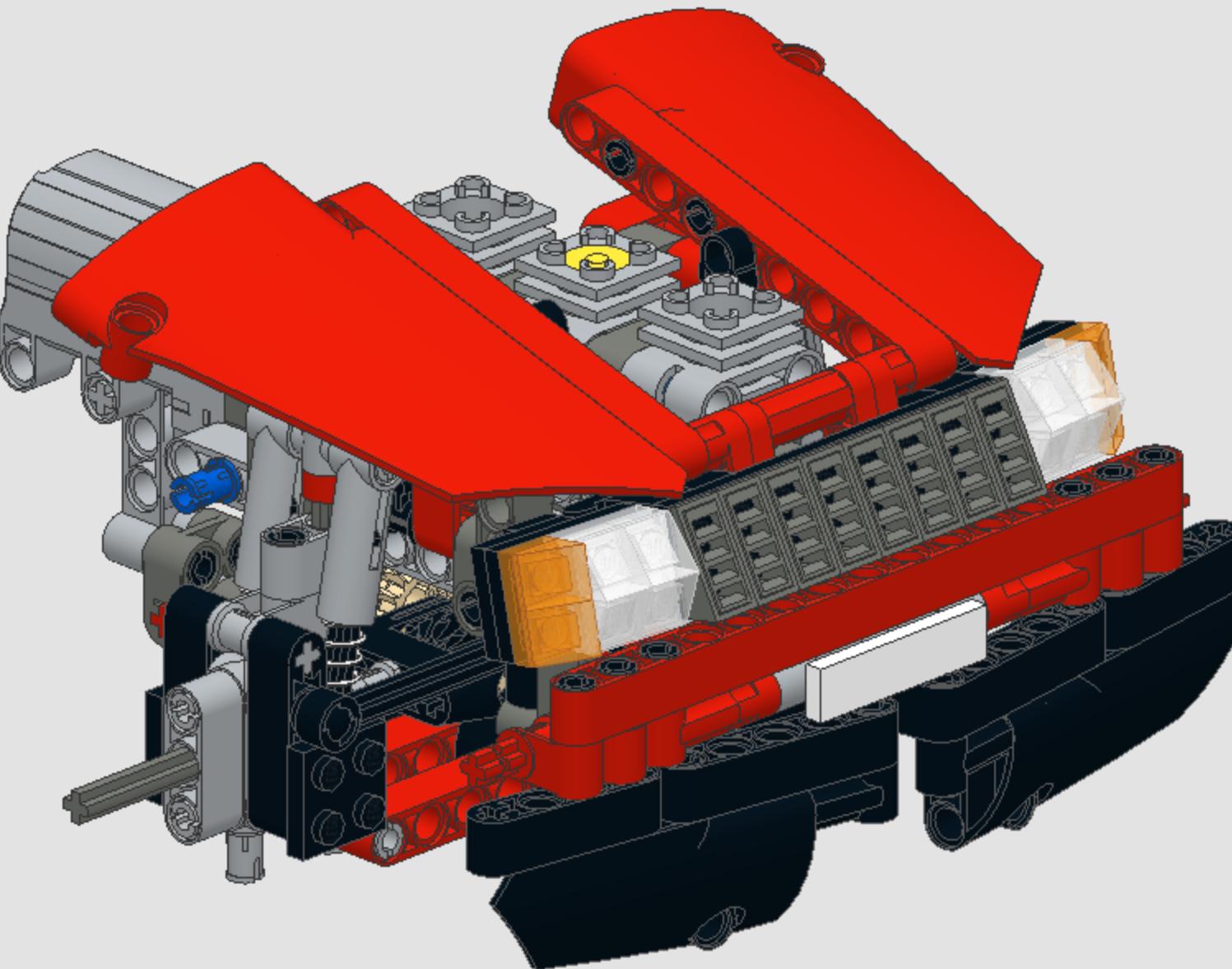
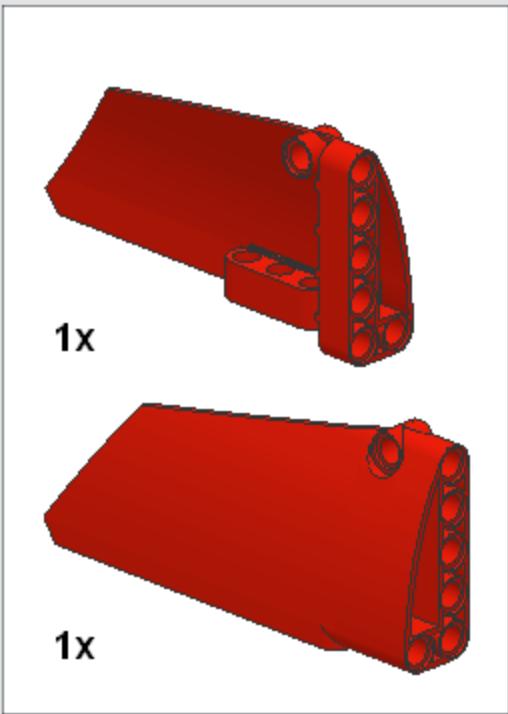


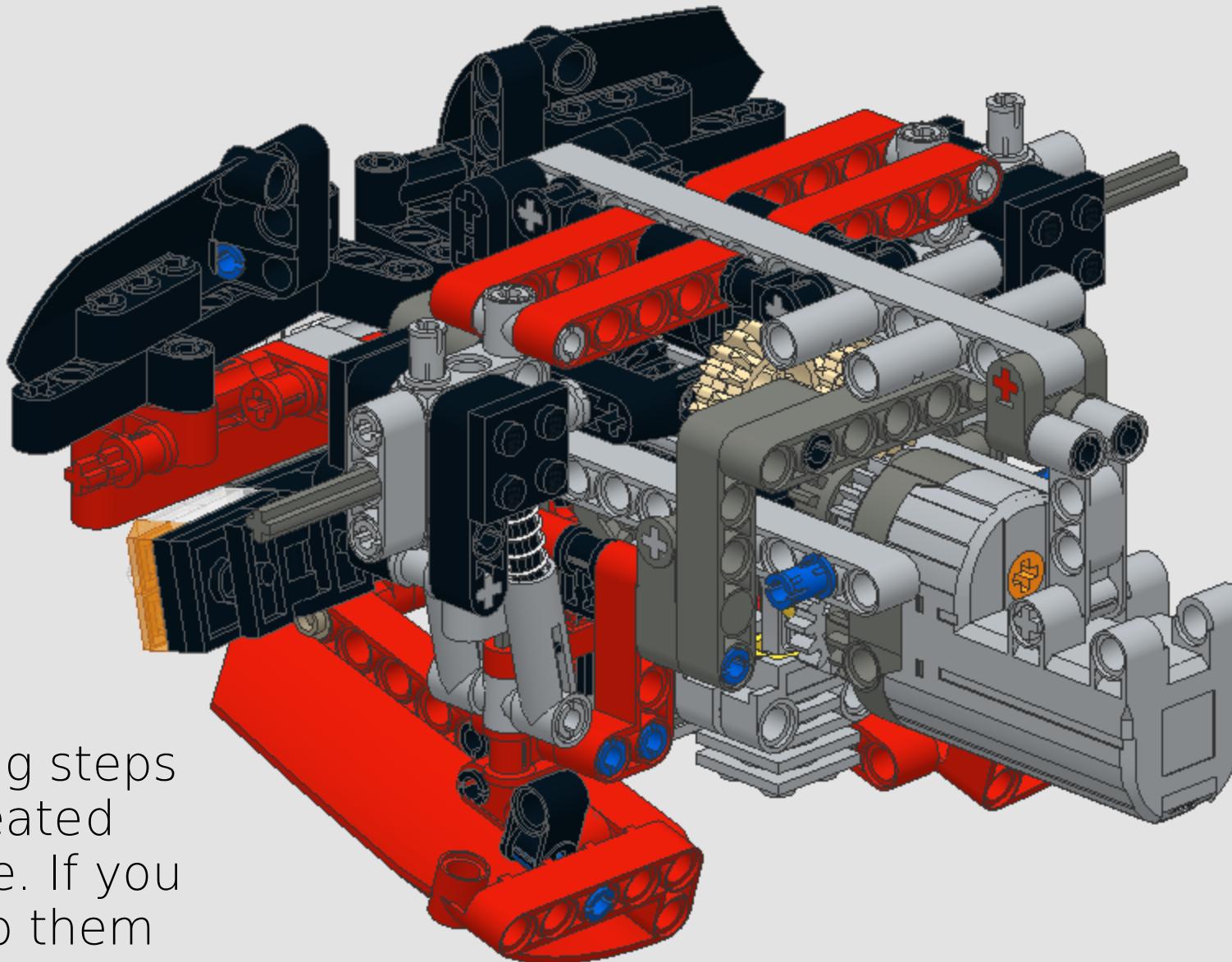
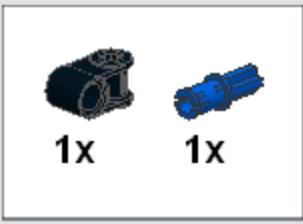
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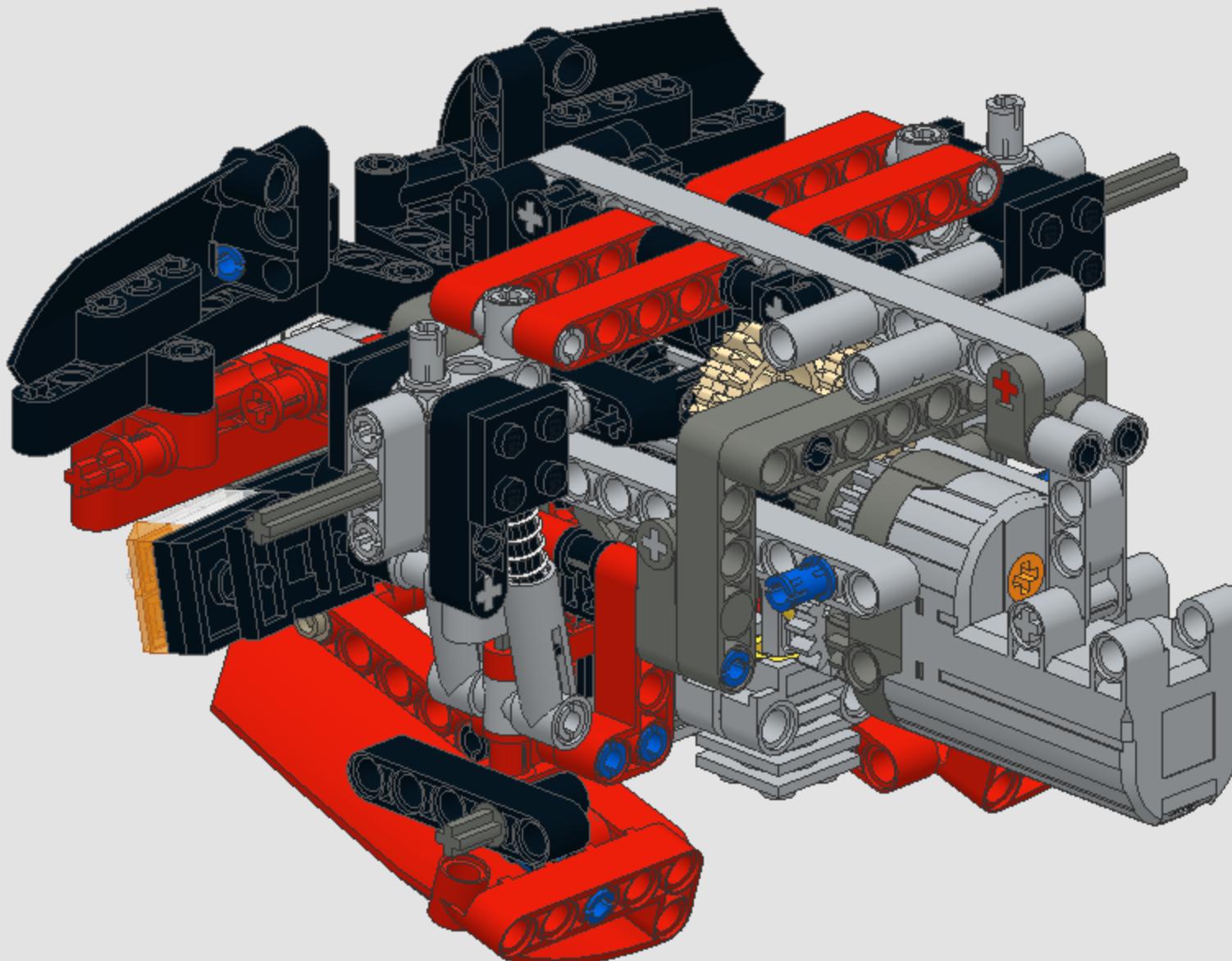
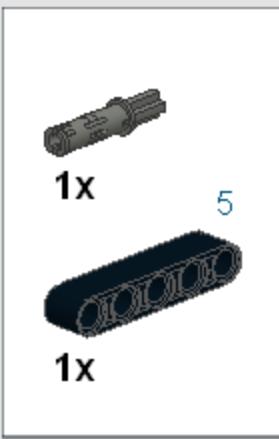


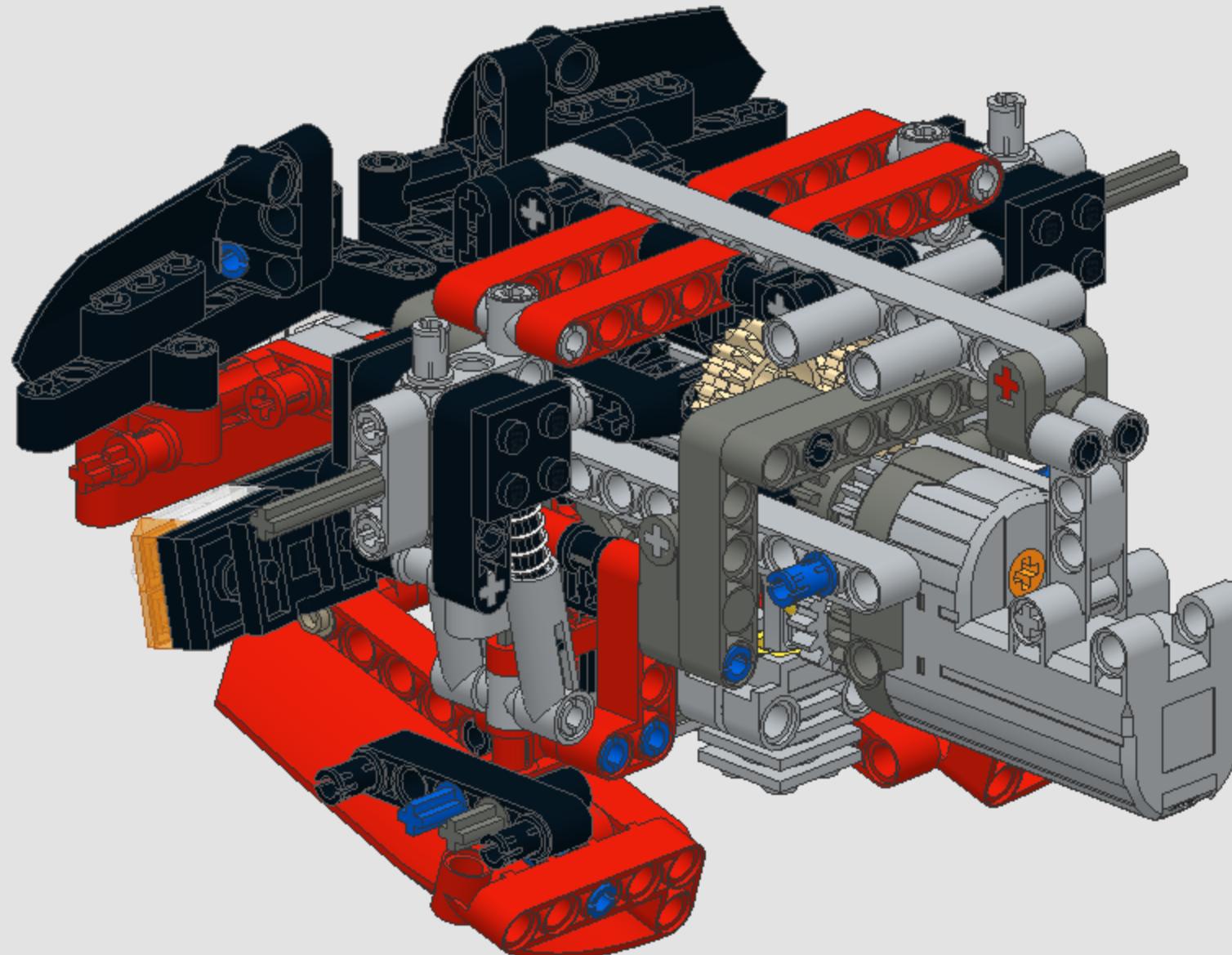


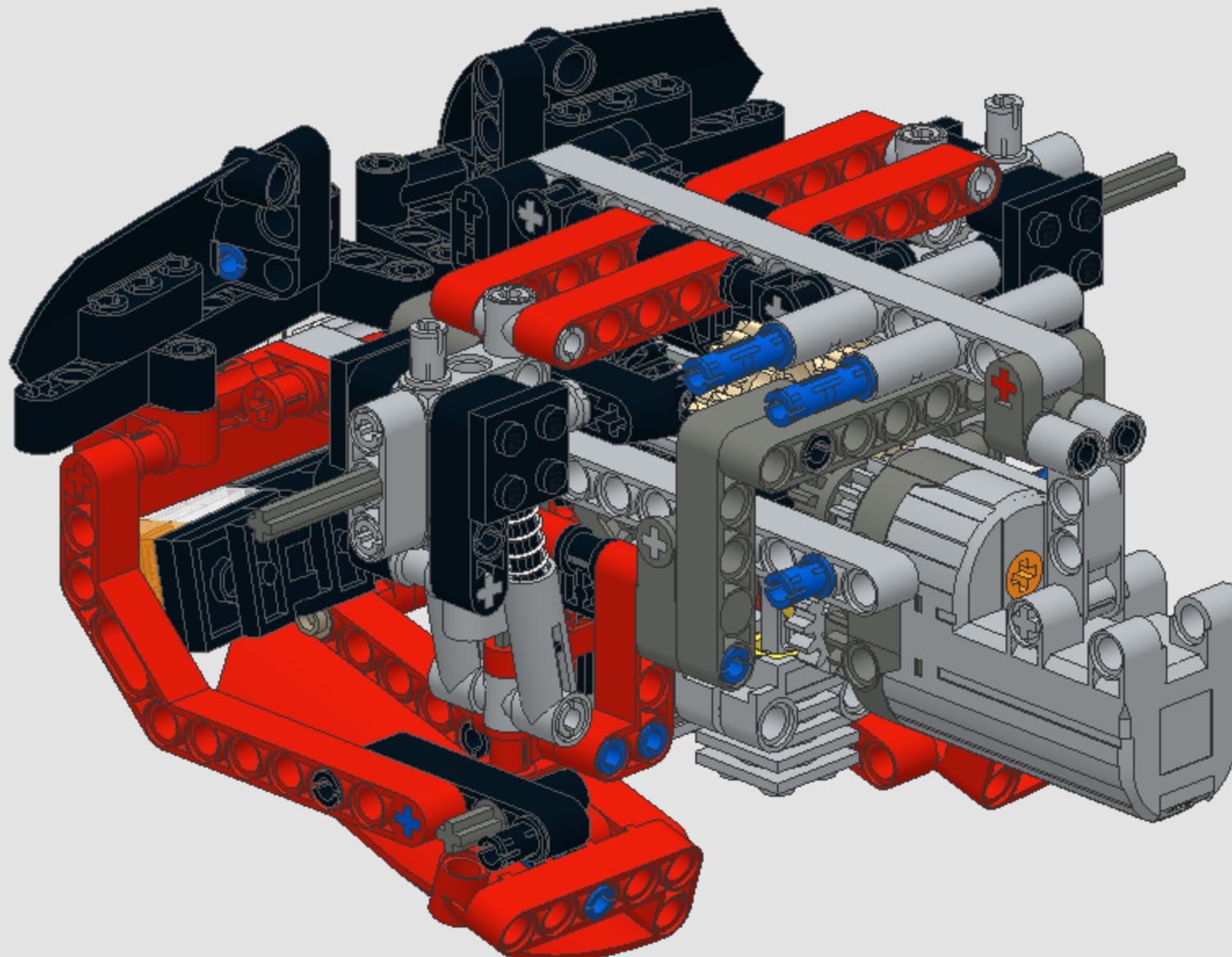
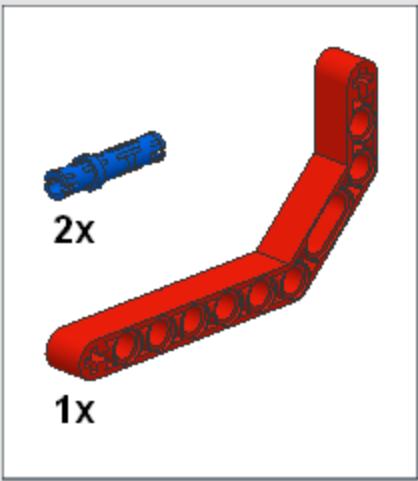


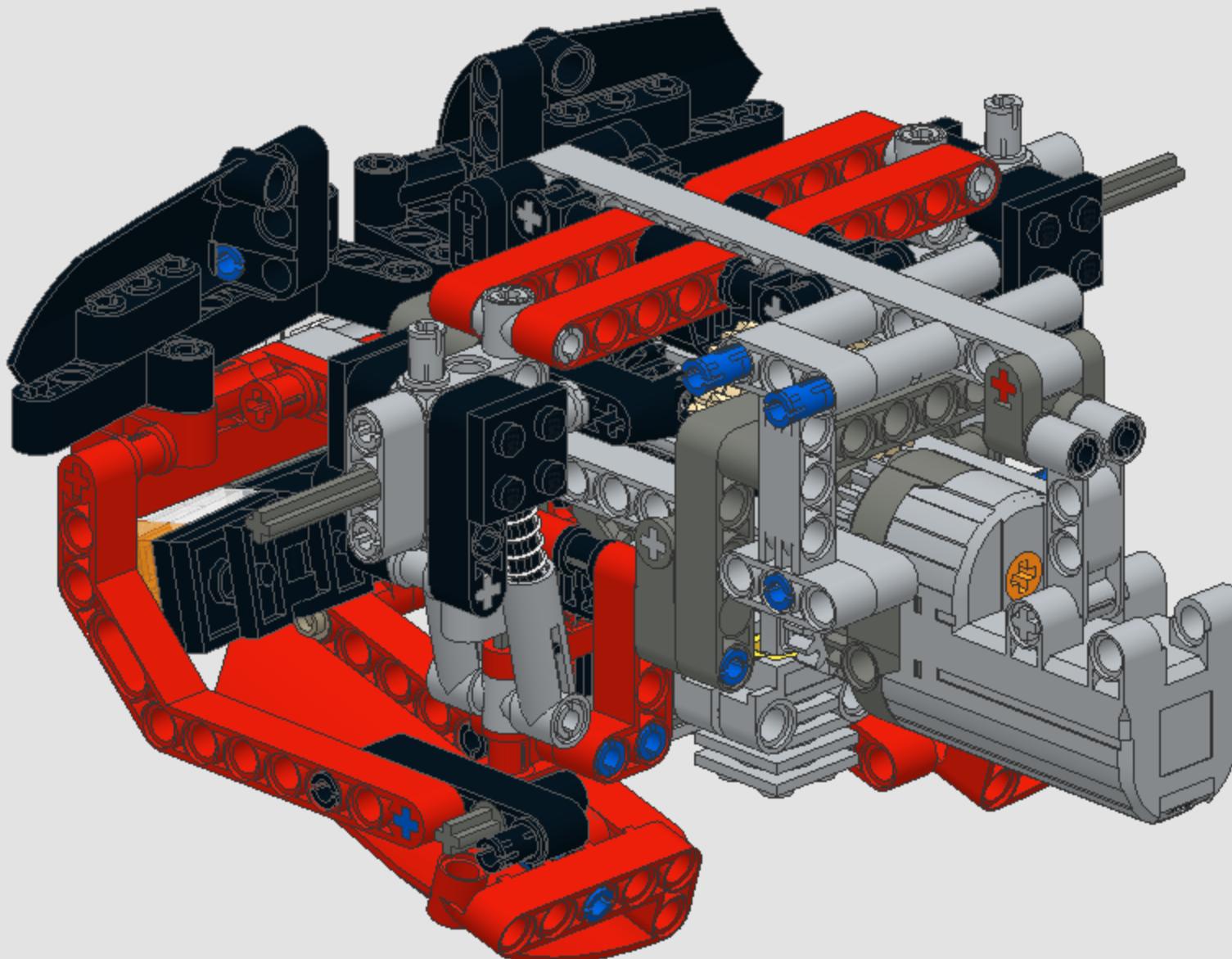
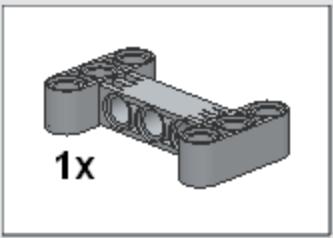


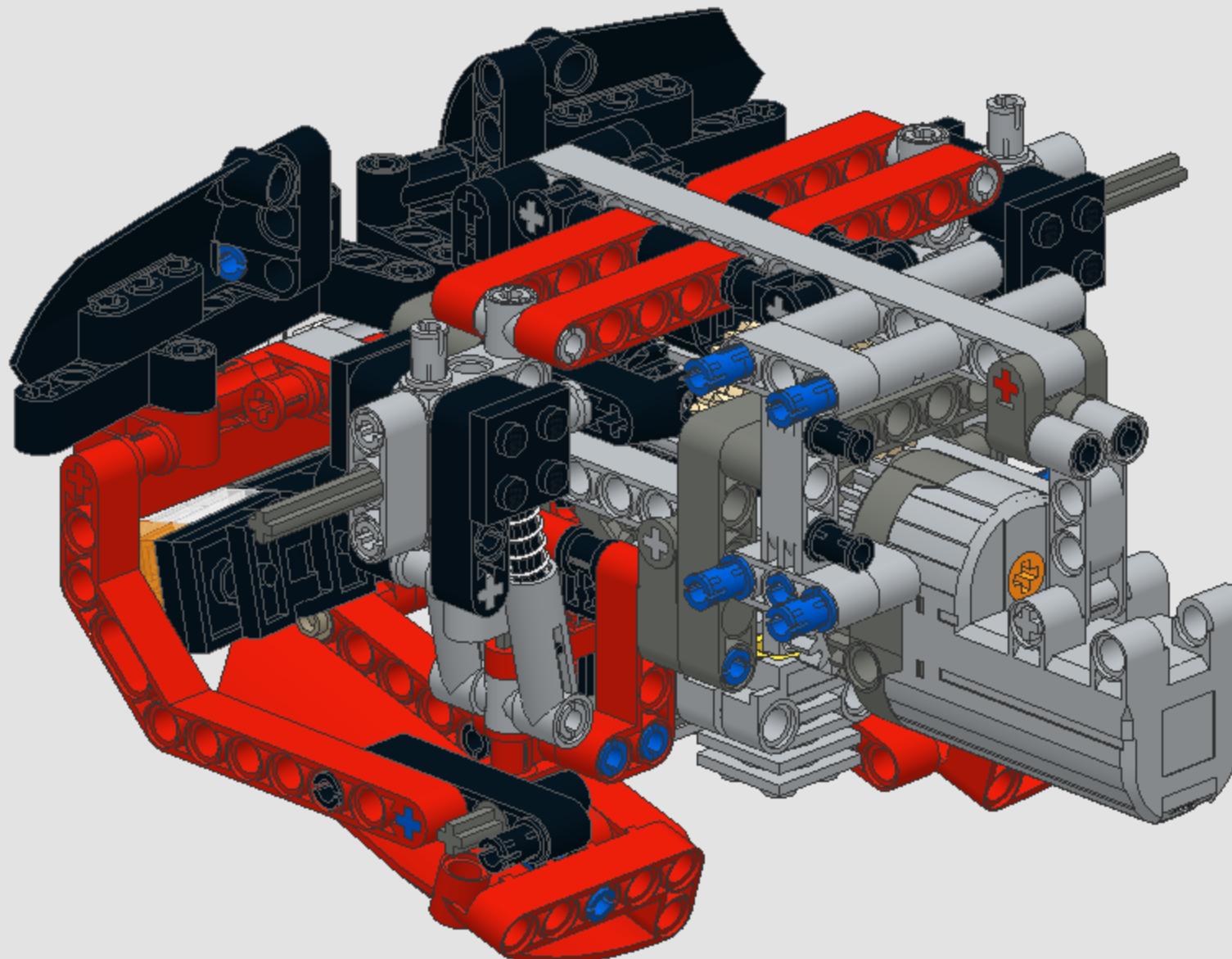
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will later be repeated
for the other side. If you
want, you can do them
simultaneously.

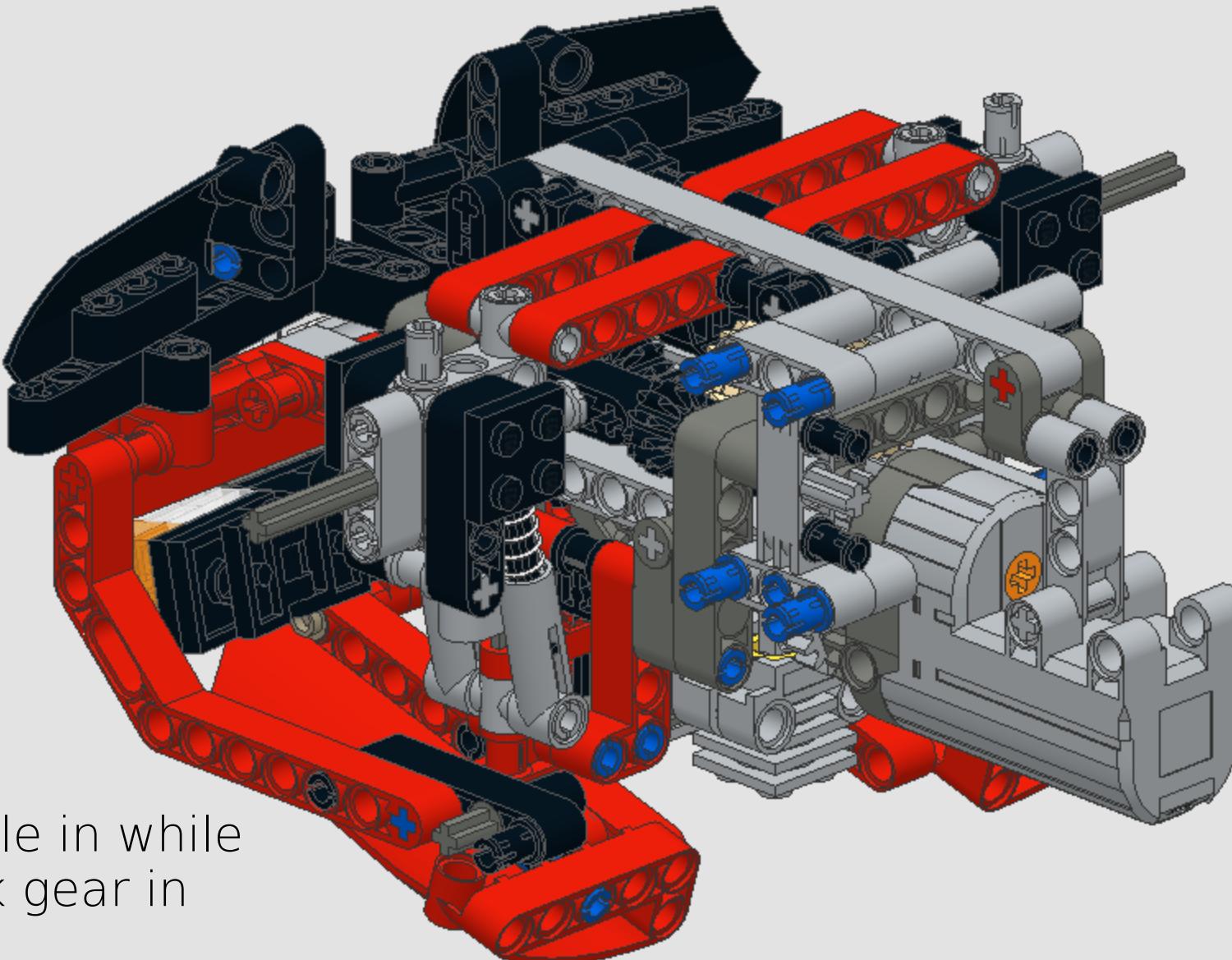
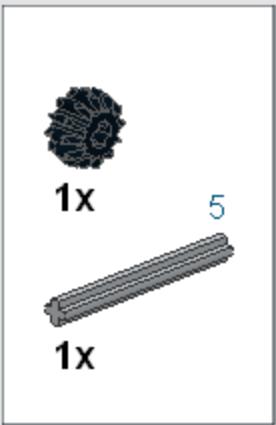




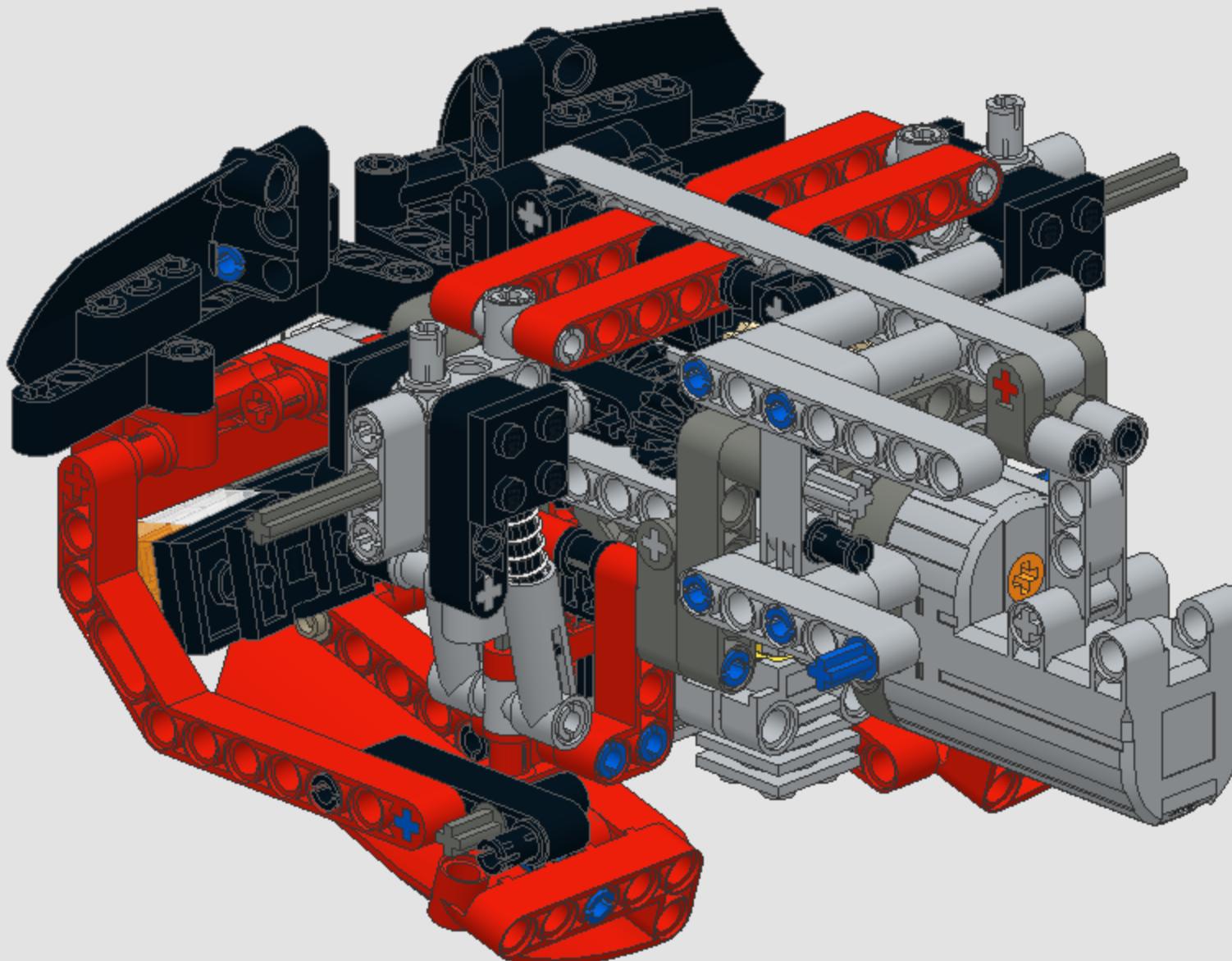
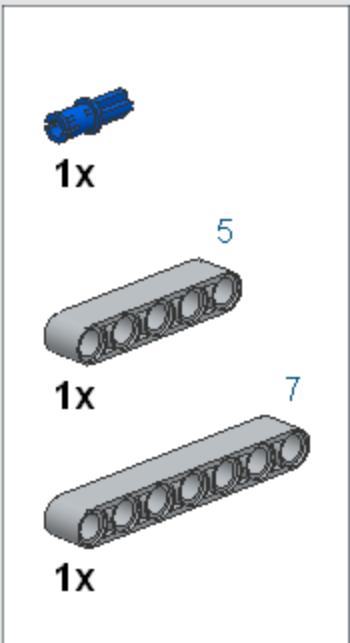


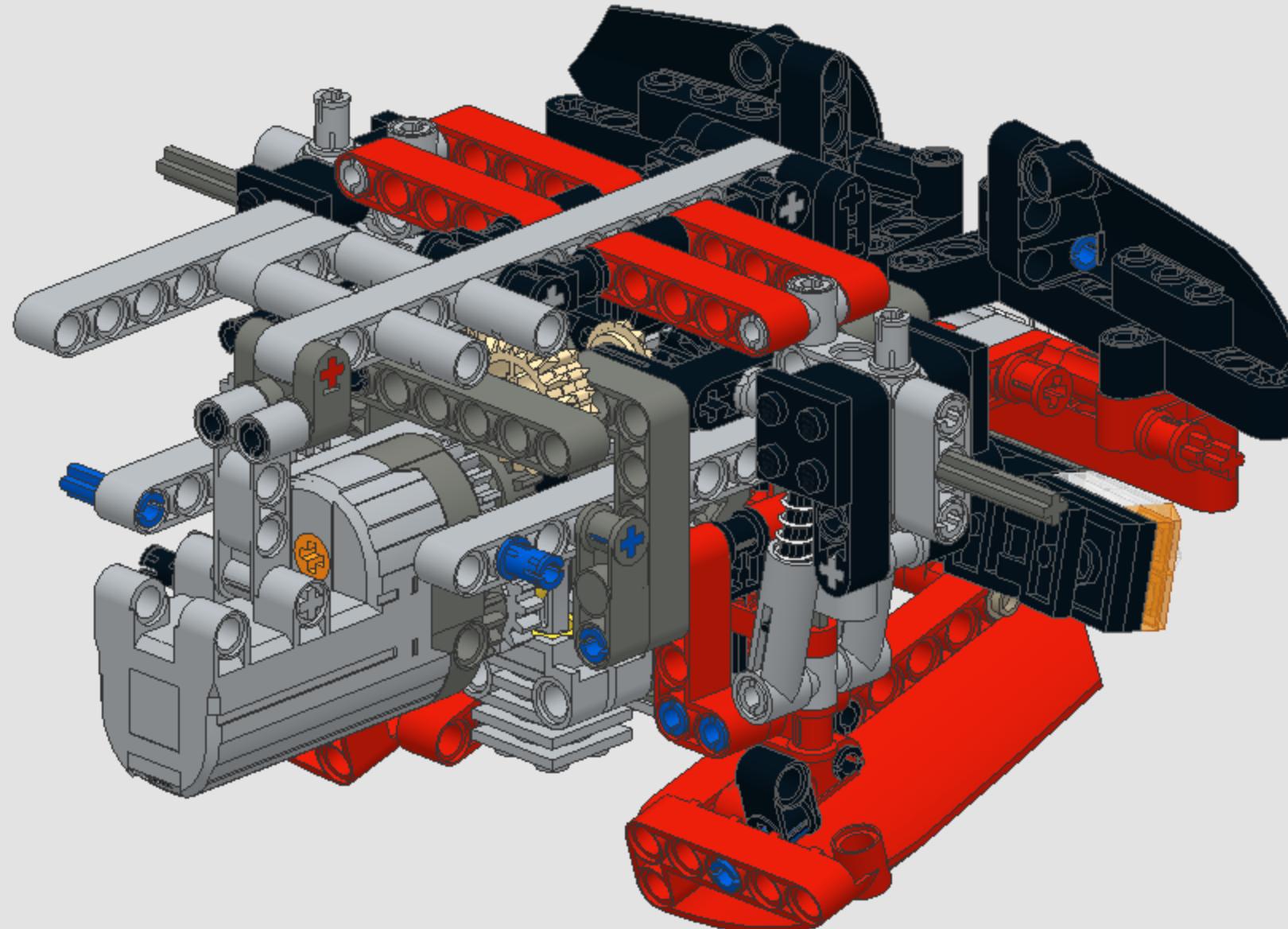
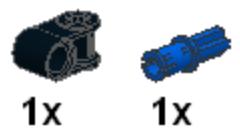


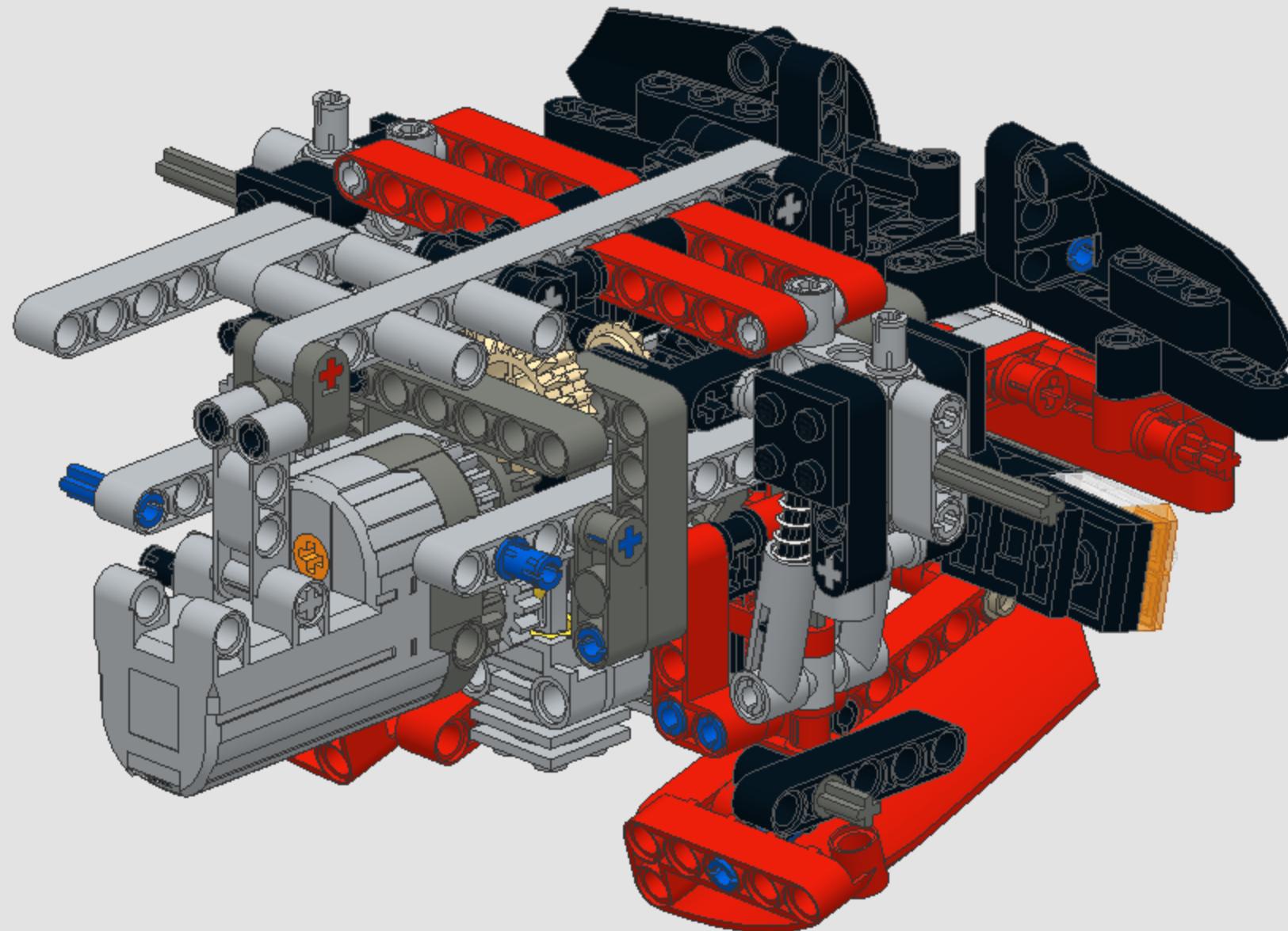
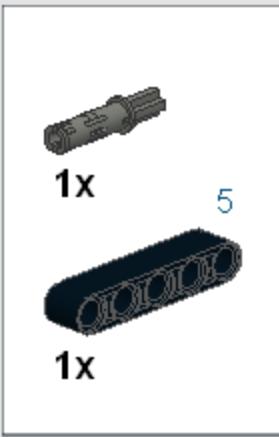


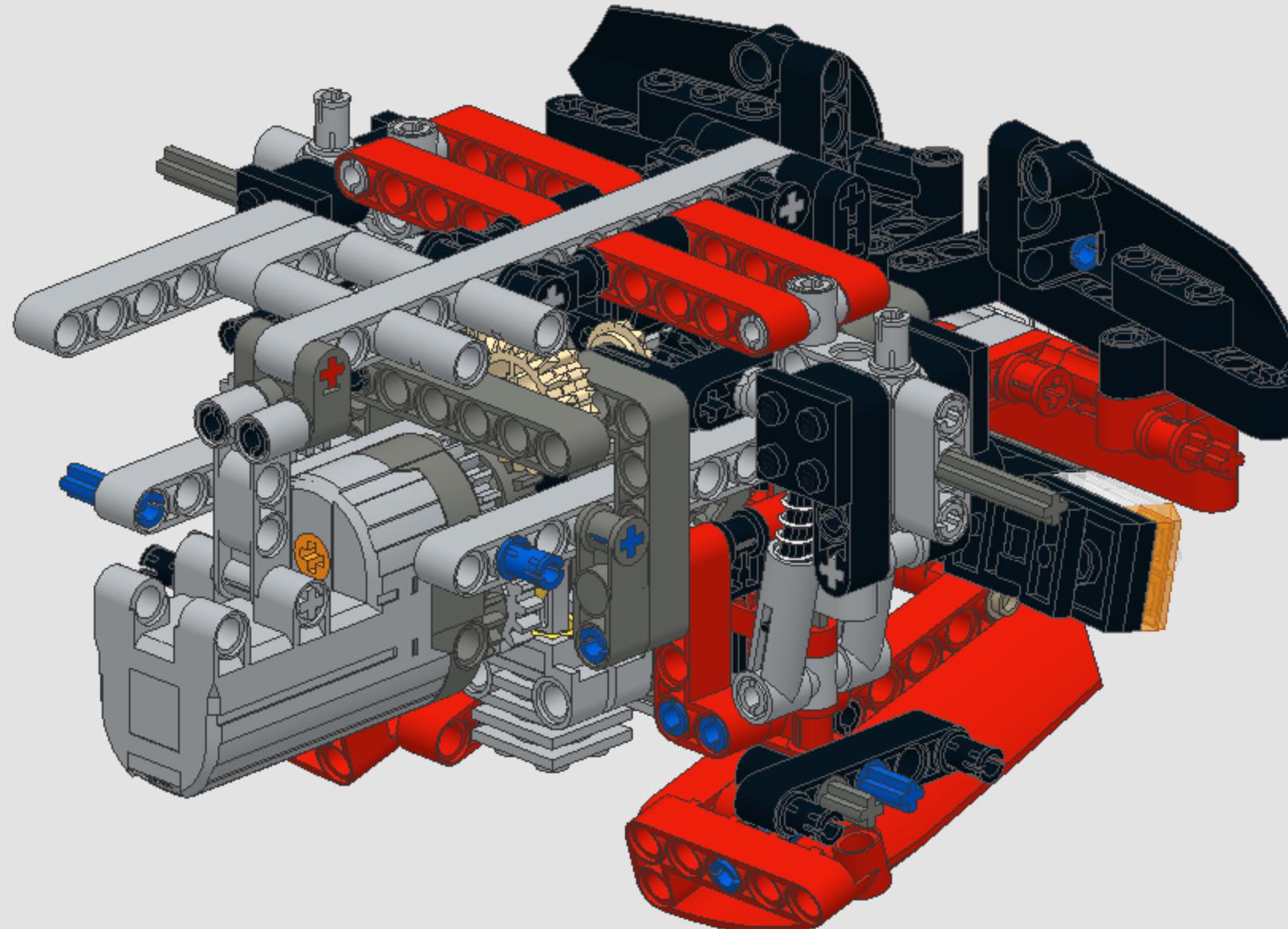


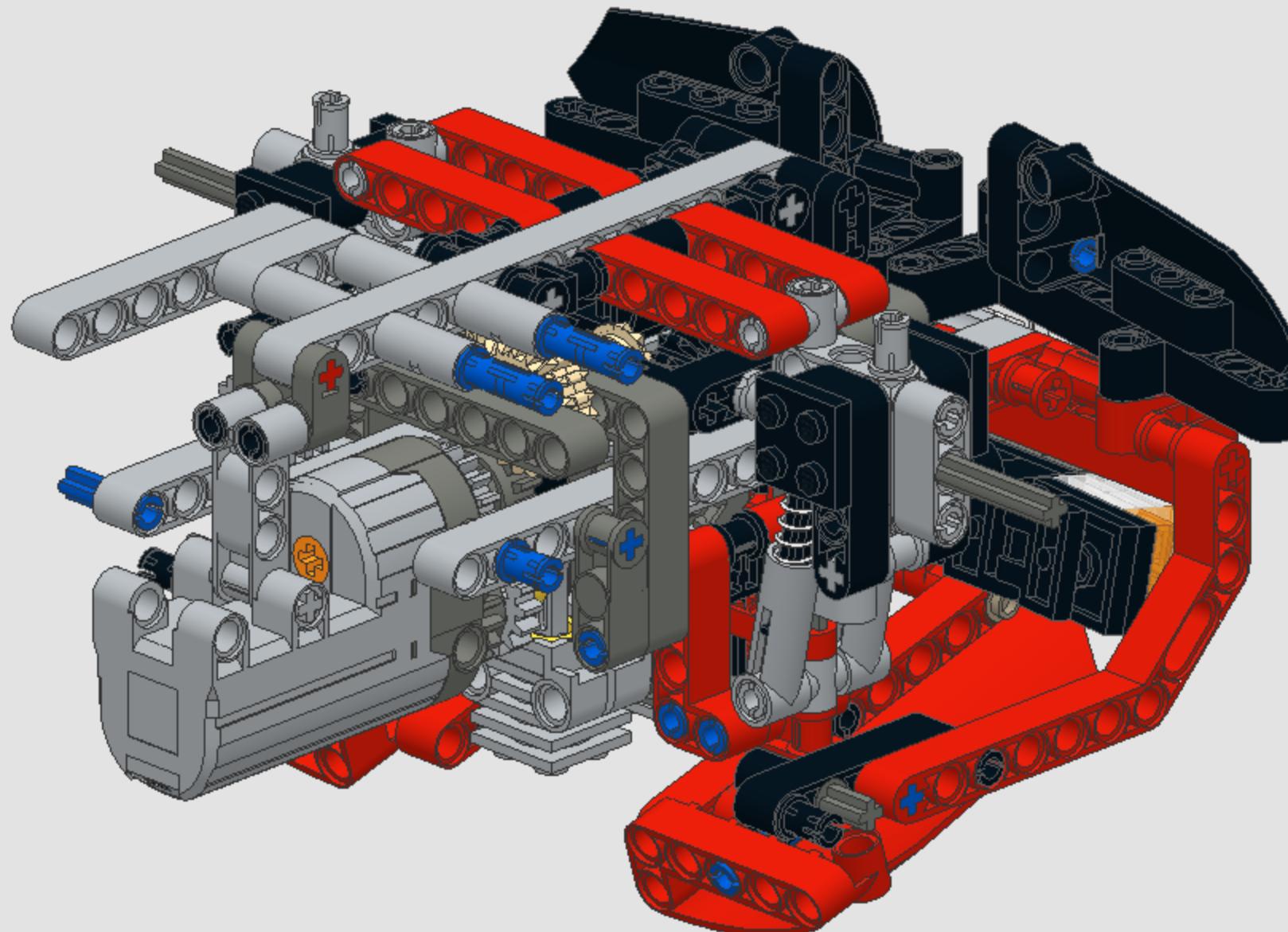
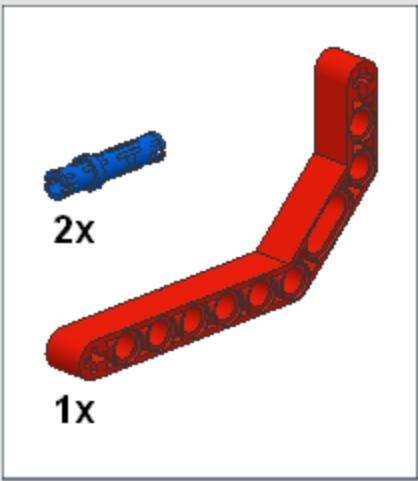
Slide the grey axle in while holding the black gear in the right place.

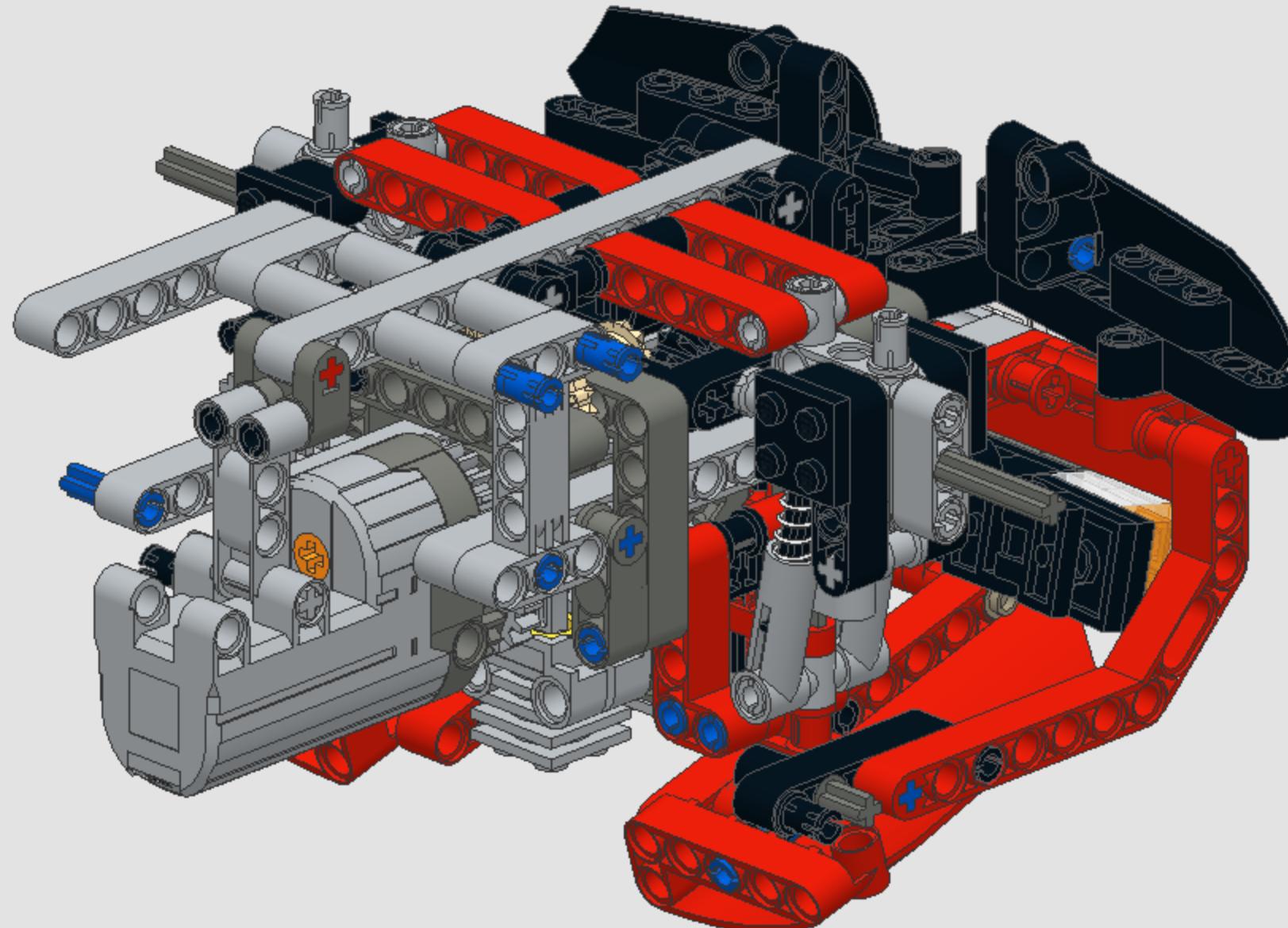
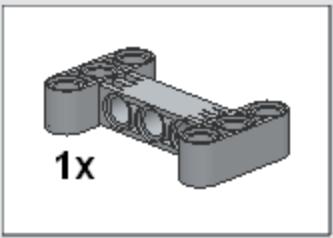


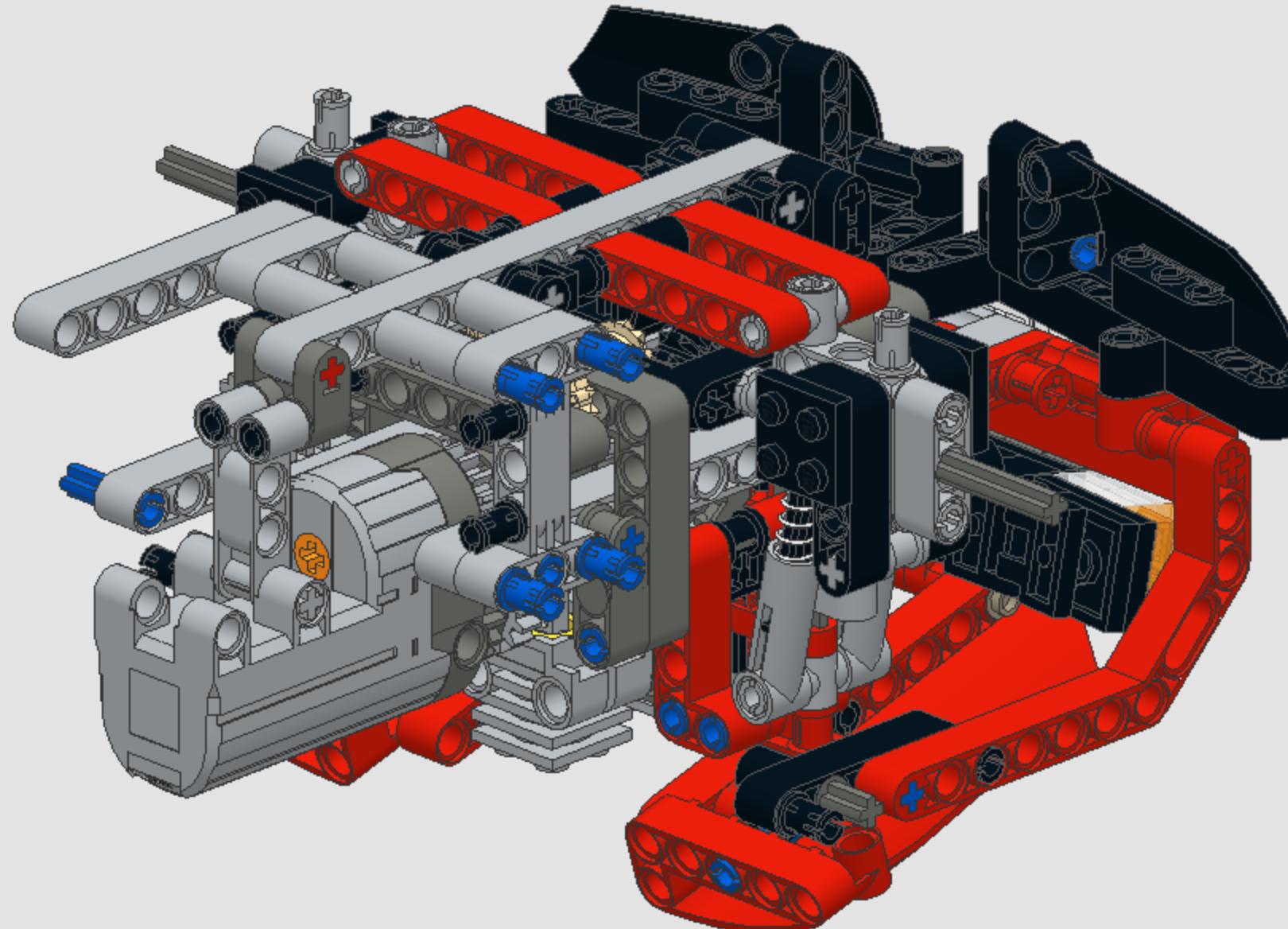


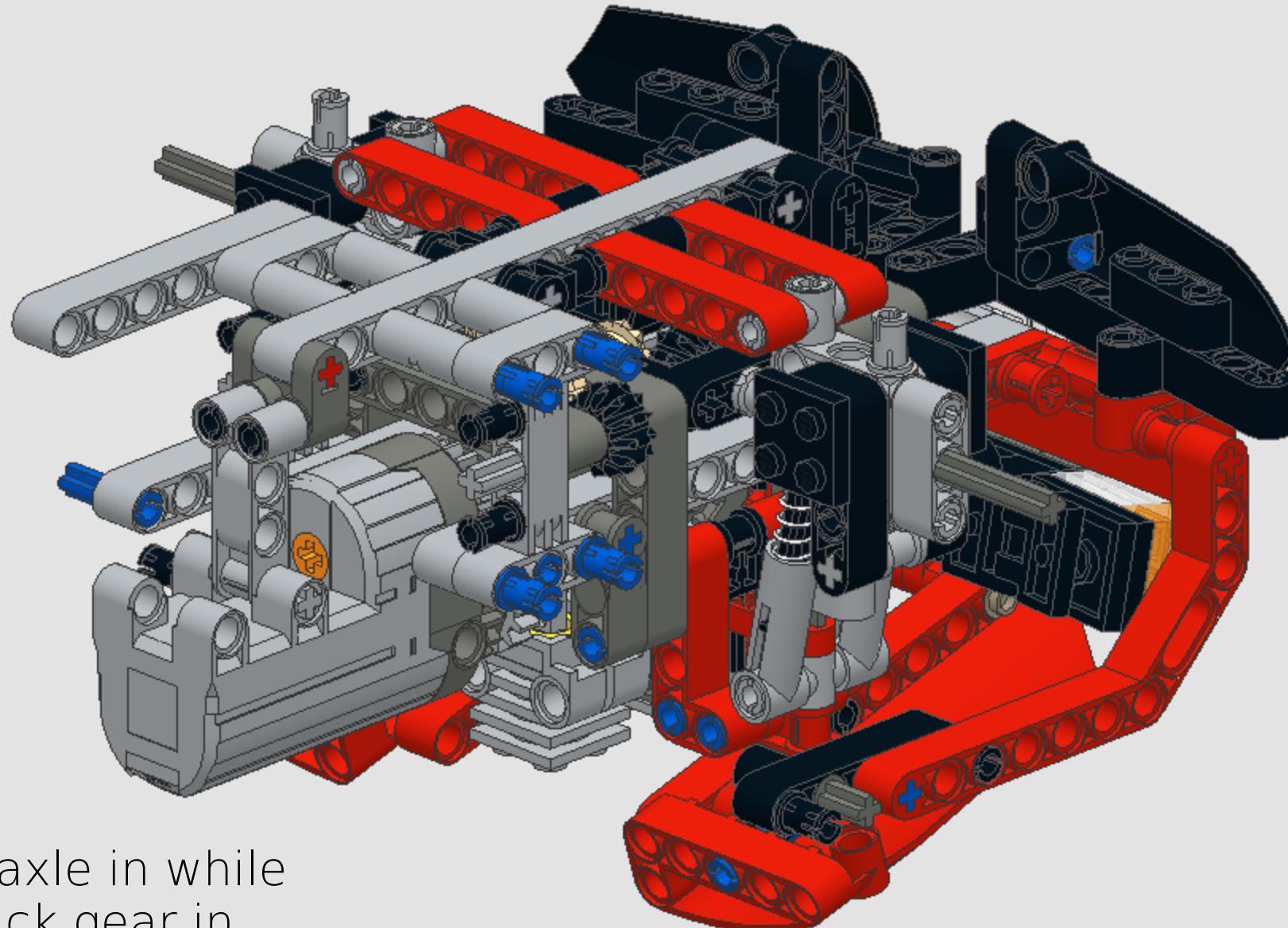
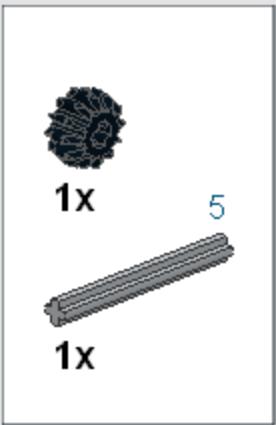




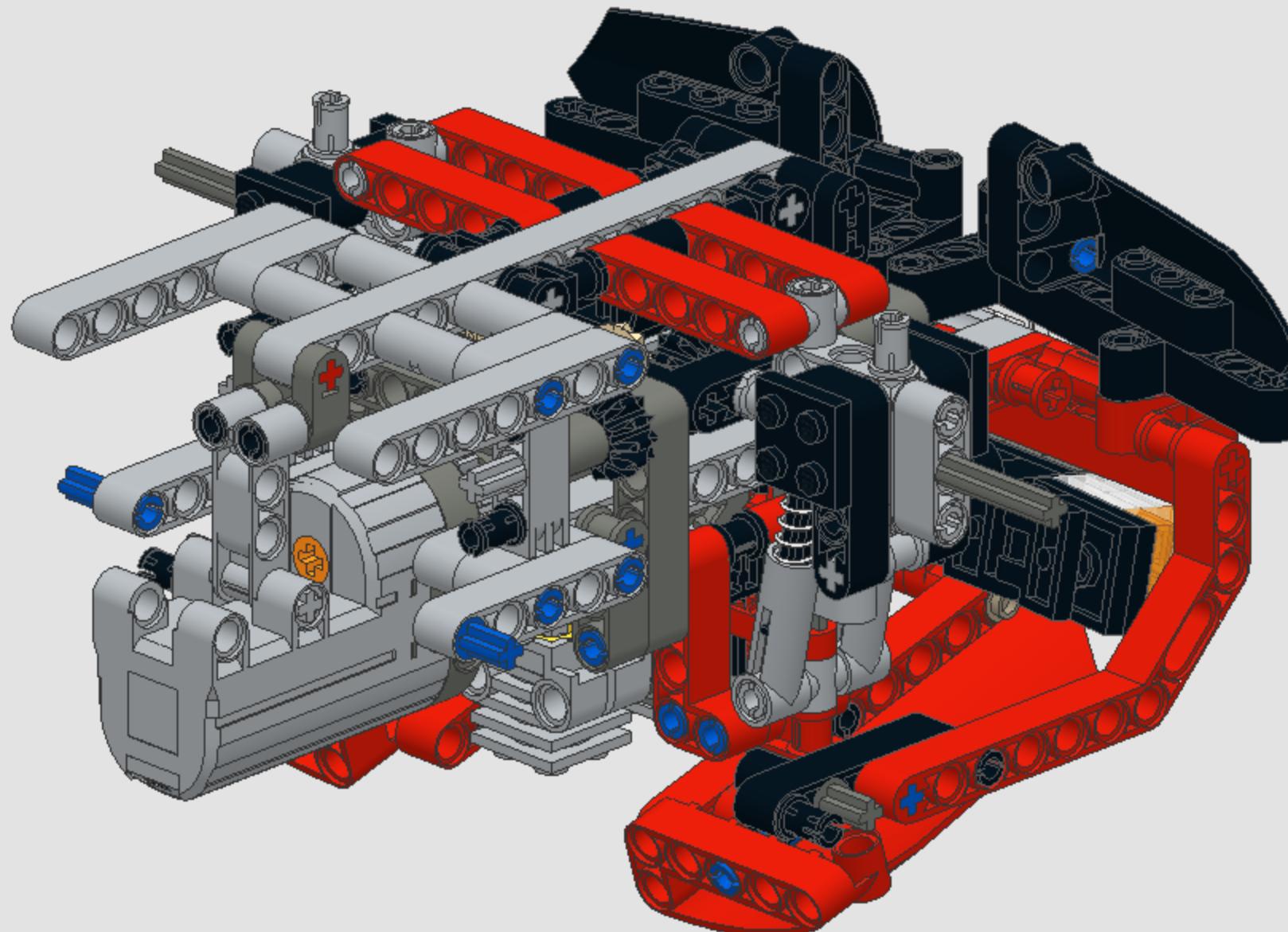
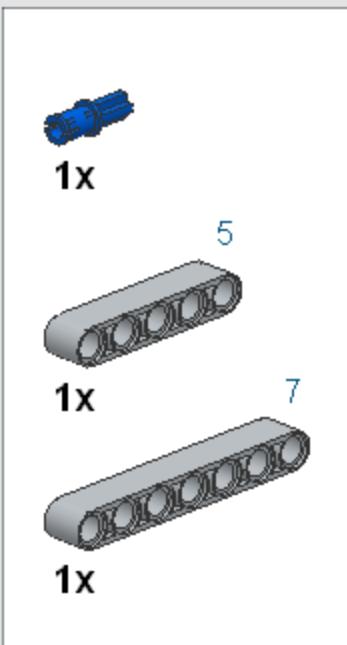




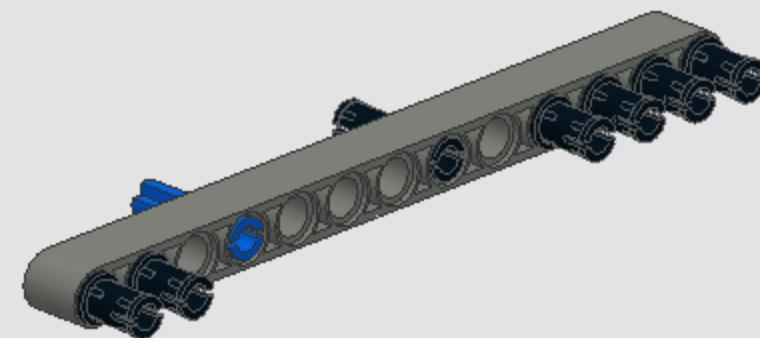
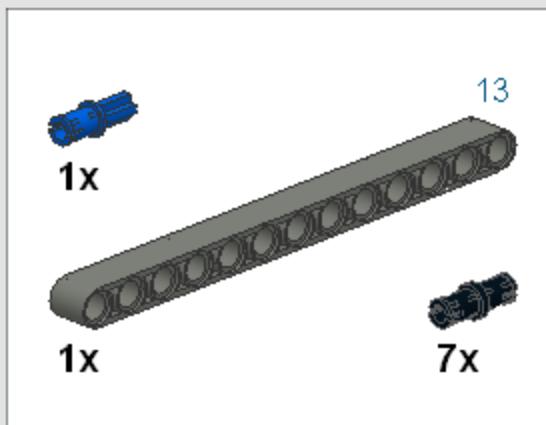




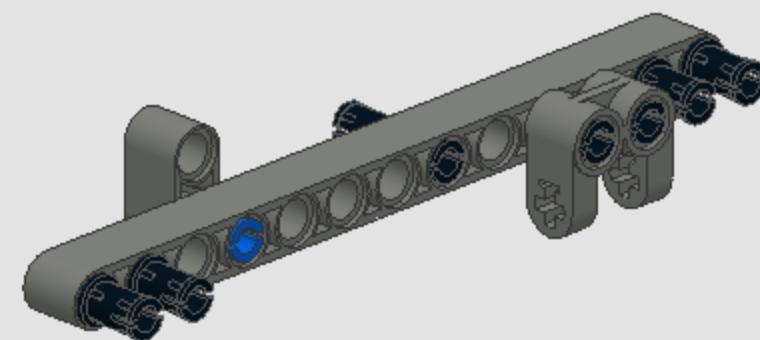
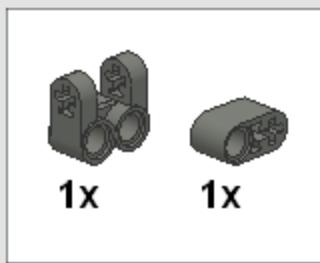
Slide the grey axle in while holding the black gear in the right place.



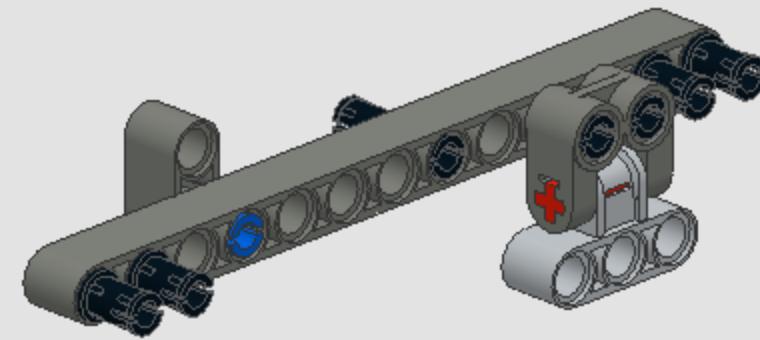
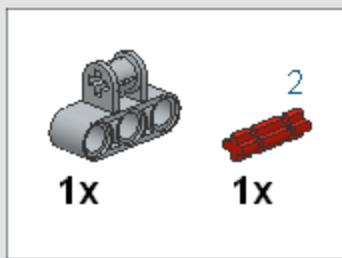
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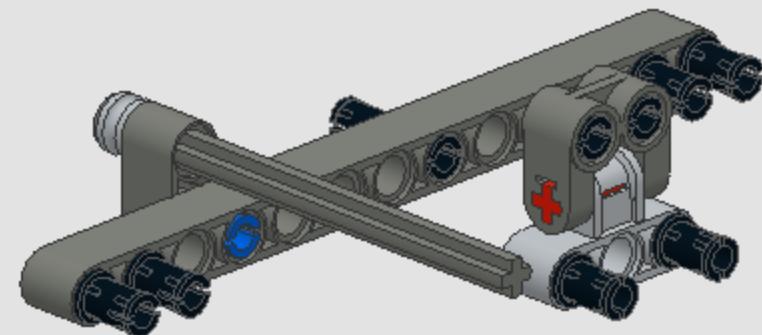
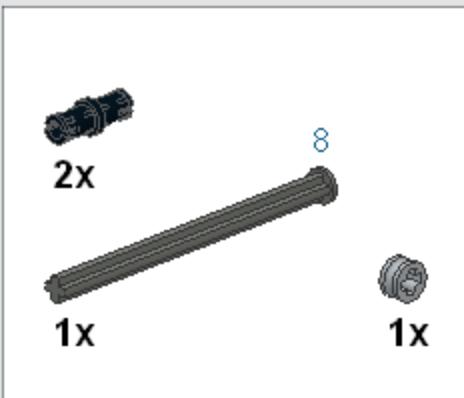
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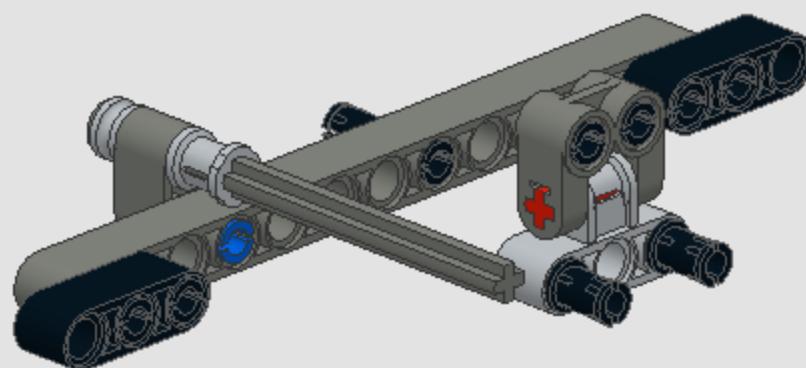
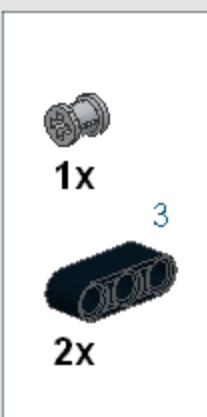
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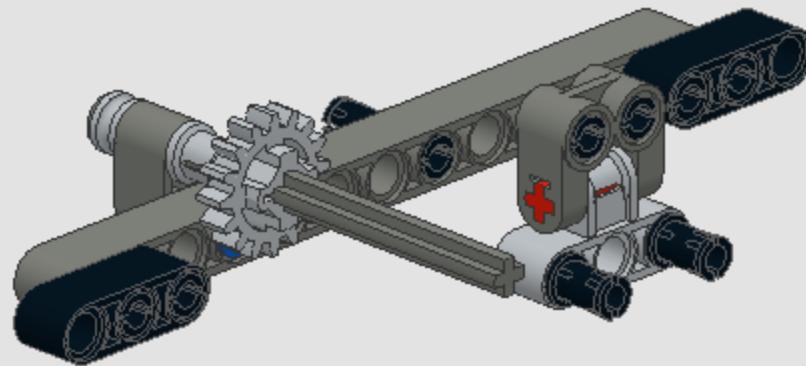
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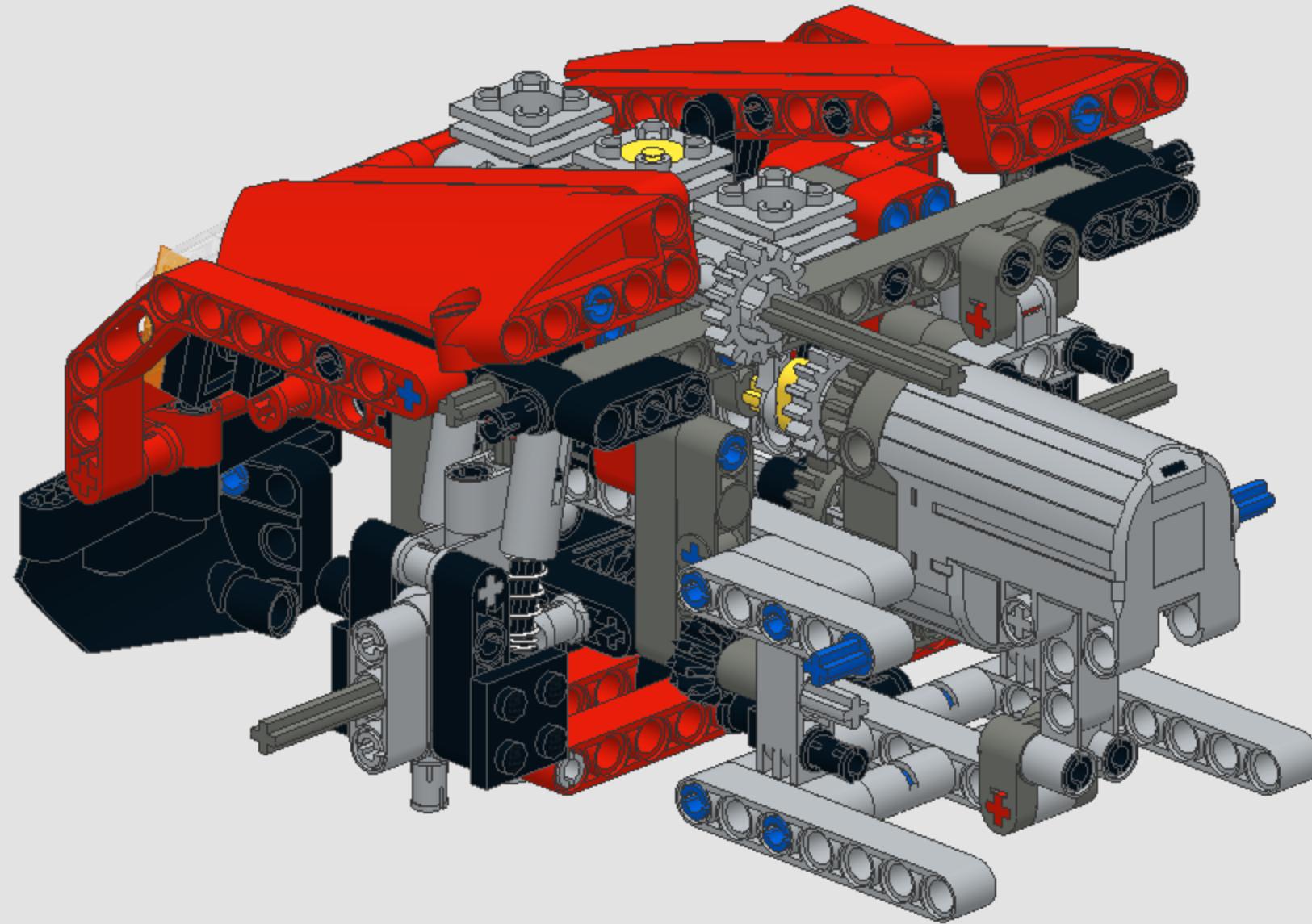


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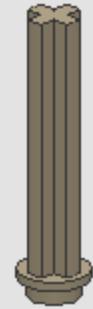
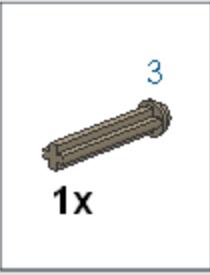


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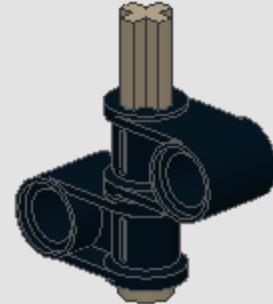




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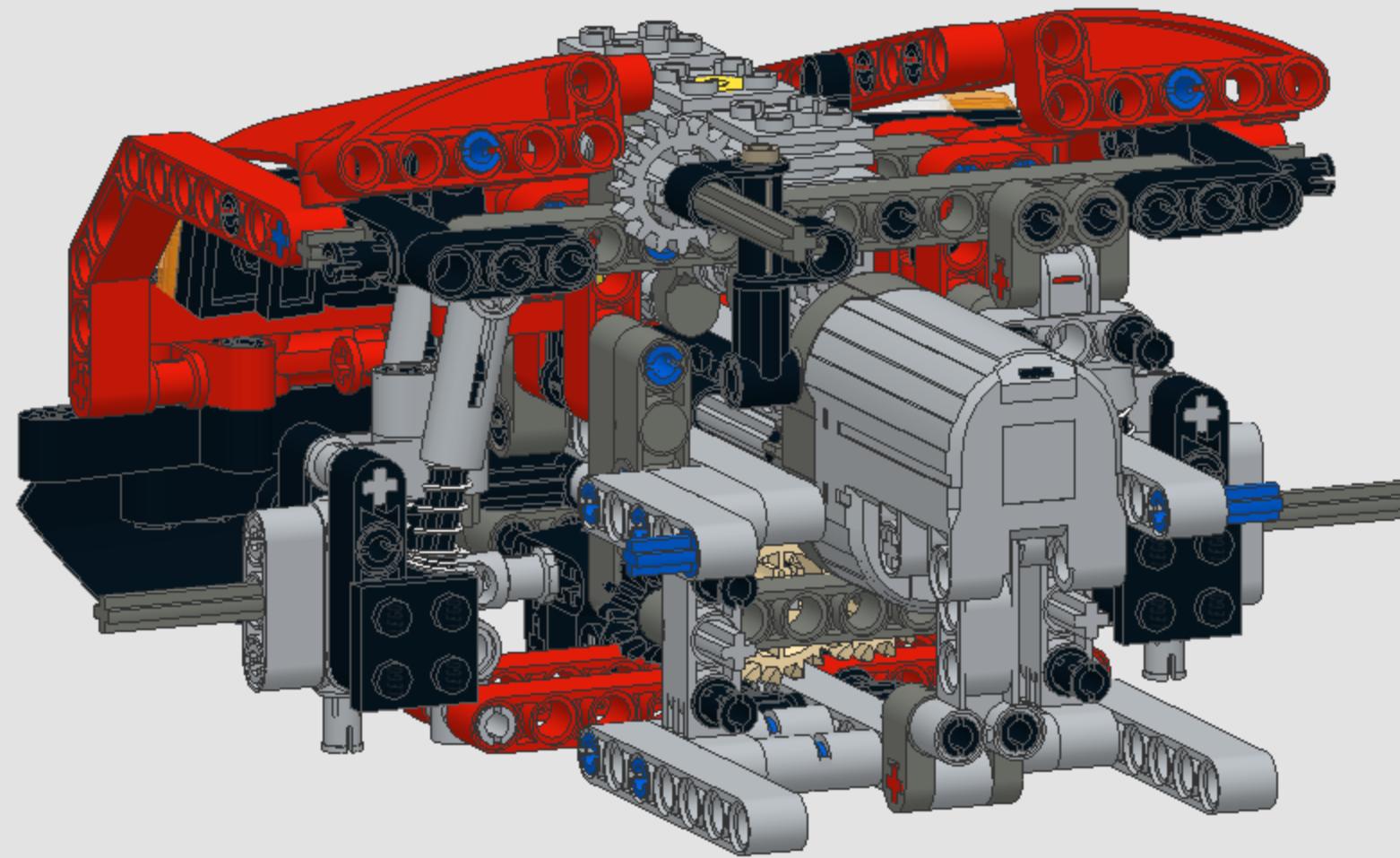


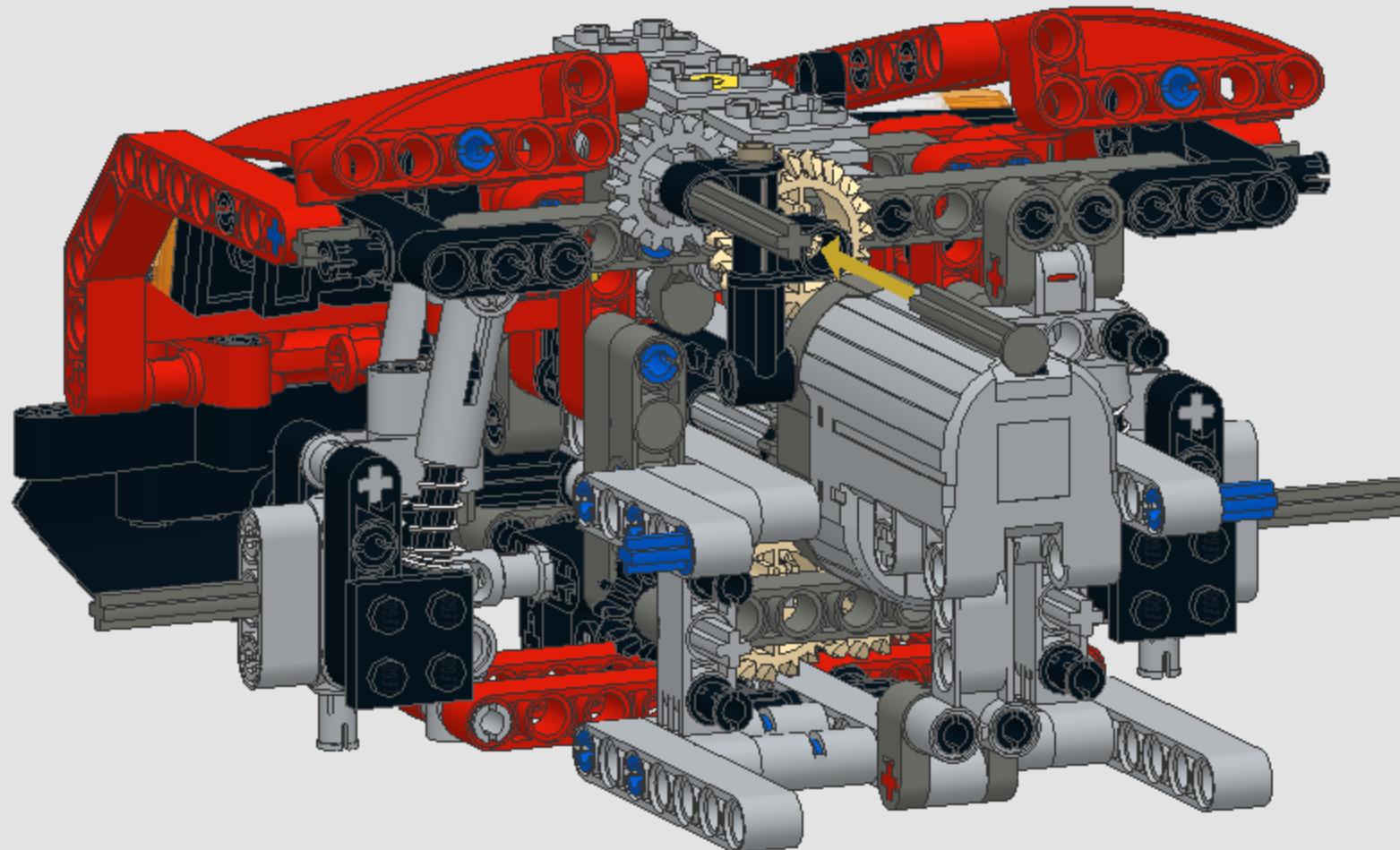
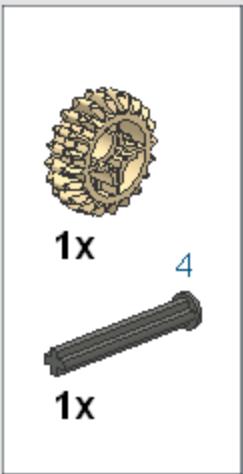
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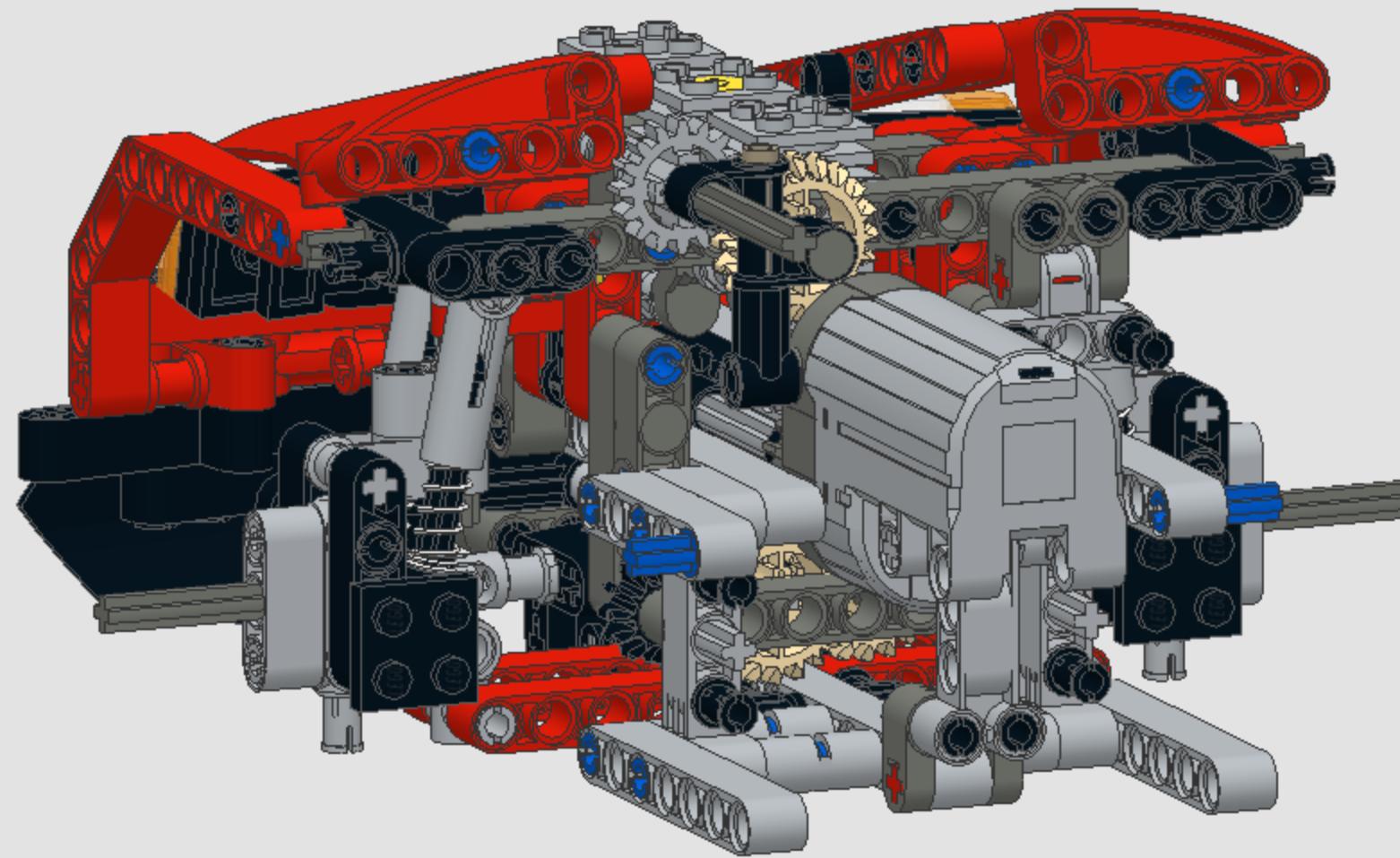


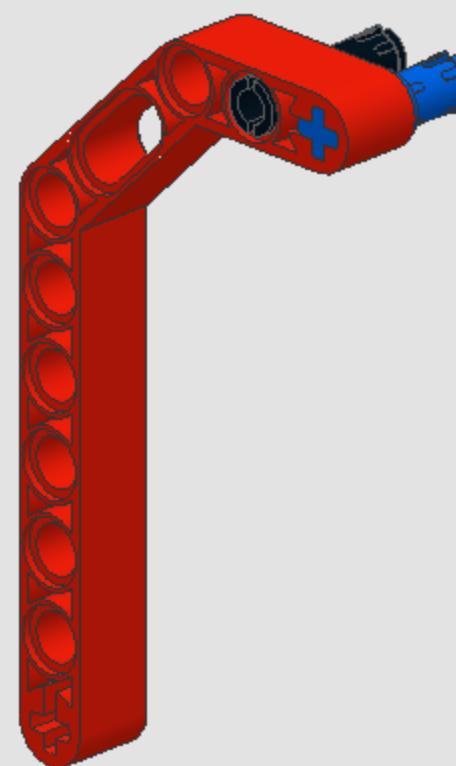
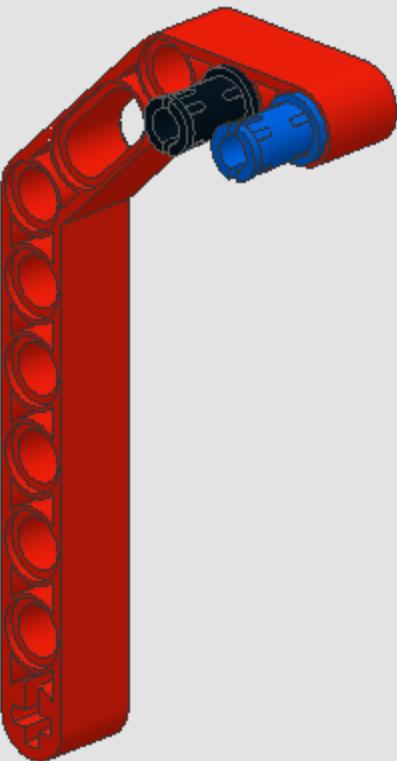
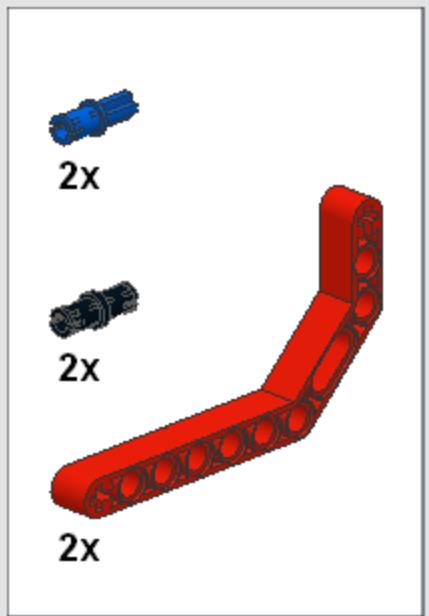
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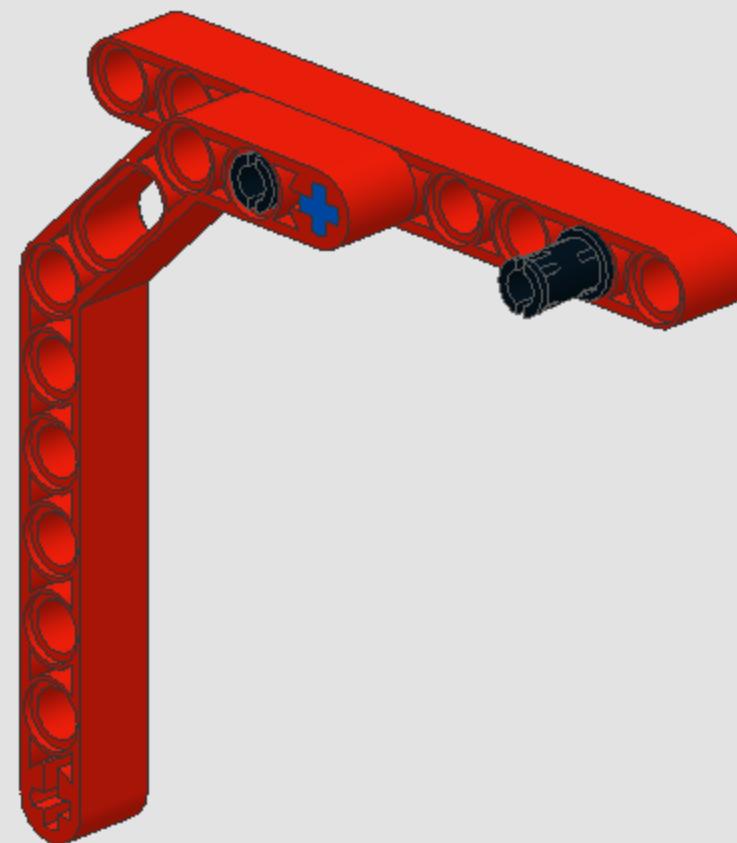
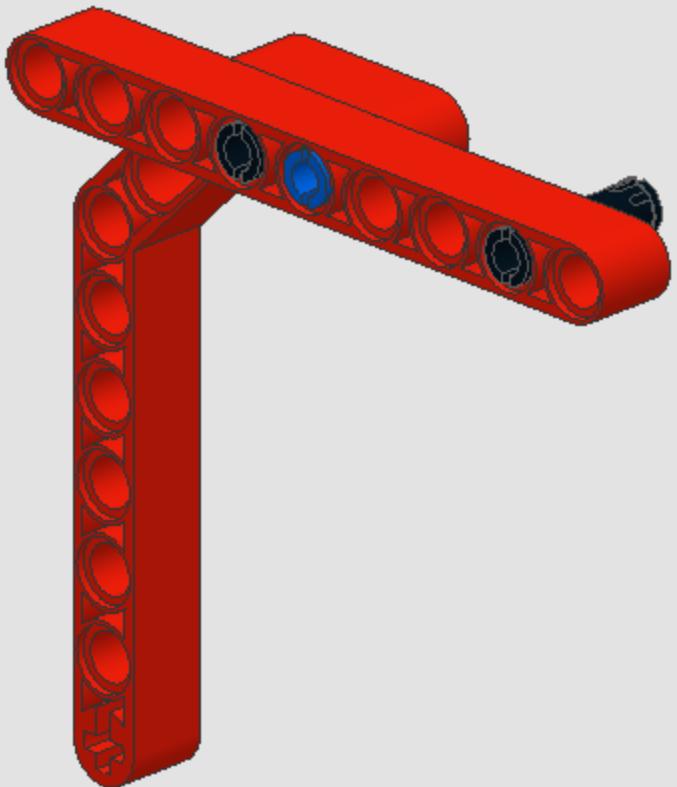
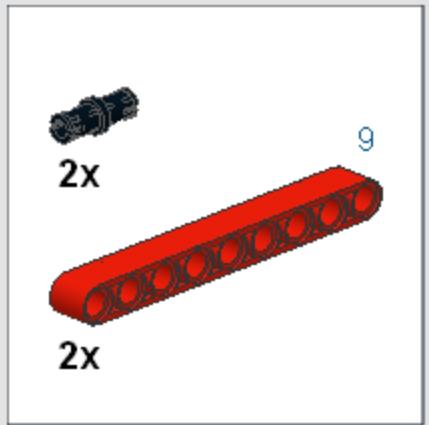


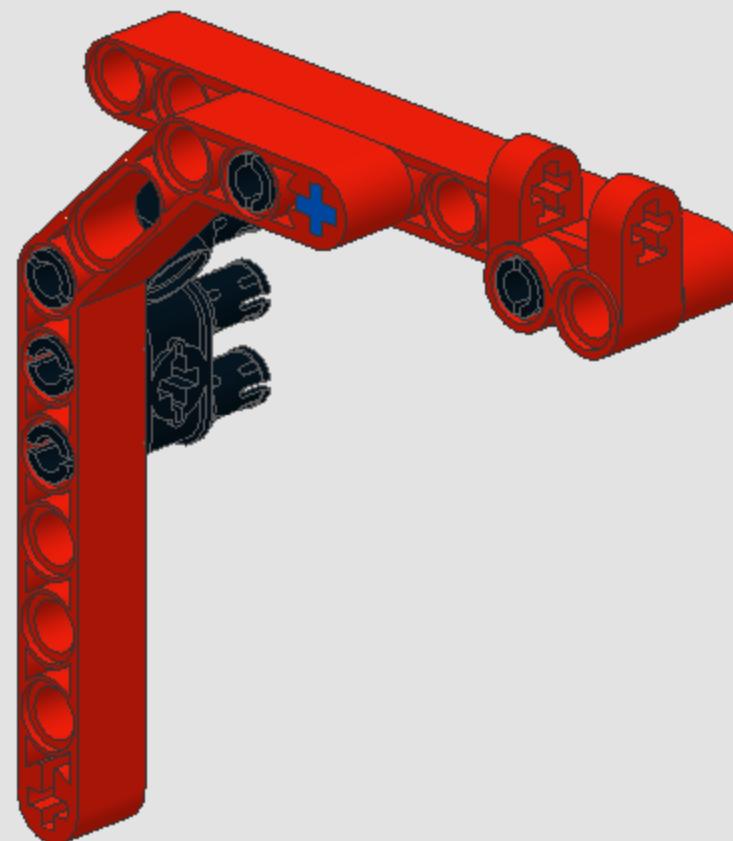
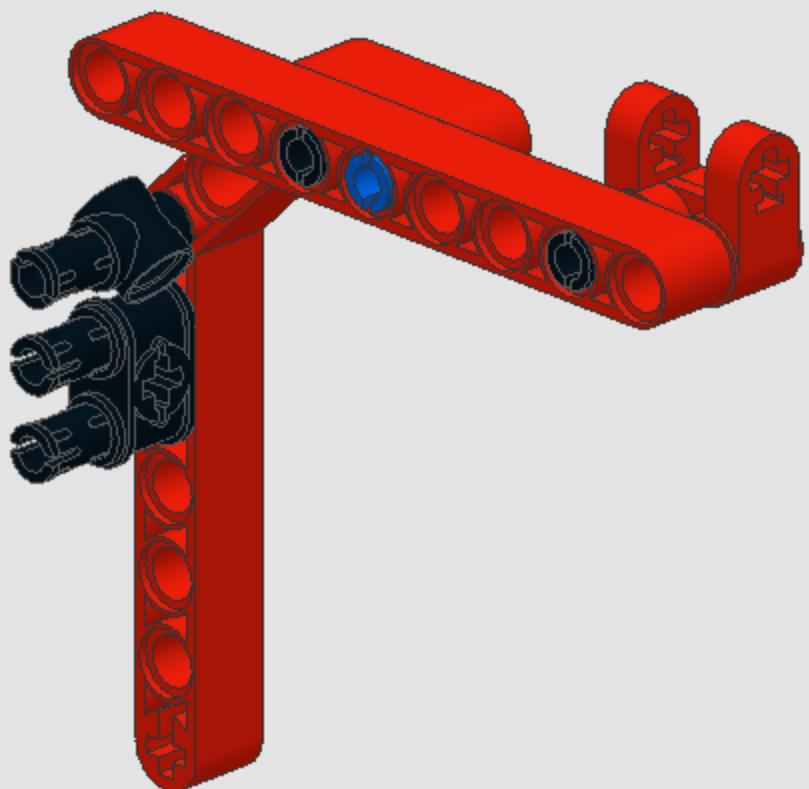


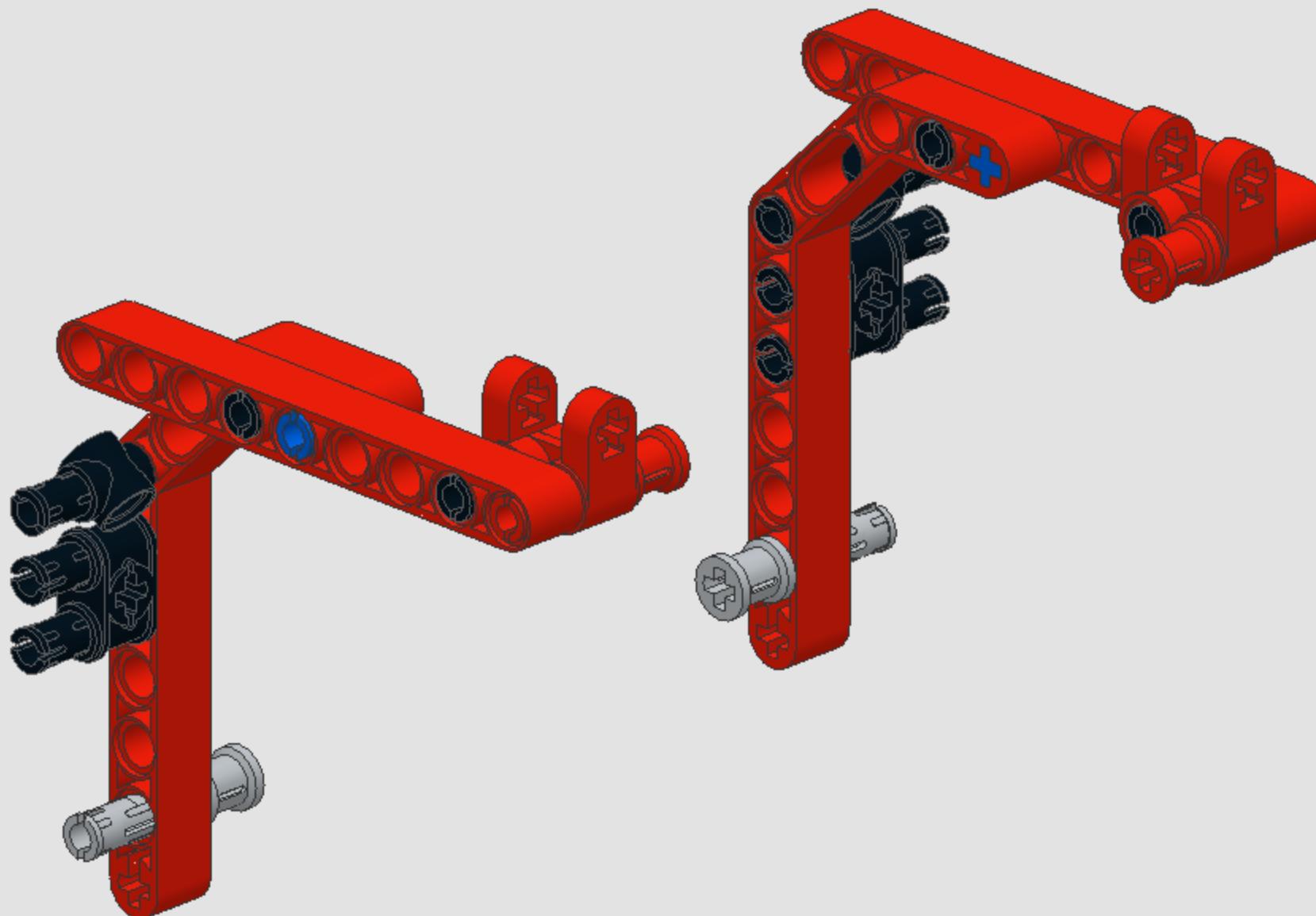


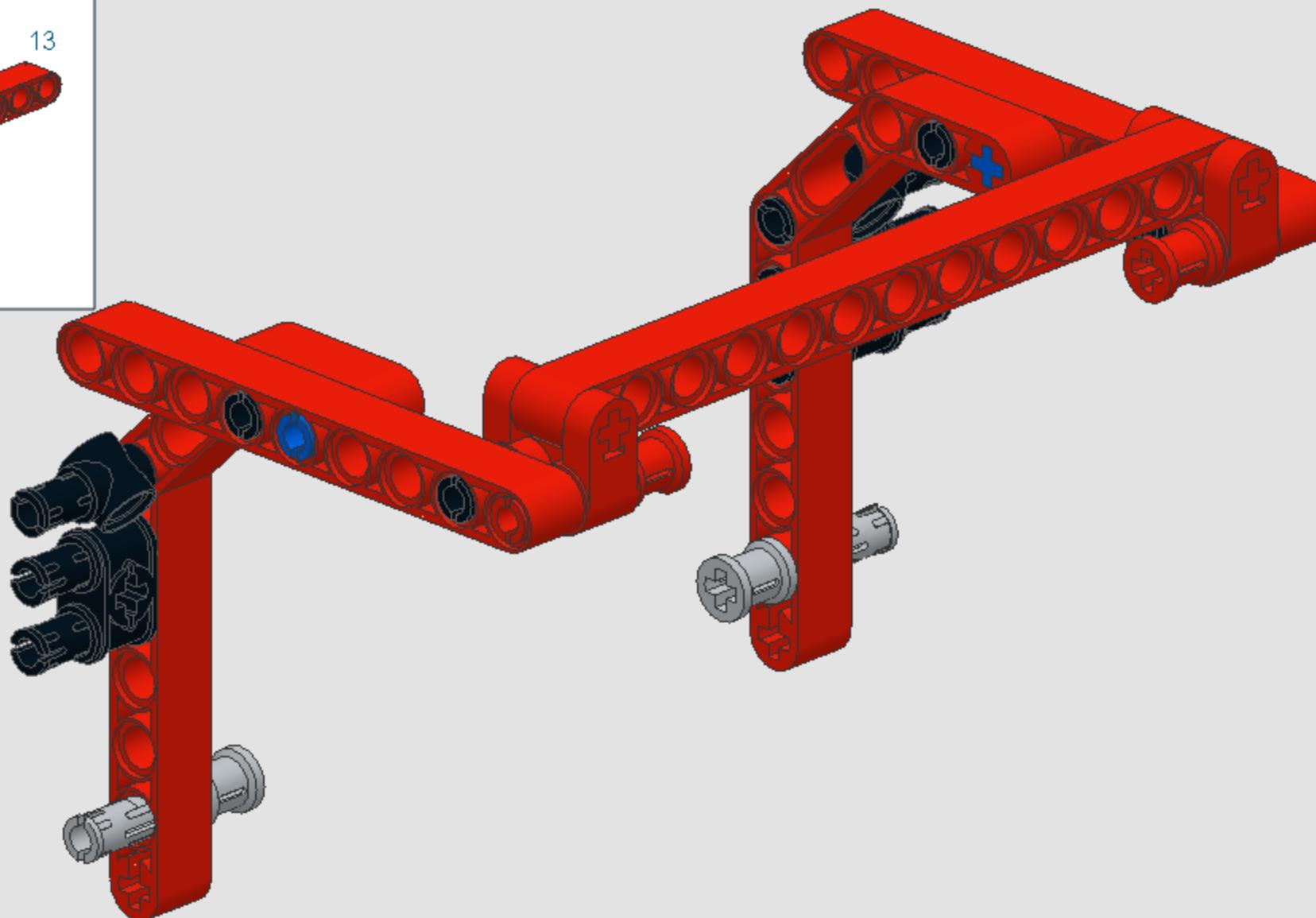
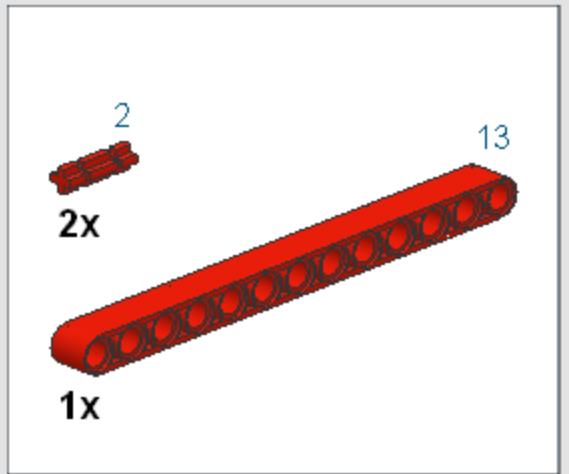


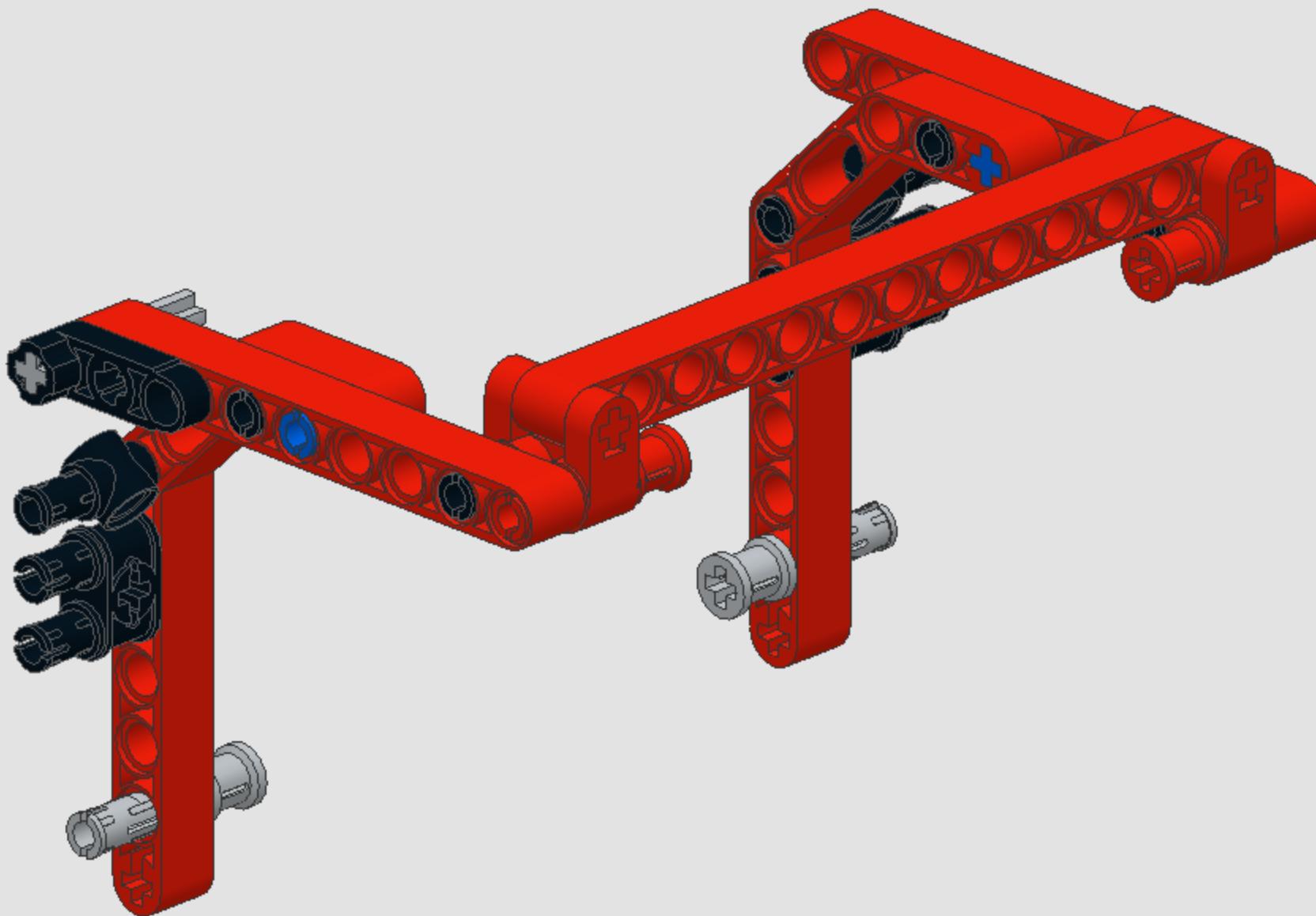
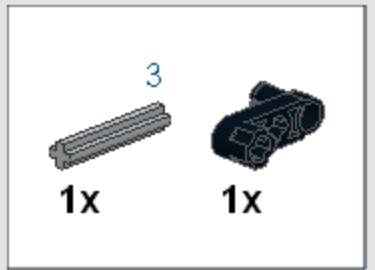




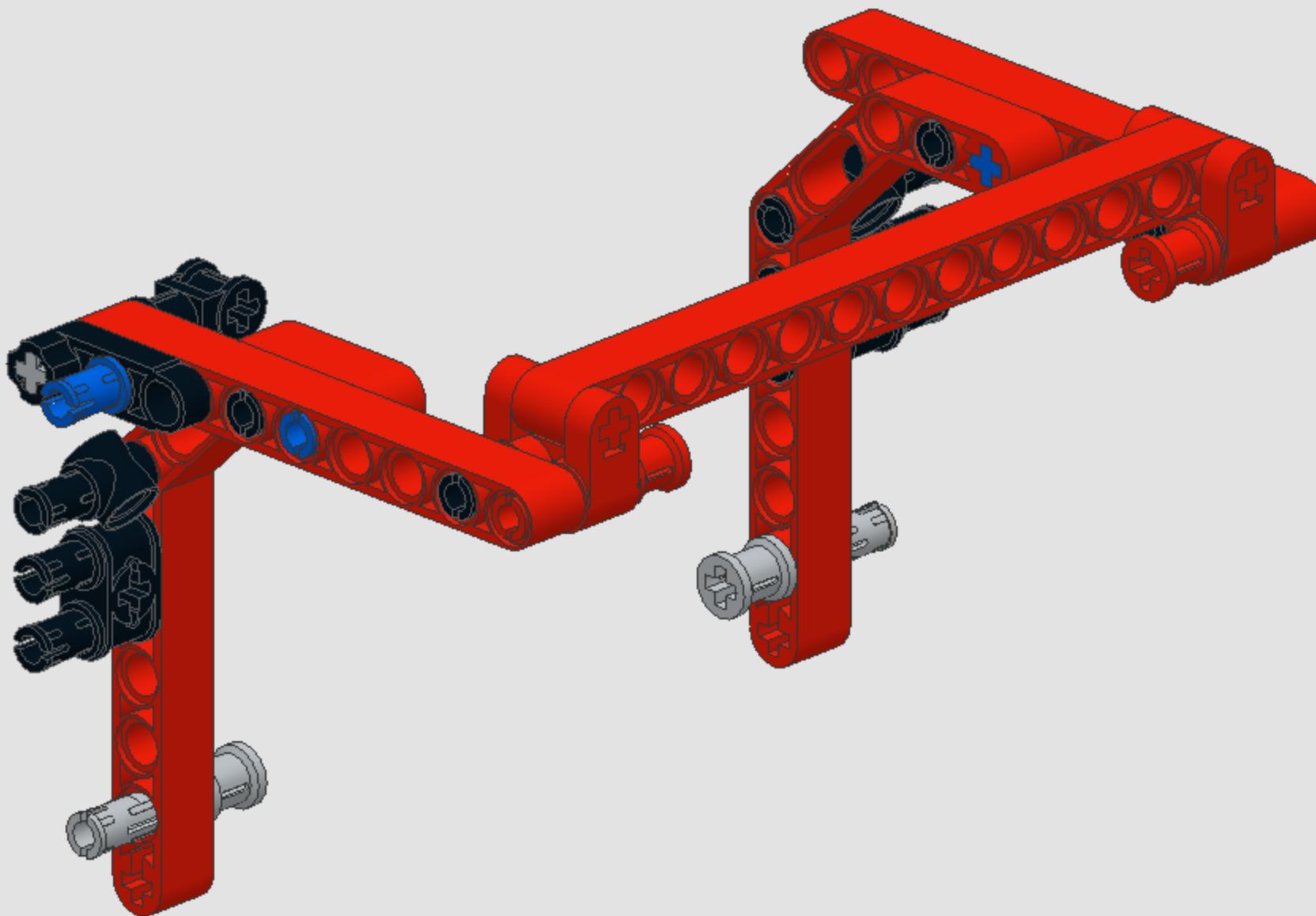


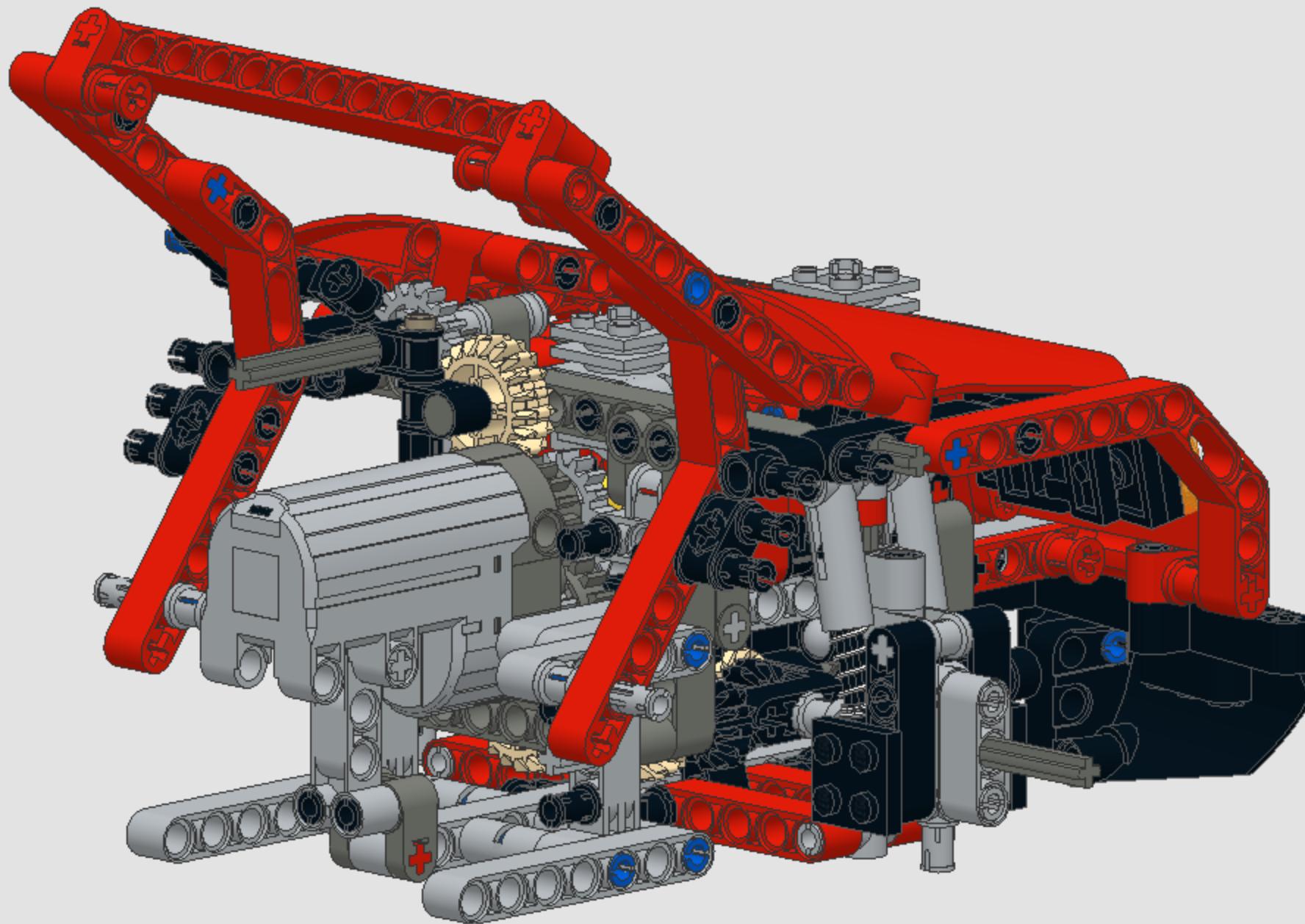






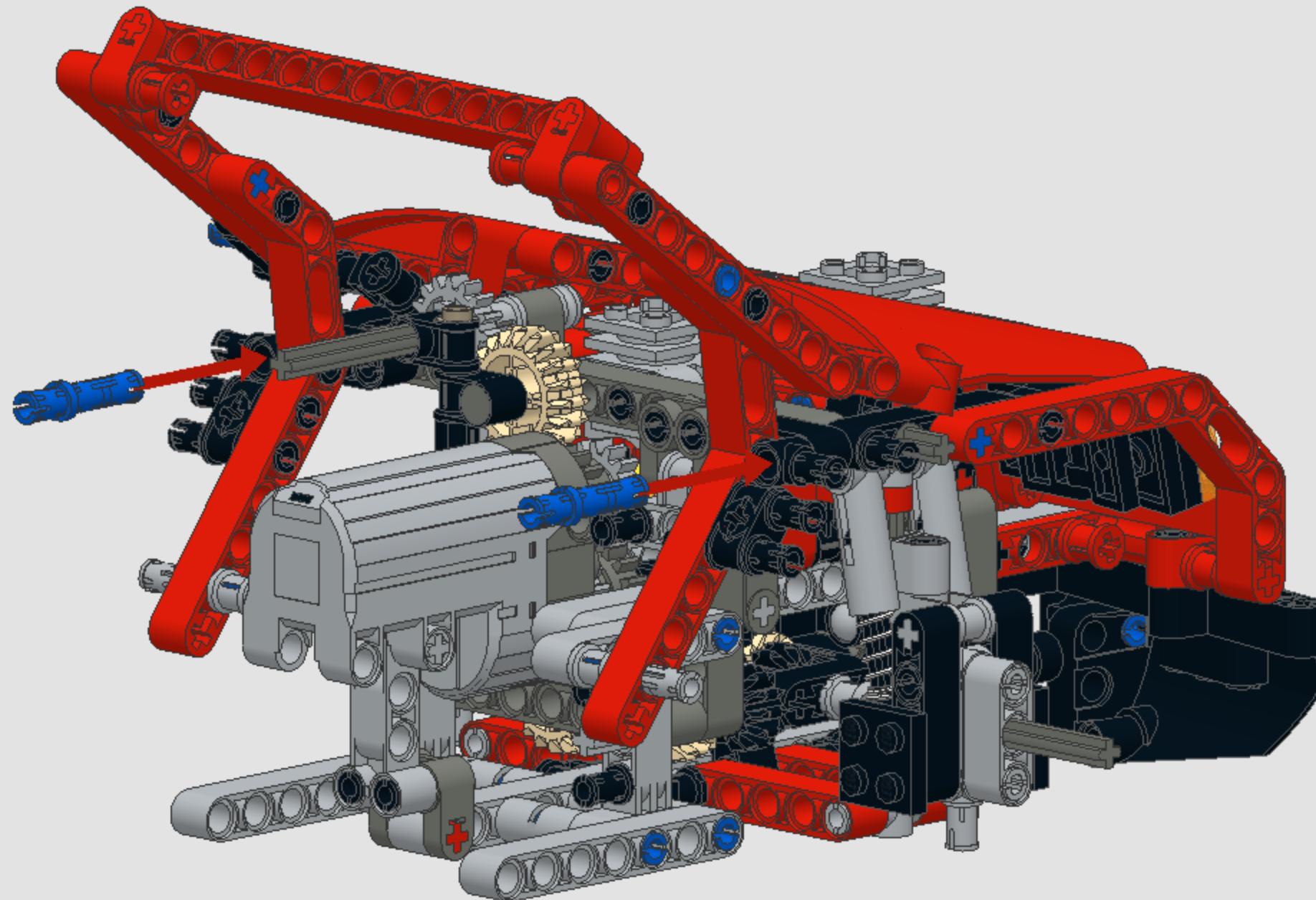
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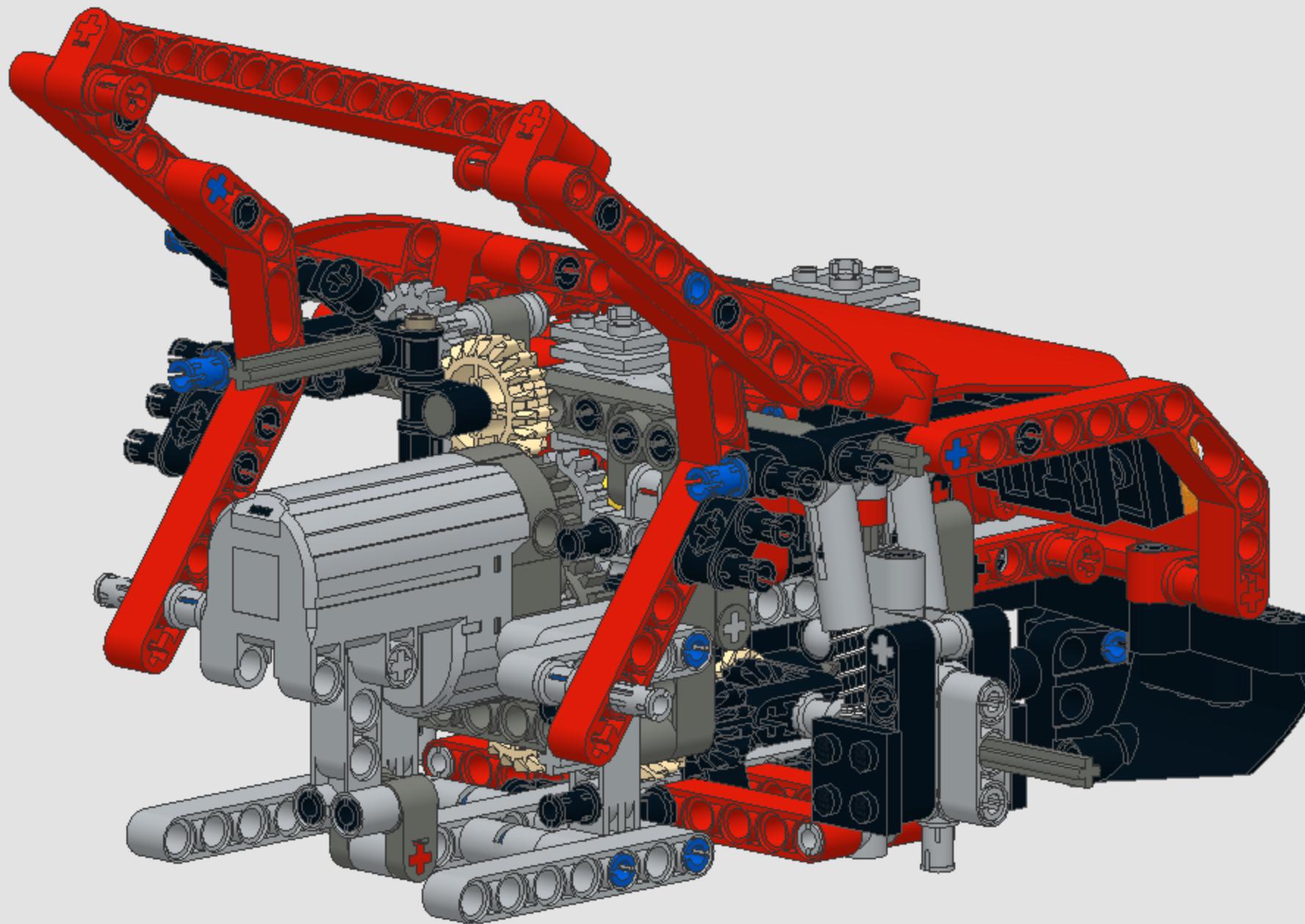


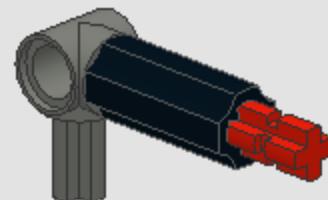
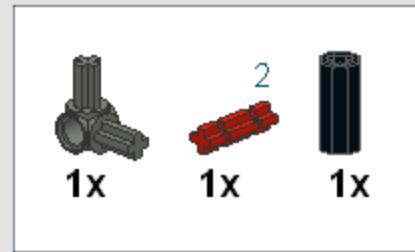
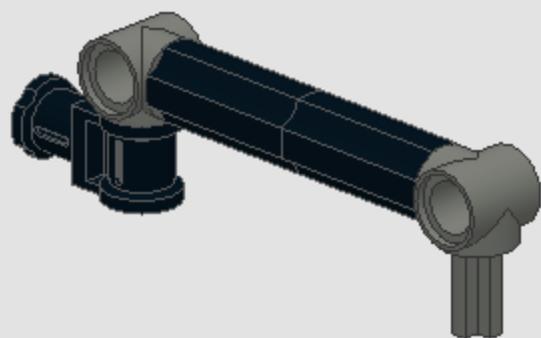
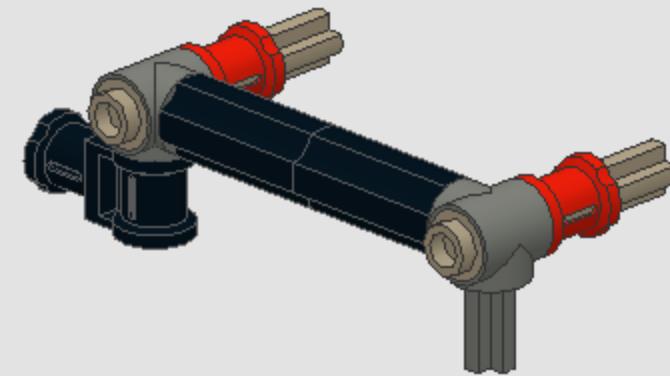
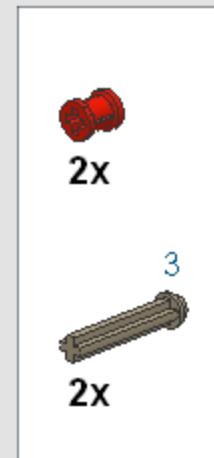
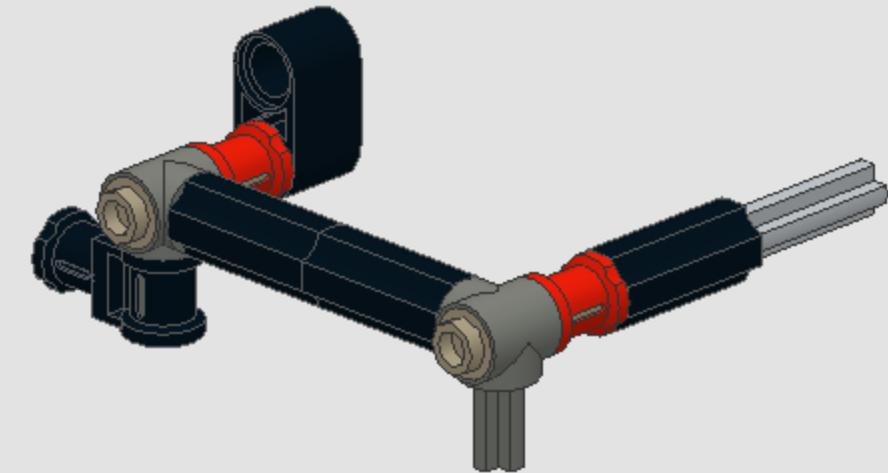




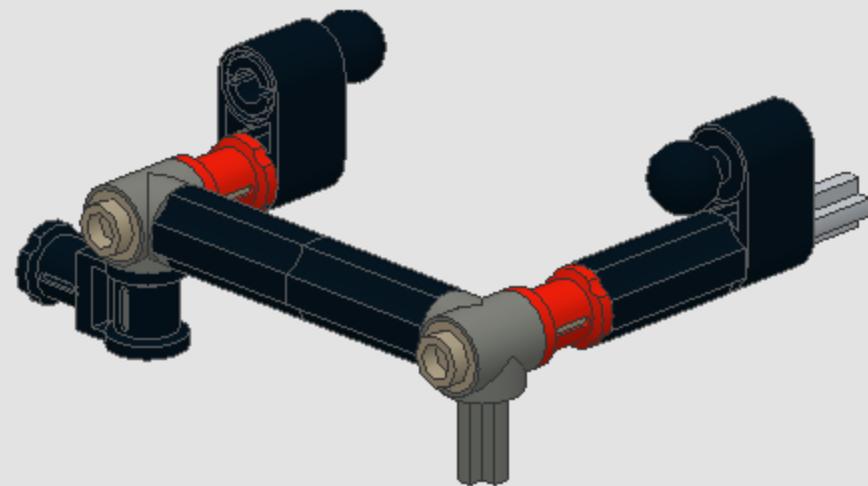
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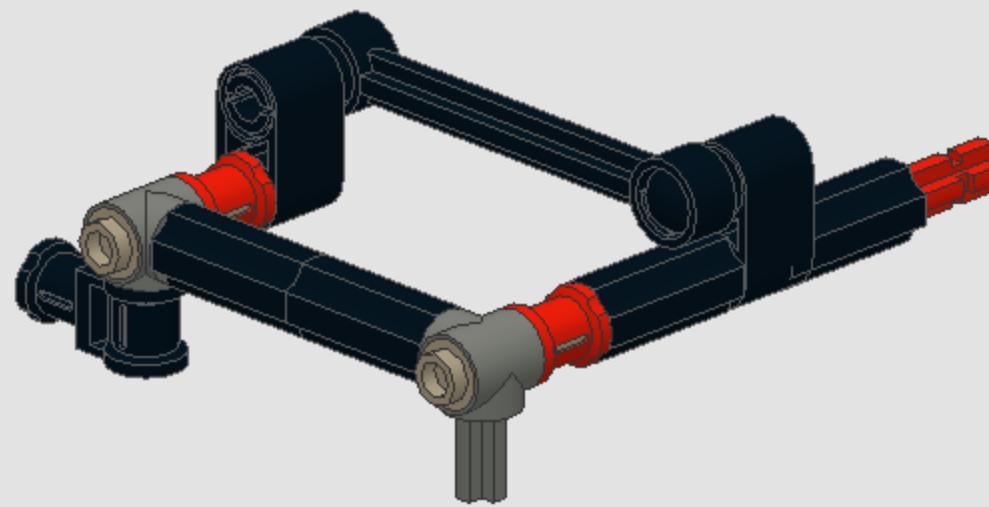
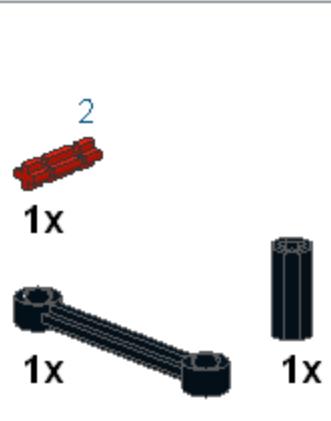


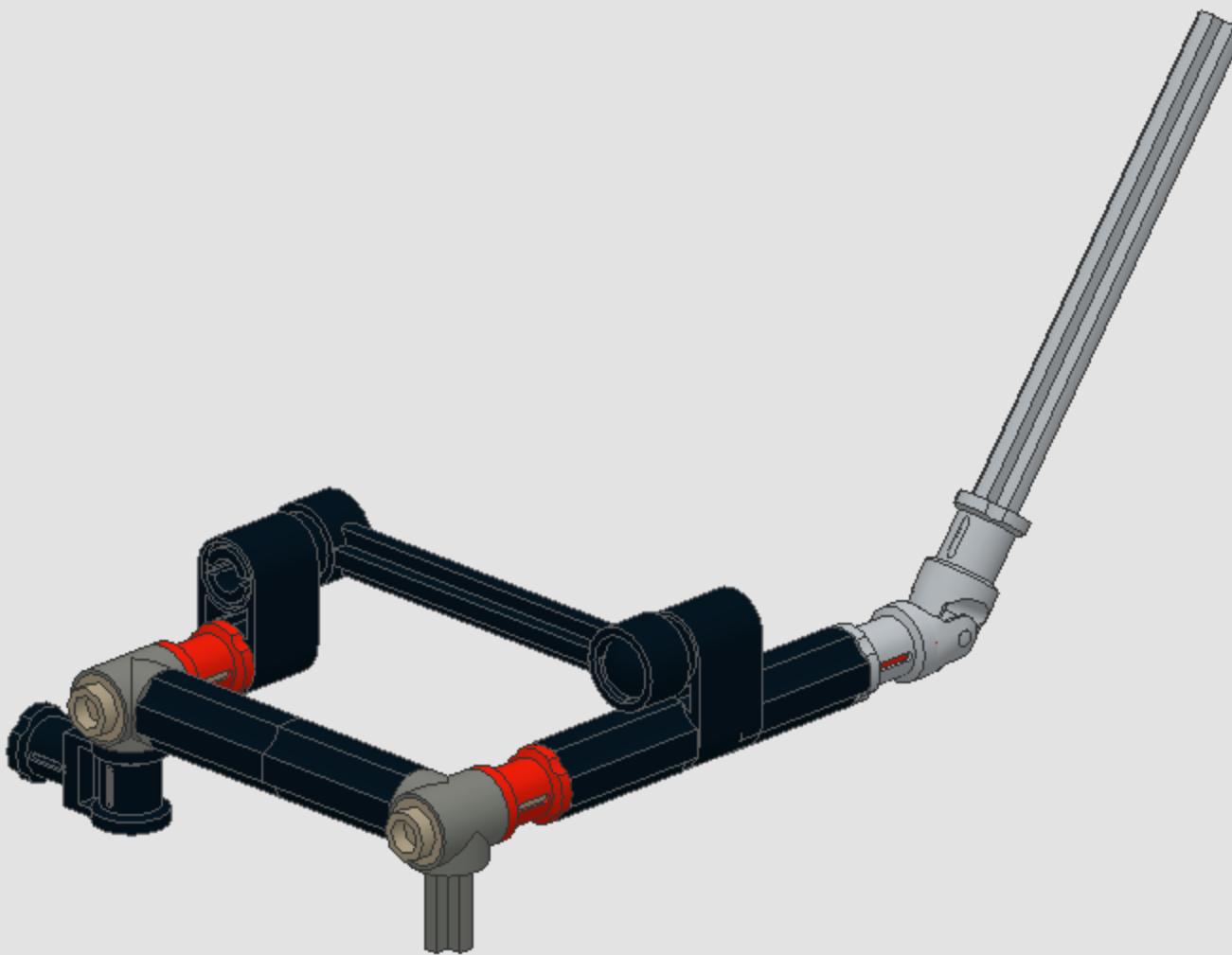
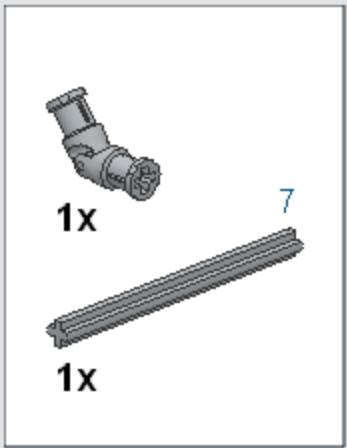
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5



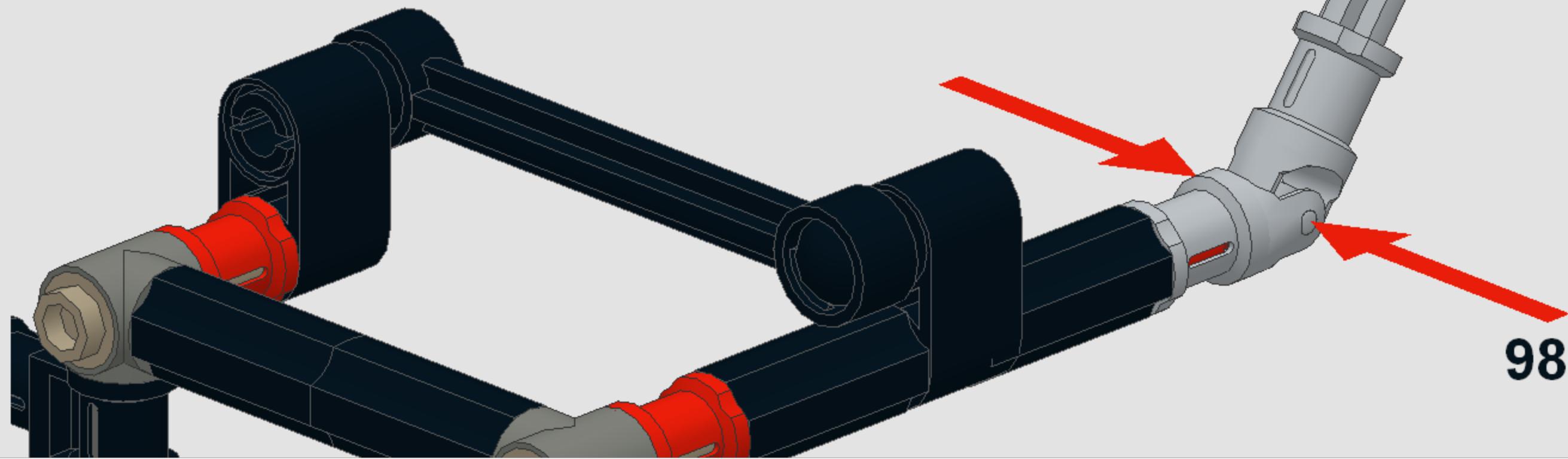
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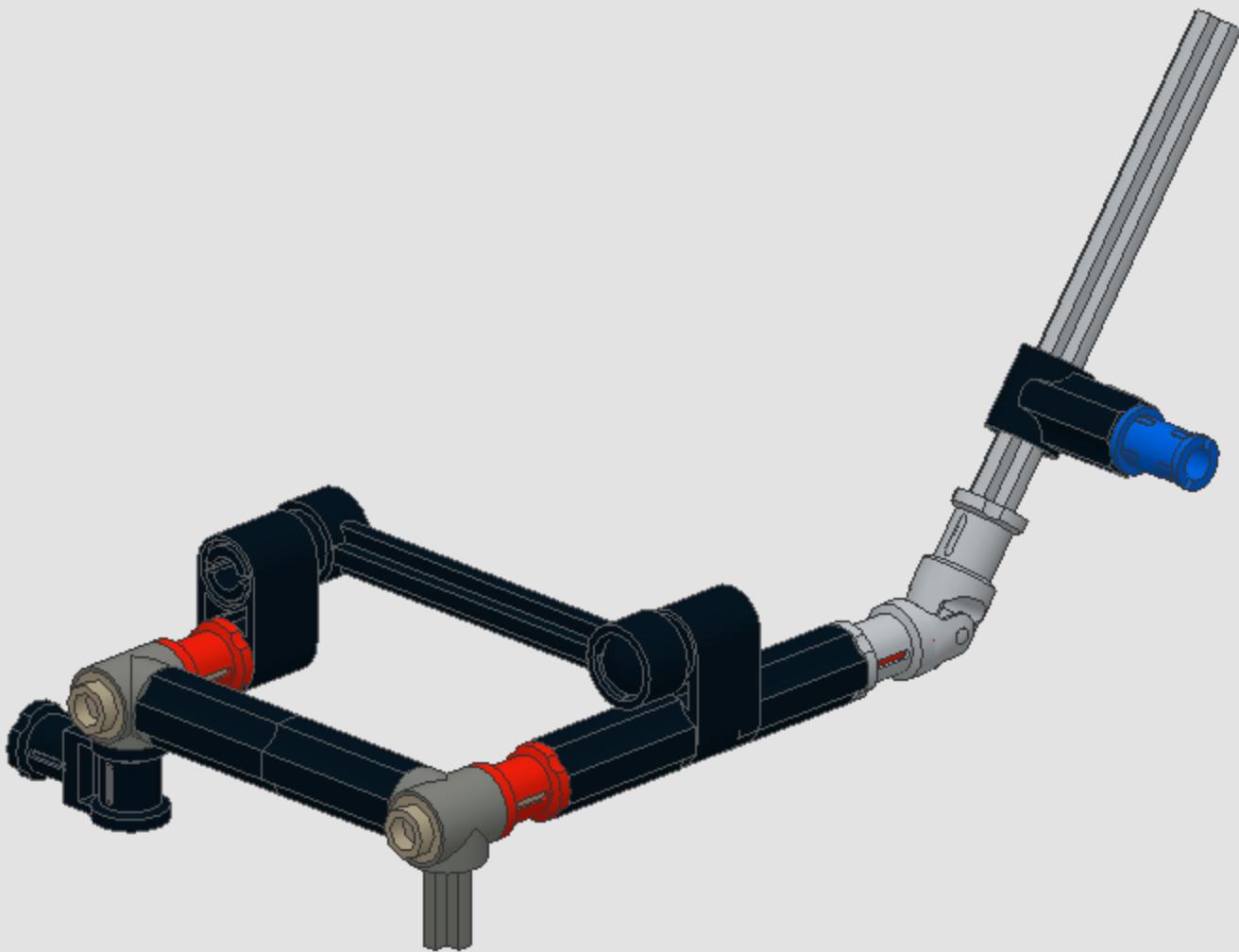
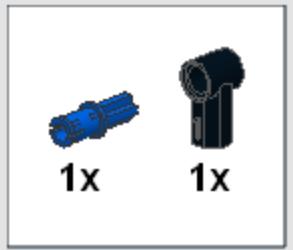


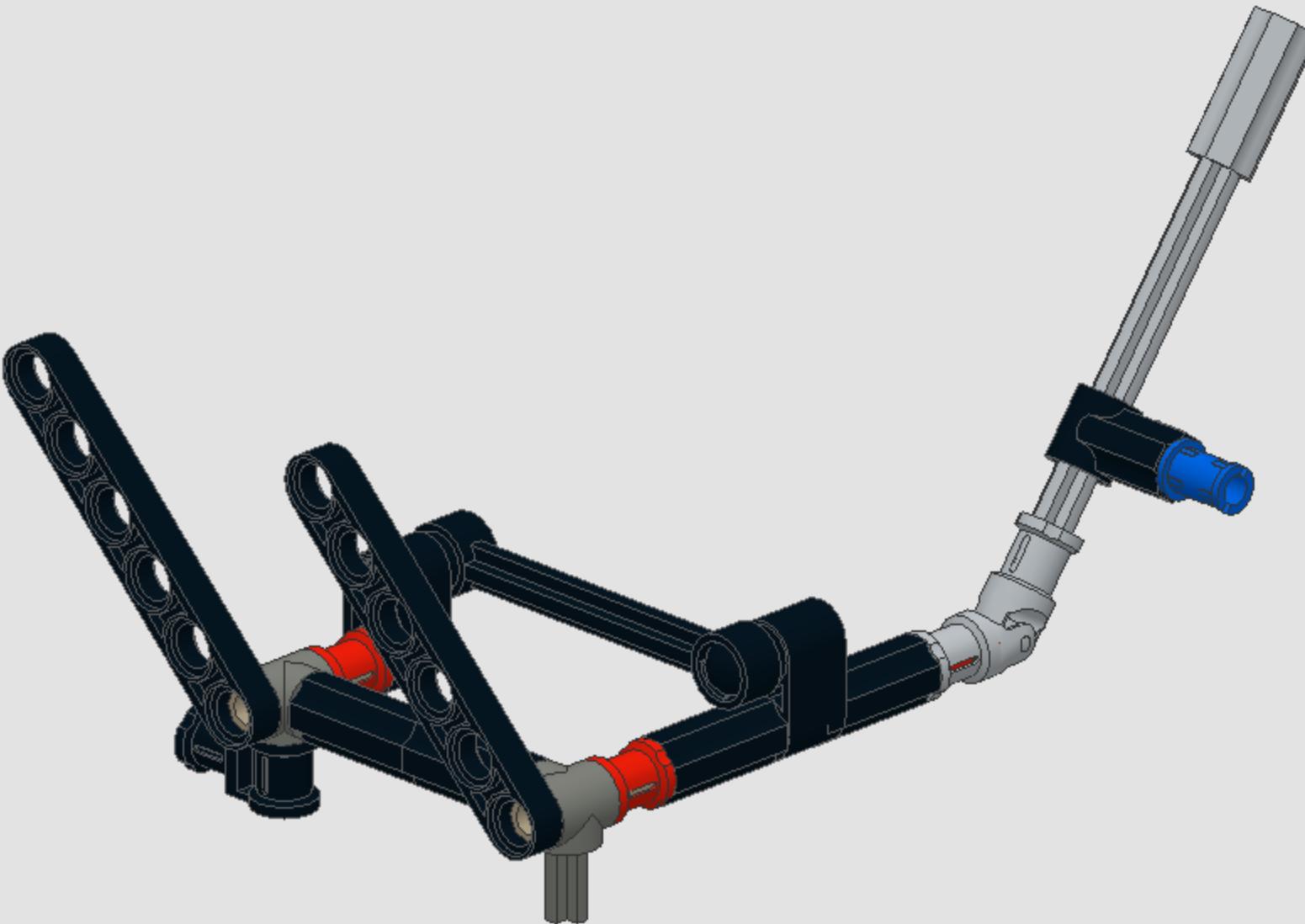
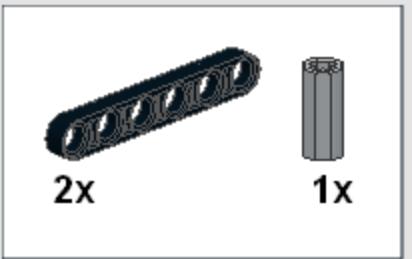


This might sound weird but is actually very important. You have to make sure that the universal joint is in the exact position as in this picture. If it would be rotated by 45 degrees (meaning that the little axle pointed out below is vertical instead of horizontal), much less movement gets transferred through the joint. Try it yourself!

If you get this wrong, the movement of the windscreen wipers will not cover the complete windscreen. It will be really difficult to take the model apart and correct this afterwards. Make sure you get it right!



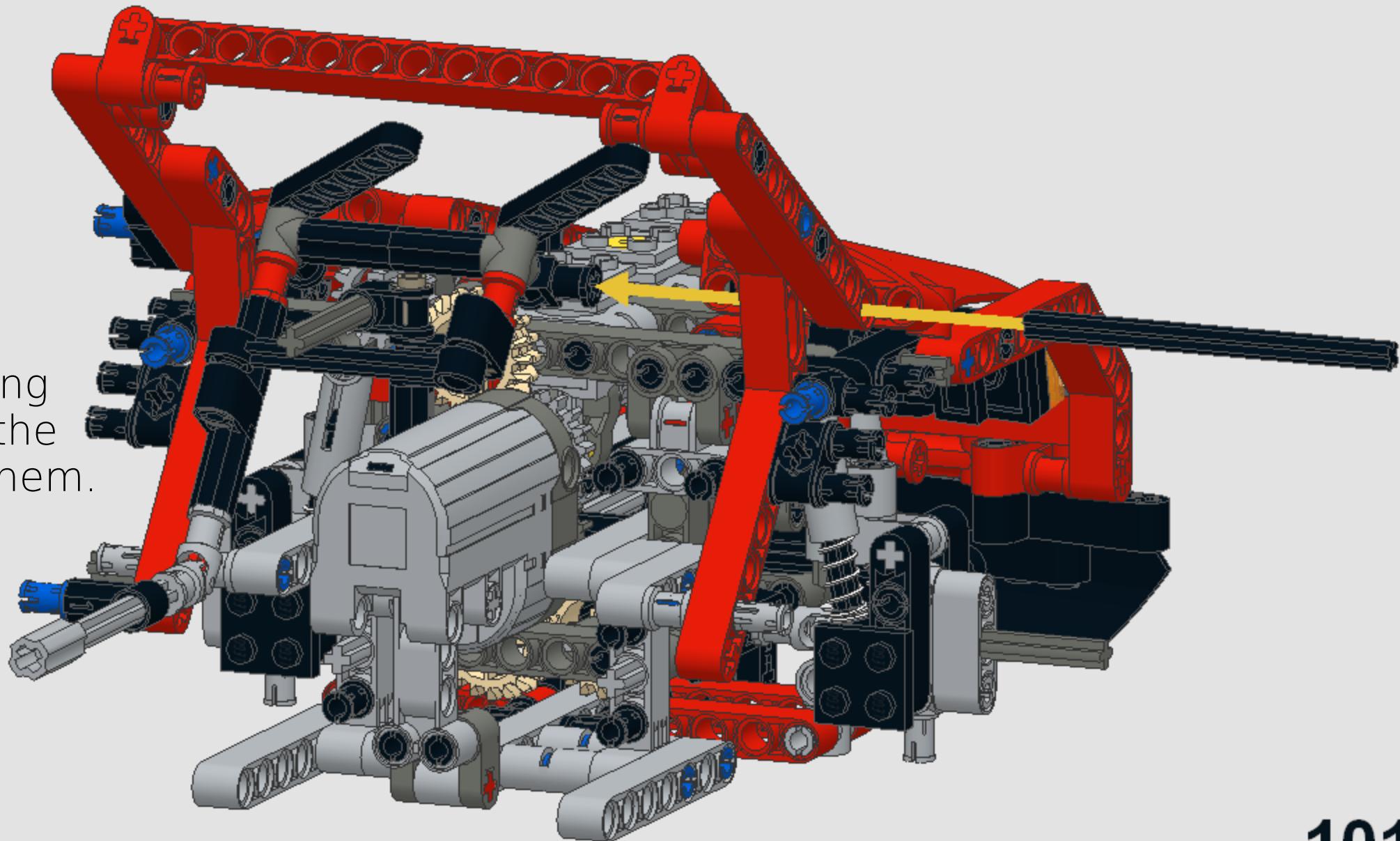


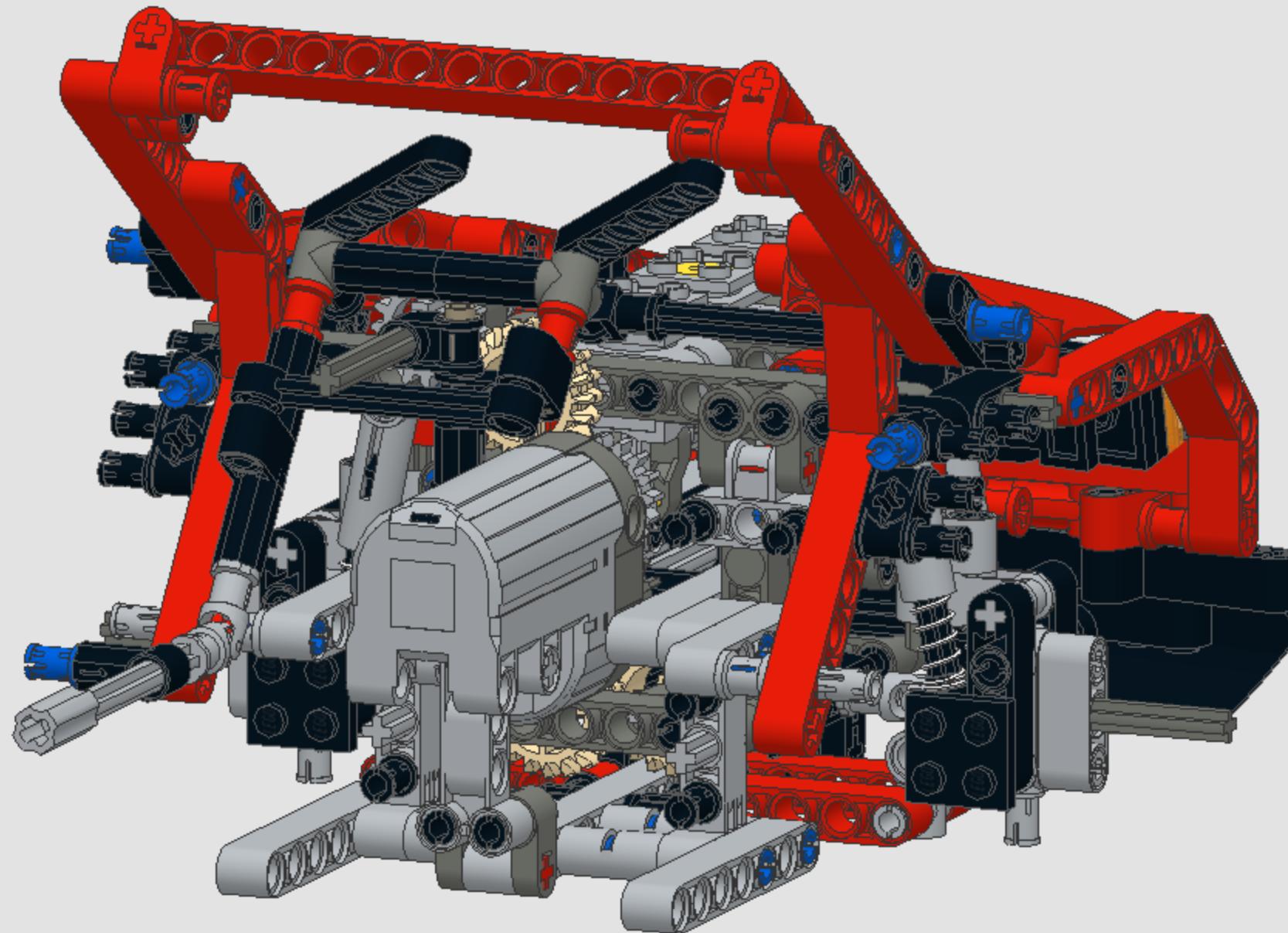
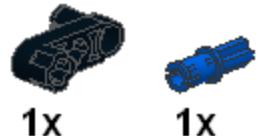


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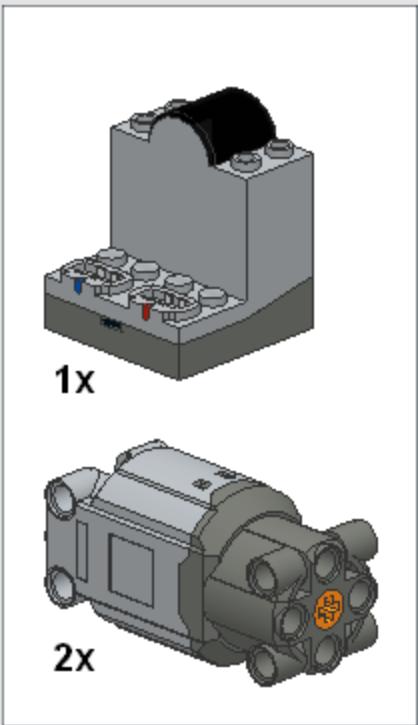


The wipers are above the steering wheel axle, but the link is beneath them.

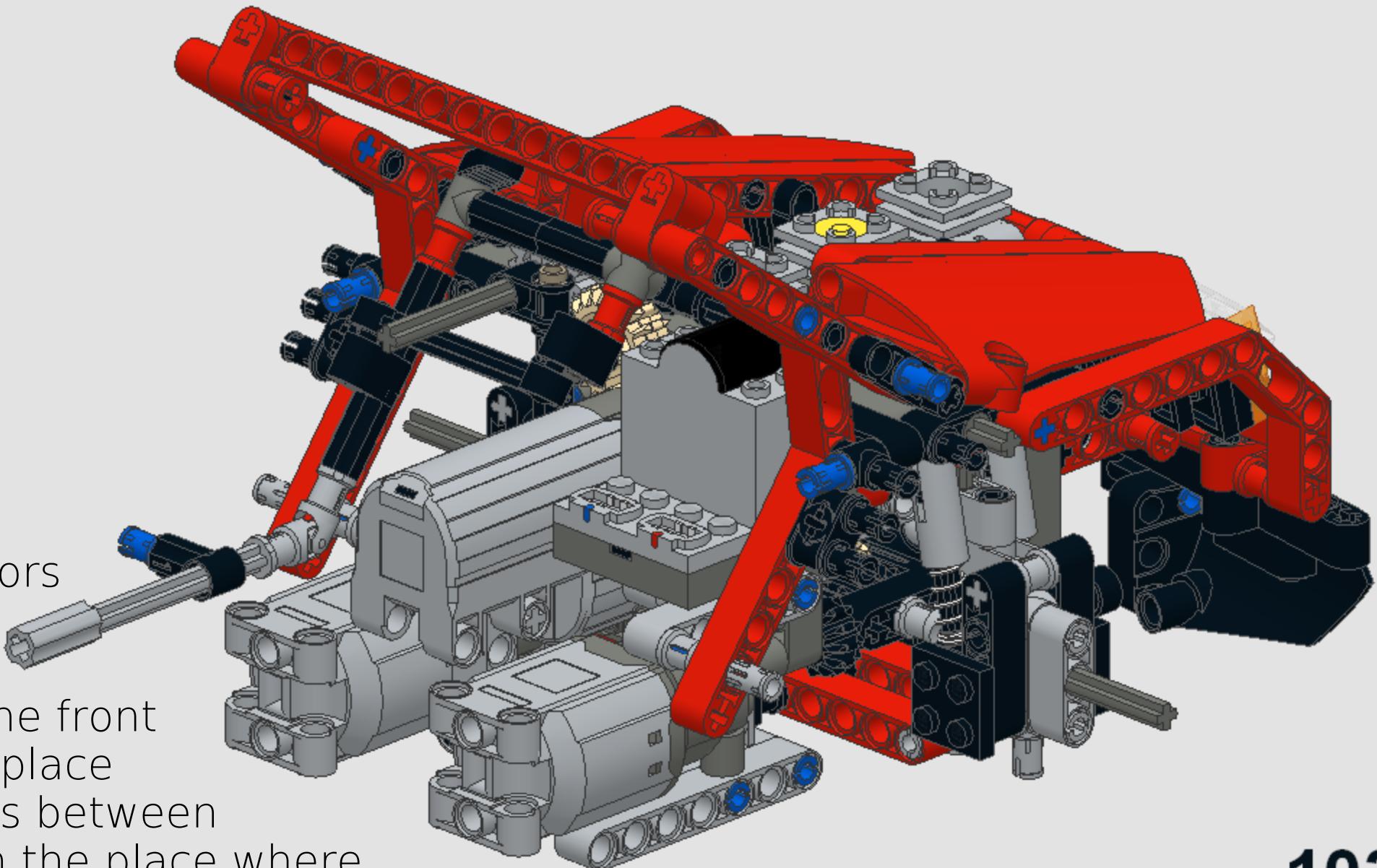


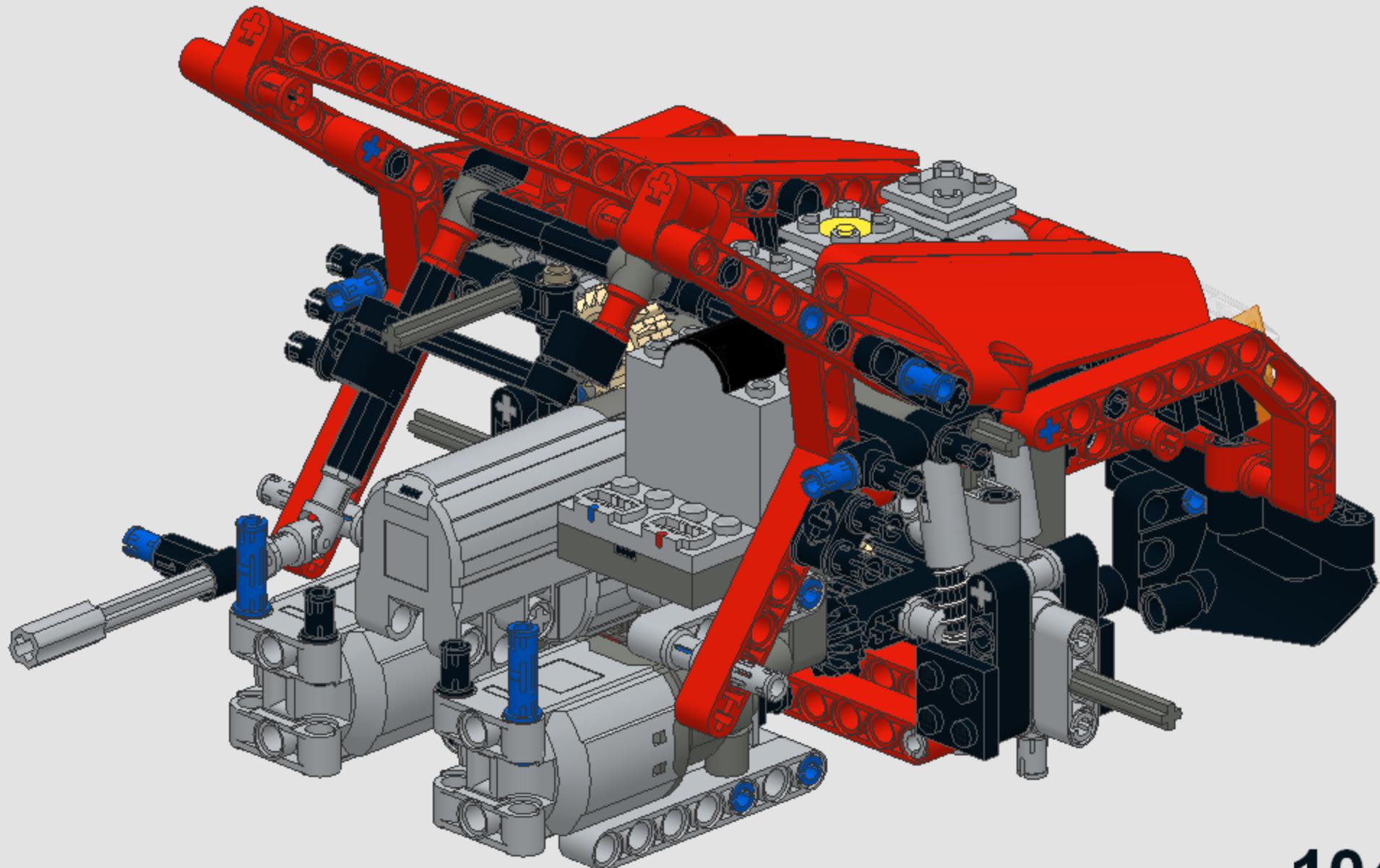


102

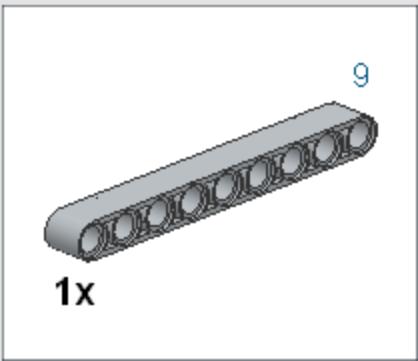


Connect all the motors to the IR receiver. Try to keep all the cables as much in the front as possible. A good place to tuck them away is between the L-motors, and in the place where the passenger's feet would go.

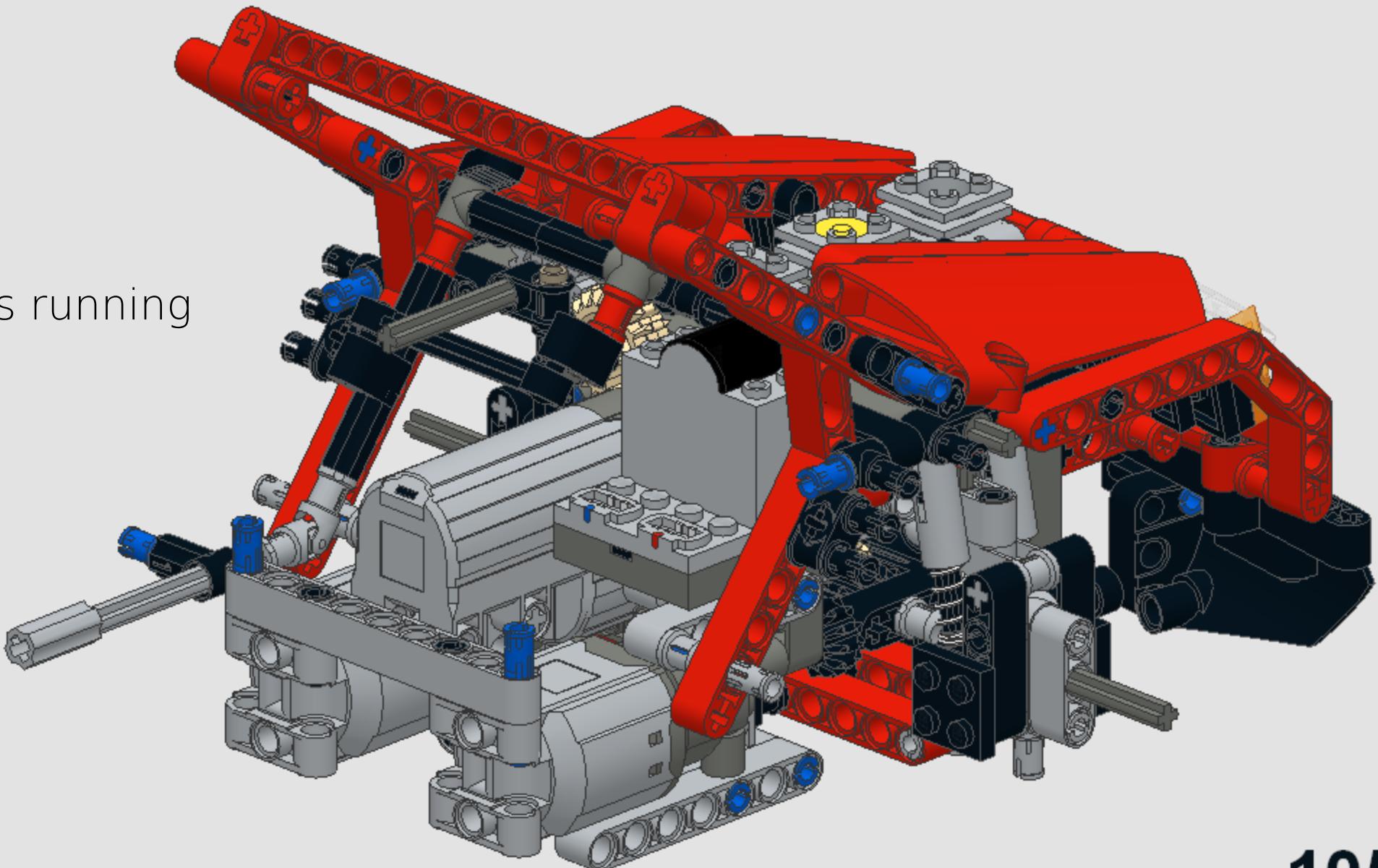


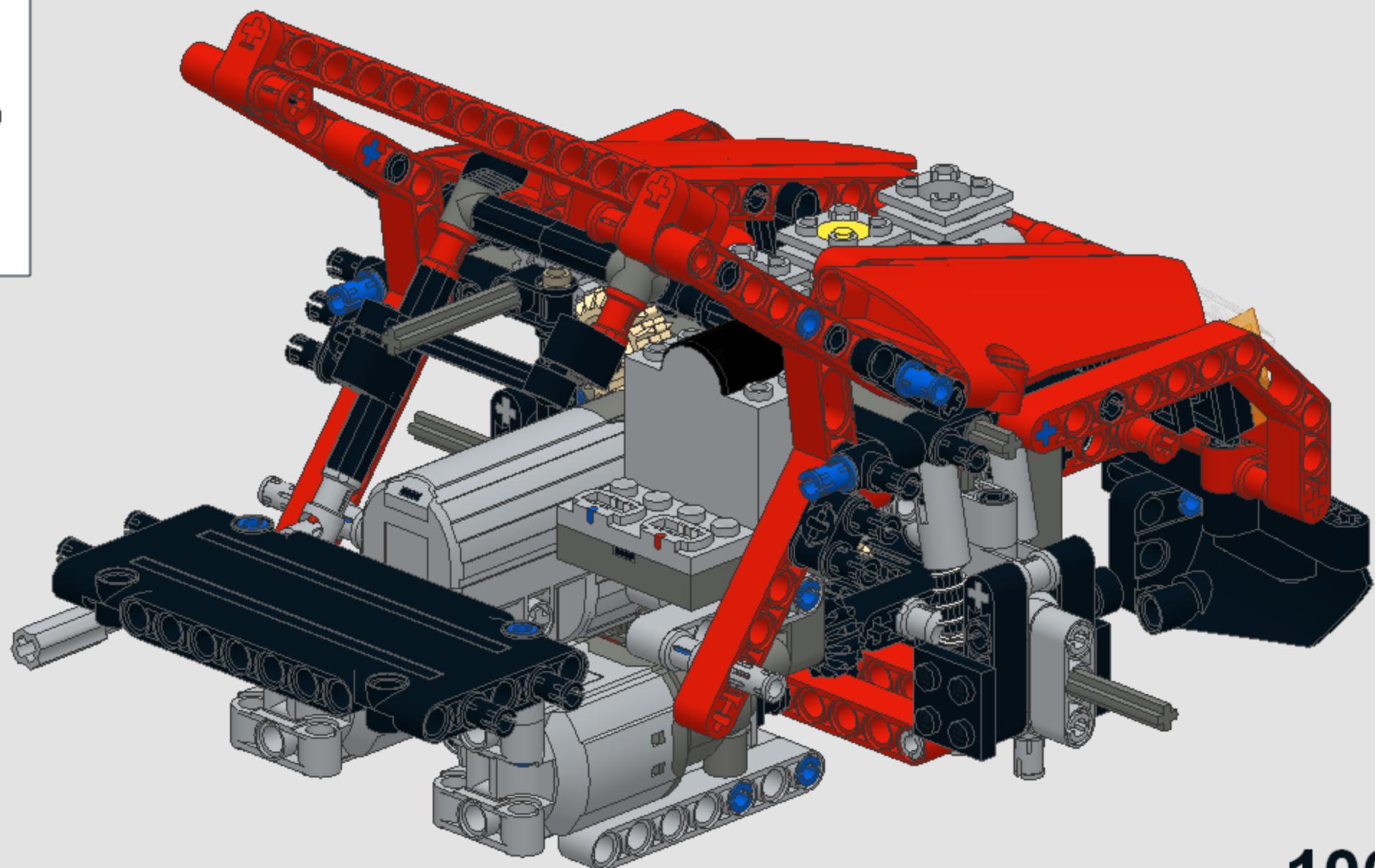
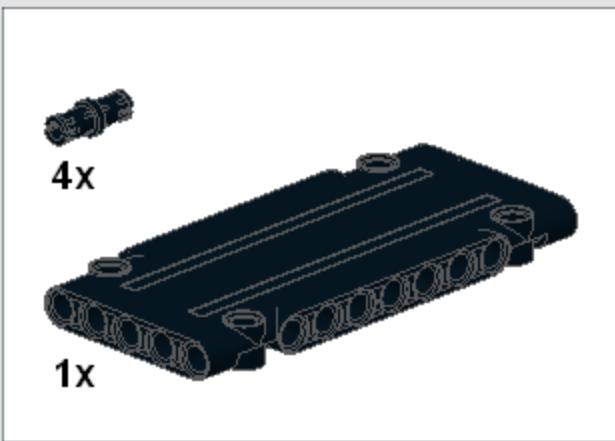


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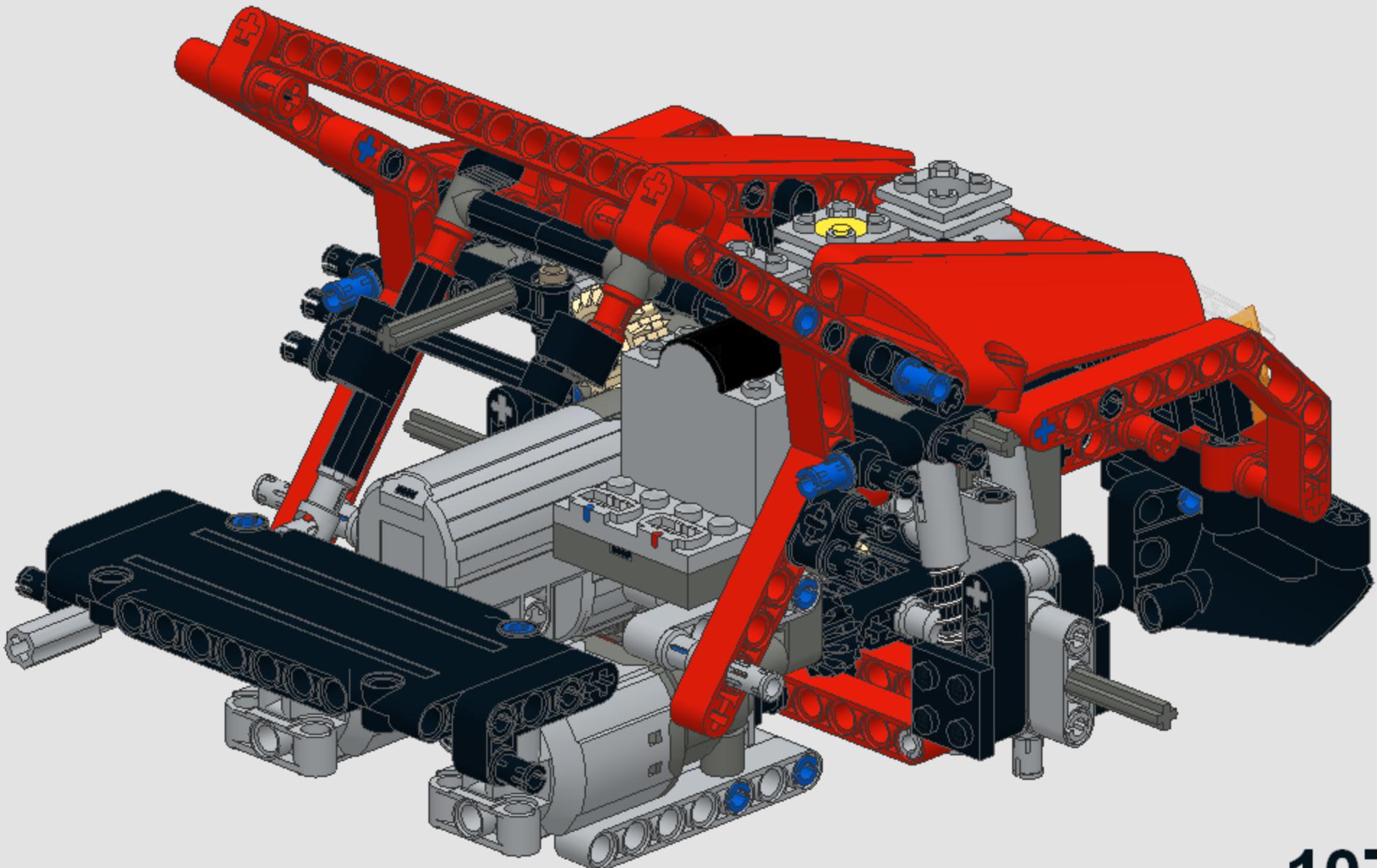
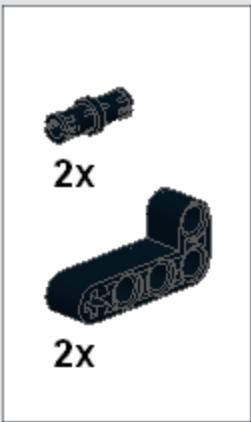


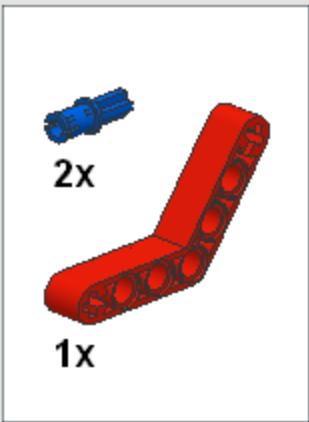
Try to have no wires running
behind this beam.



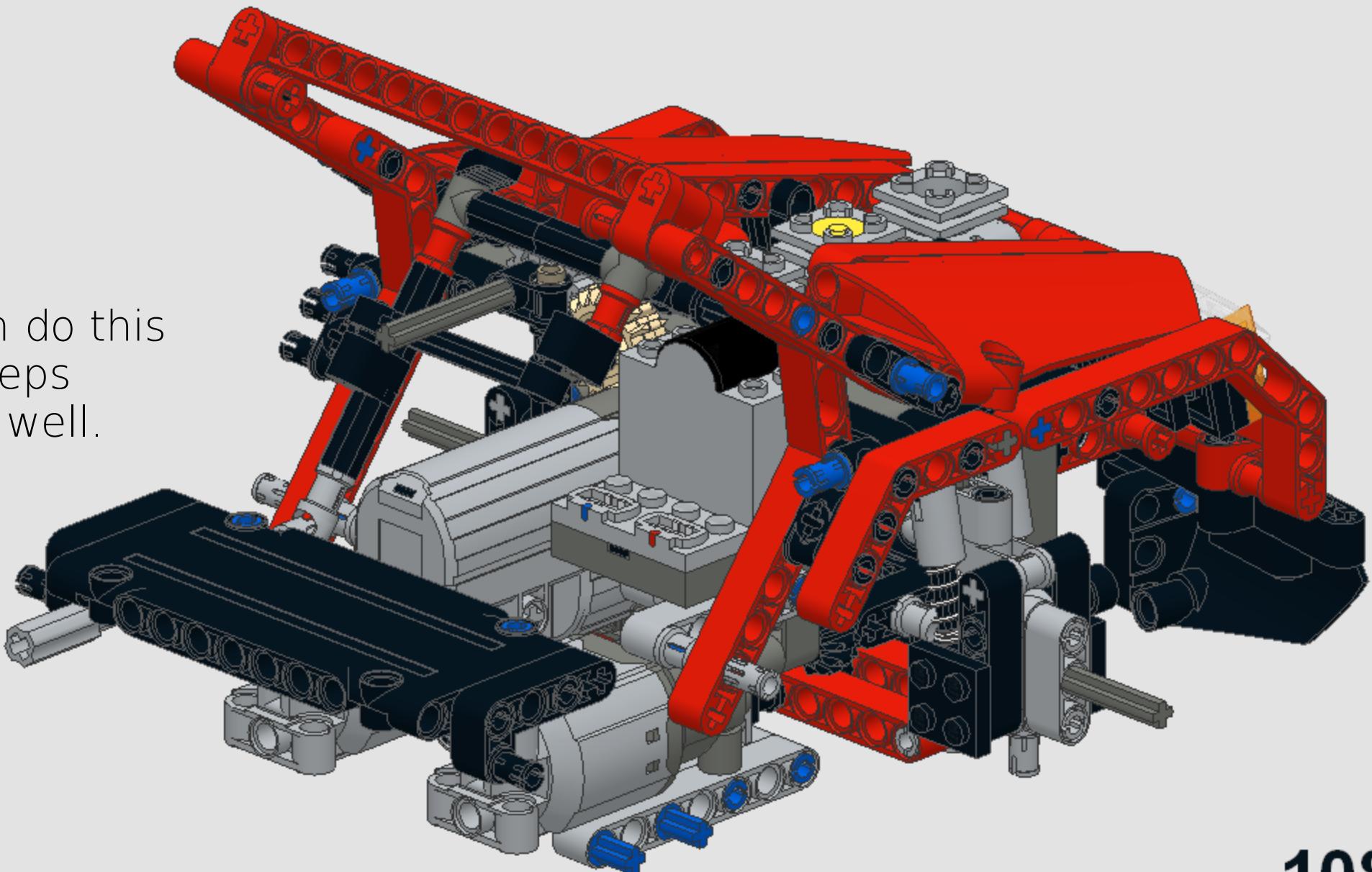


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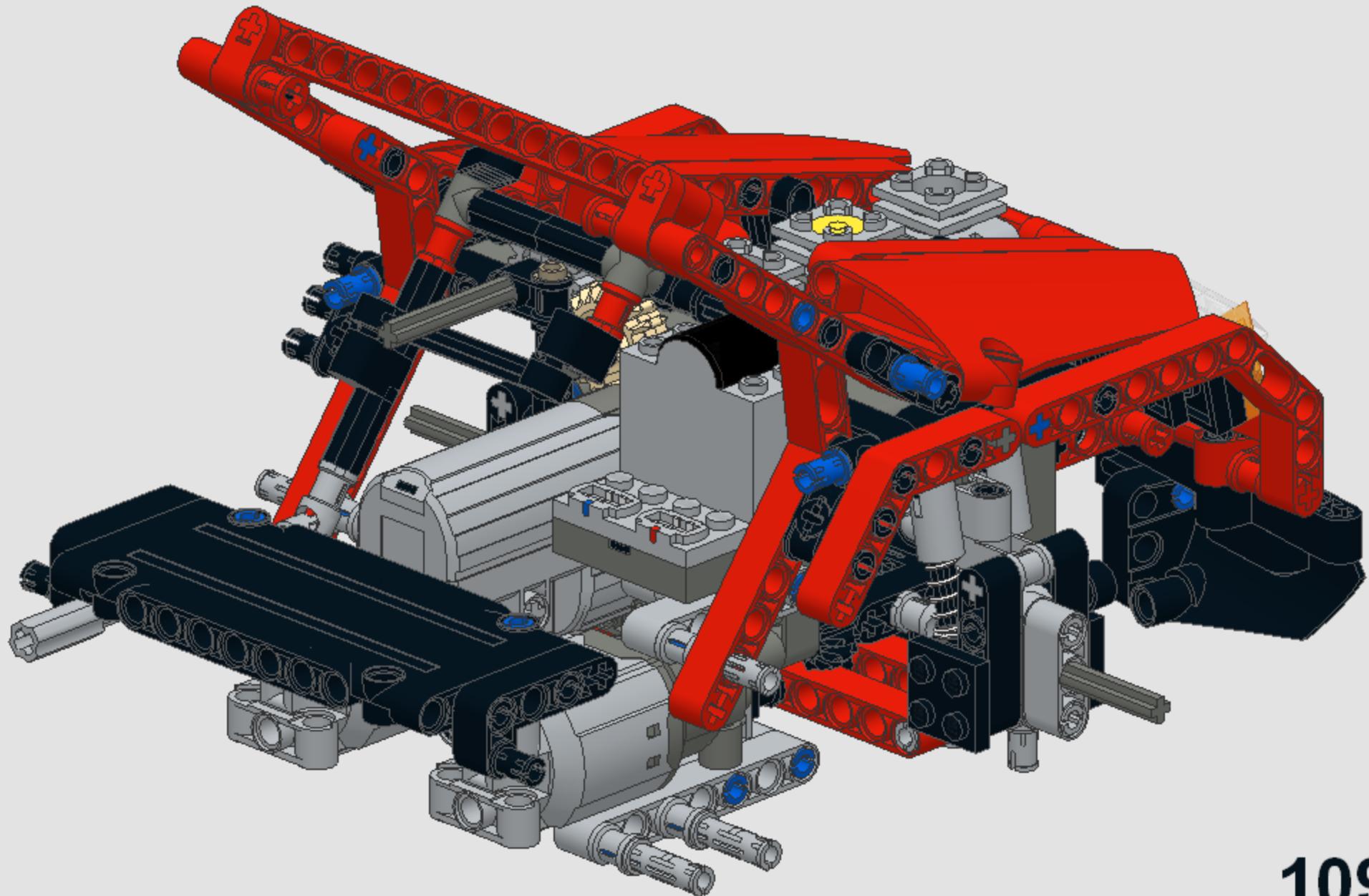


If you want, you can do this
and the following steps
to the other side as well.

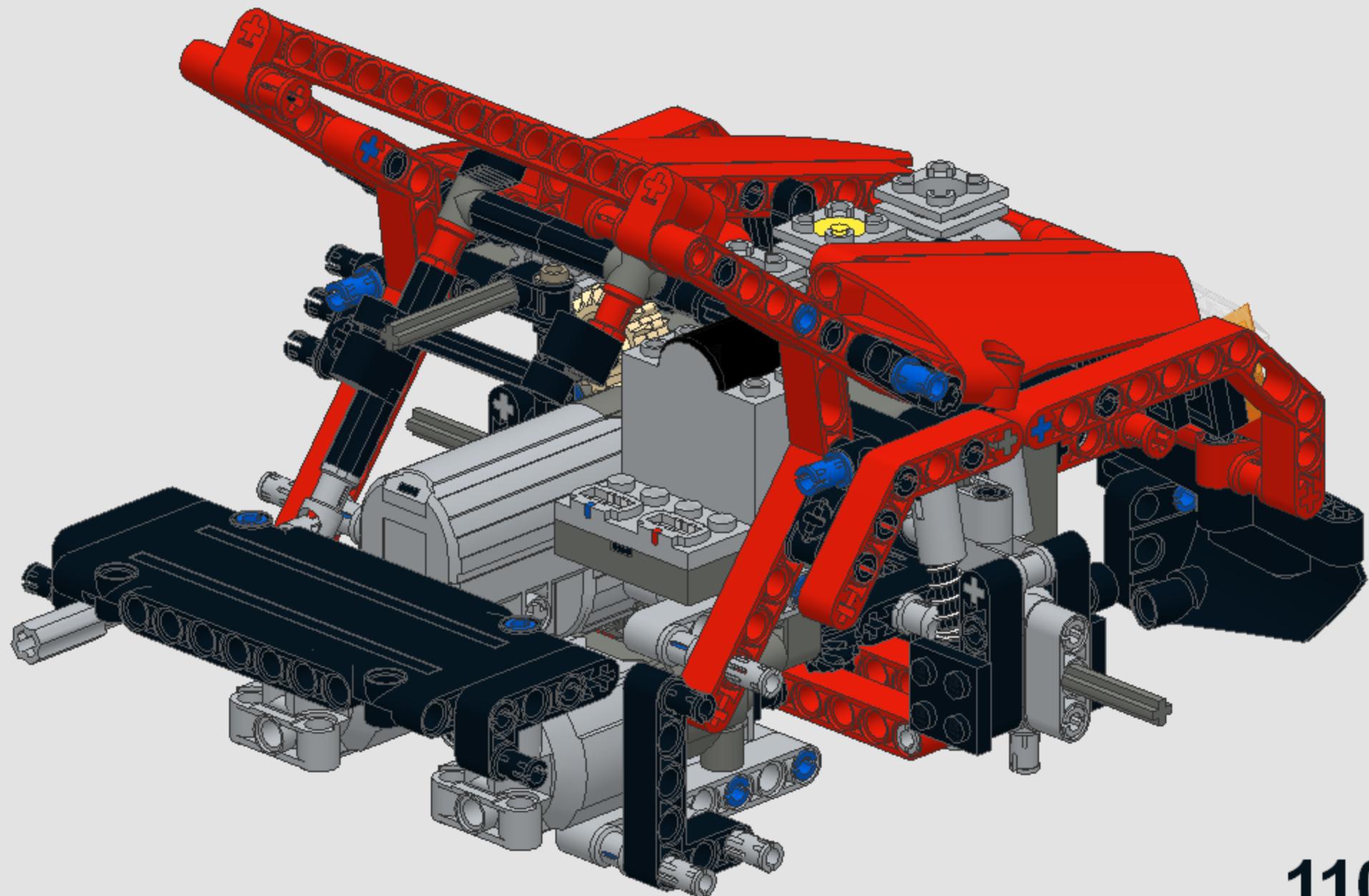
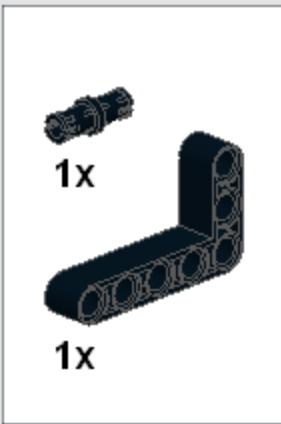




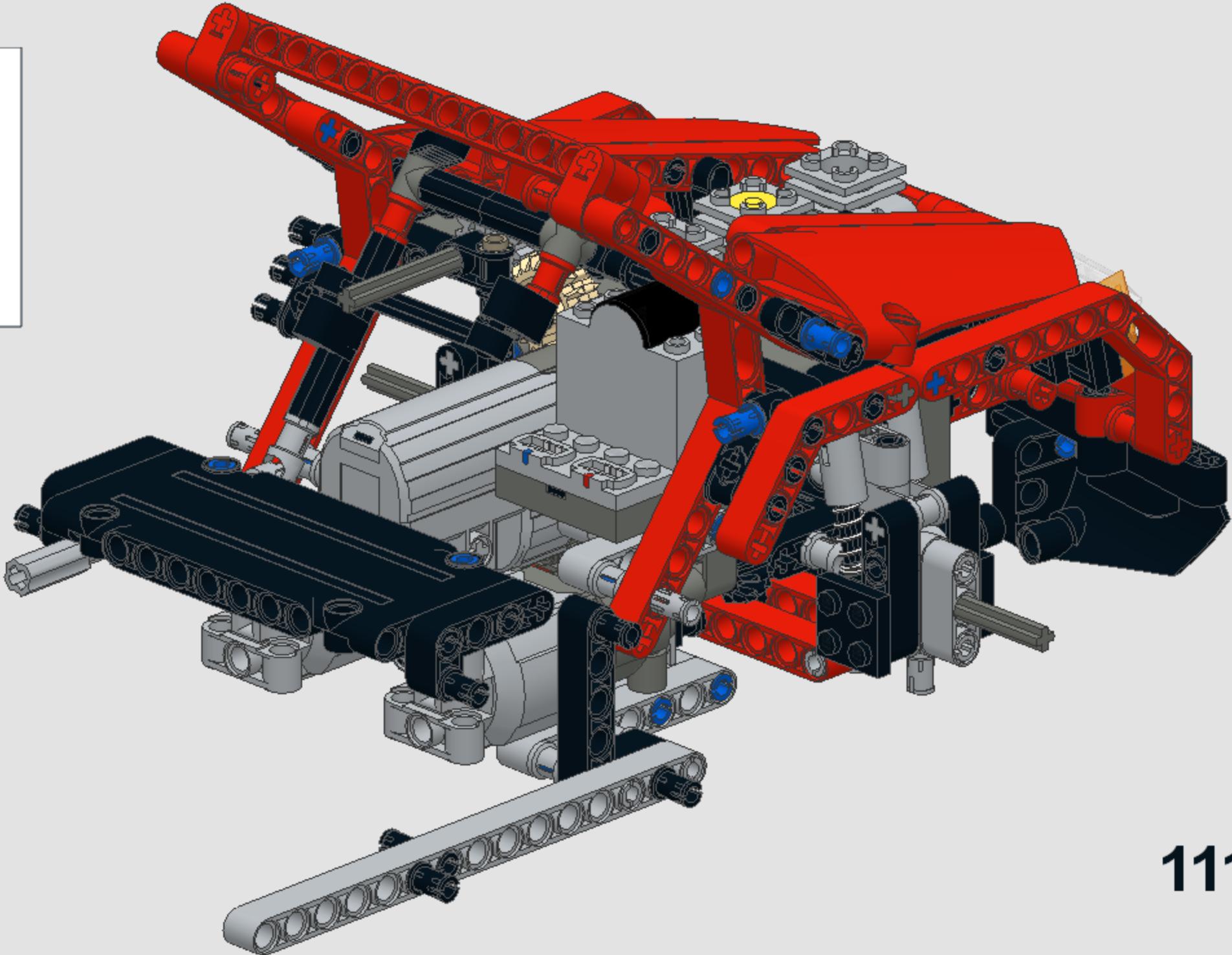
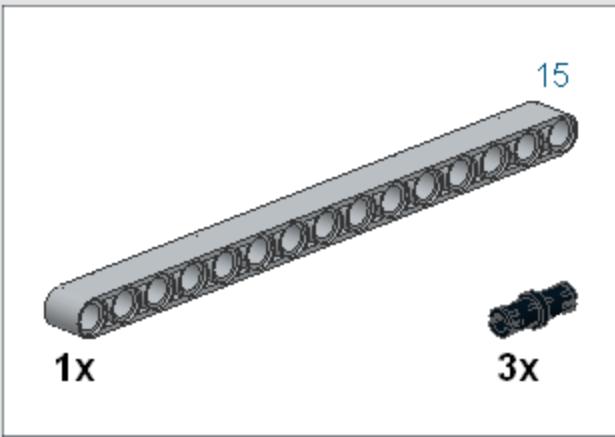
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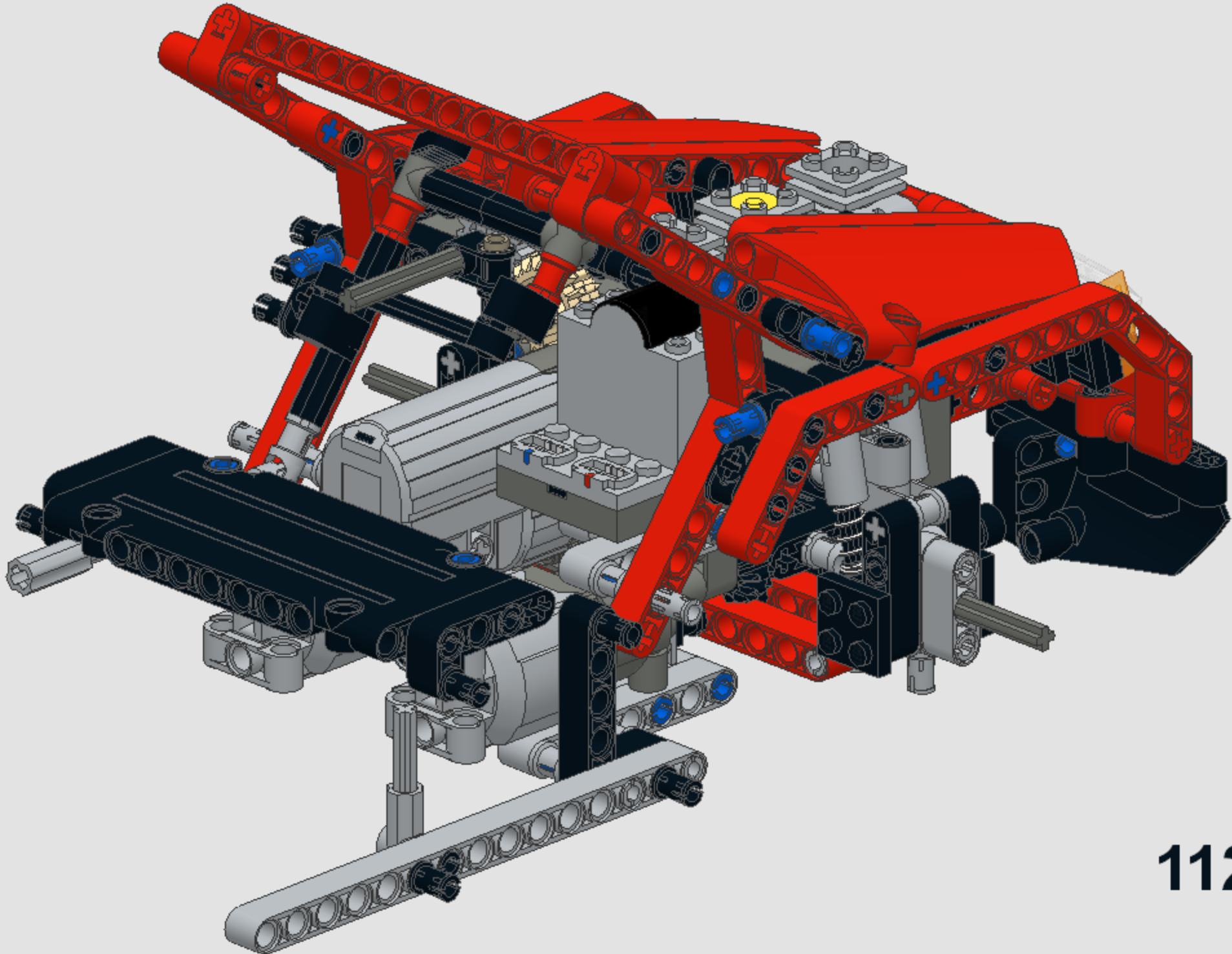
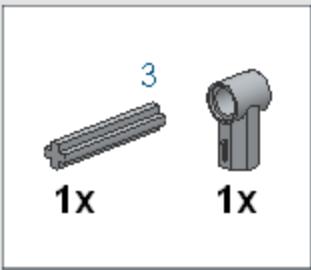


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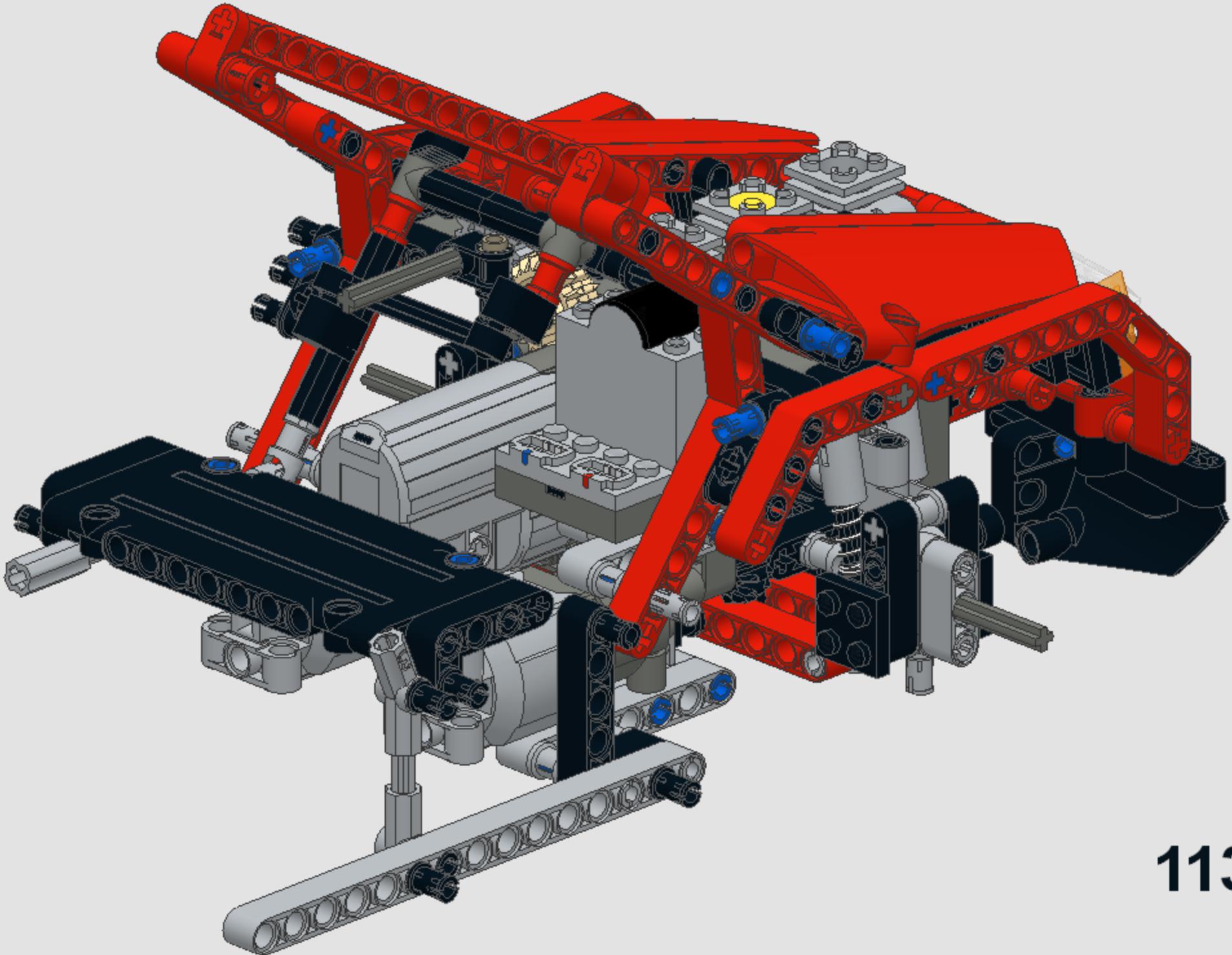
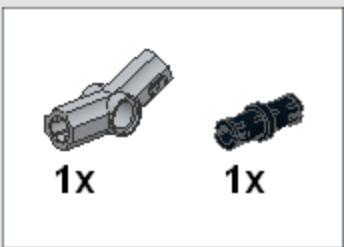


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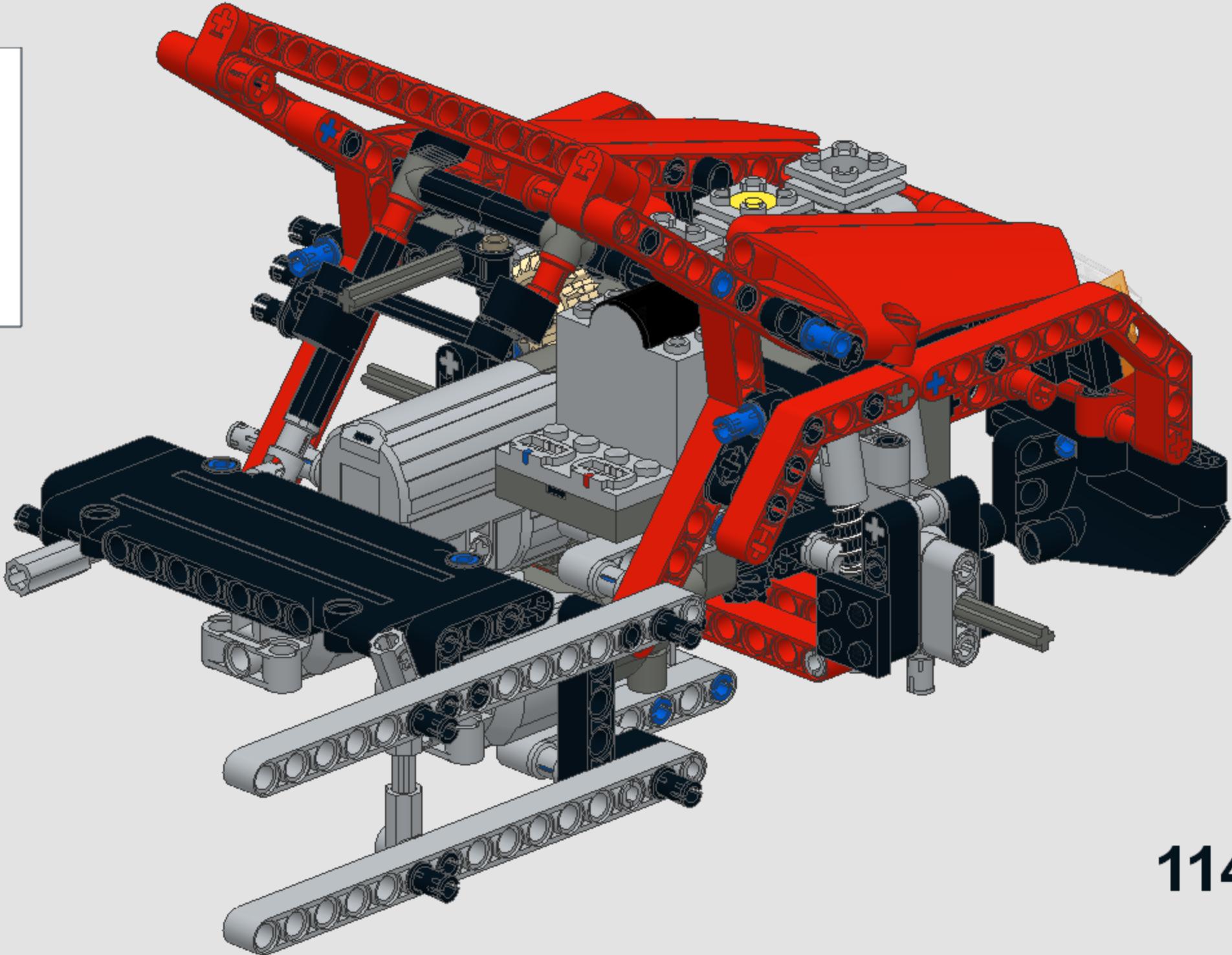
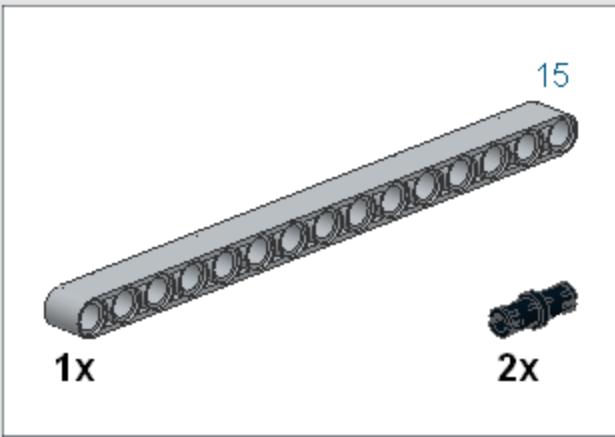




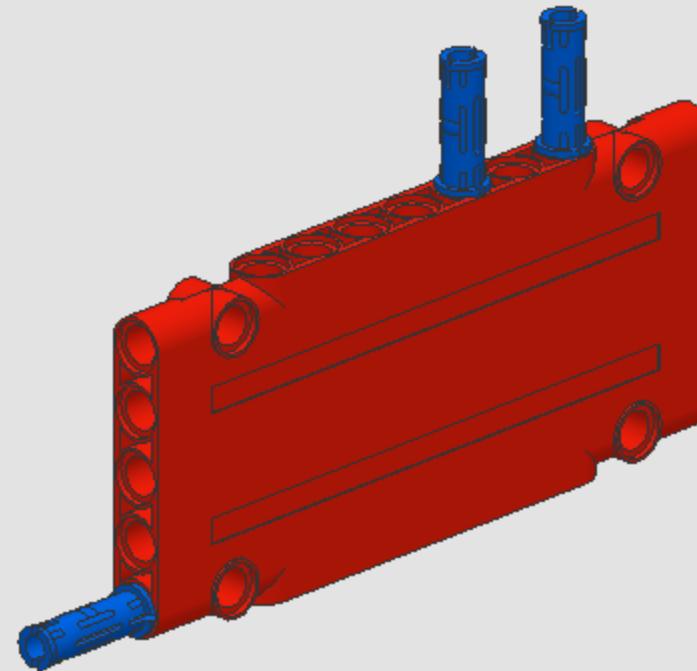
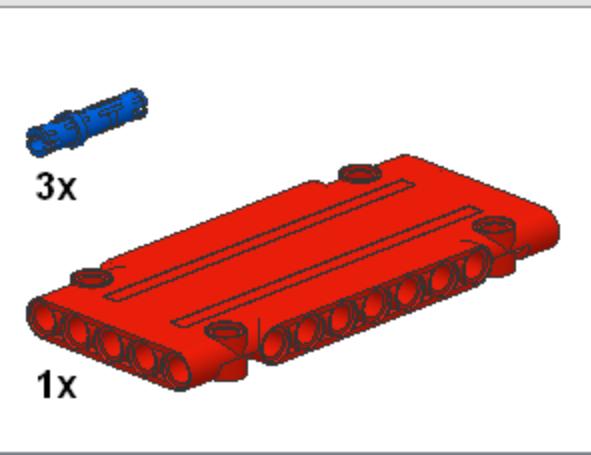
112



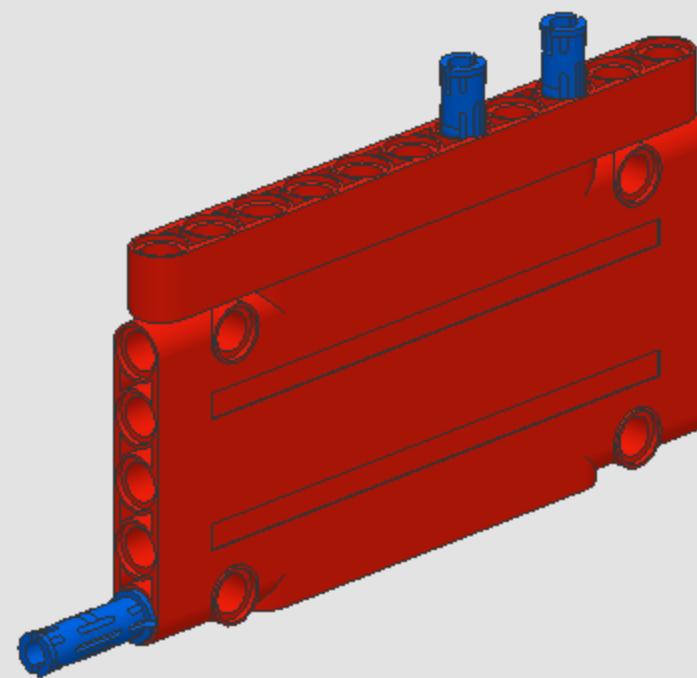
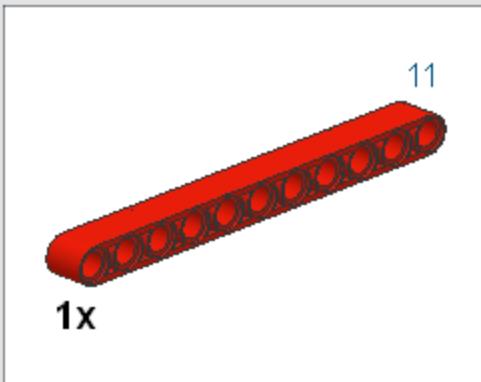
113



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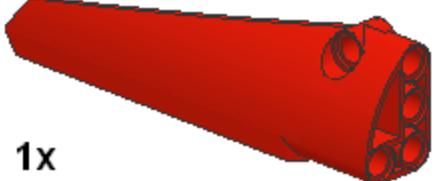
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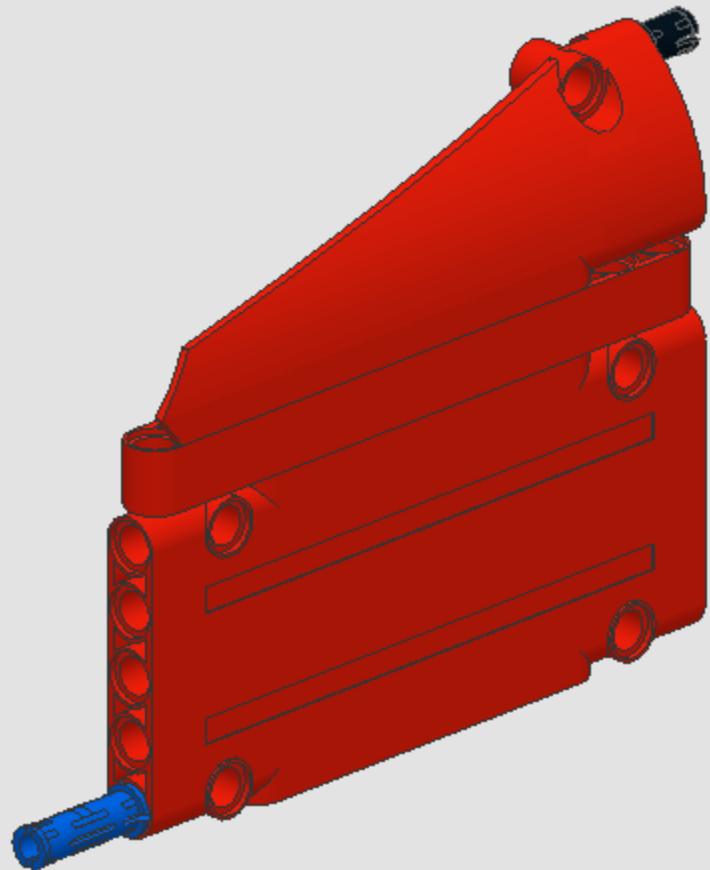
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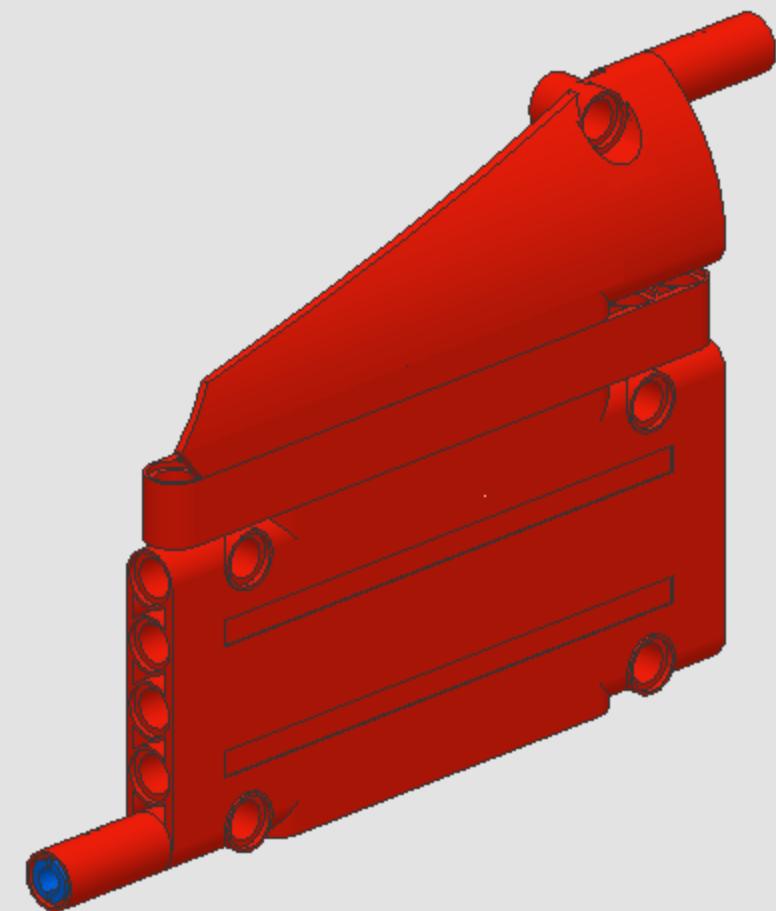
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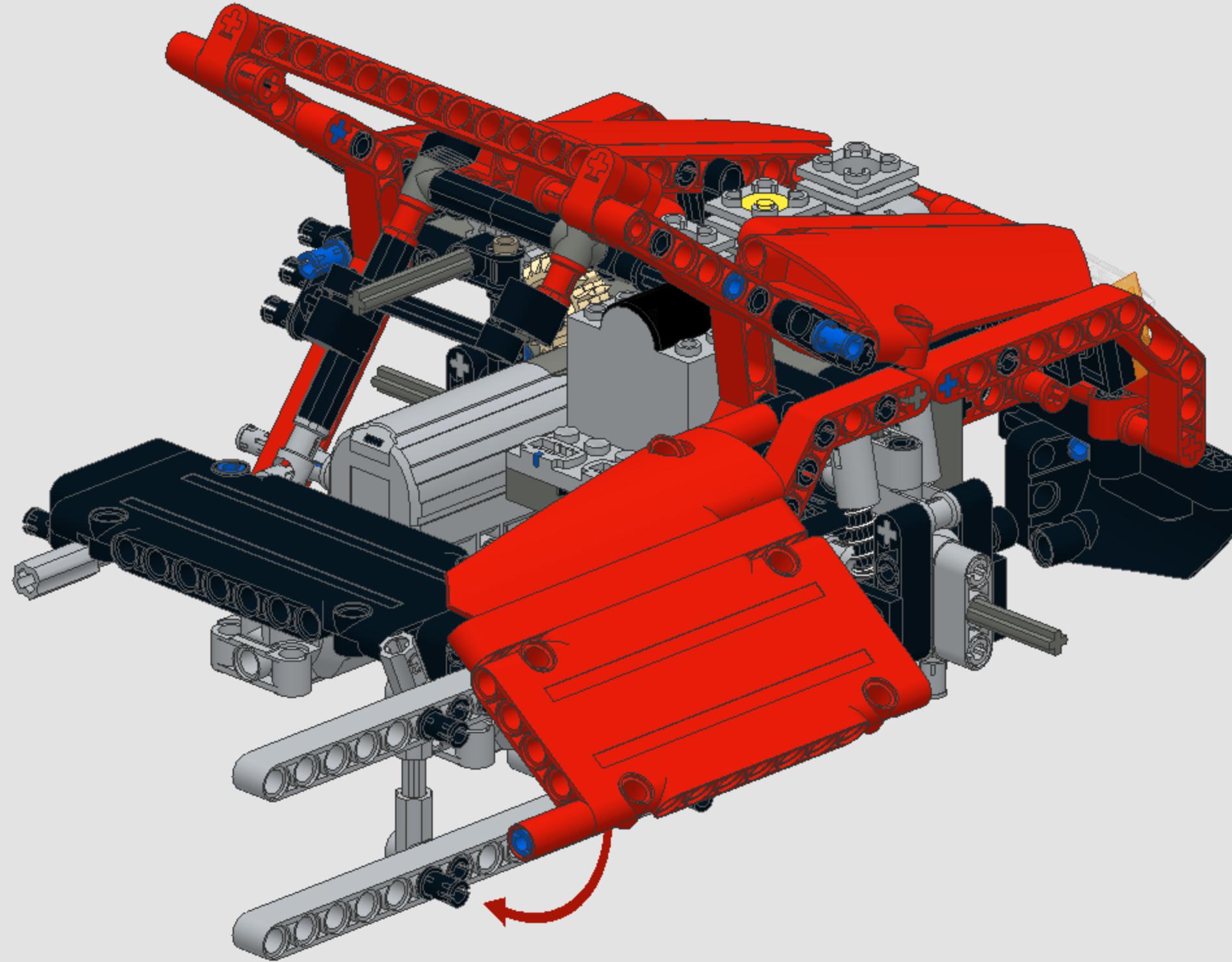
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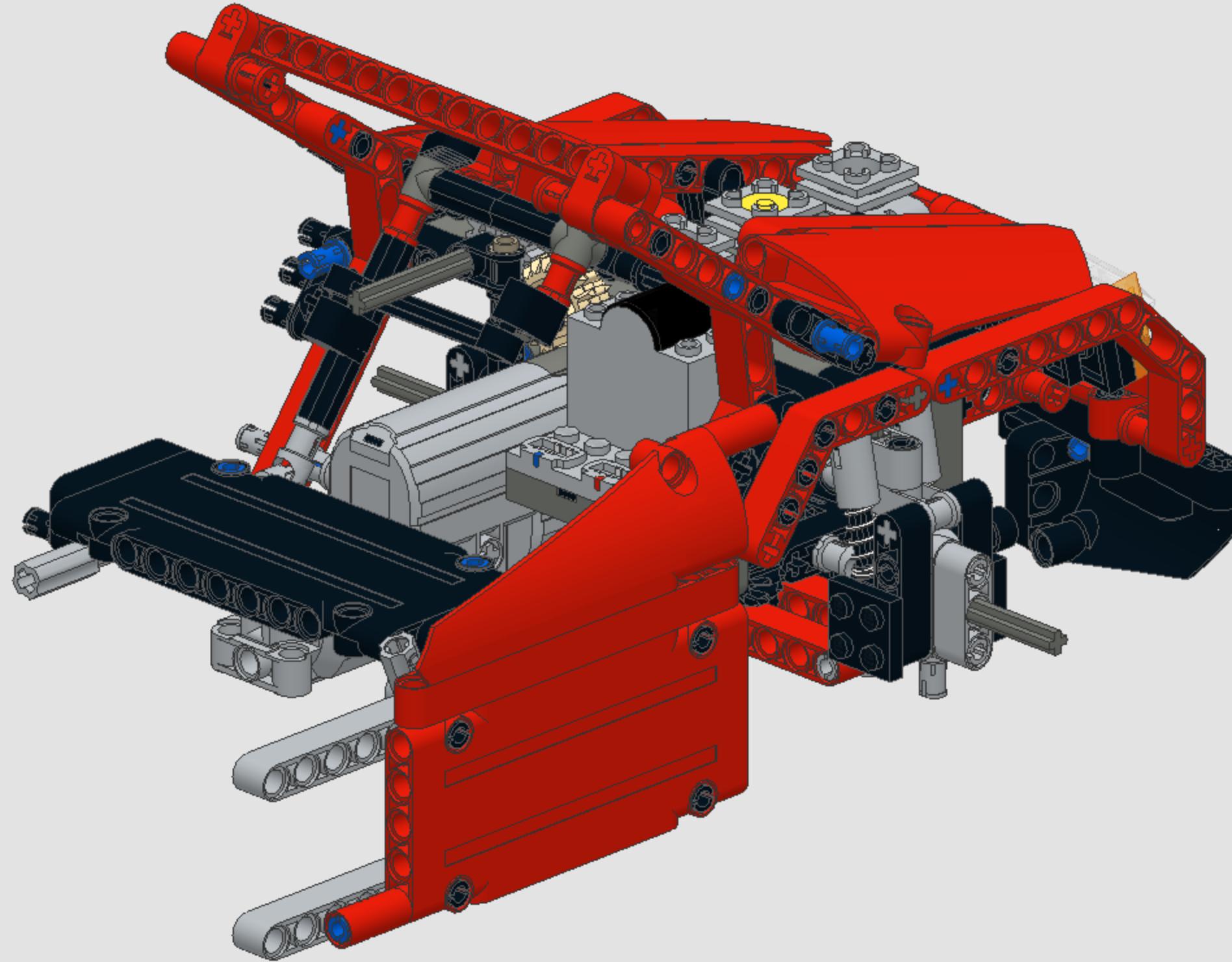


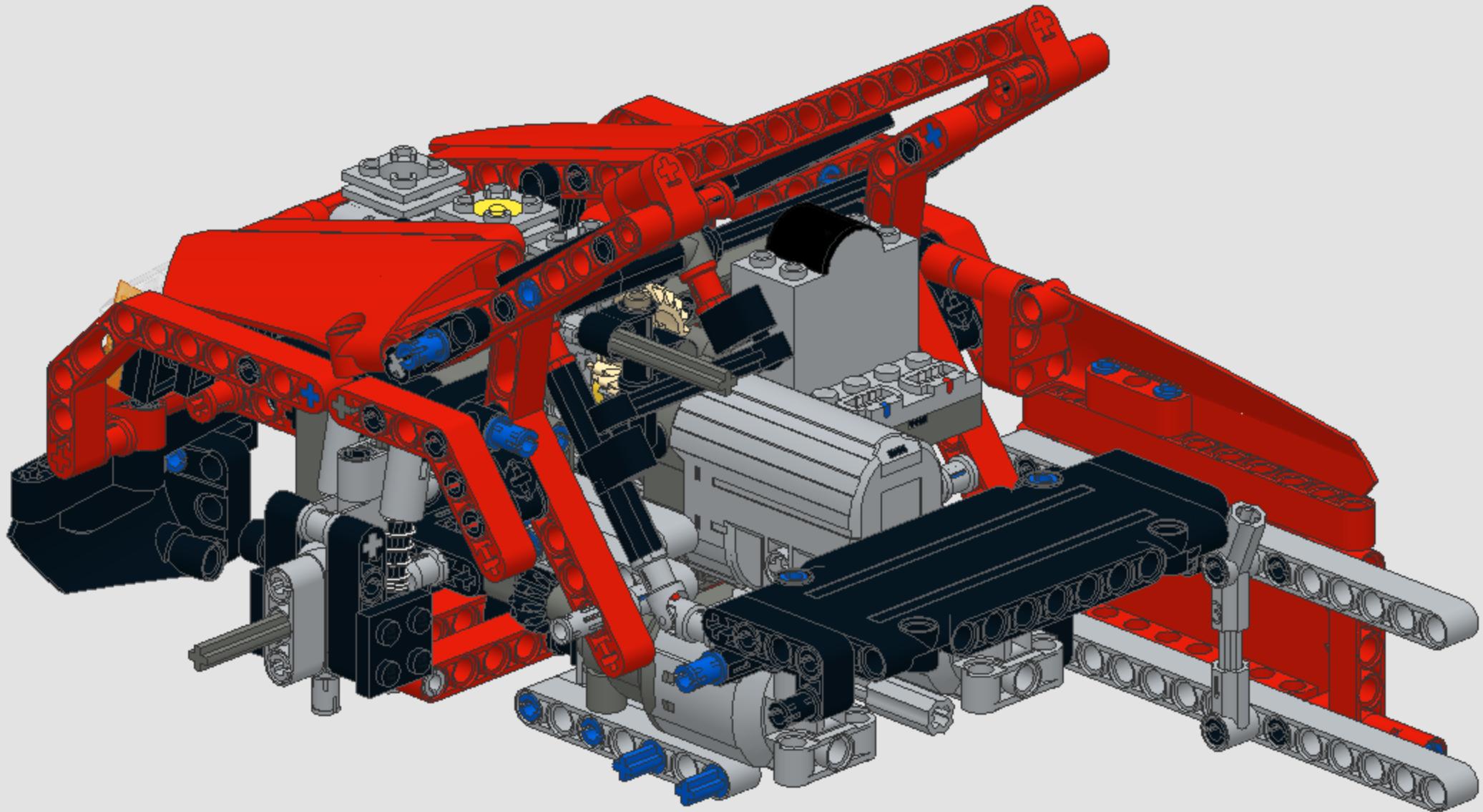
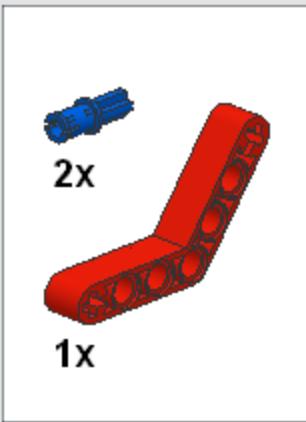
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116



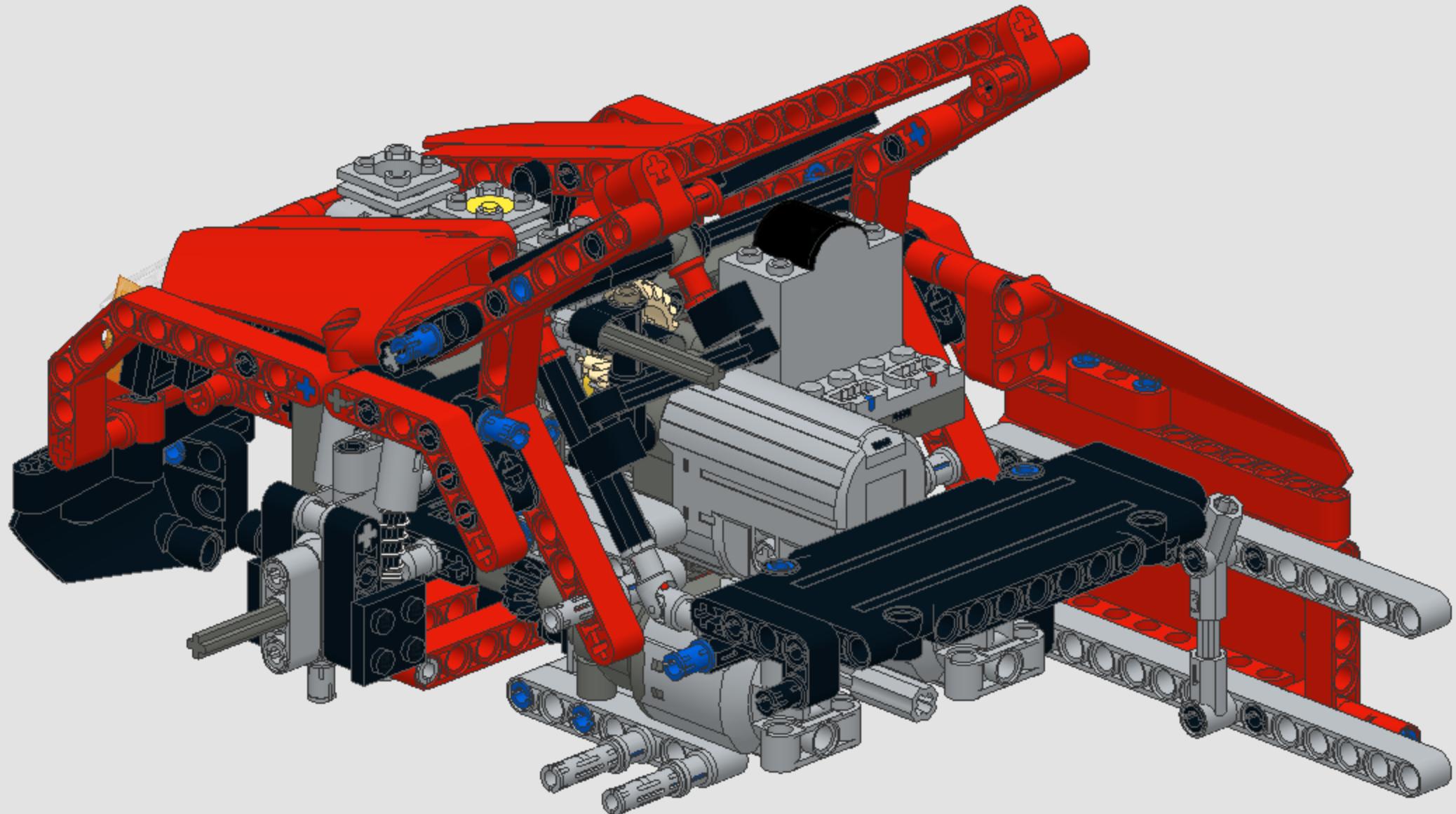




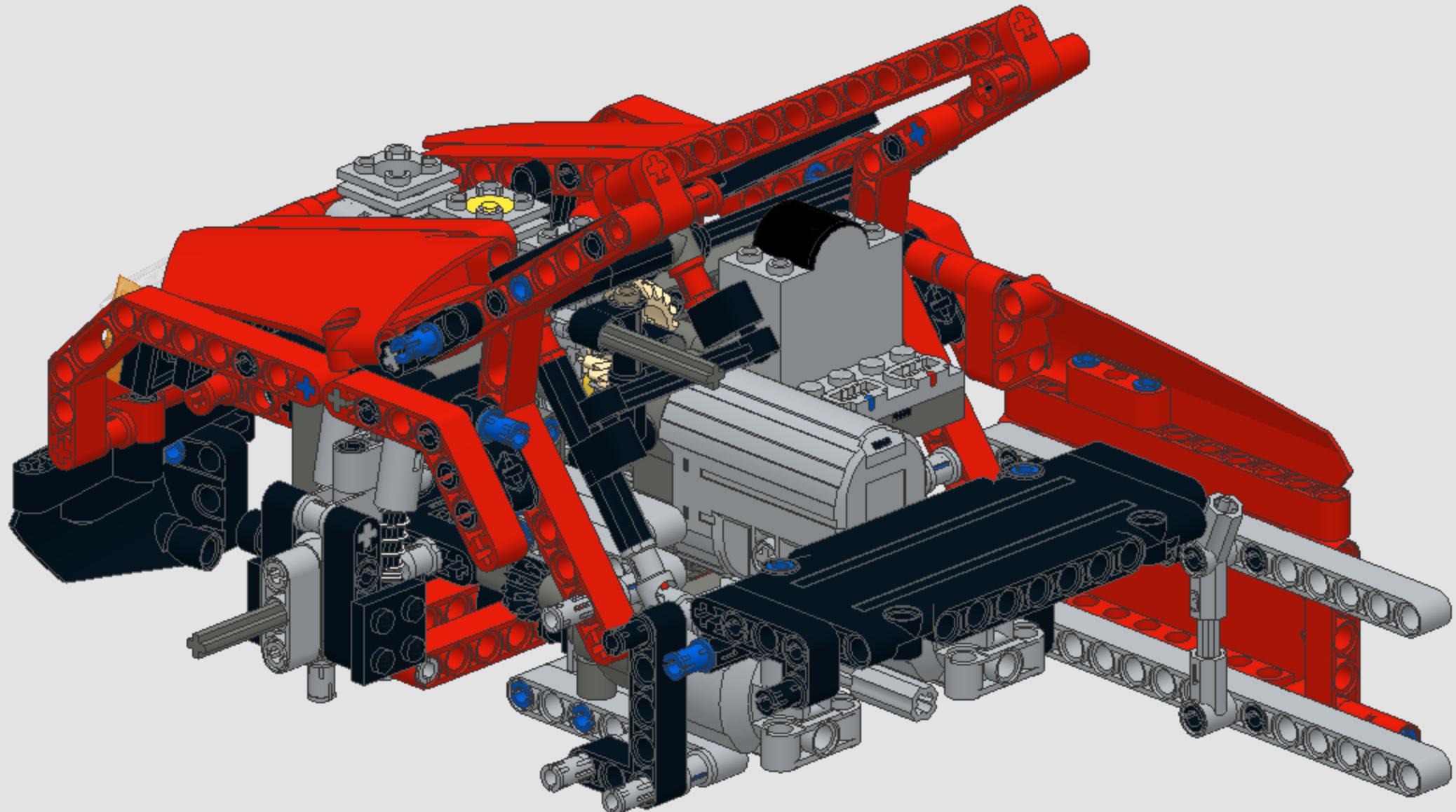
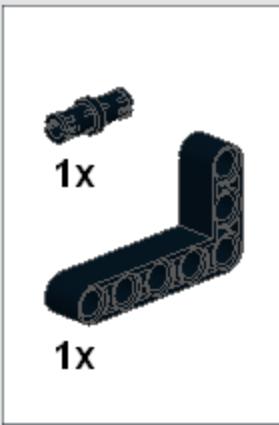
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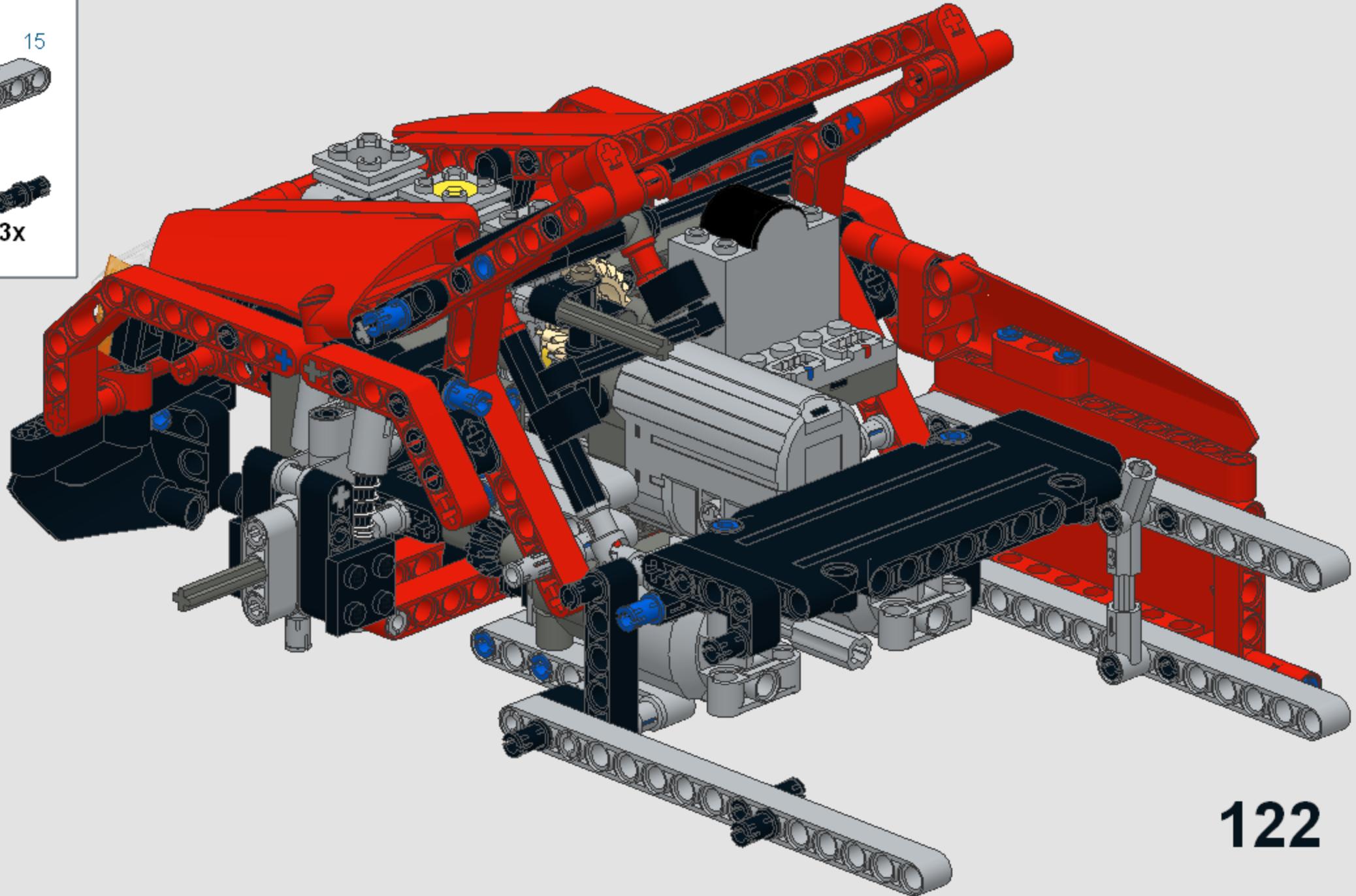
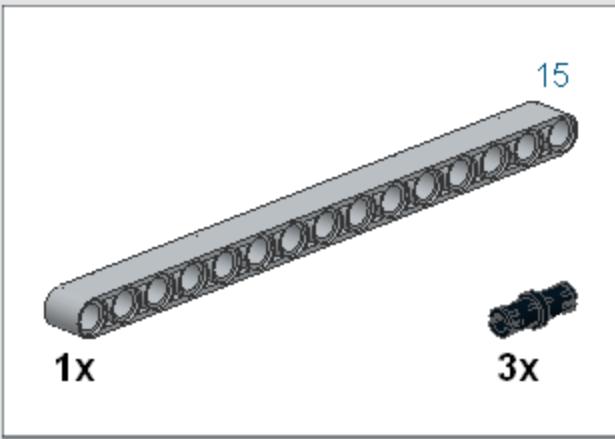


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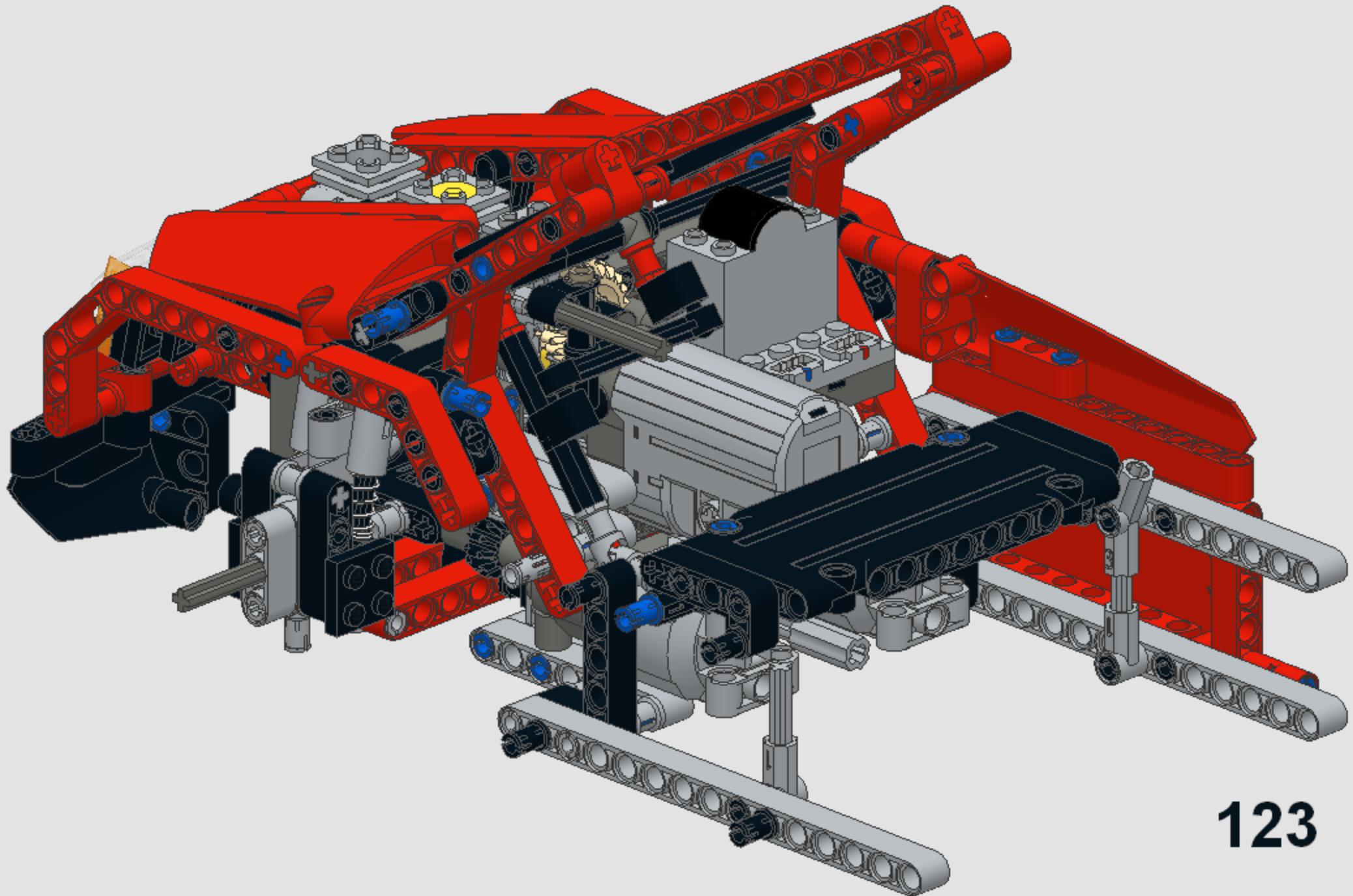
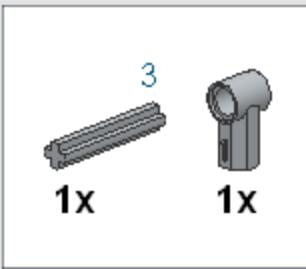


120





122

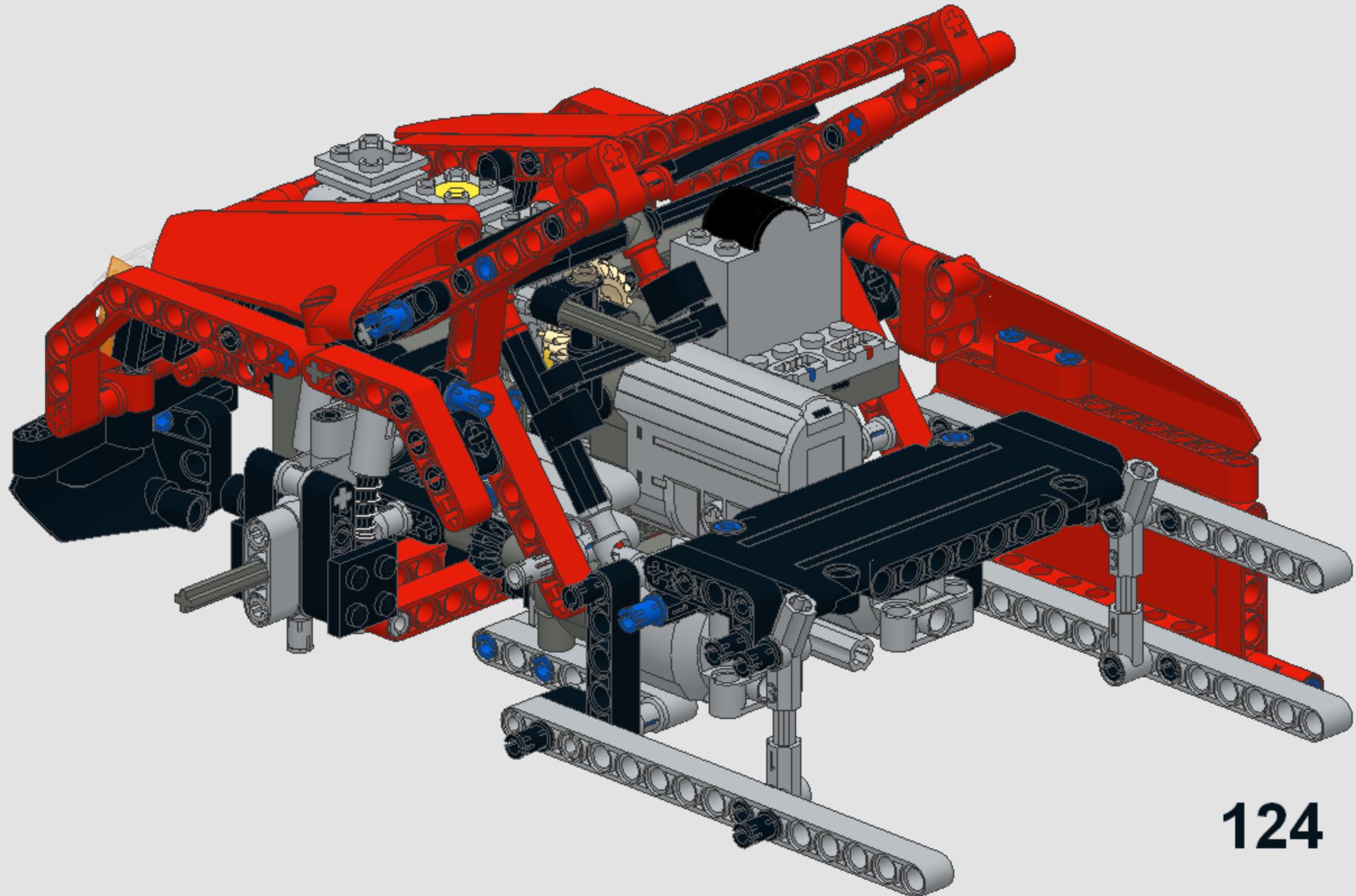


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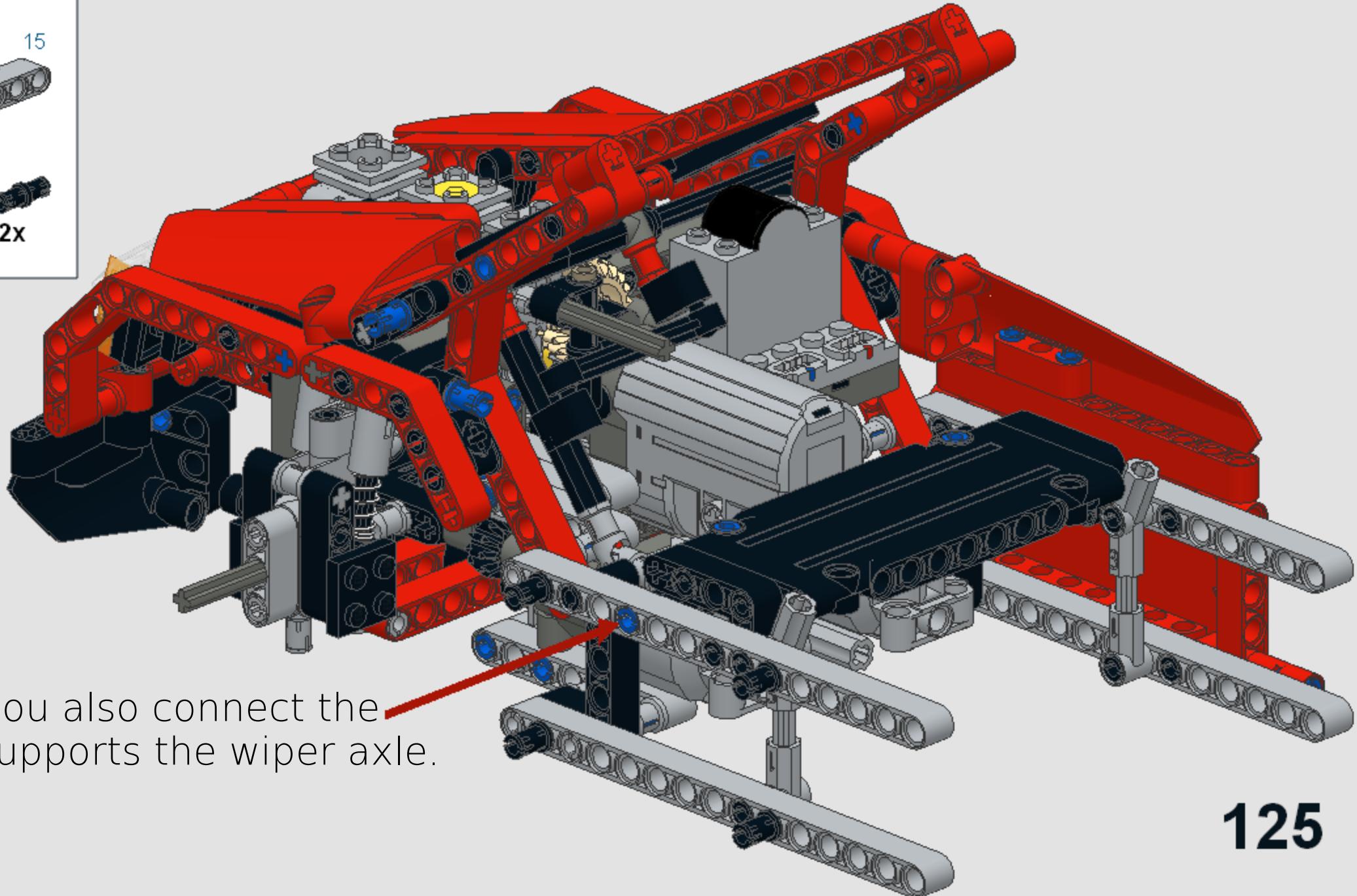
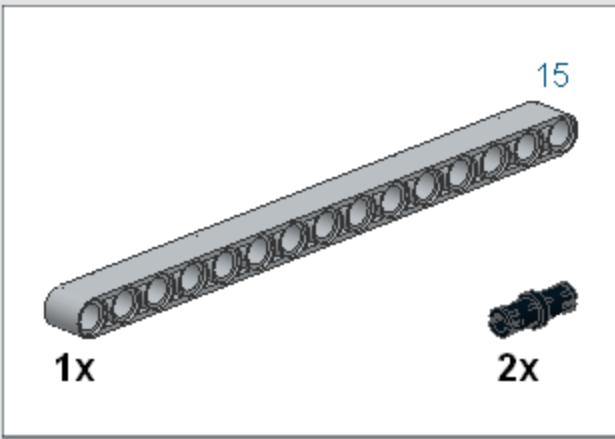


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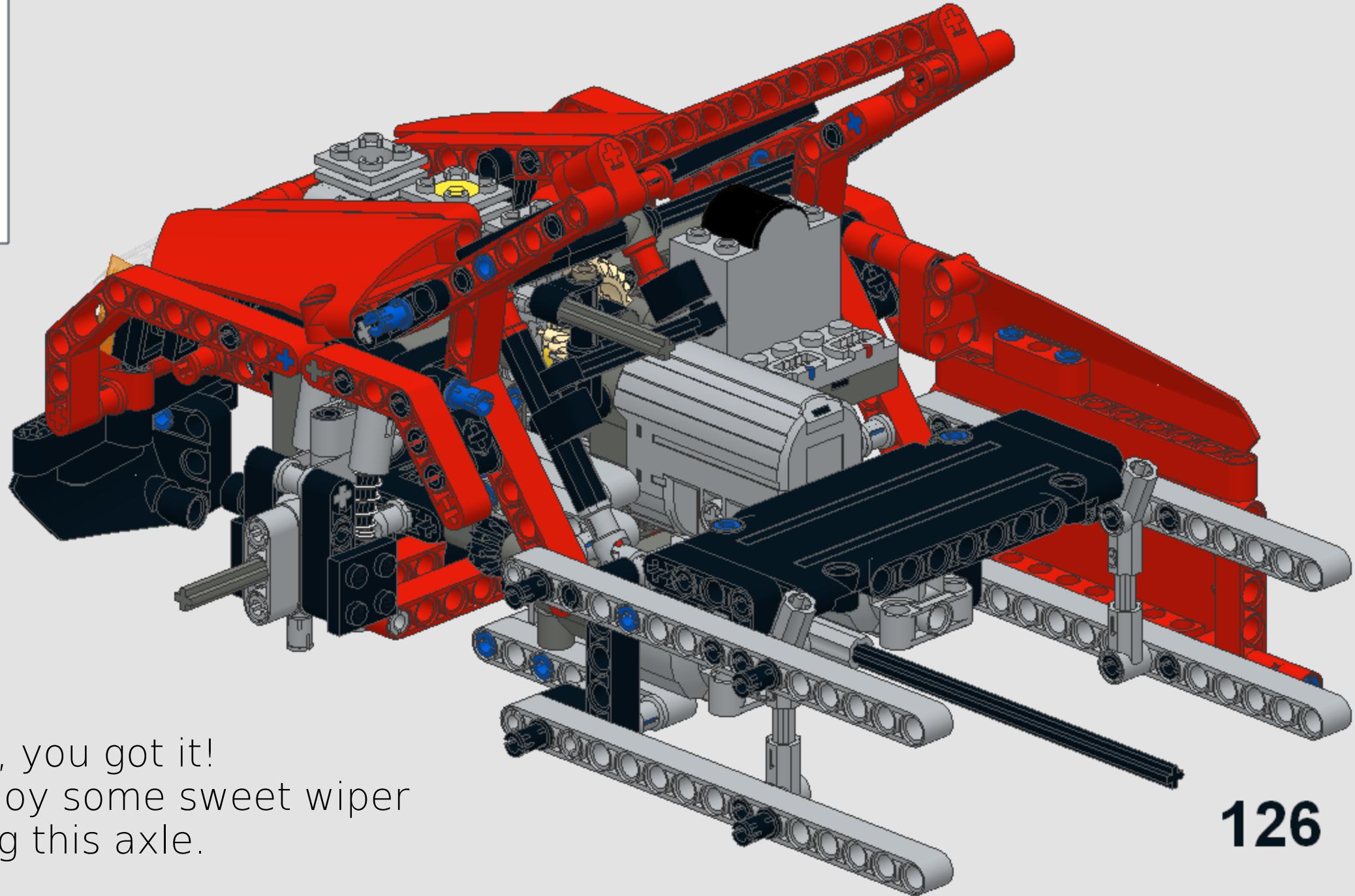
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124



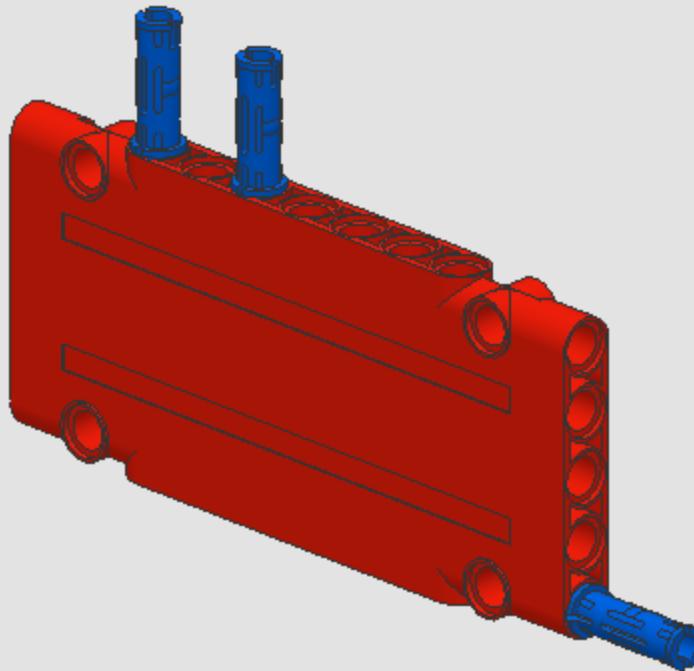
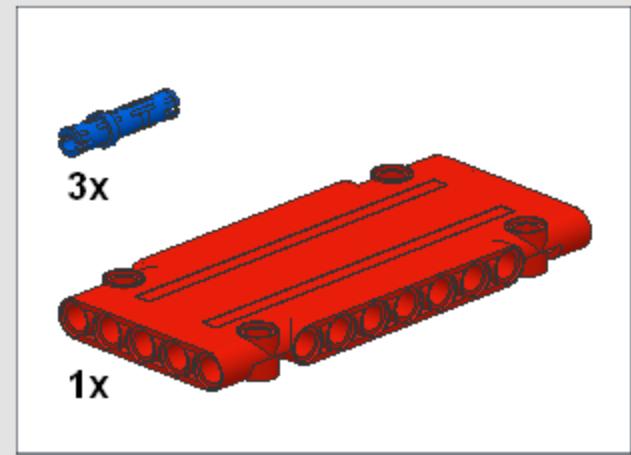
Make sure you also connect the
piece that supports the wiper axle.



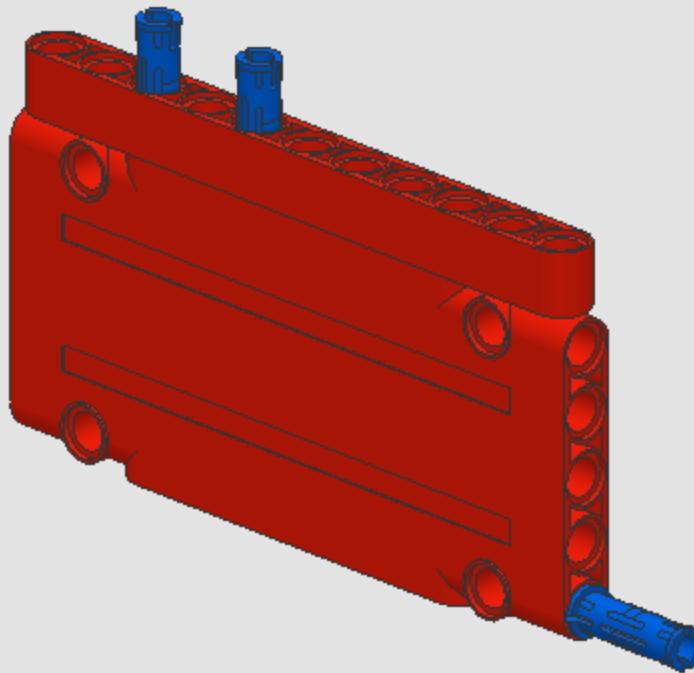
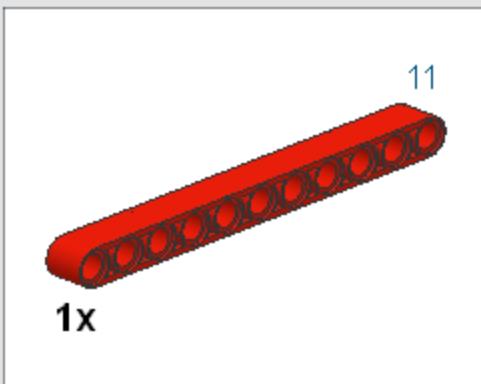
Congratulations, you got it!
As a reward, enjoy some sweet wiper
action by turning this axle.

126

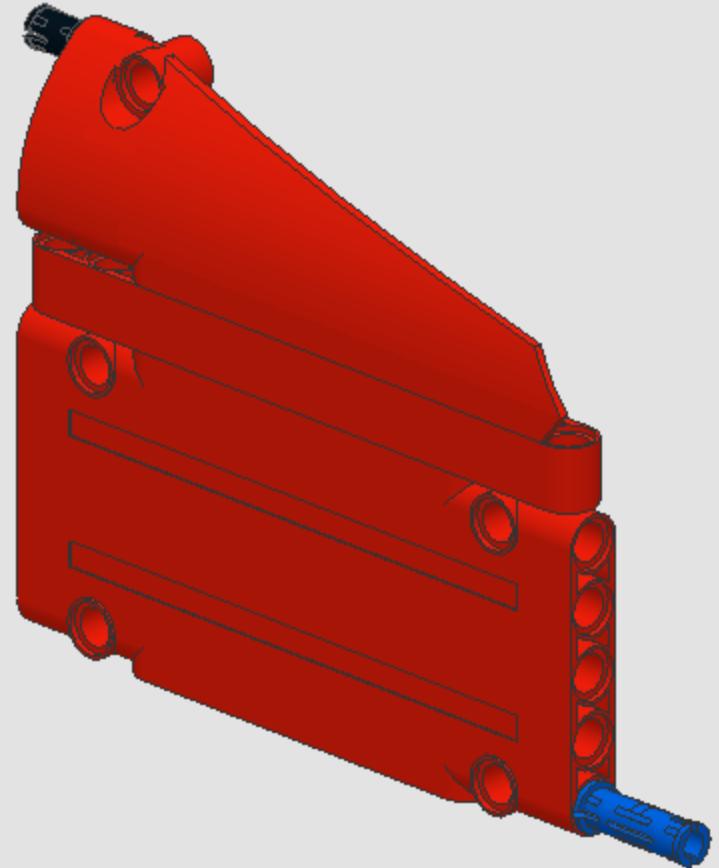
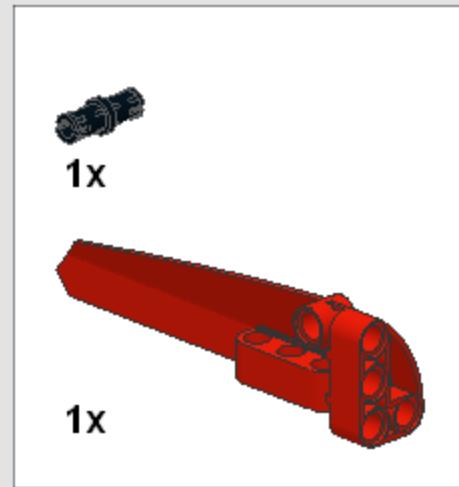
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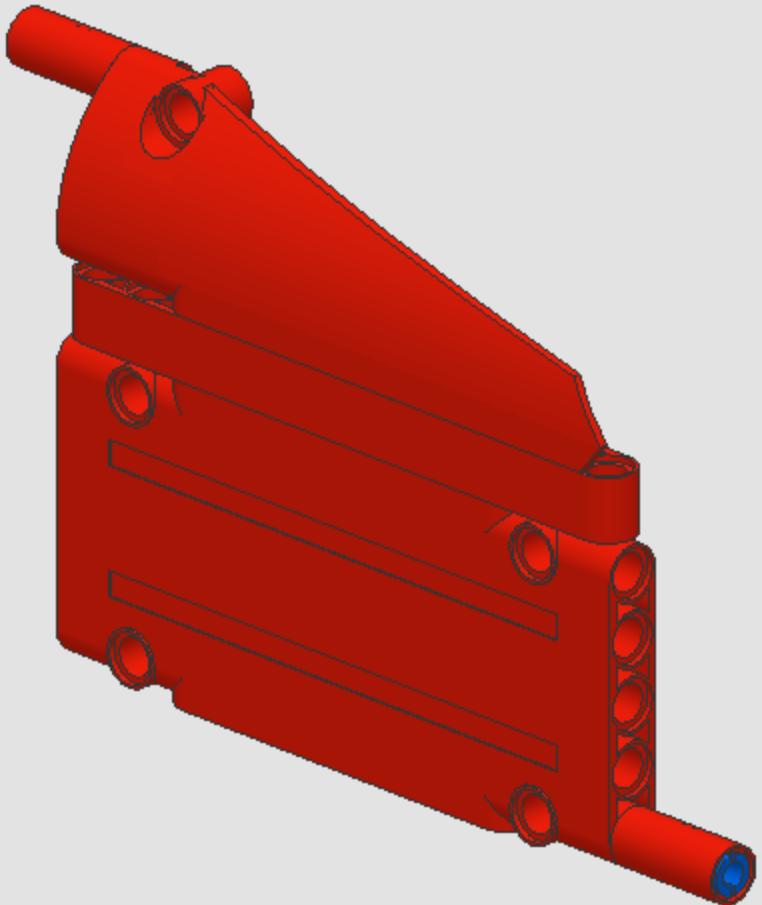
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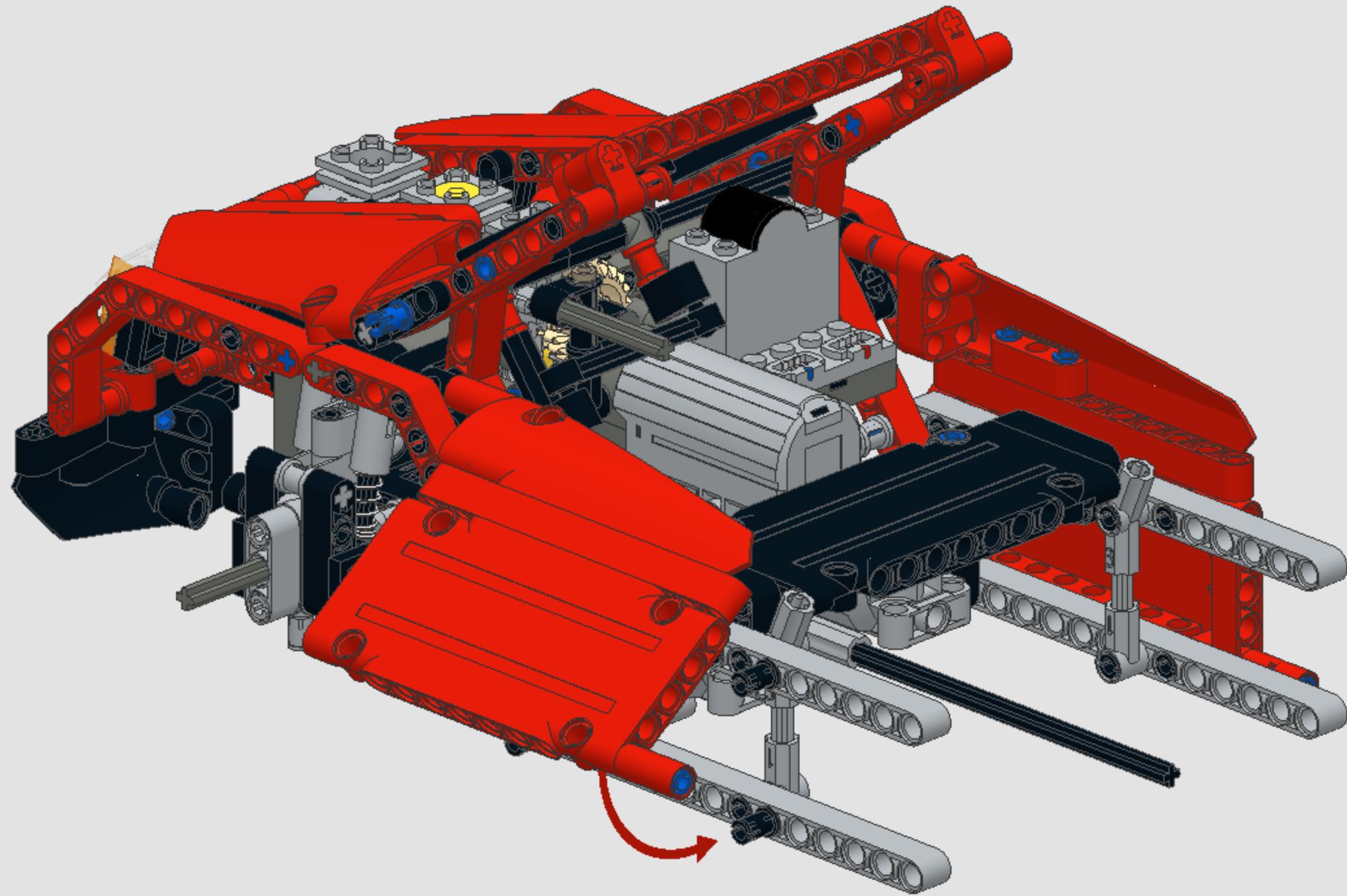
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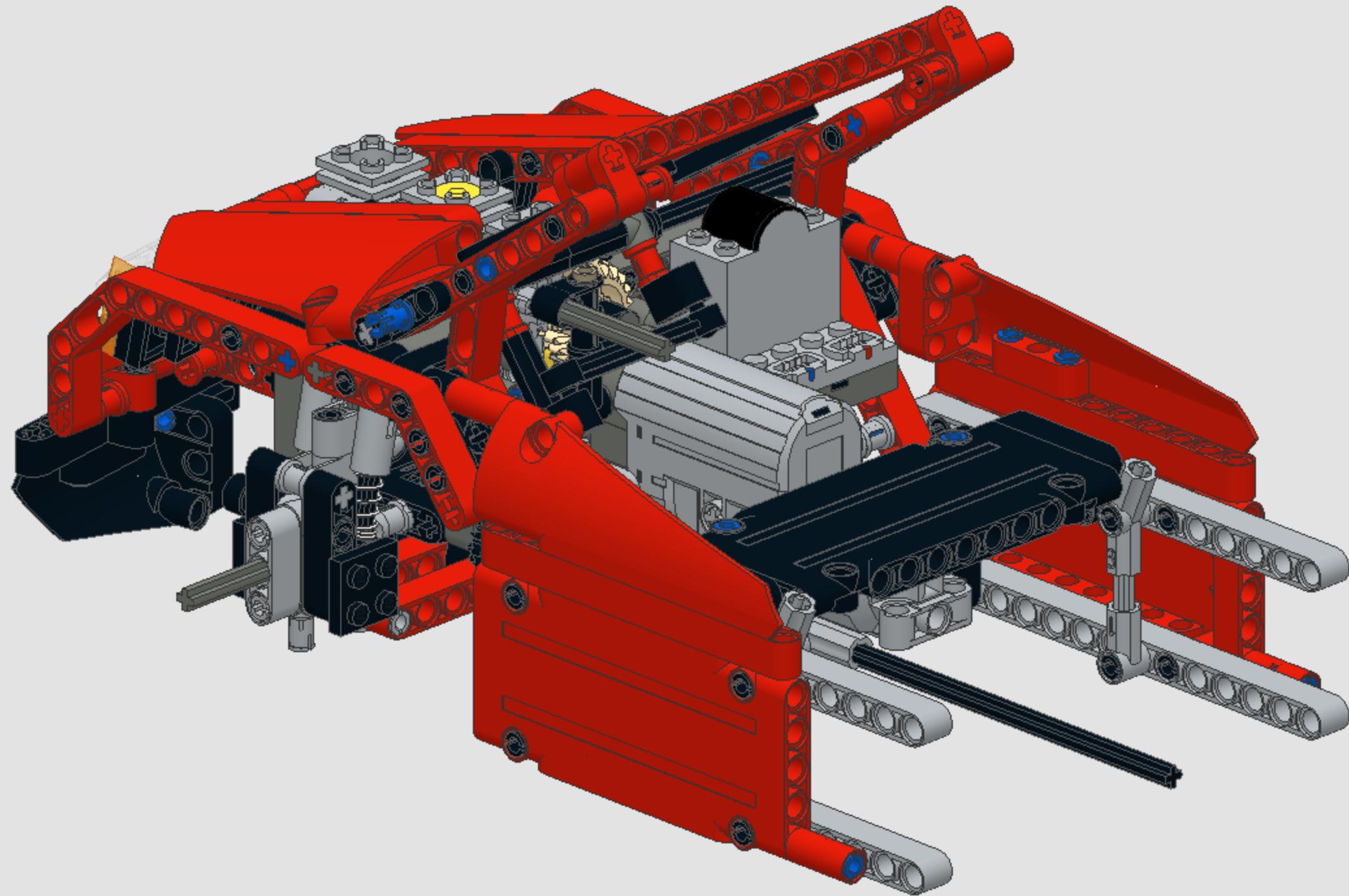
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128

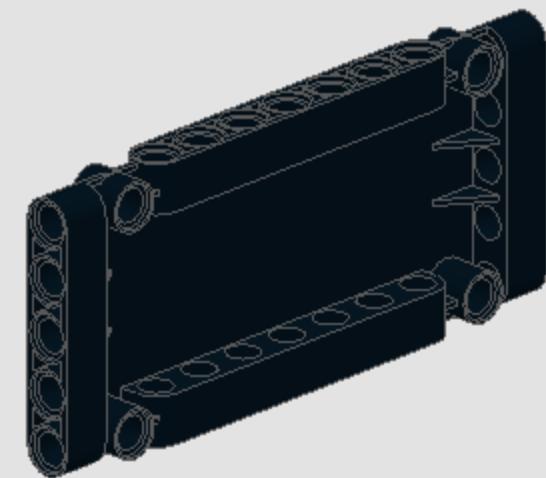
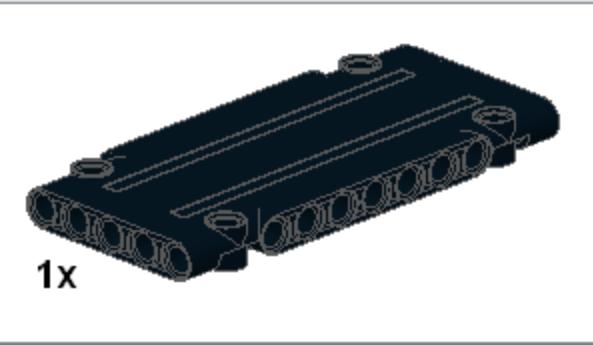


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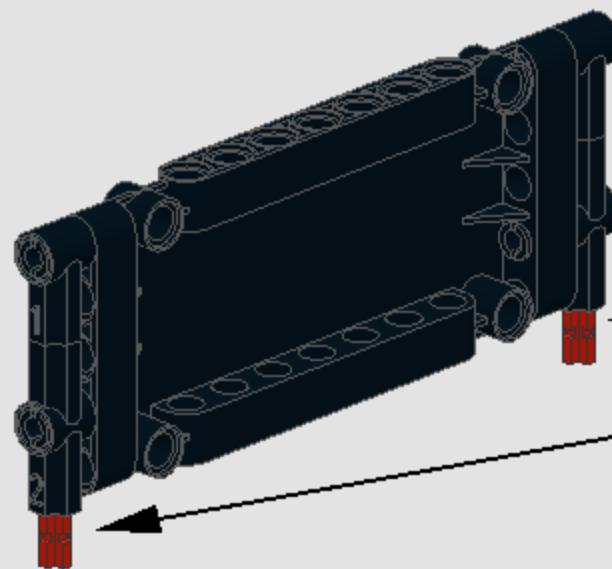
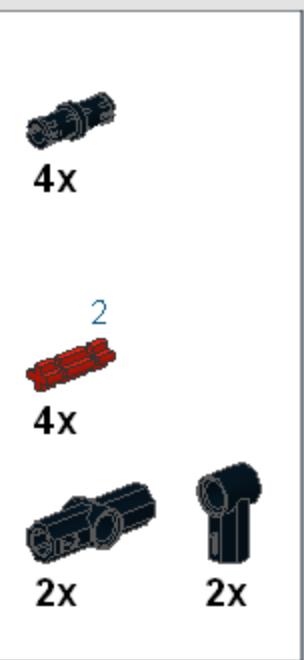


130

1



2



1



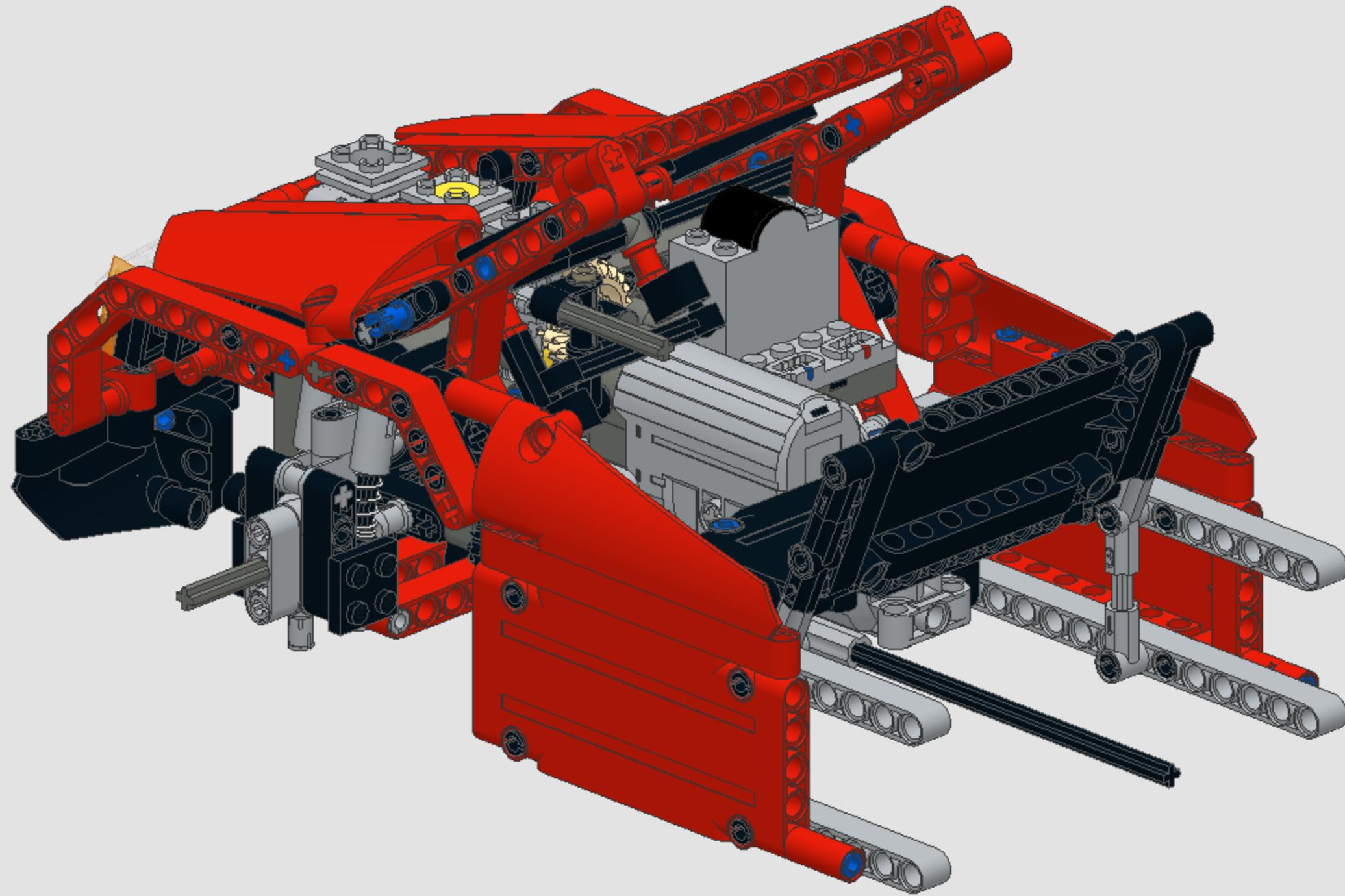
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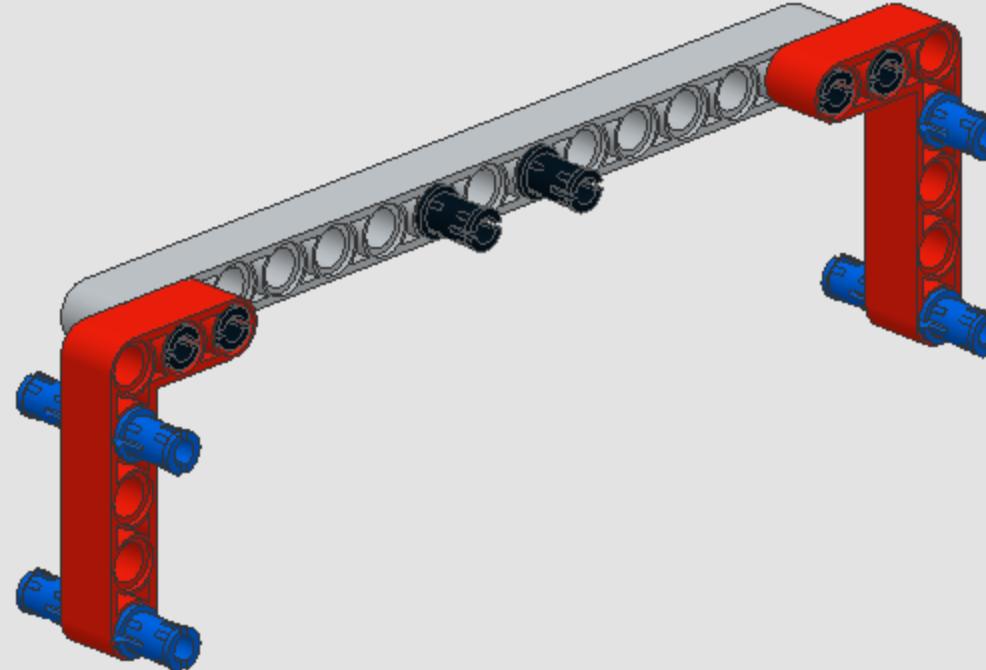
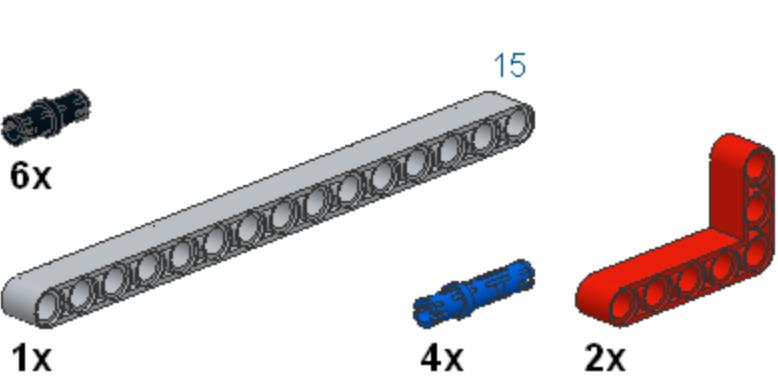
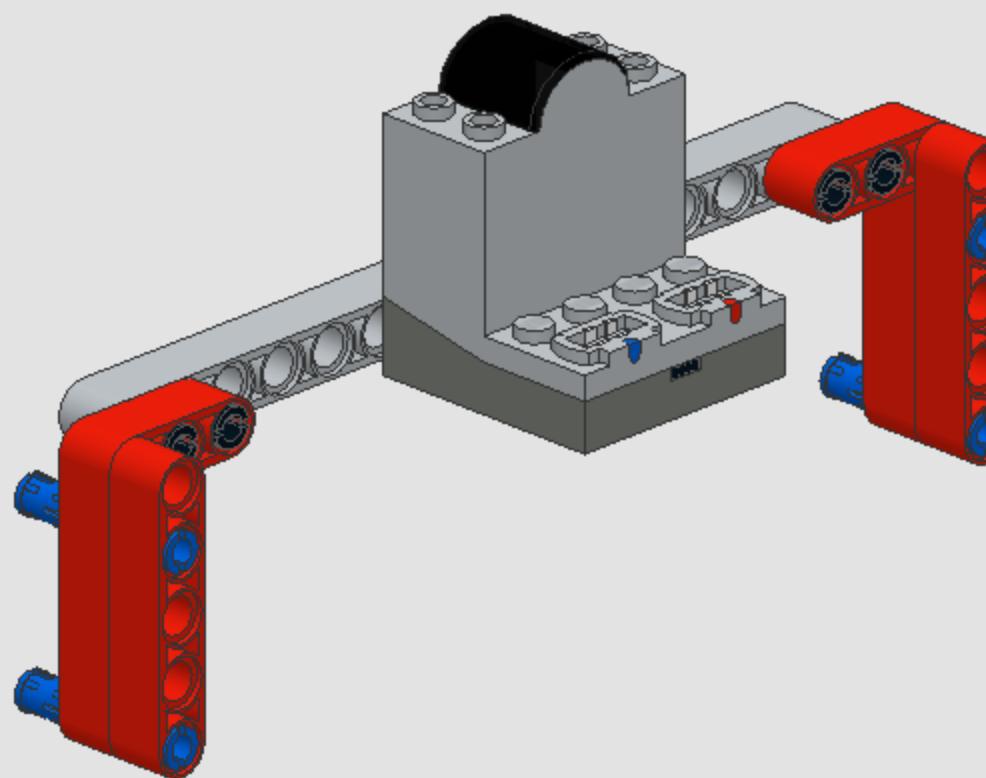
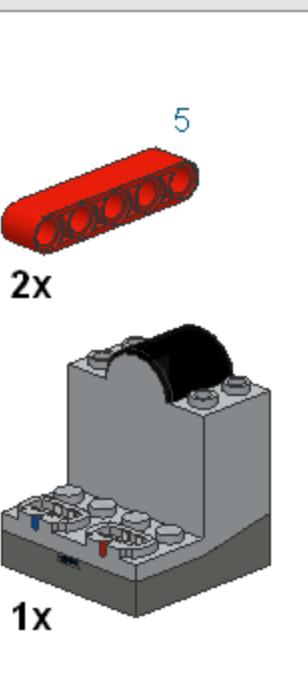
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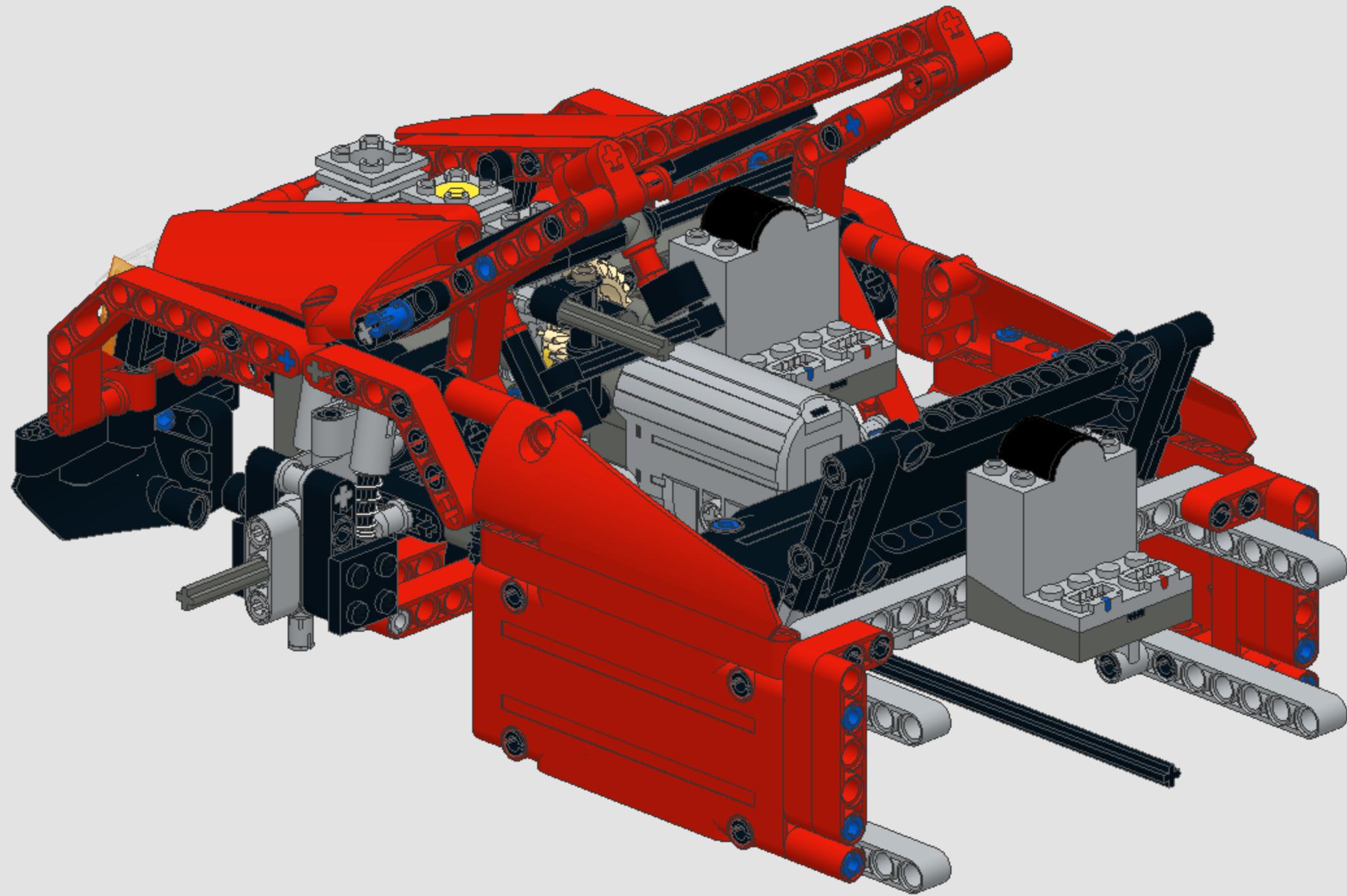


x2

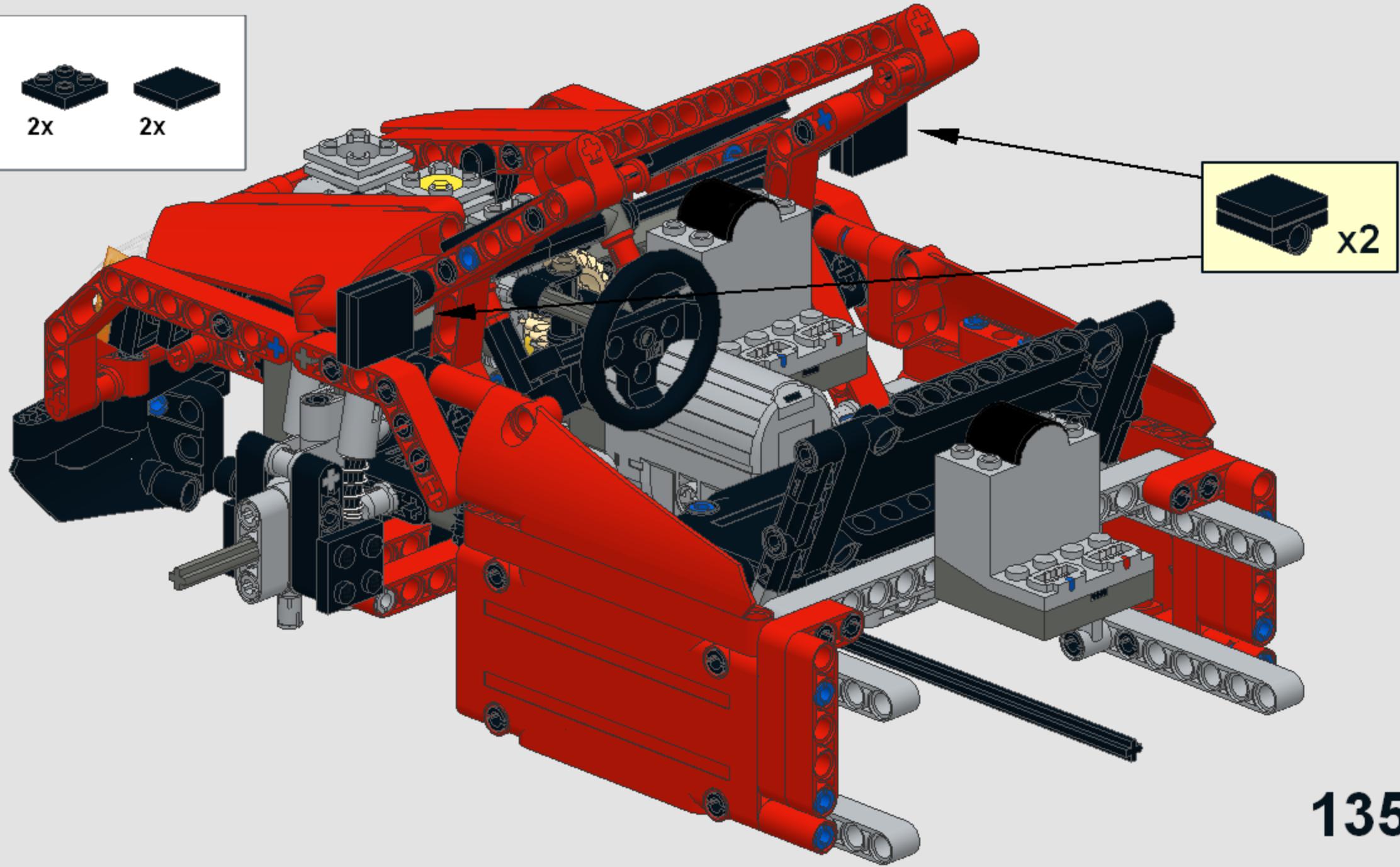
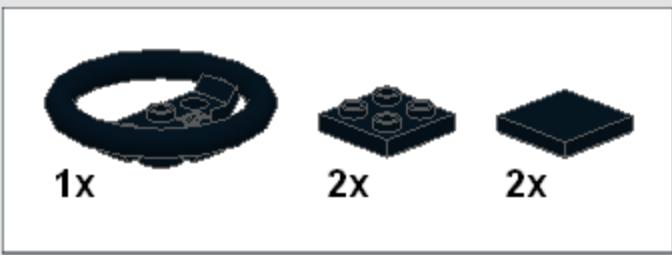


132

1**2**

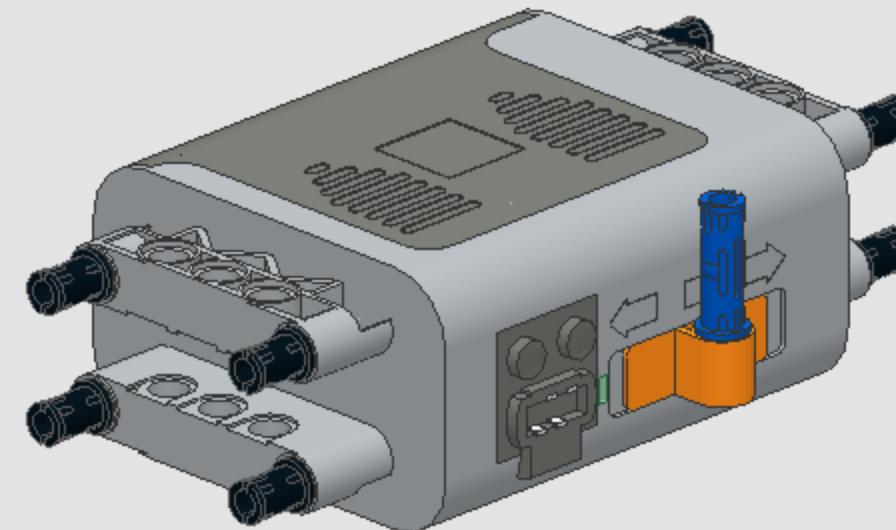
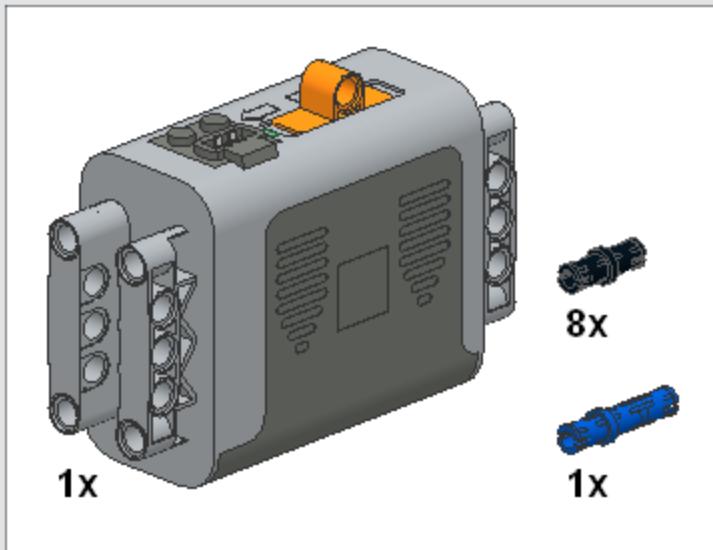


134

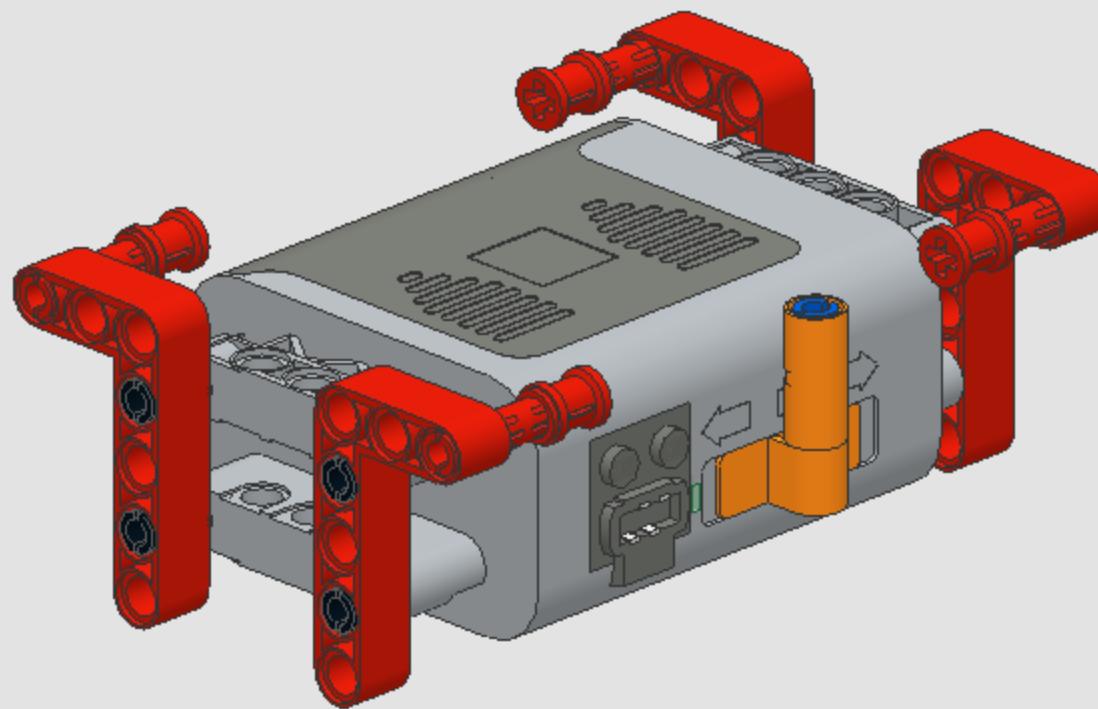
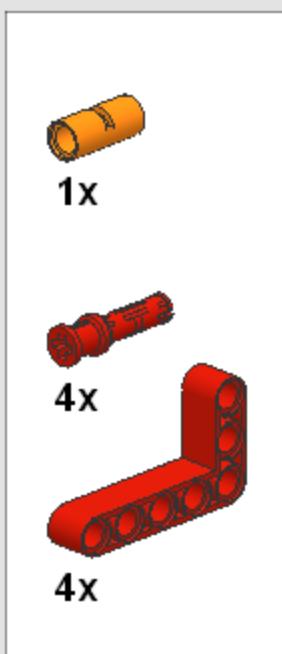


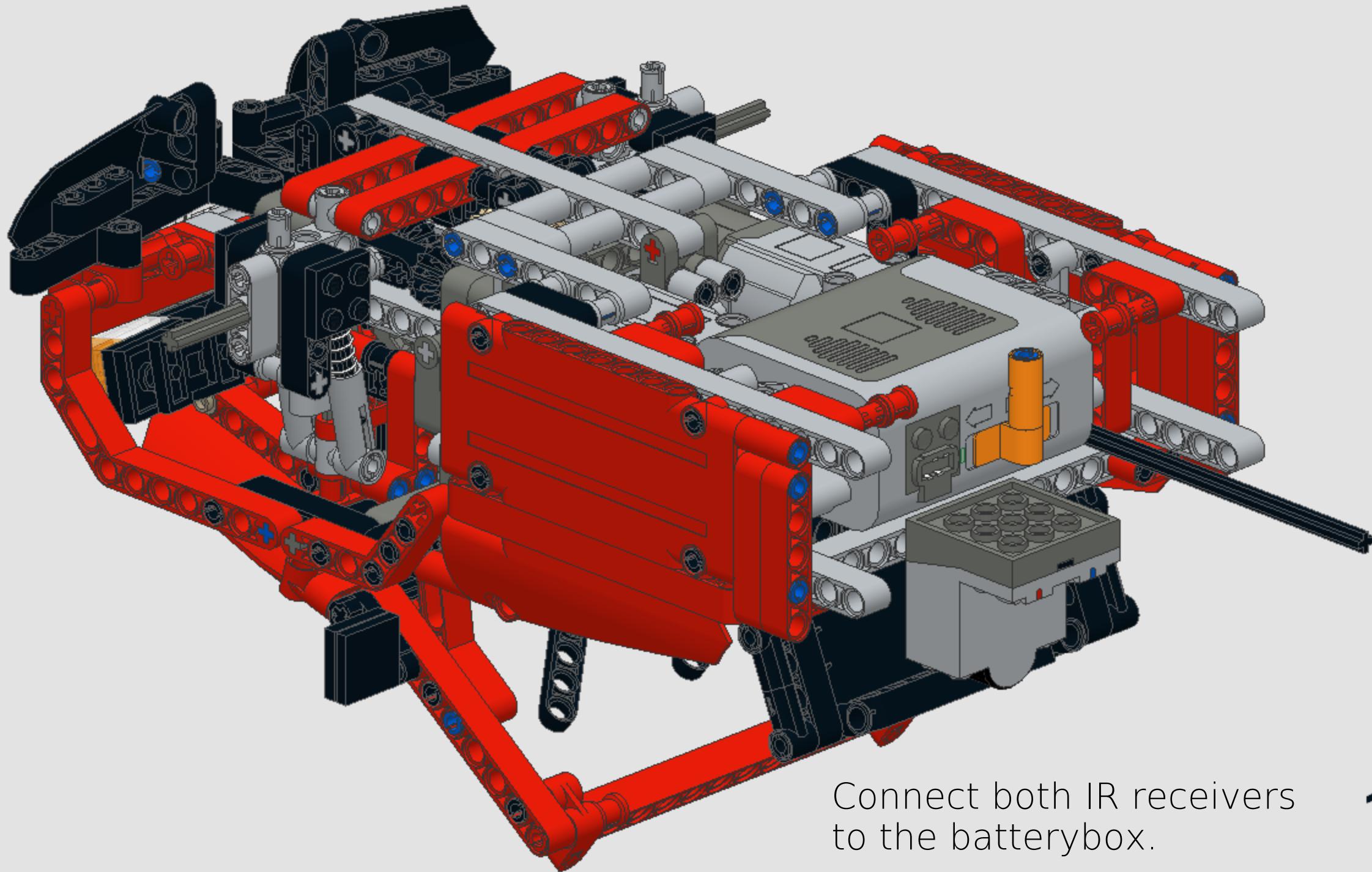
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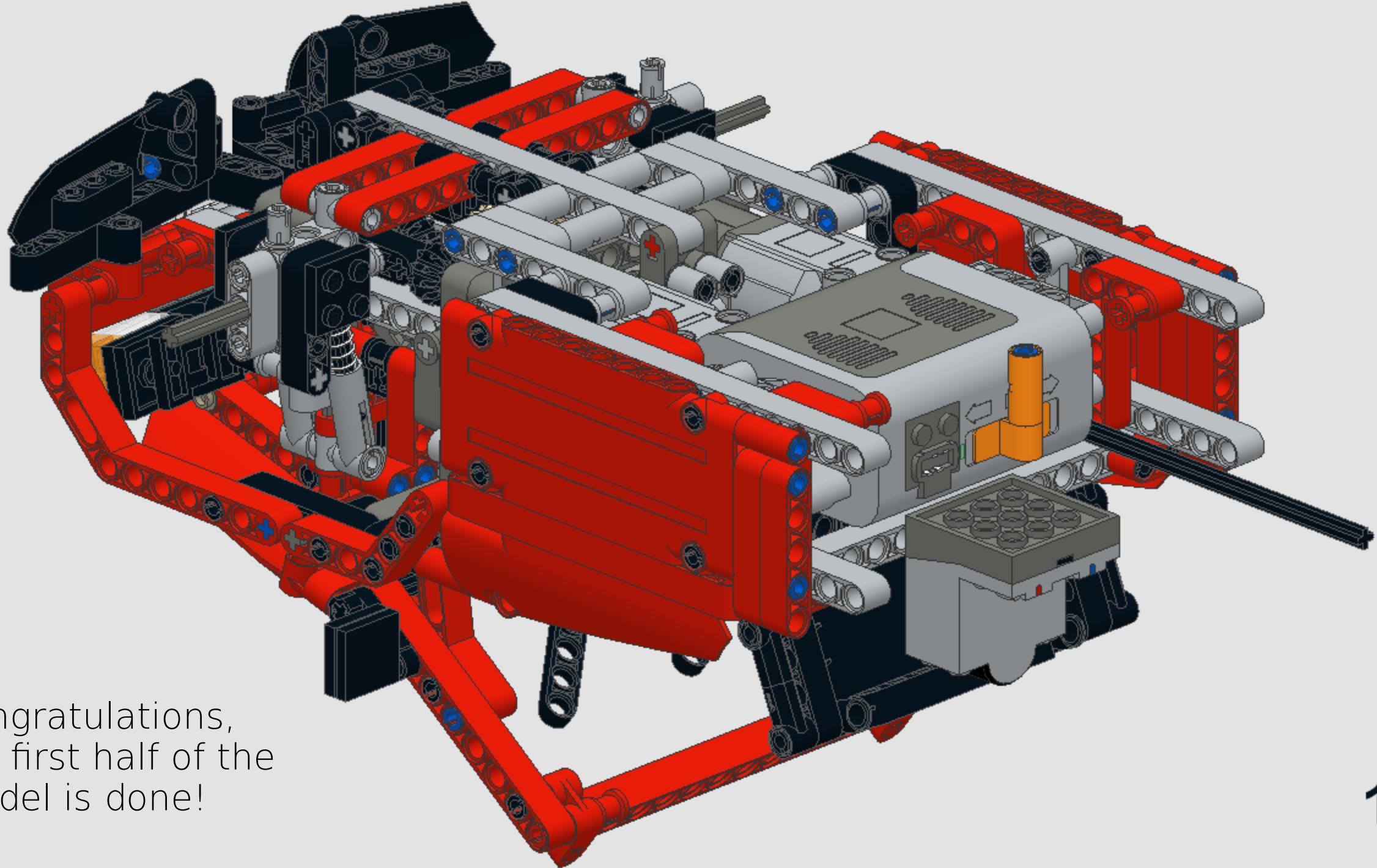


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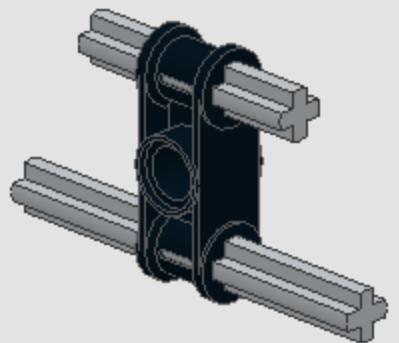
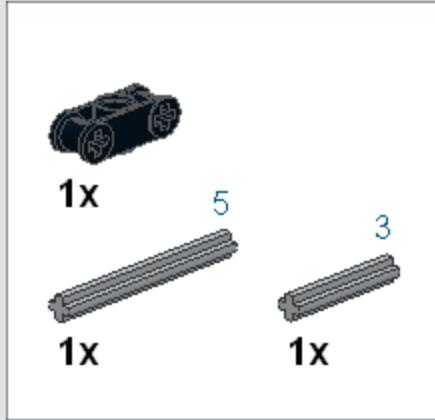


Connect both IR receivers
to the batterybox.

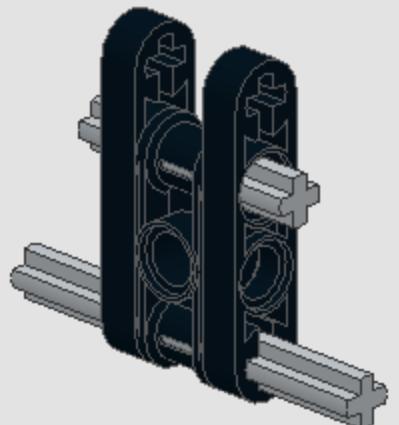


Congratulations,
the first half of the
model is done!

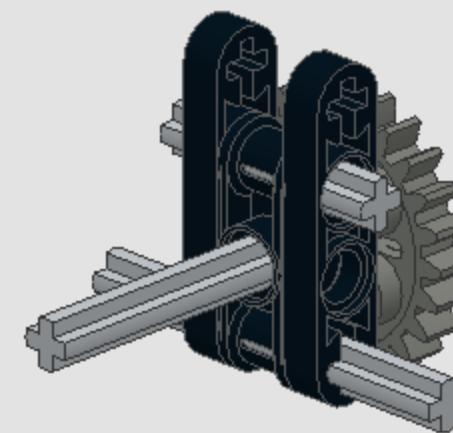
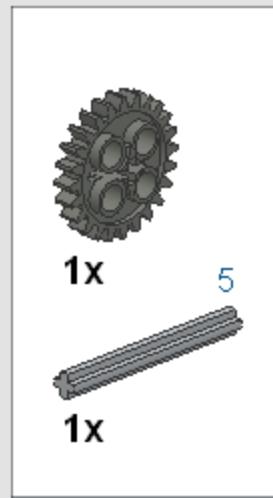
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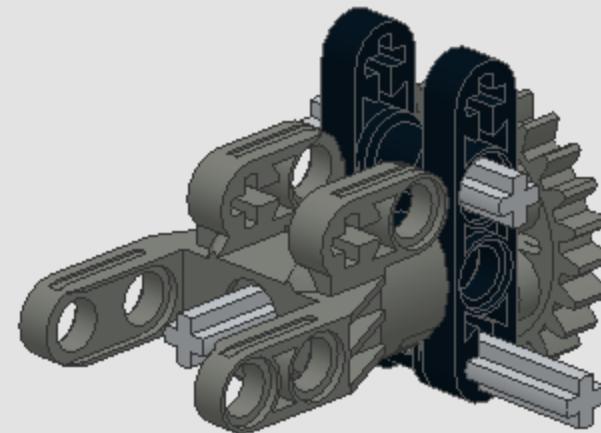
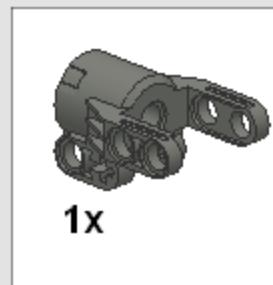
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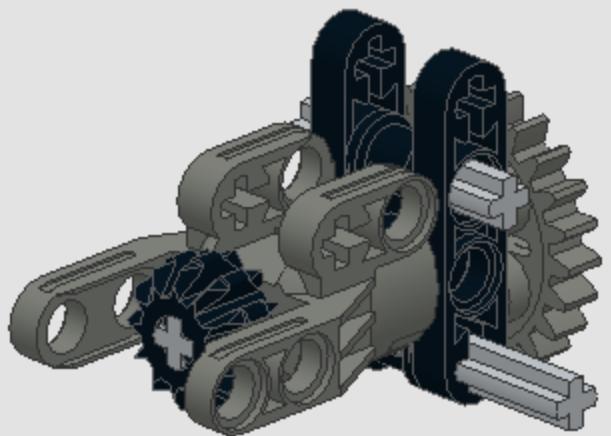
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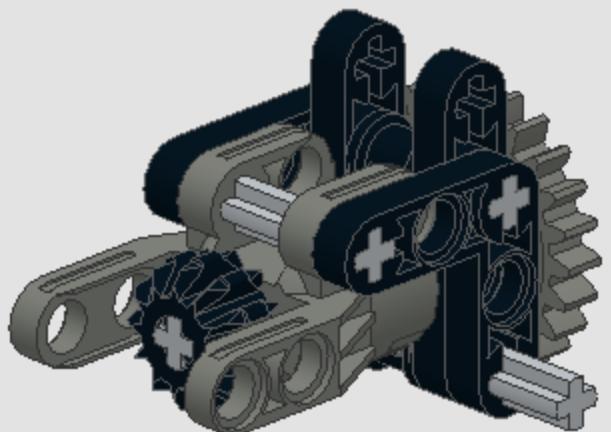
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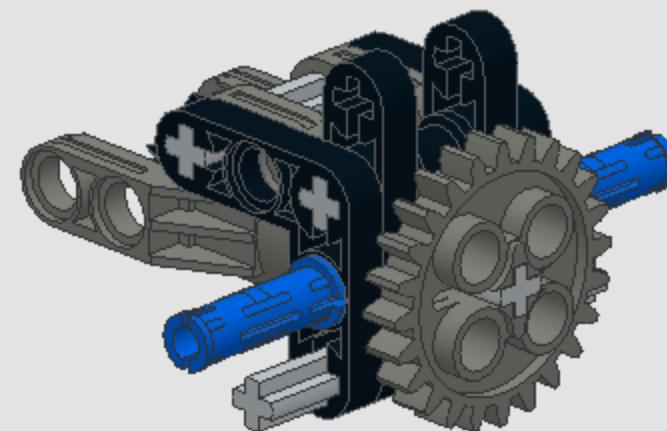
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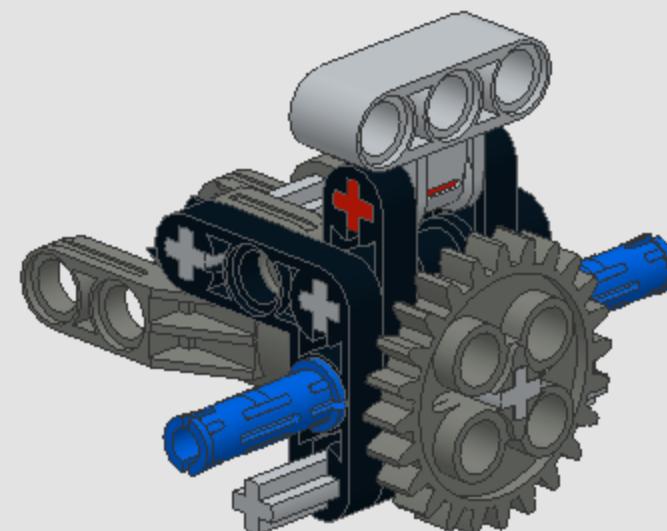
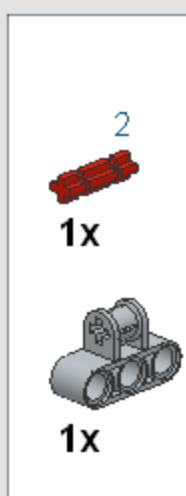
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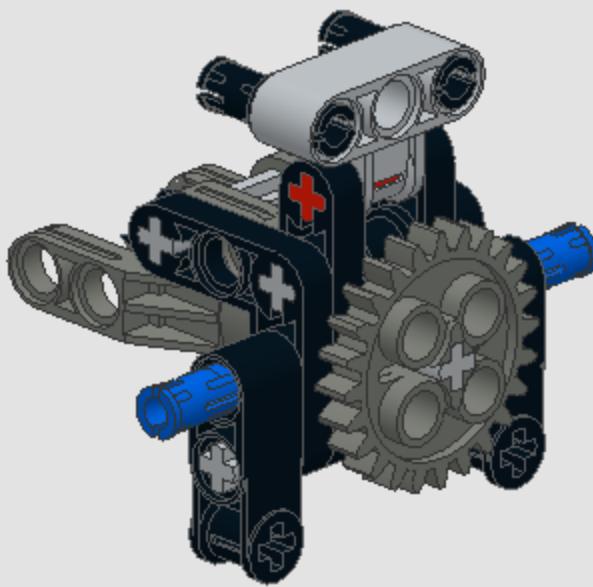
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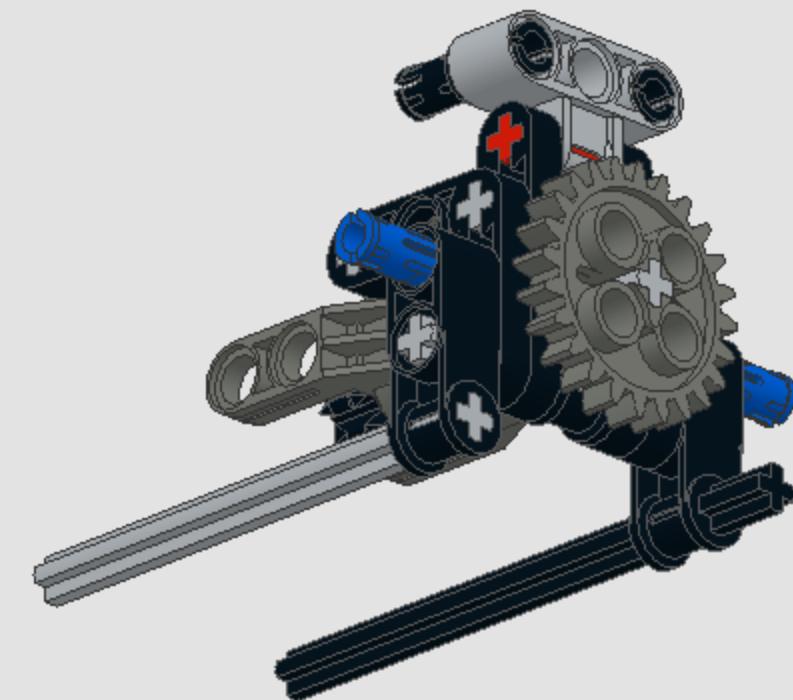
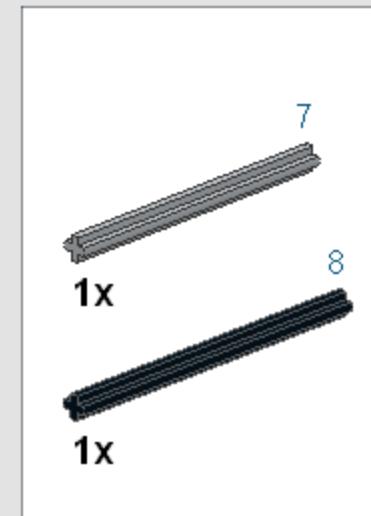
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9

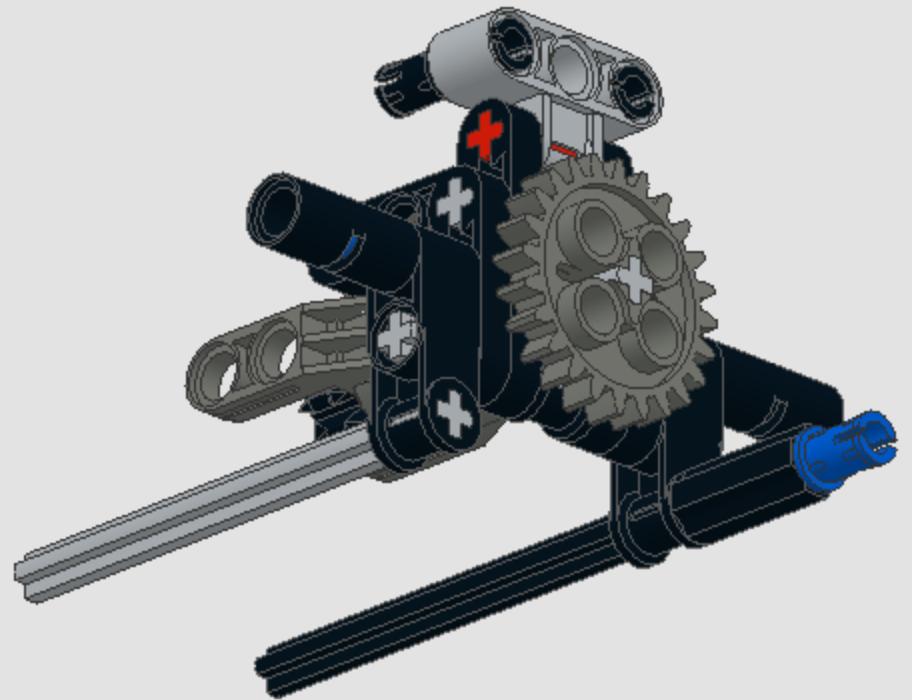
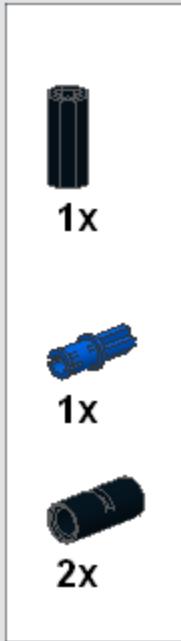


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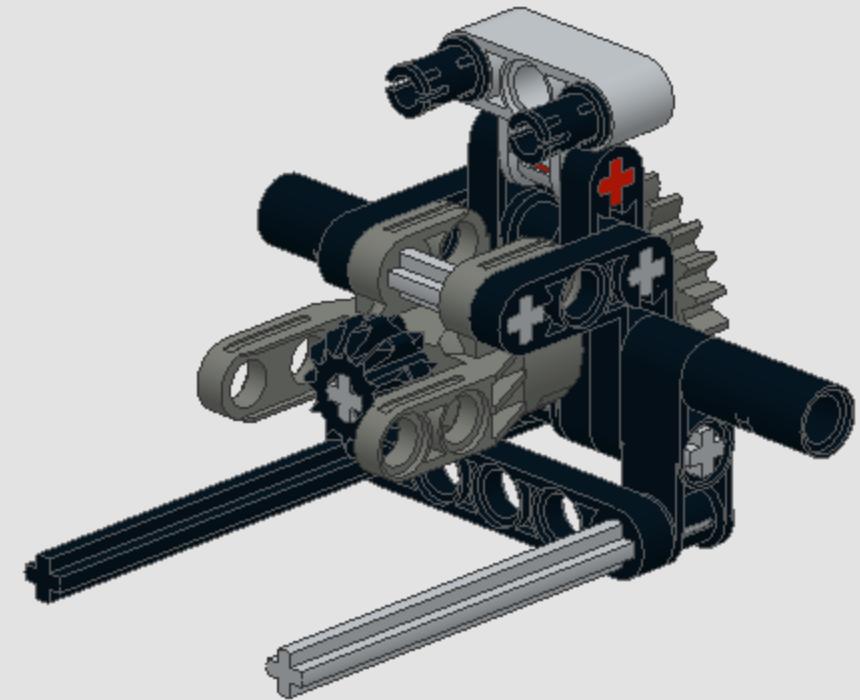
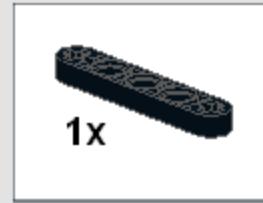


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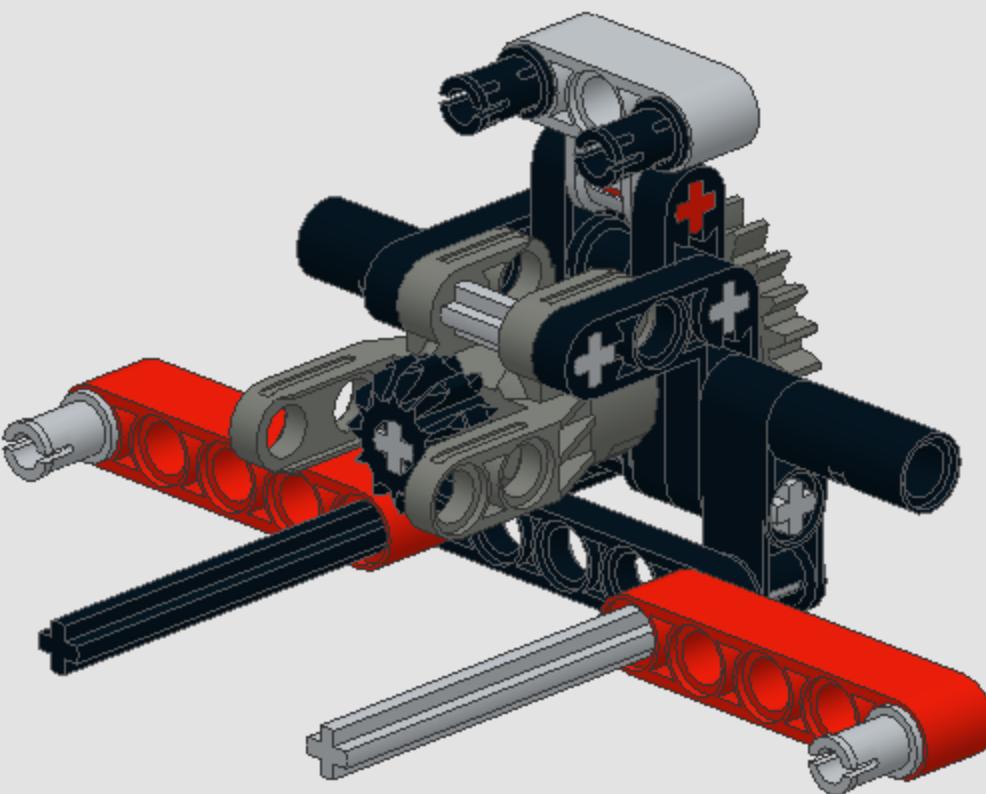
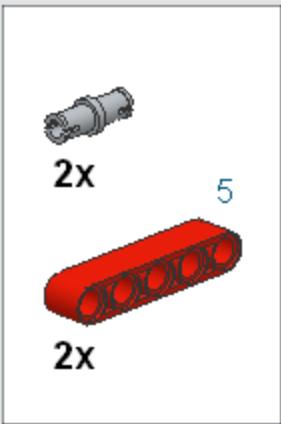
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12



142

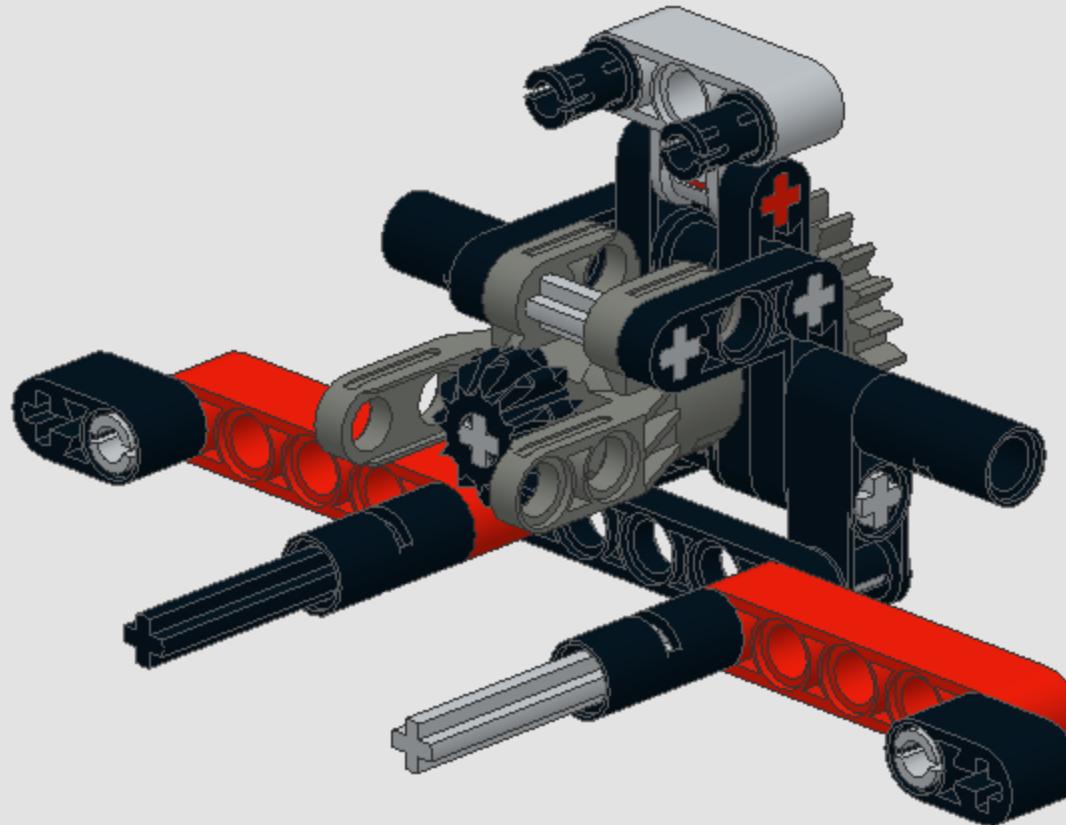


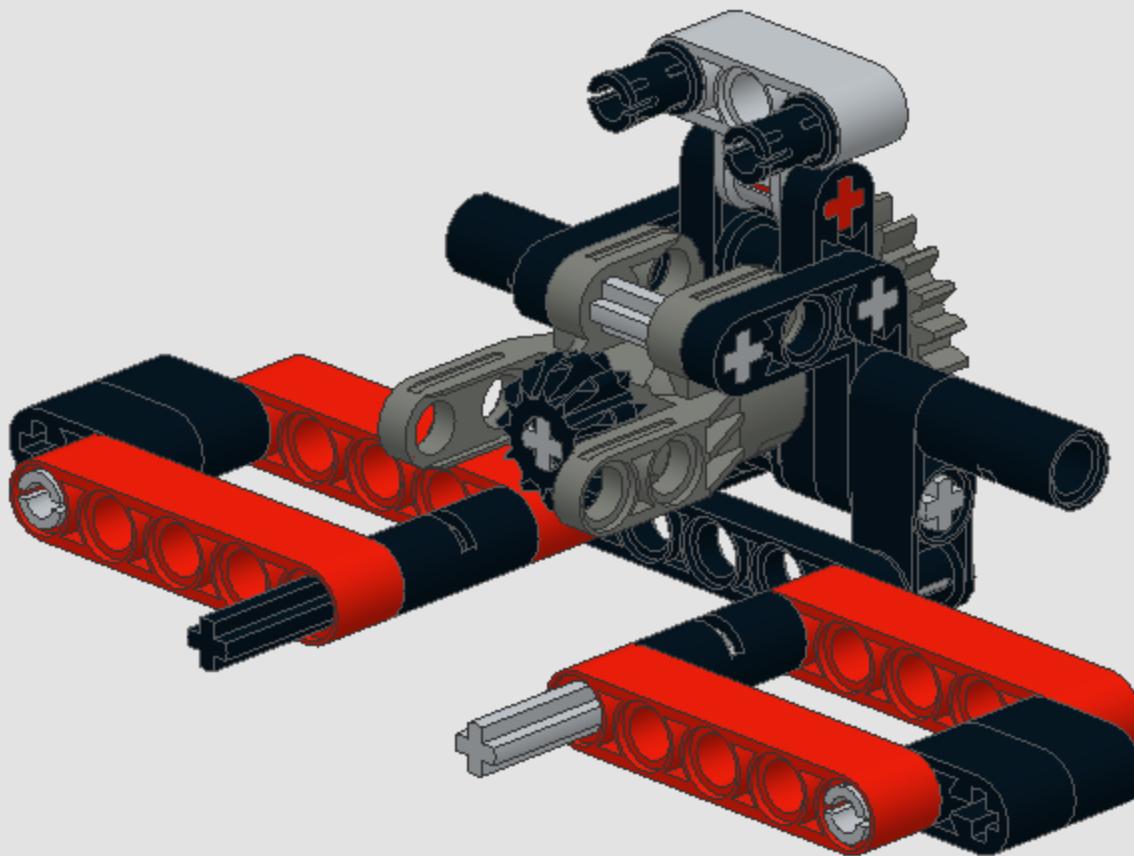
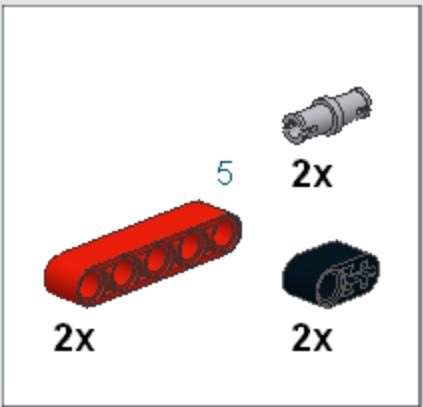
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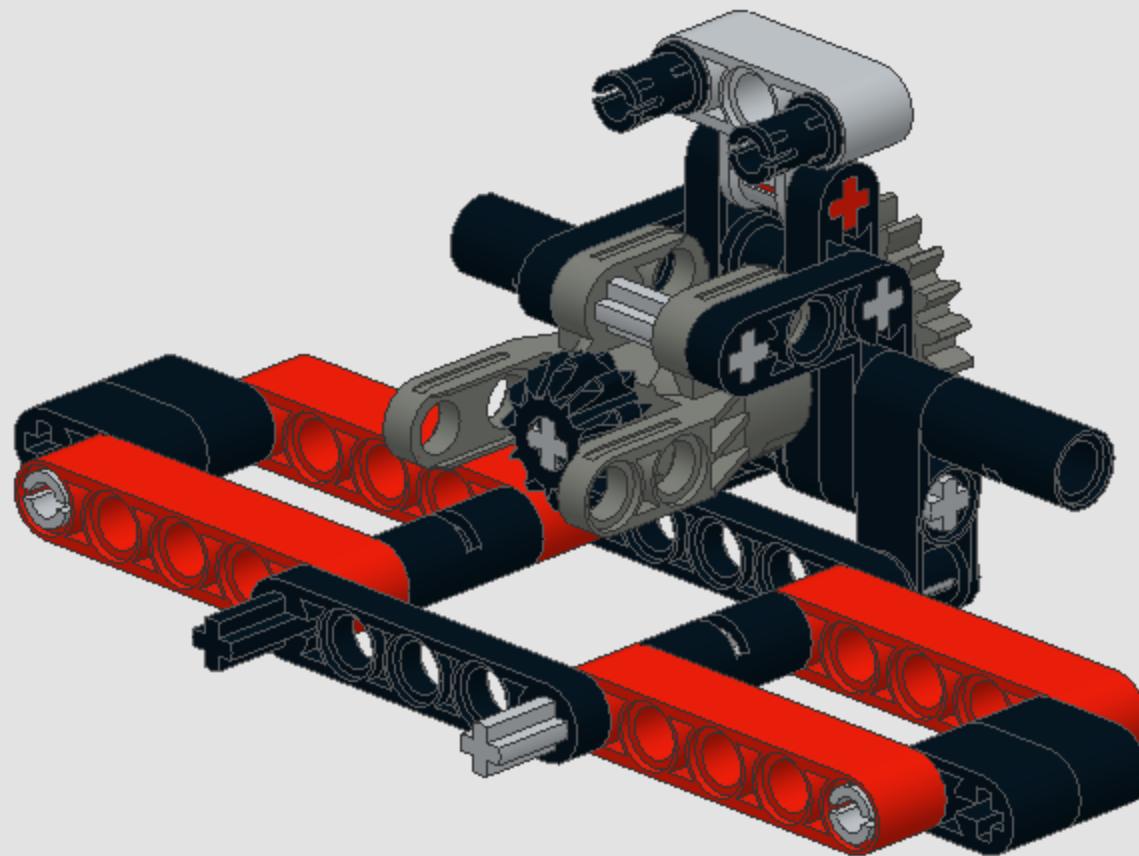
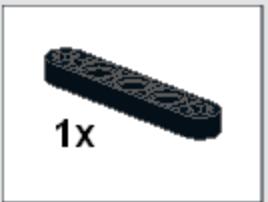


2x

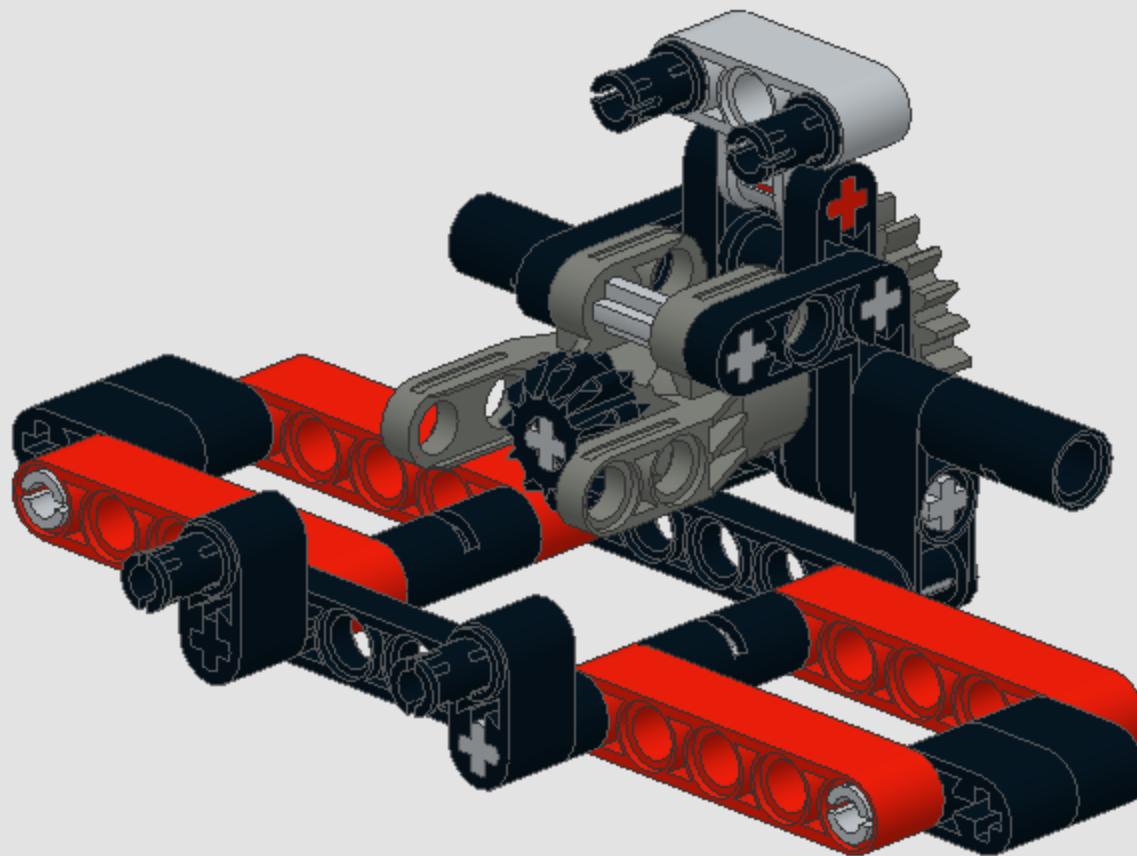
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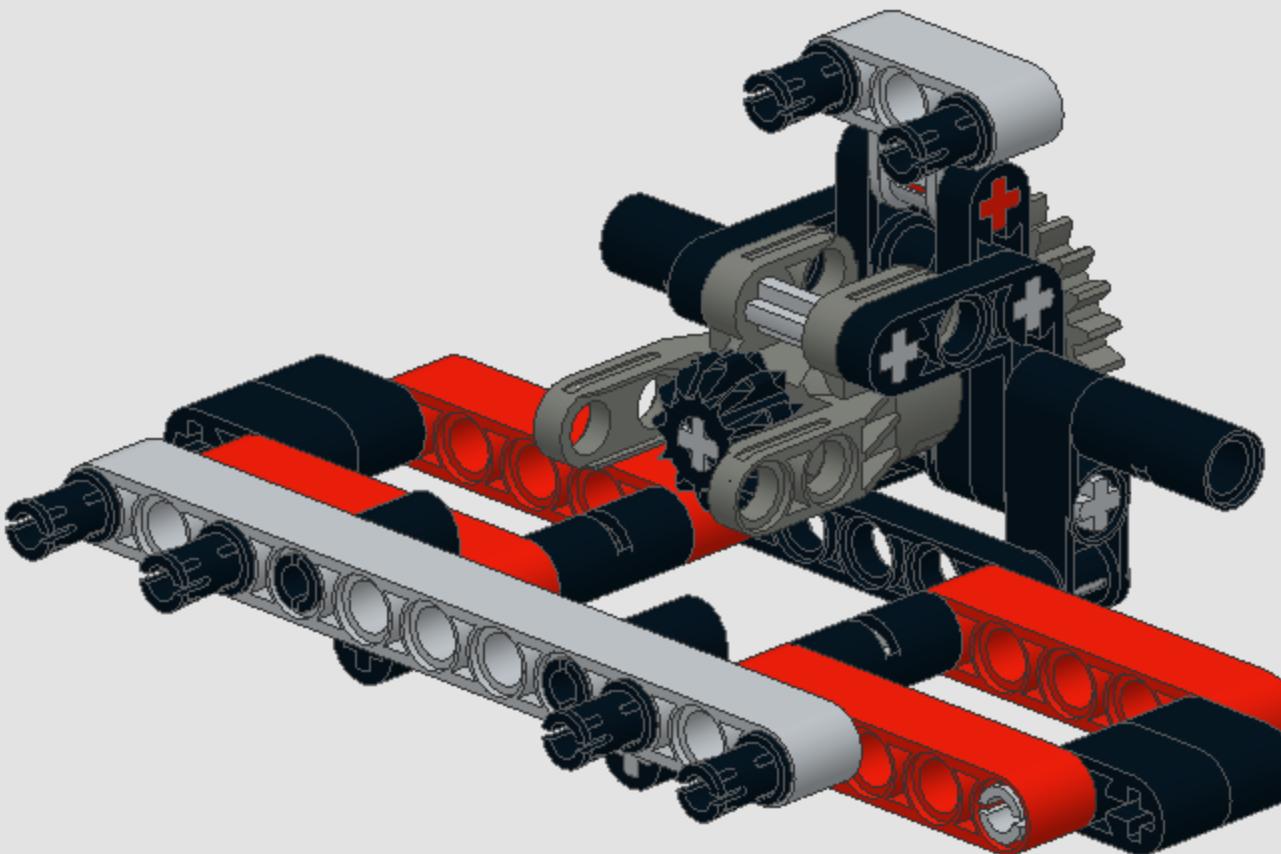
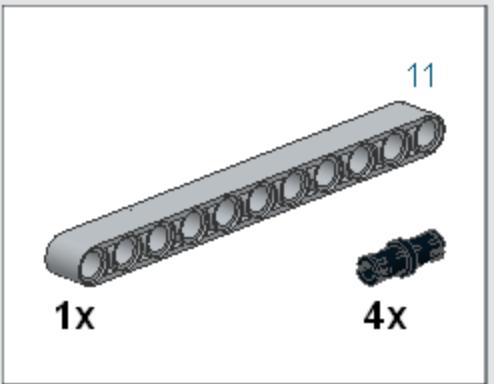


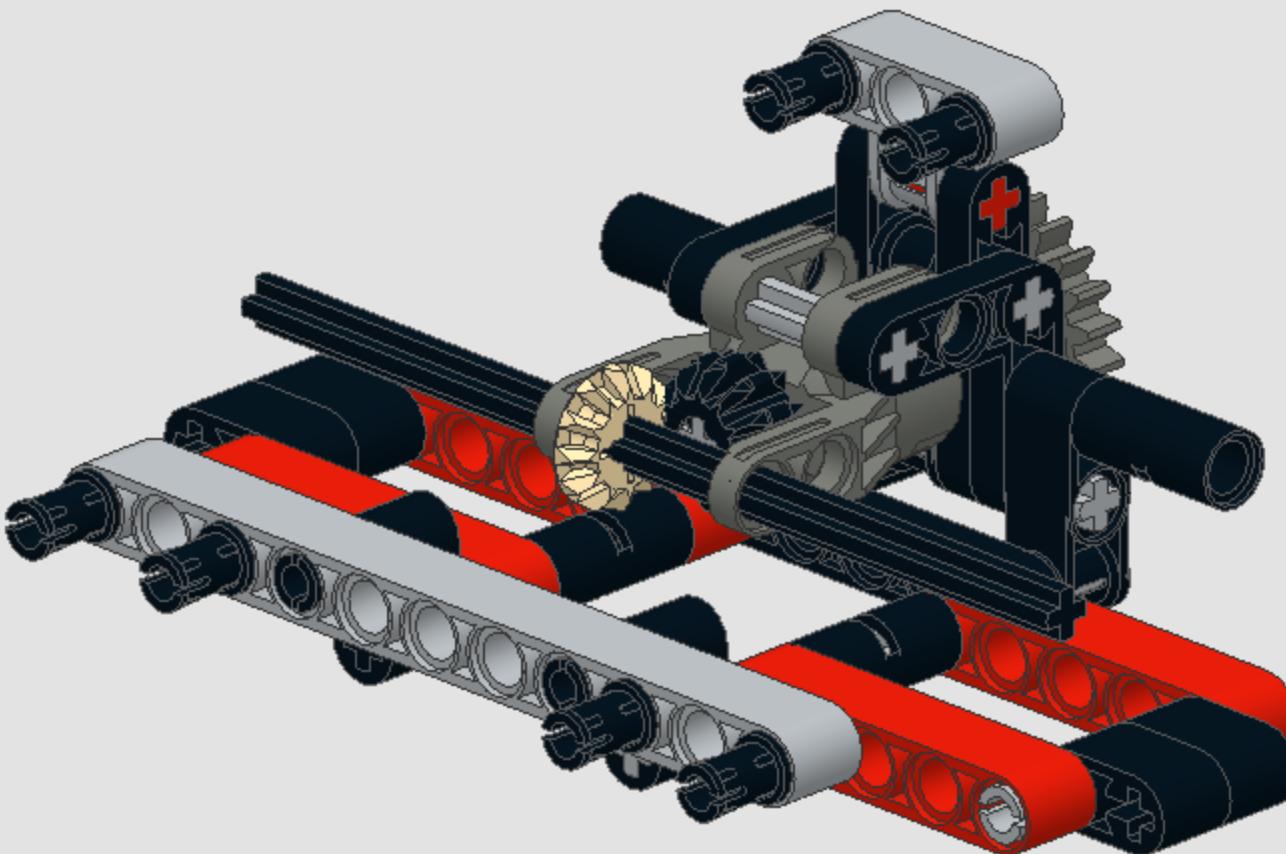




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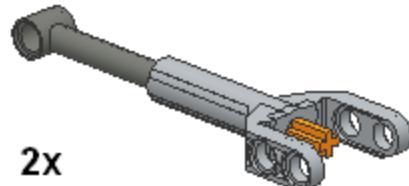
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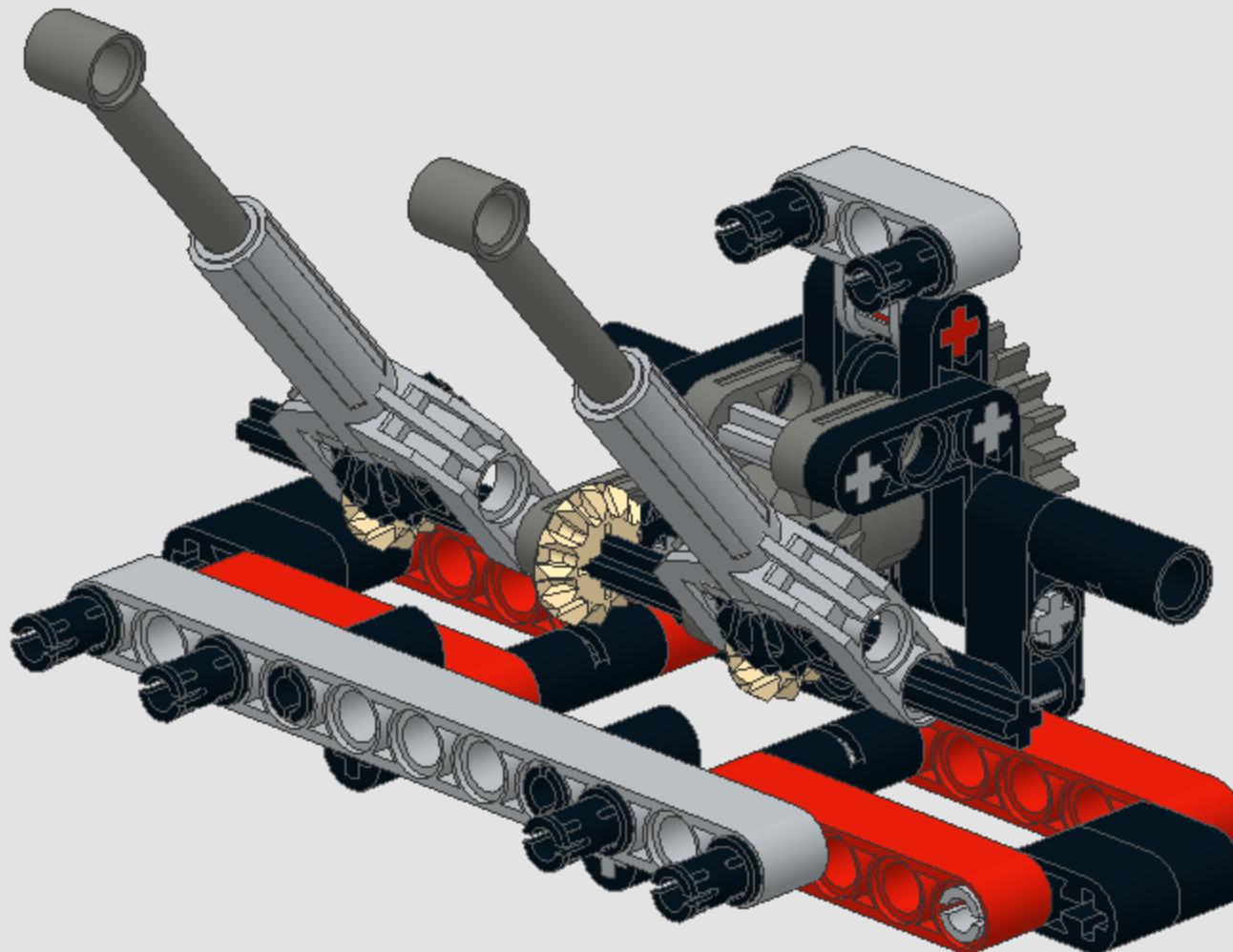
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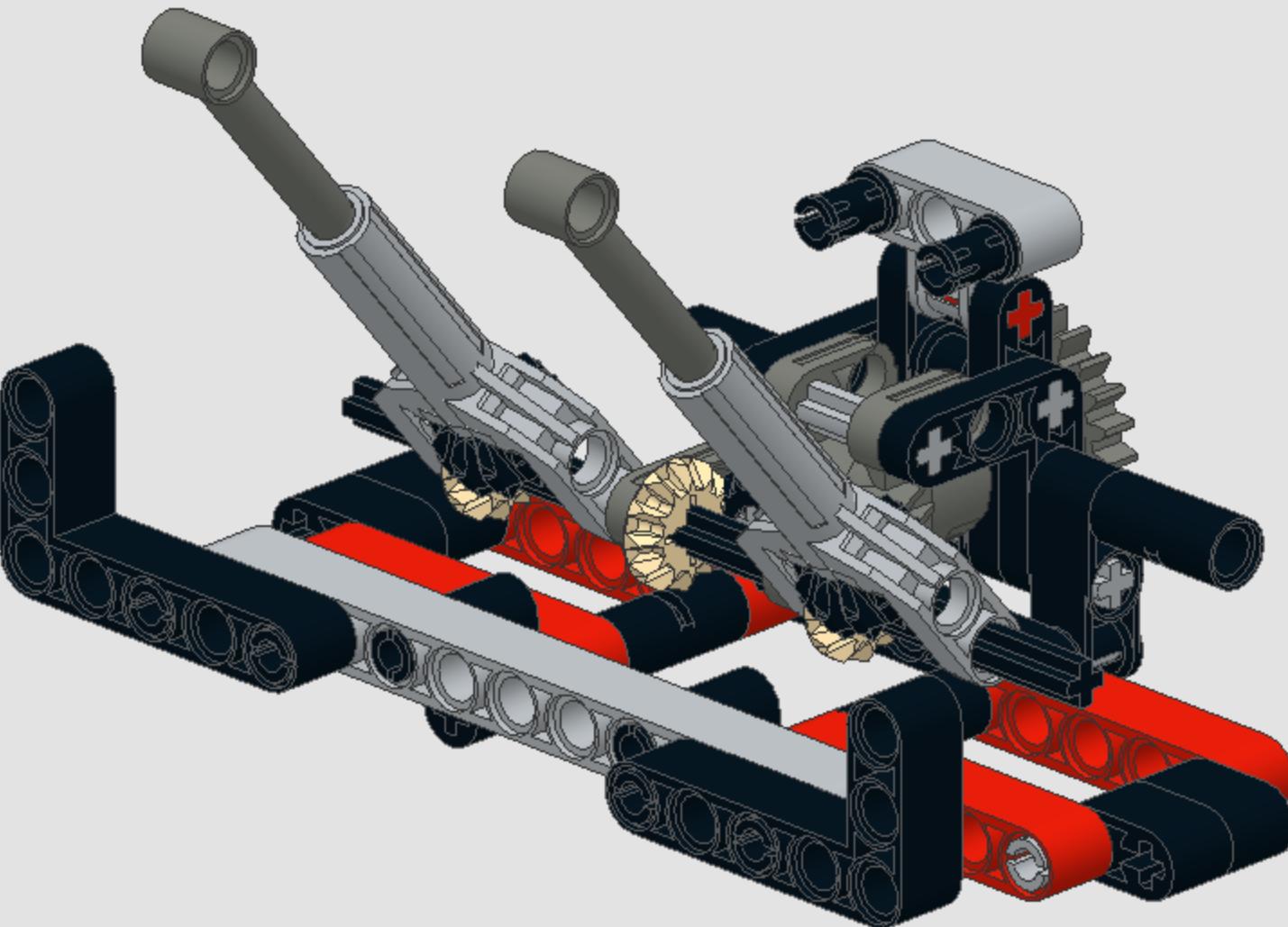
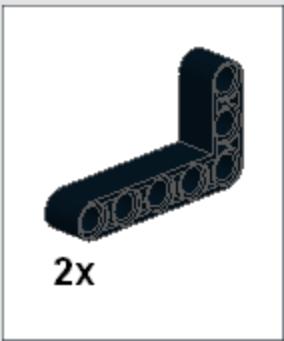
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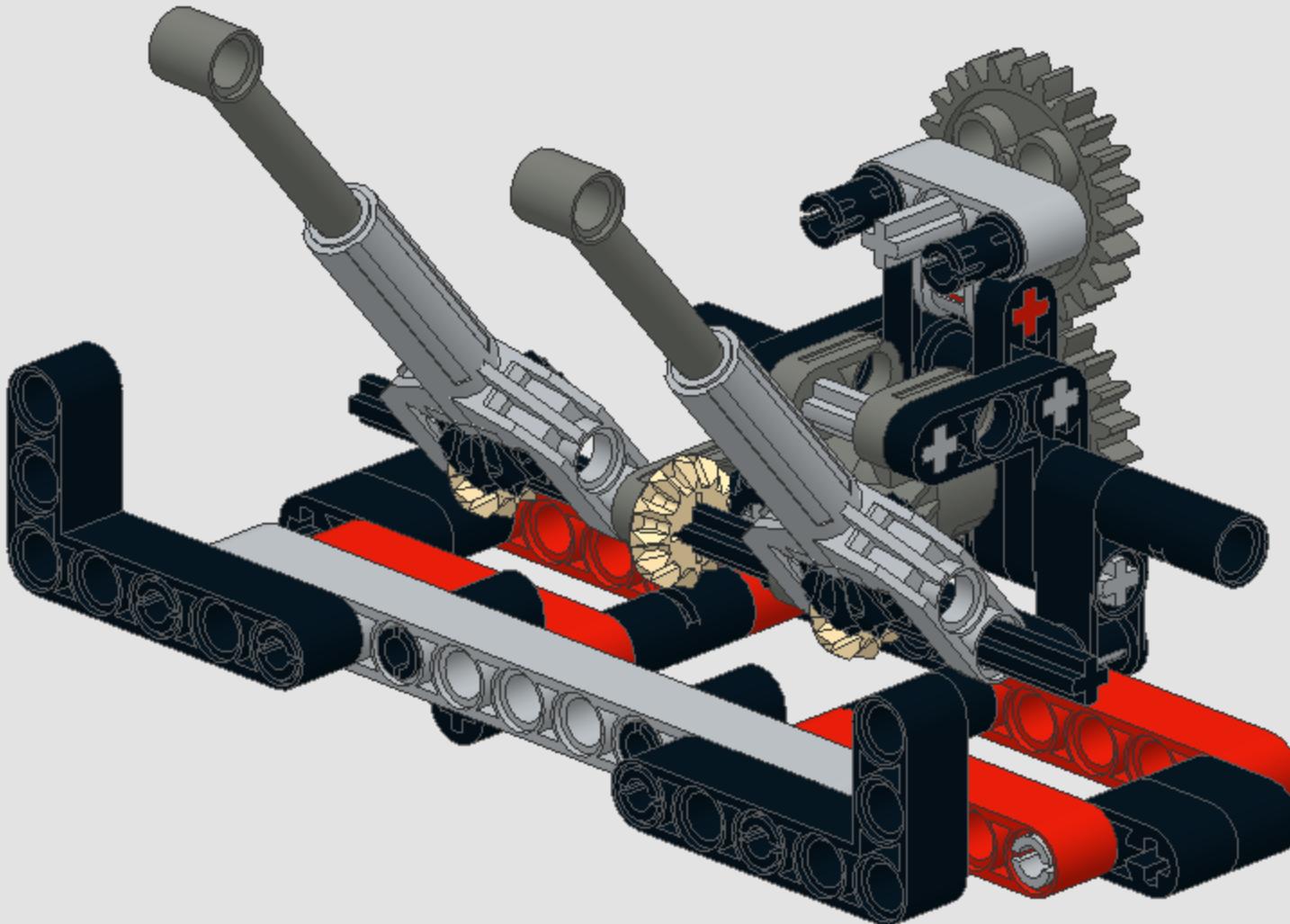
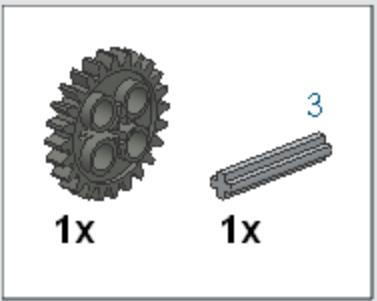


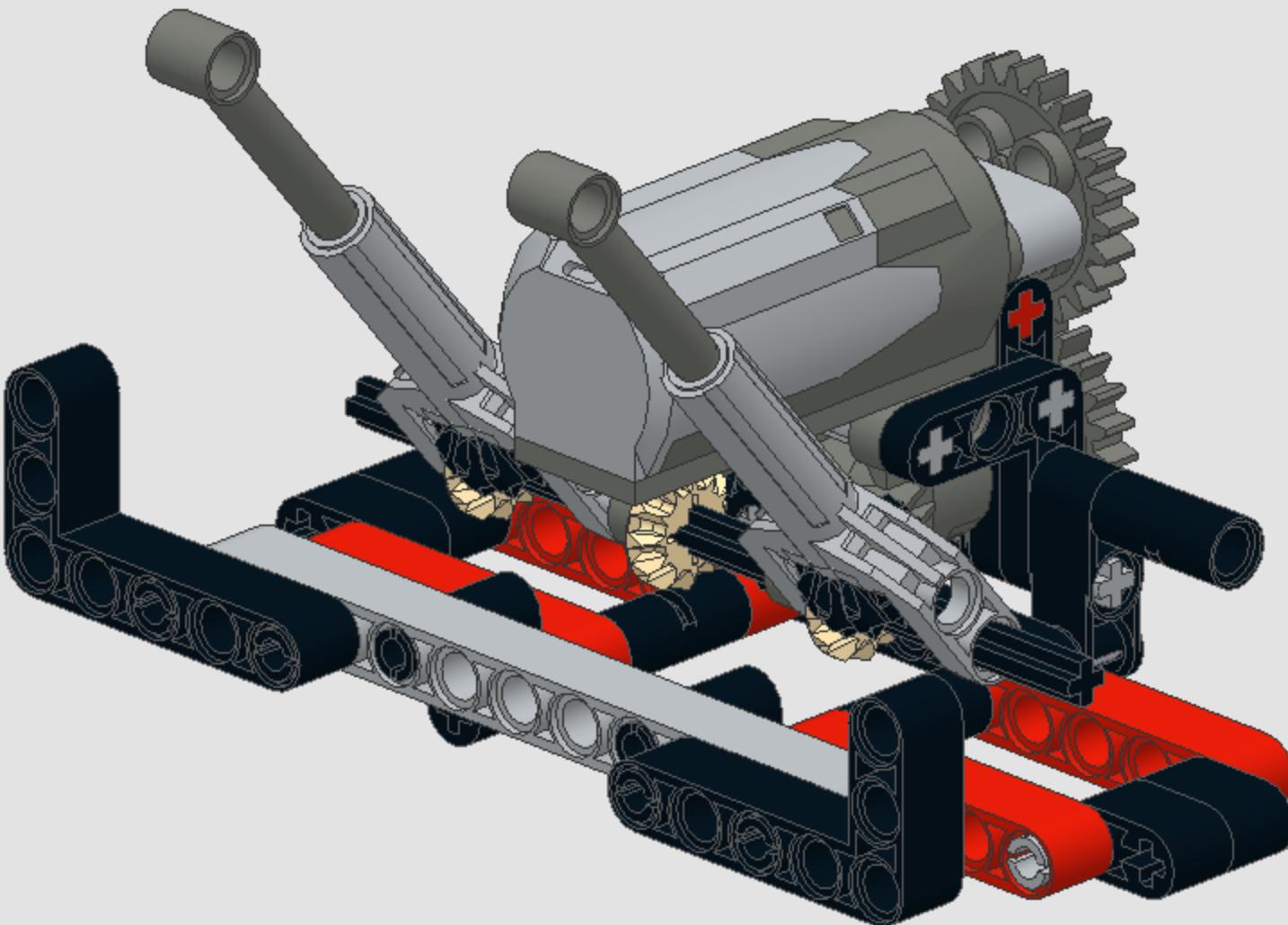
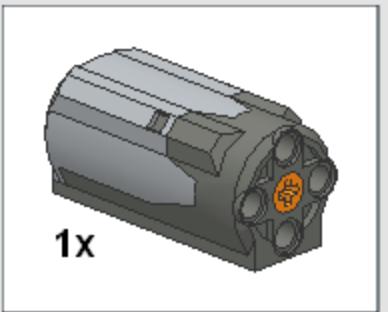
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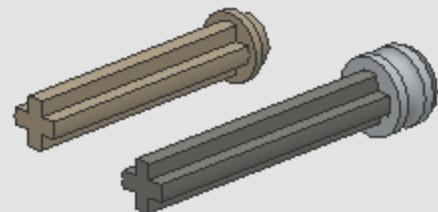
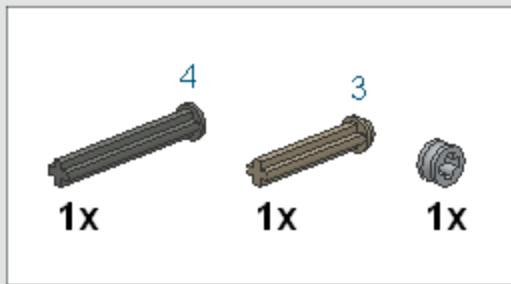
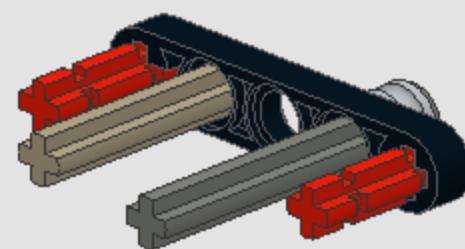
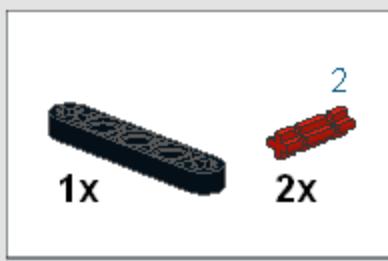
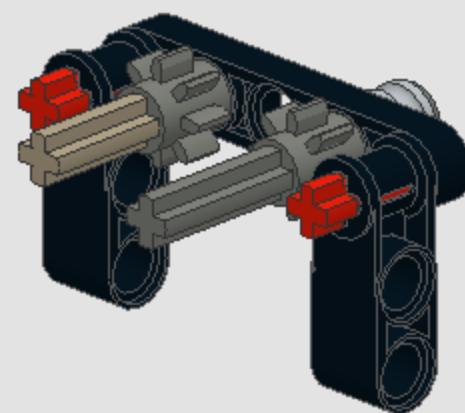
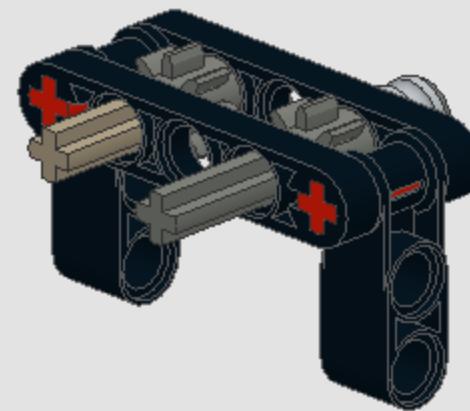
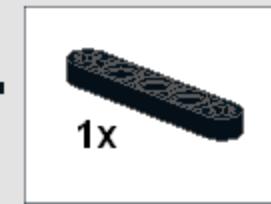
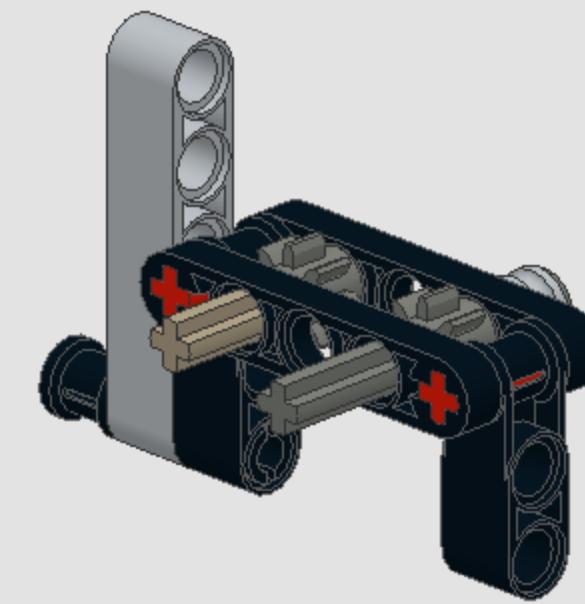
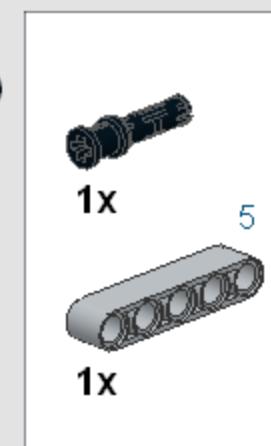
Make sure all the tan gears
are on the same side.





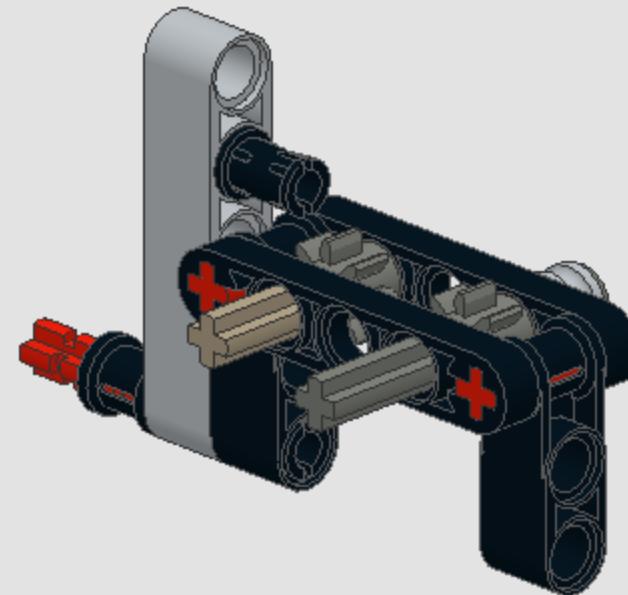


153

1**2****3****4****5**

6

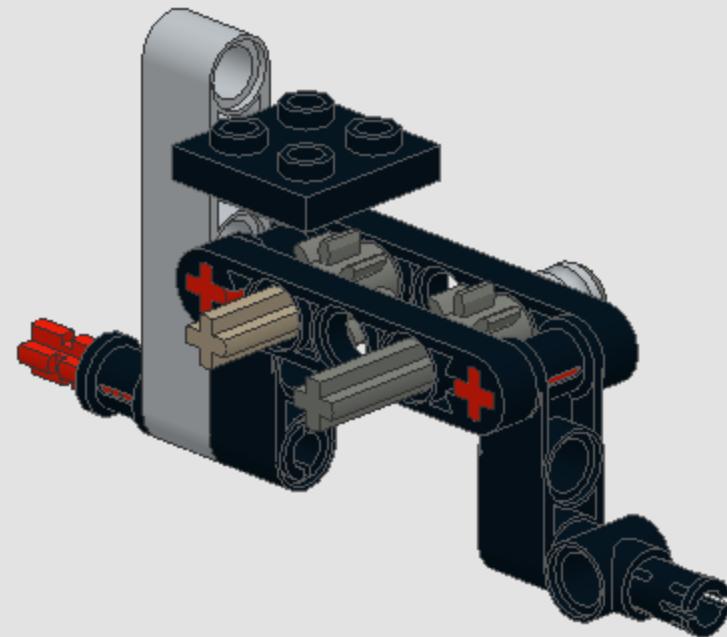
1x

2
1x**7**

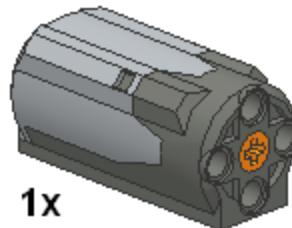
1x



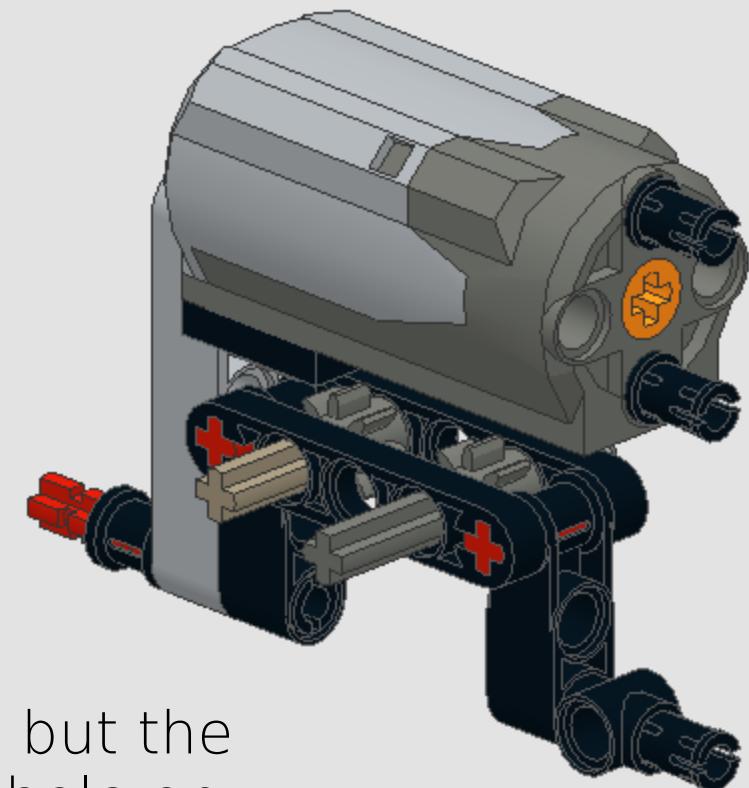
1x

**8**

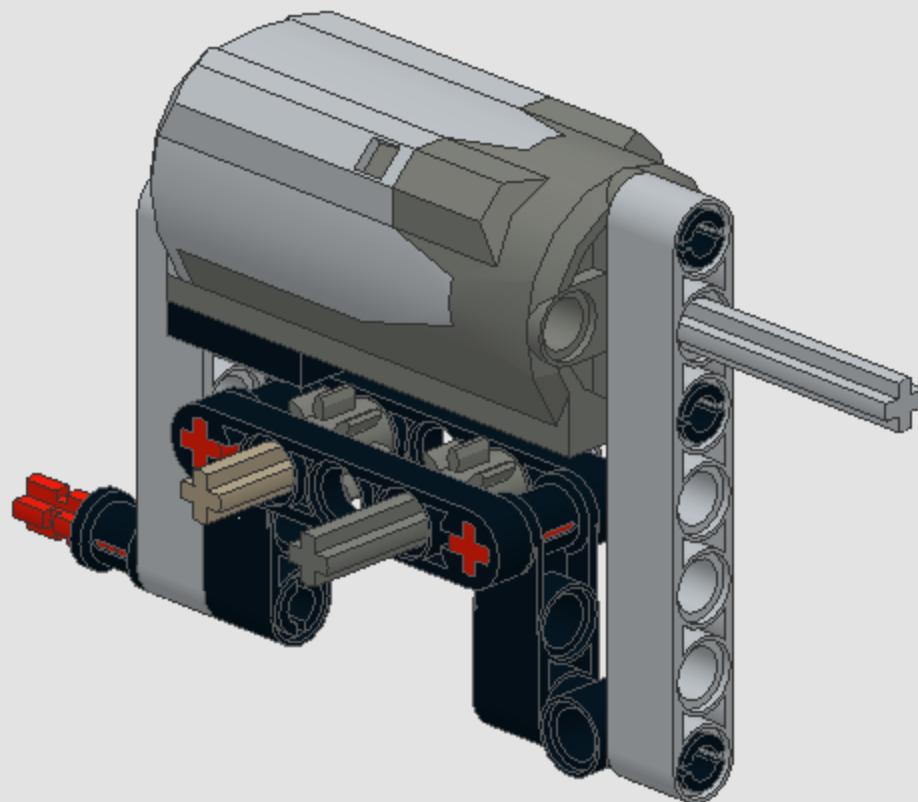
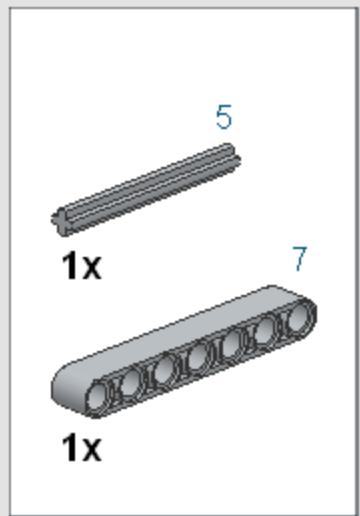
2x

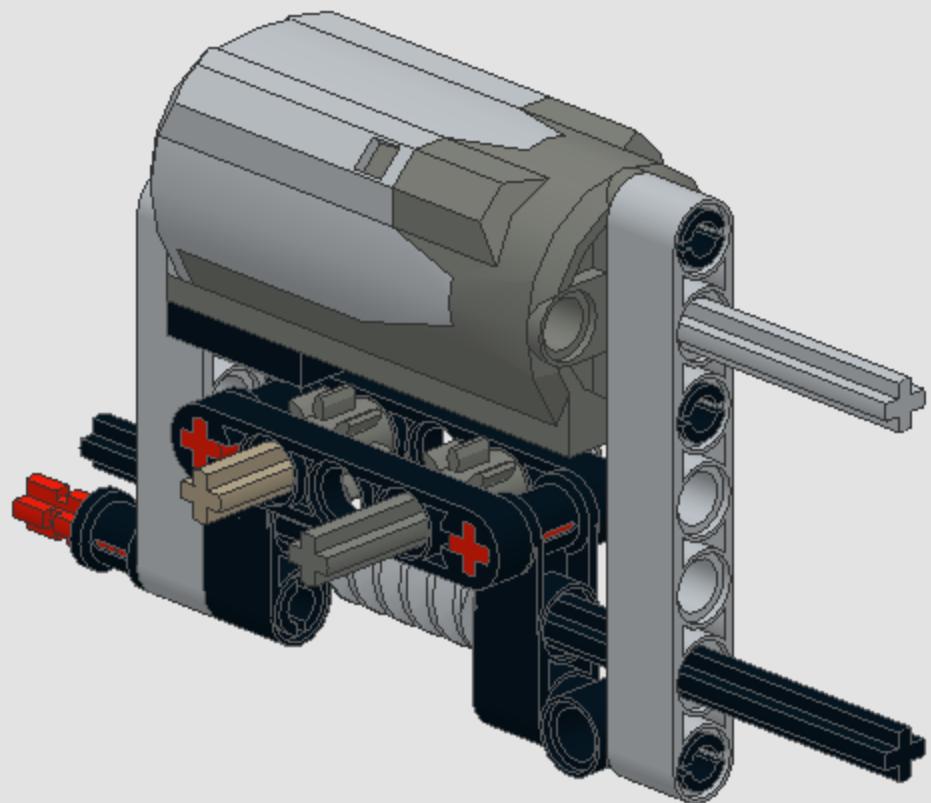
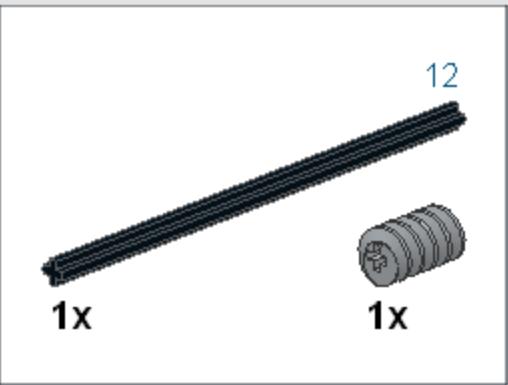


1x



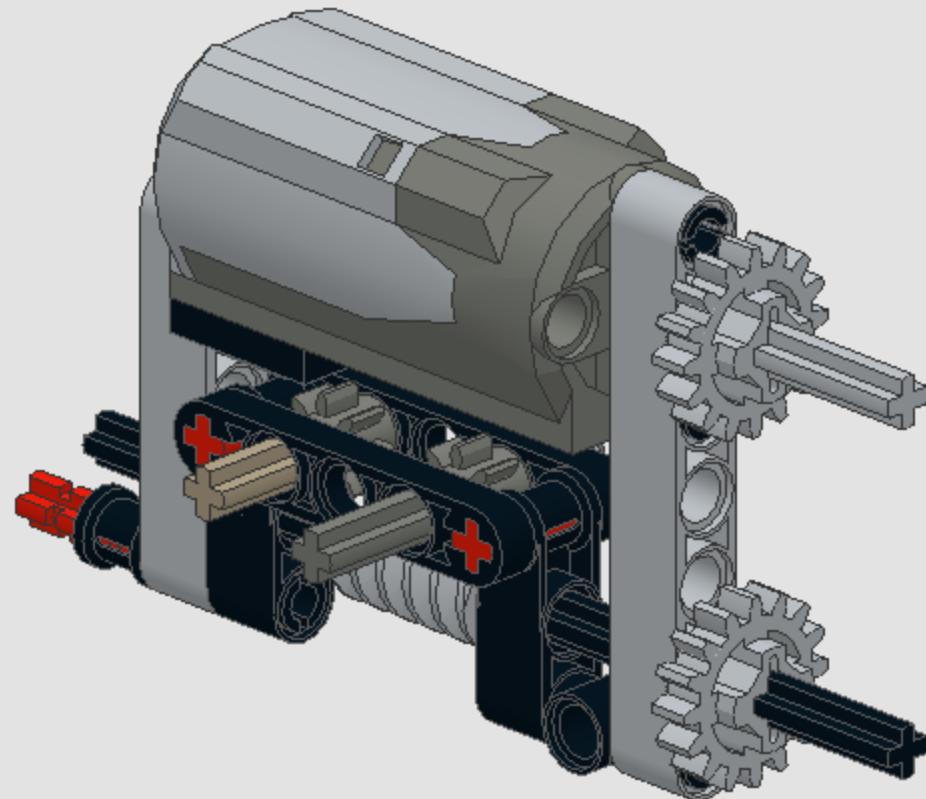
You can't see it, but the 2x2 plate has a hole on the bottom side. It's the same part that's used in the mirrors.







2x

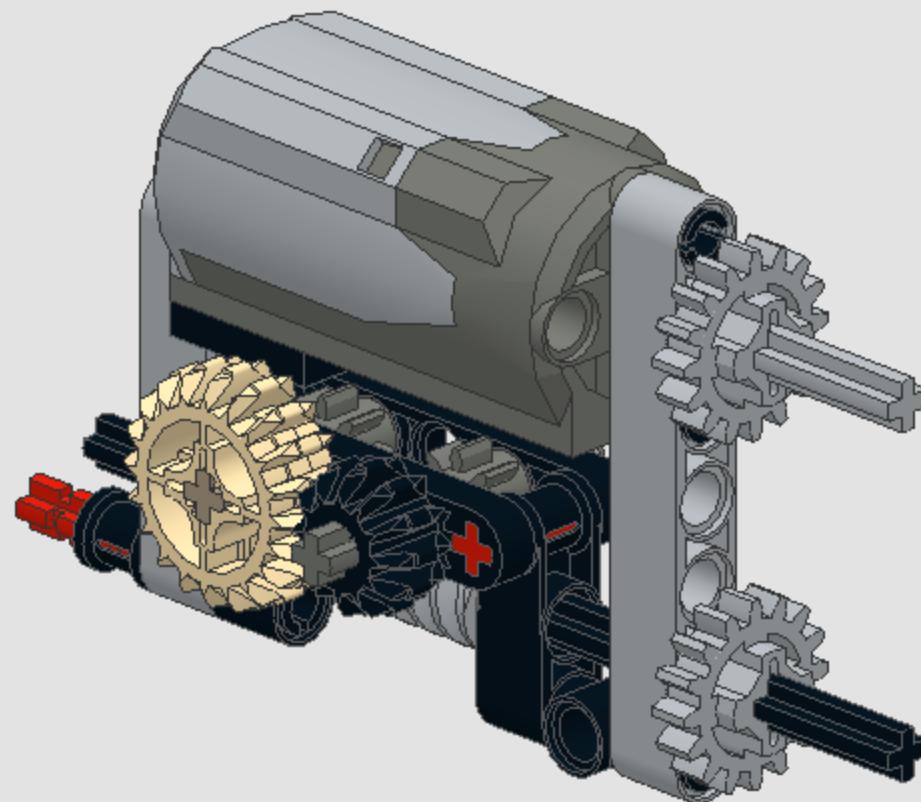


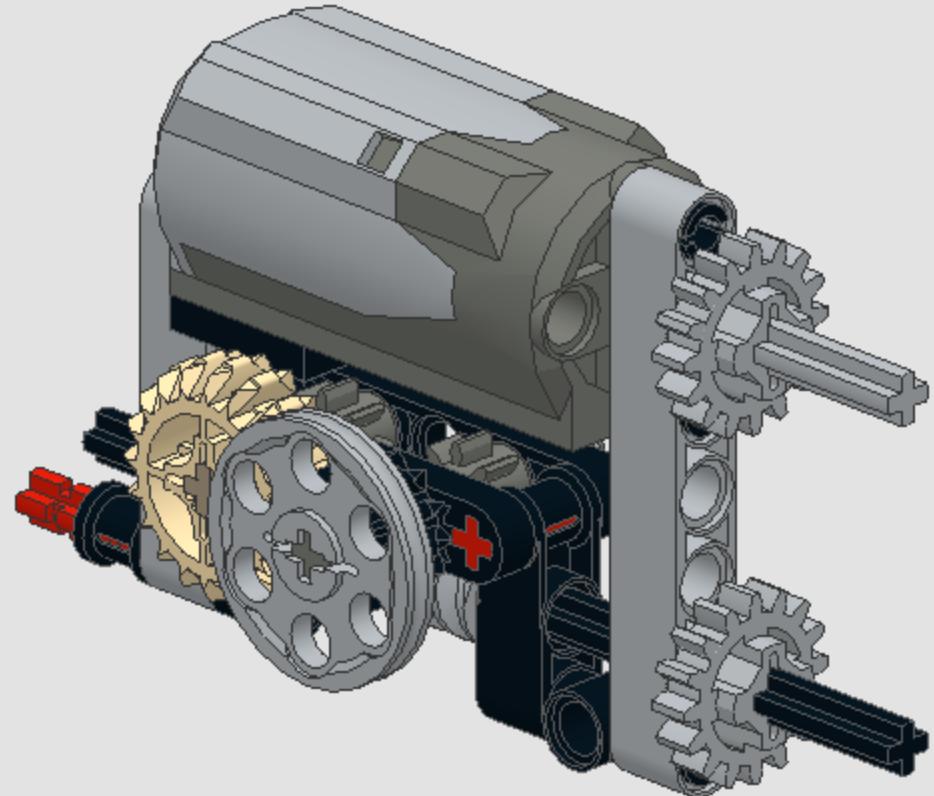


1x

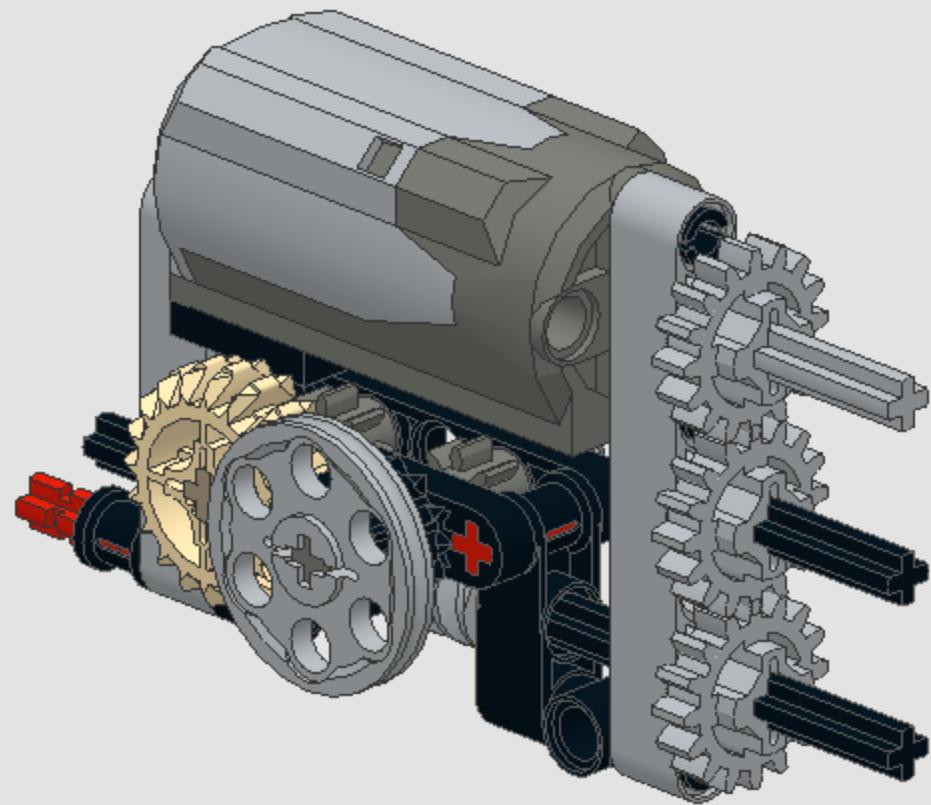
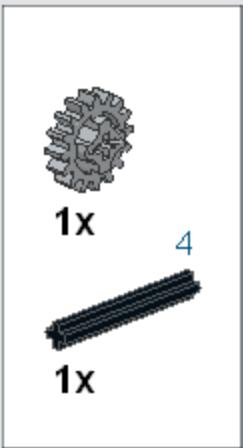


1x





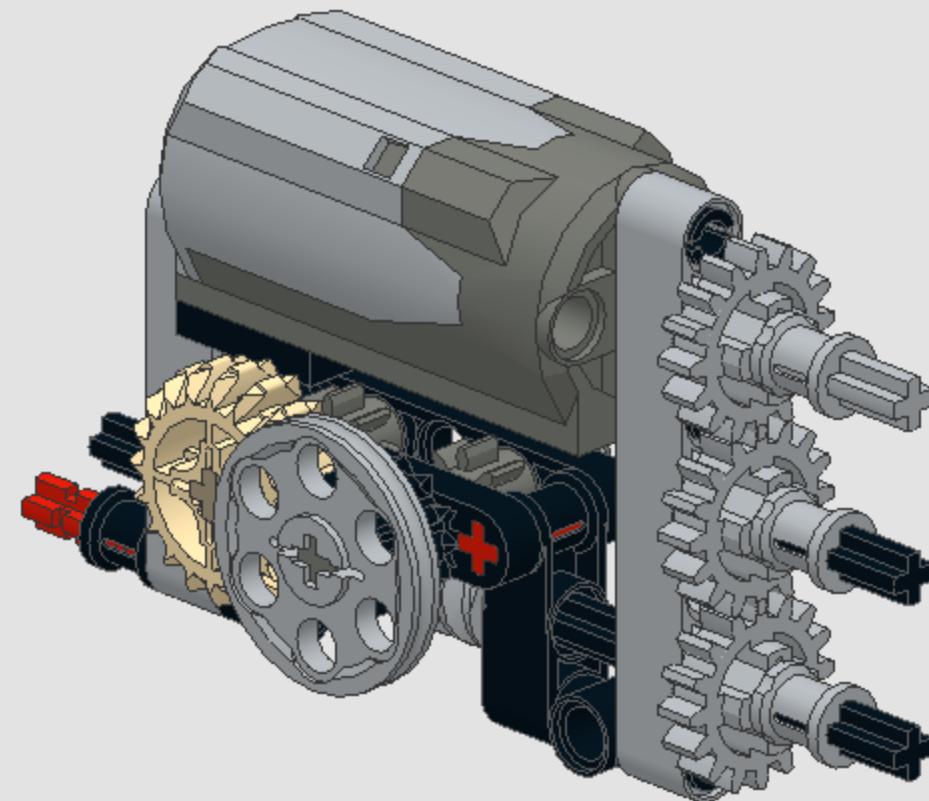
160

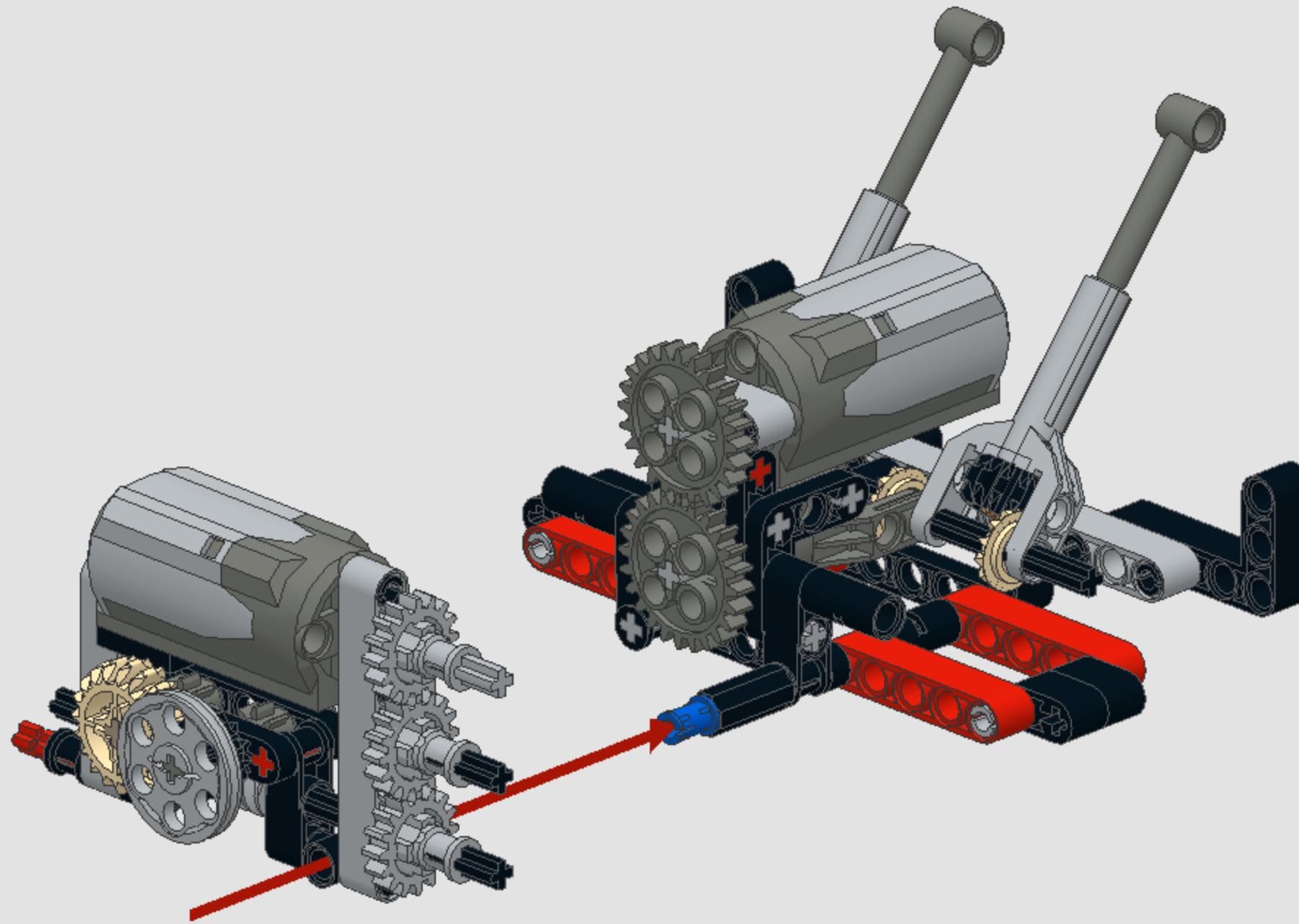


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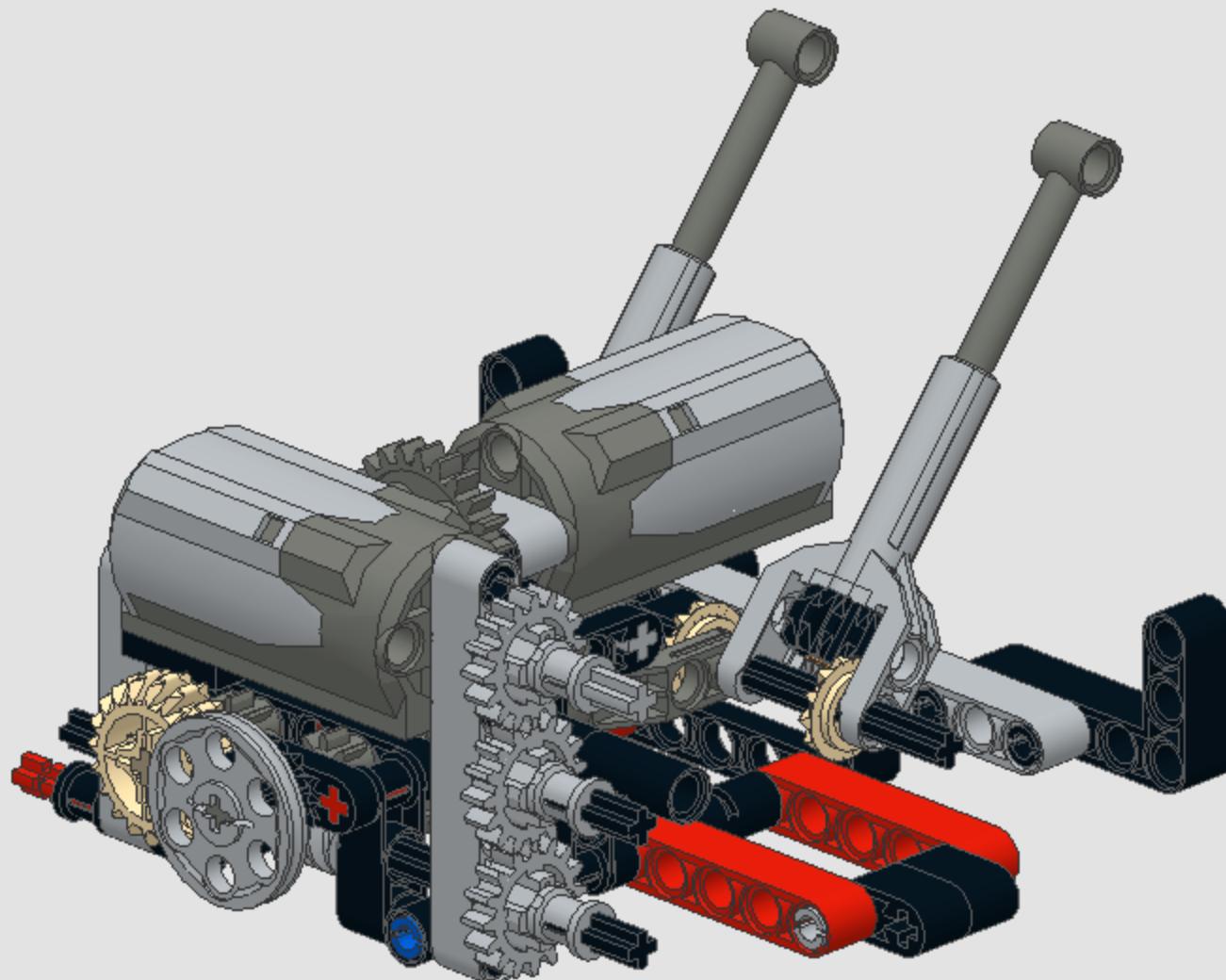


3x



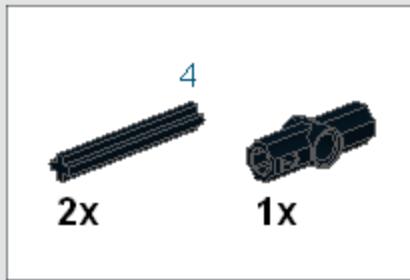


163

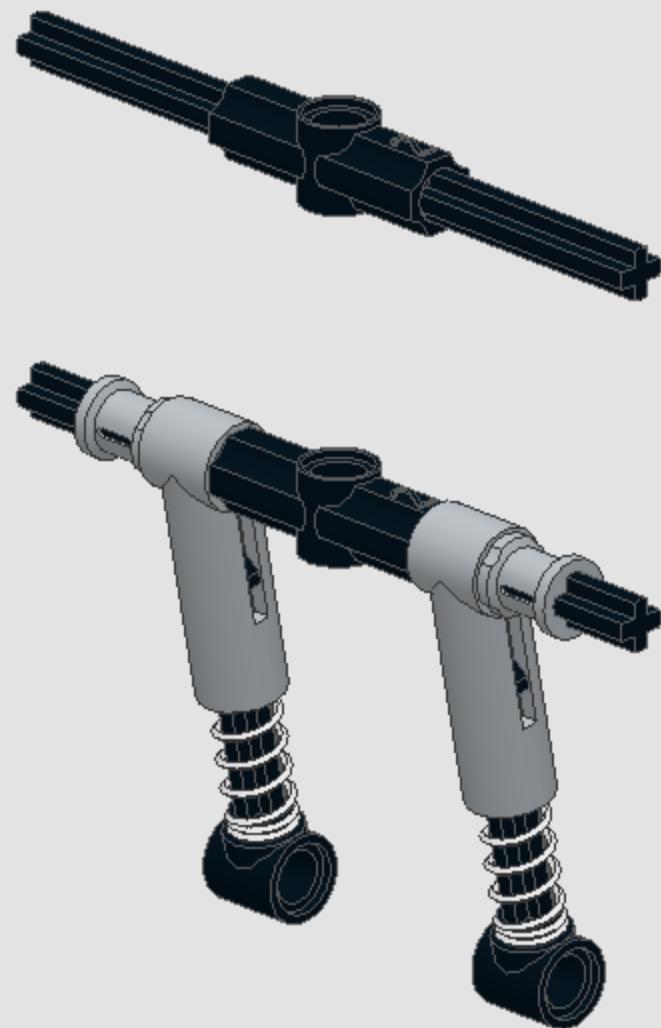
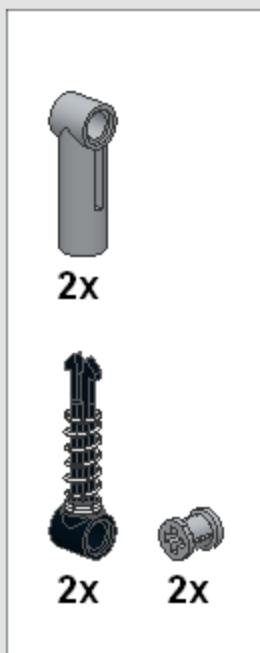


164

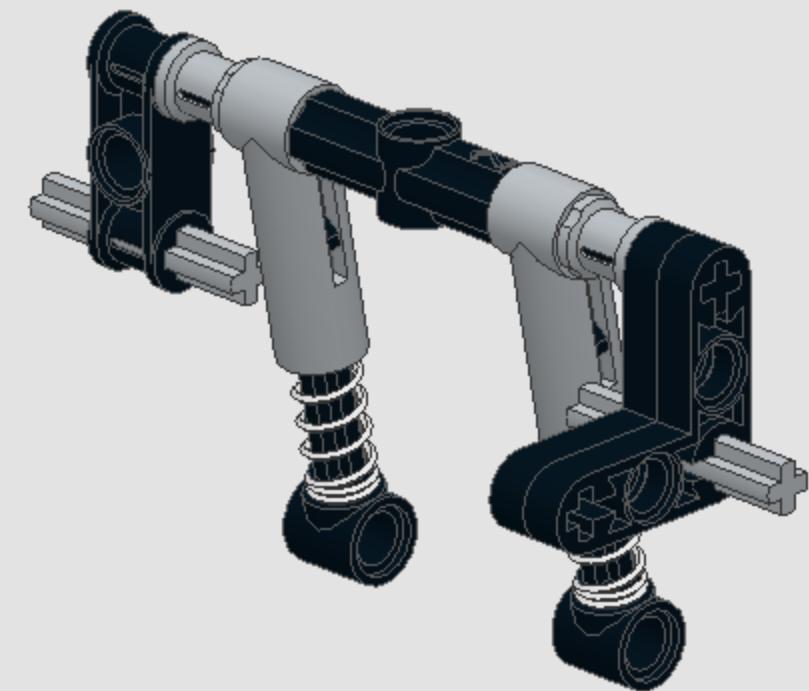
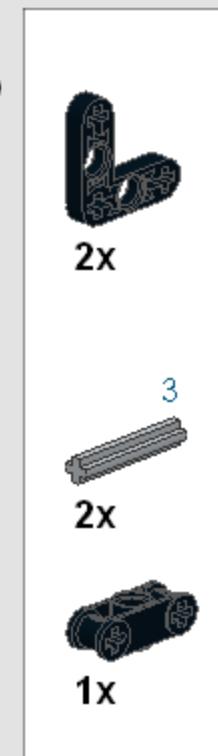
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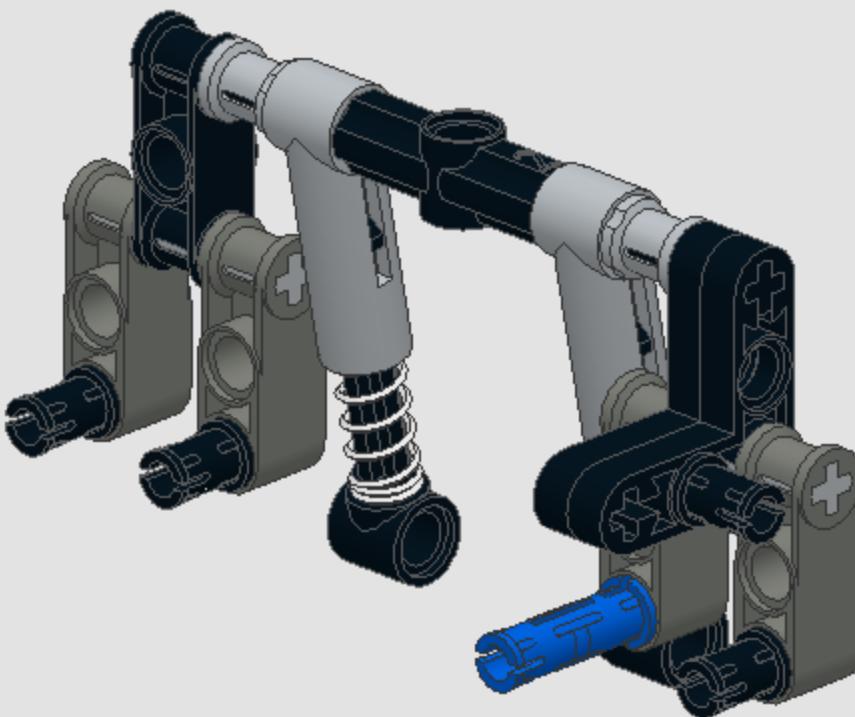
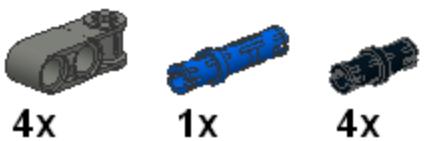


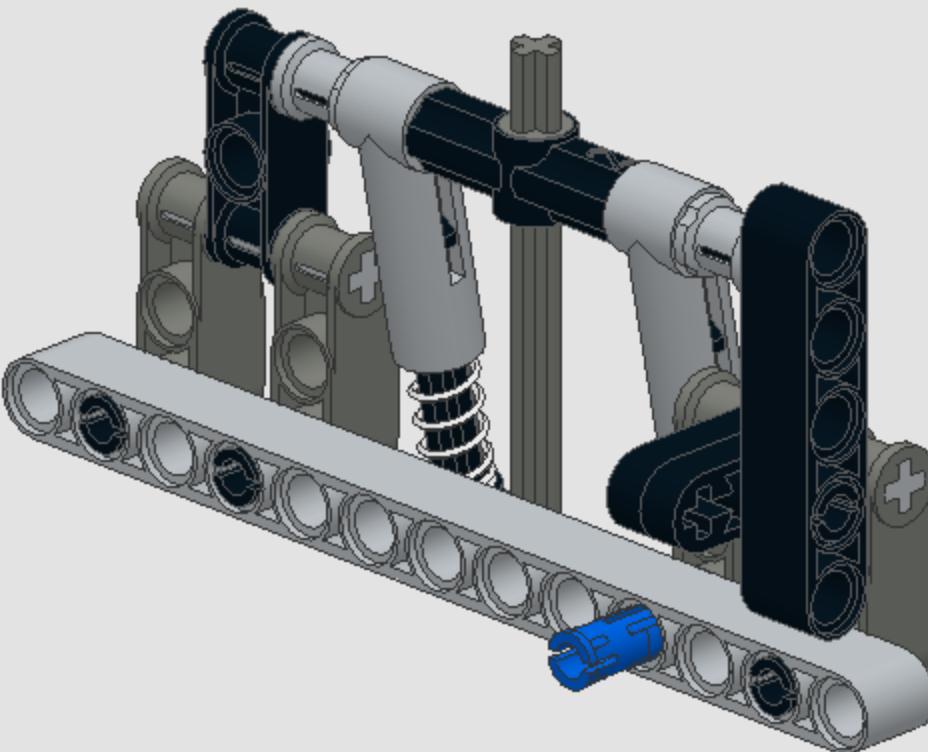
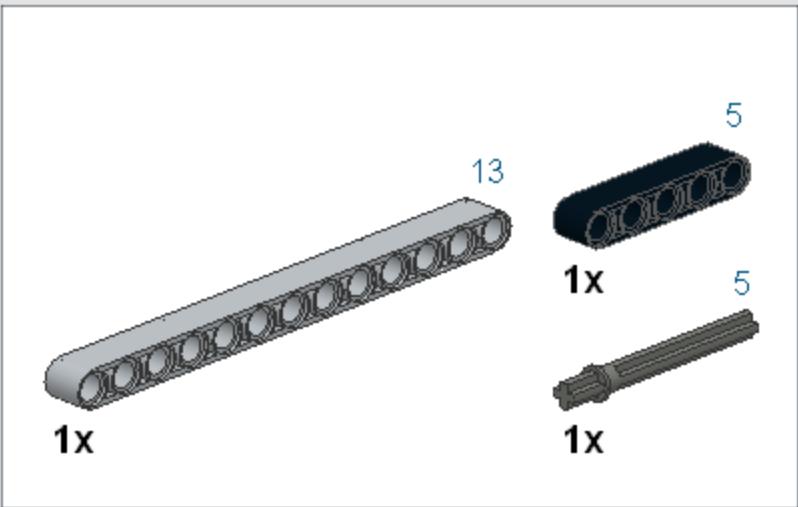
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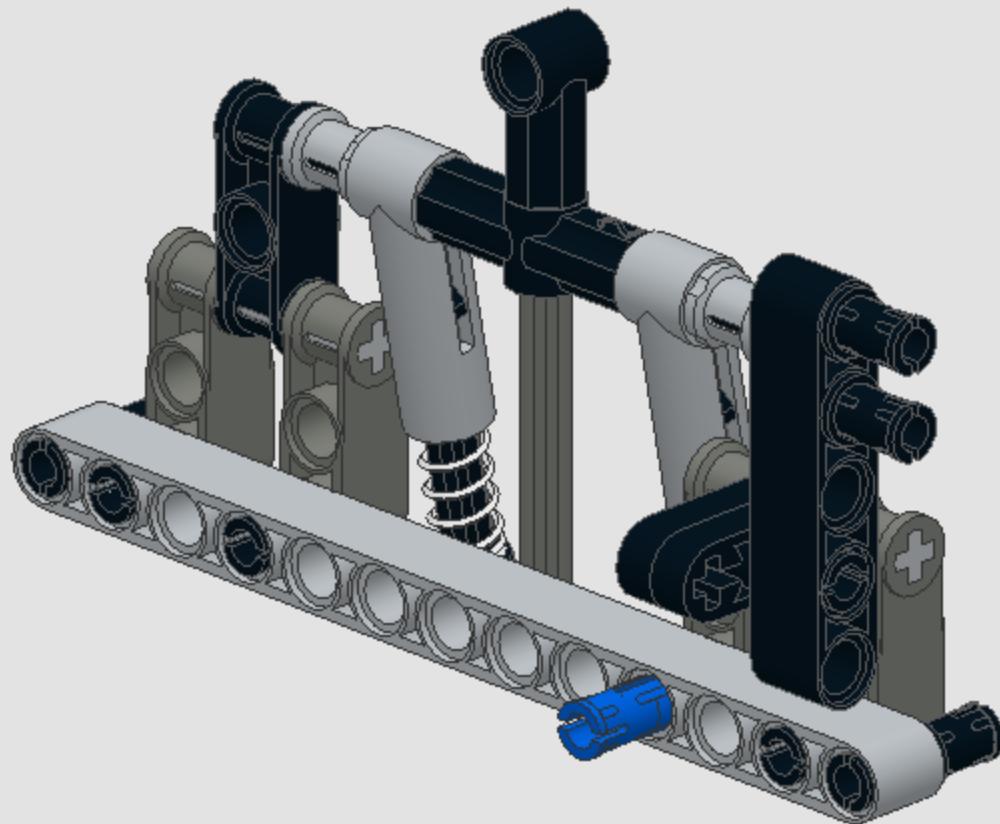
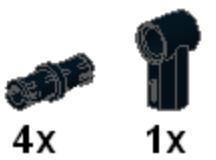


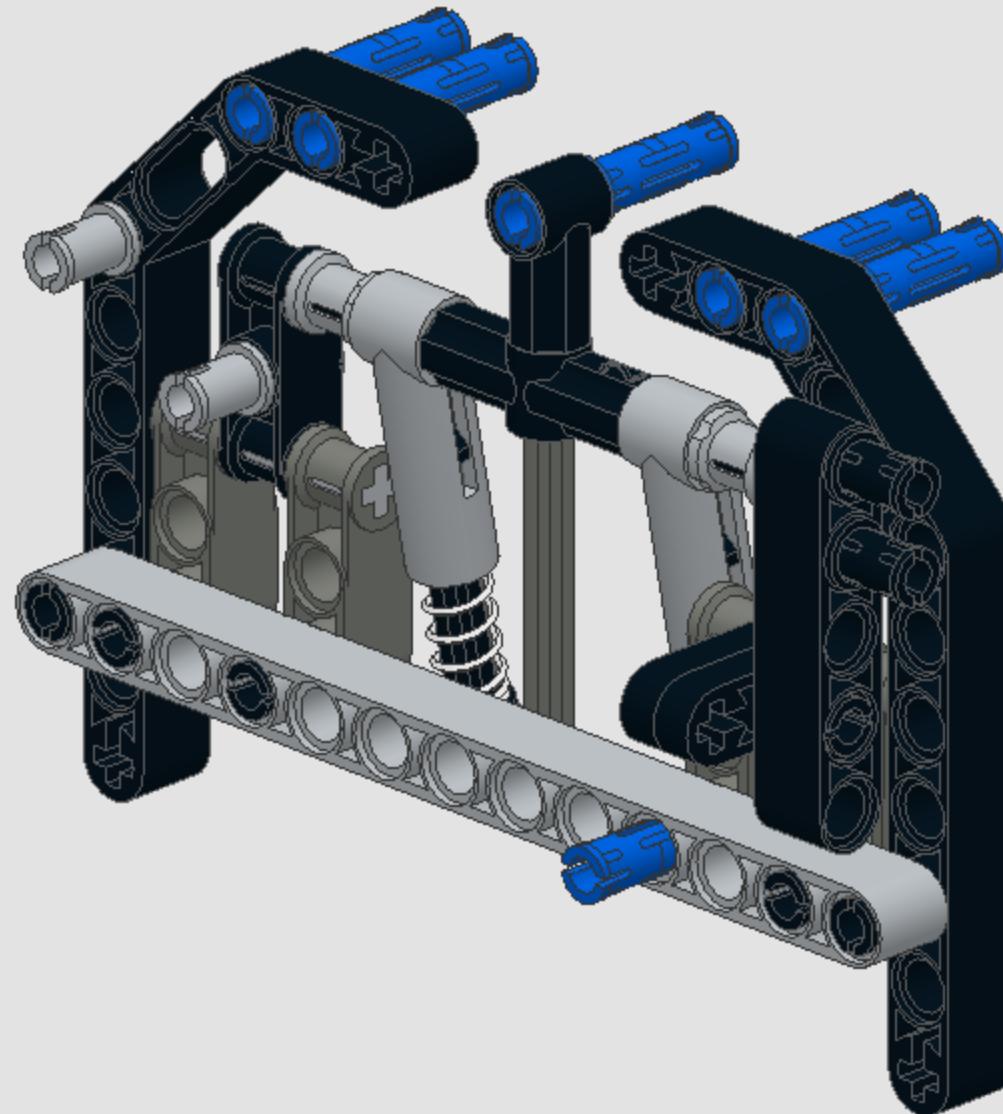
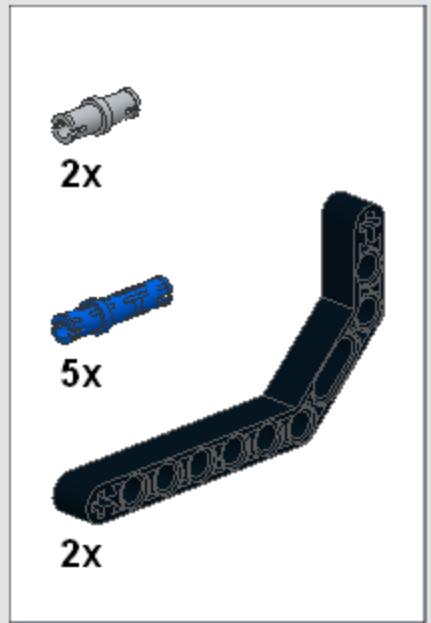
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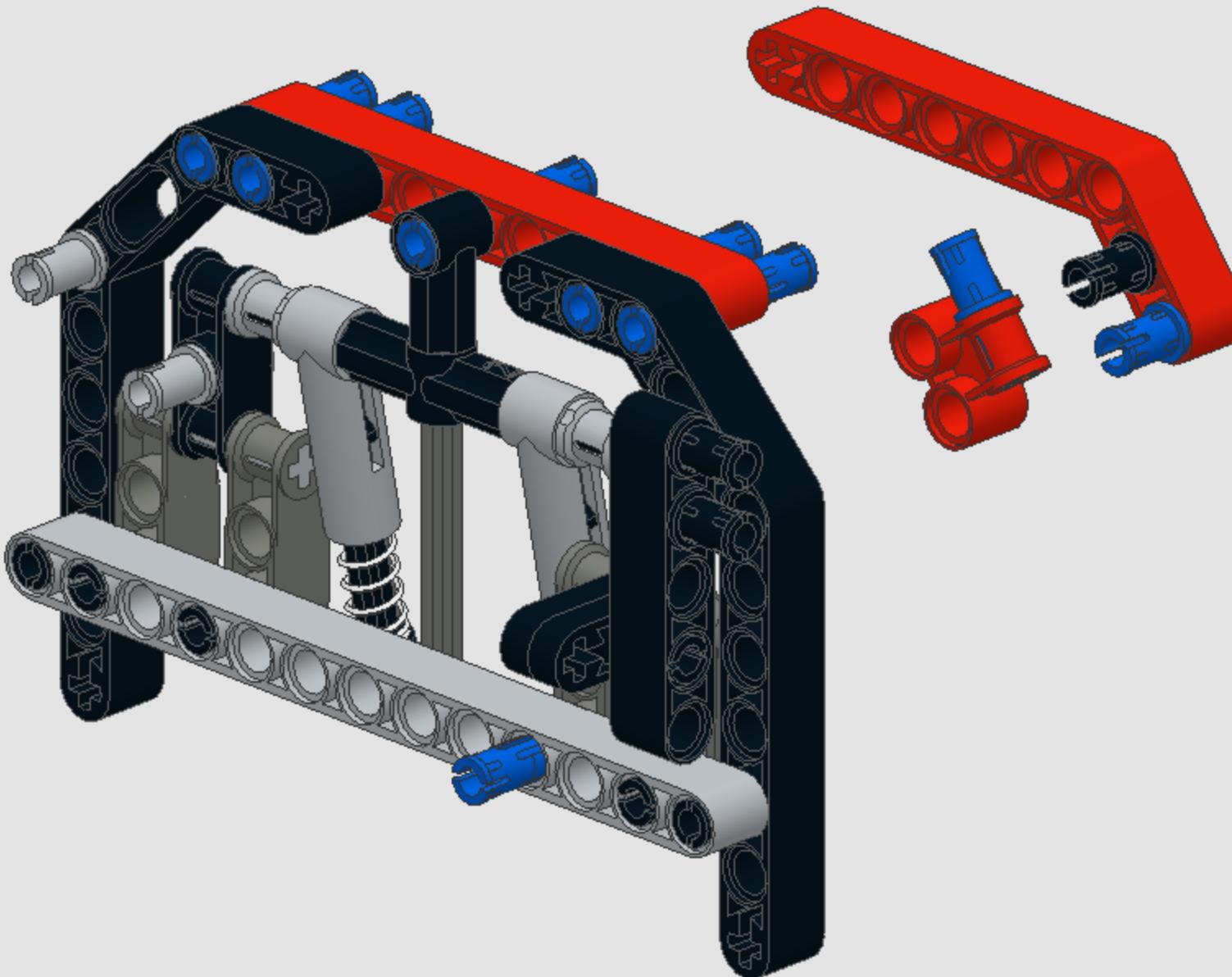
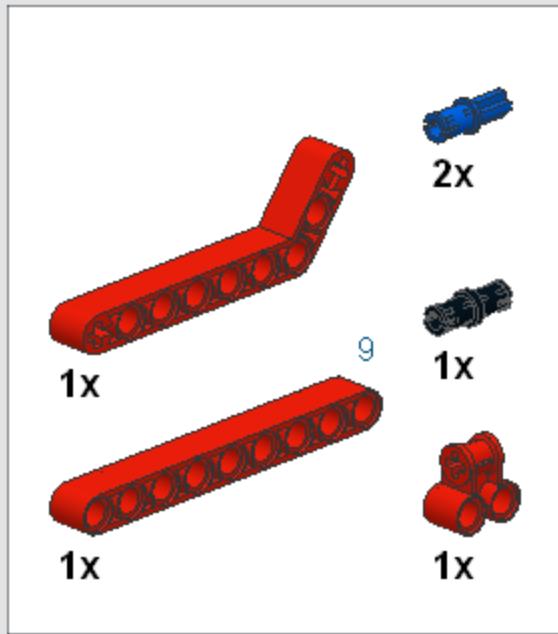


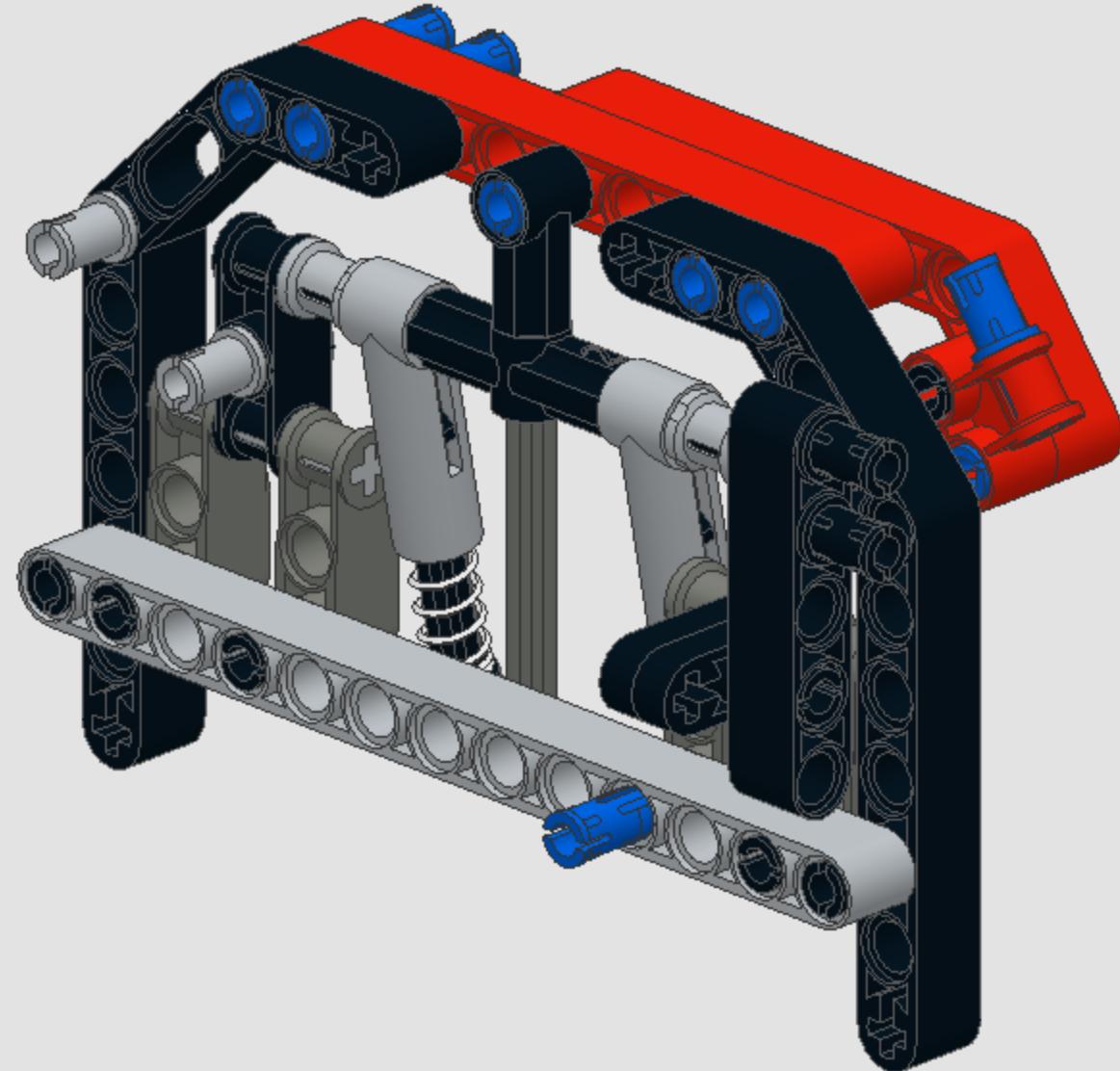




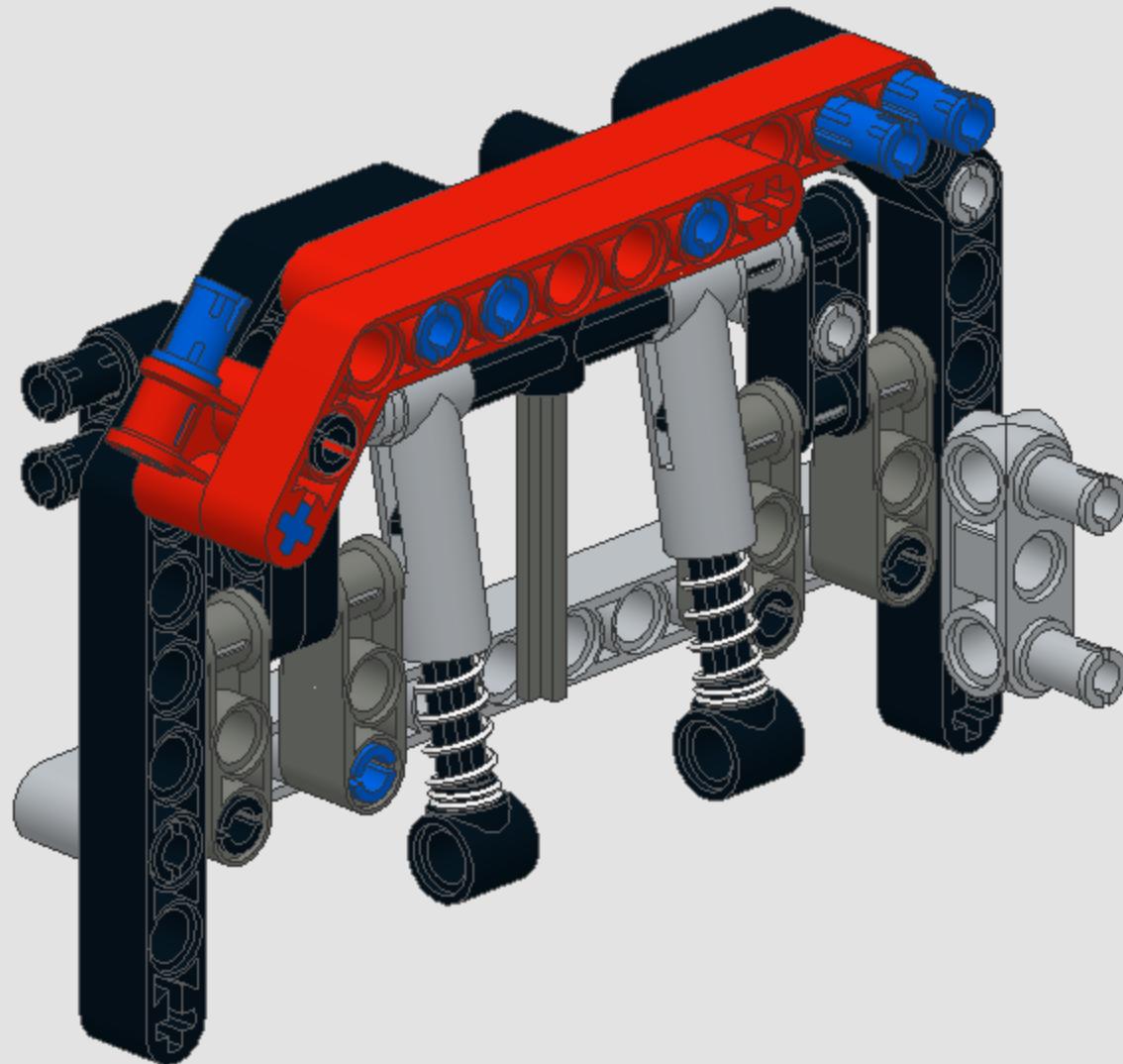
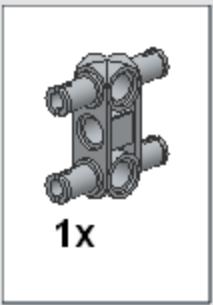


169



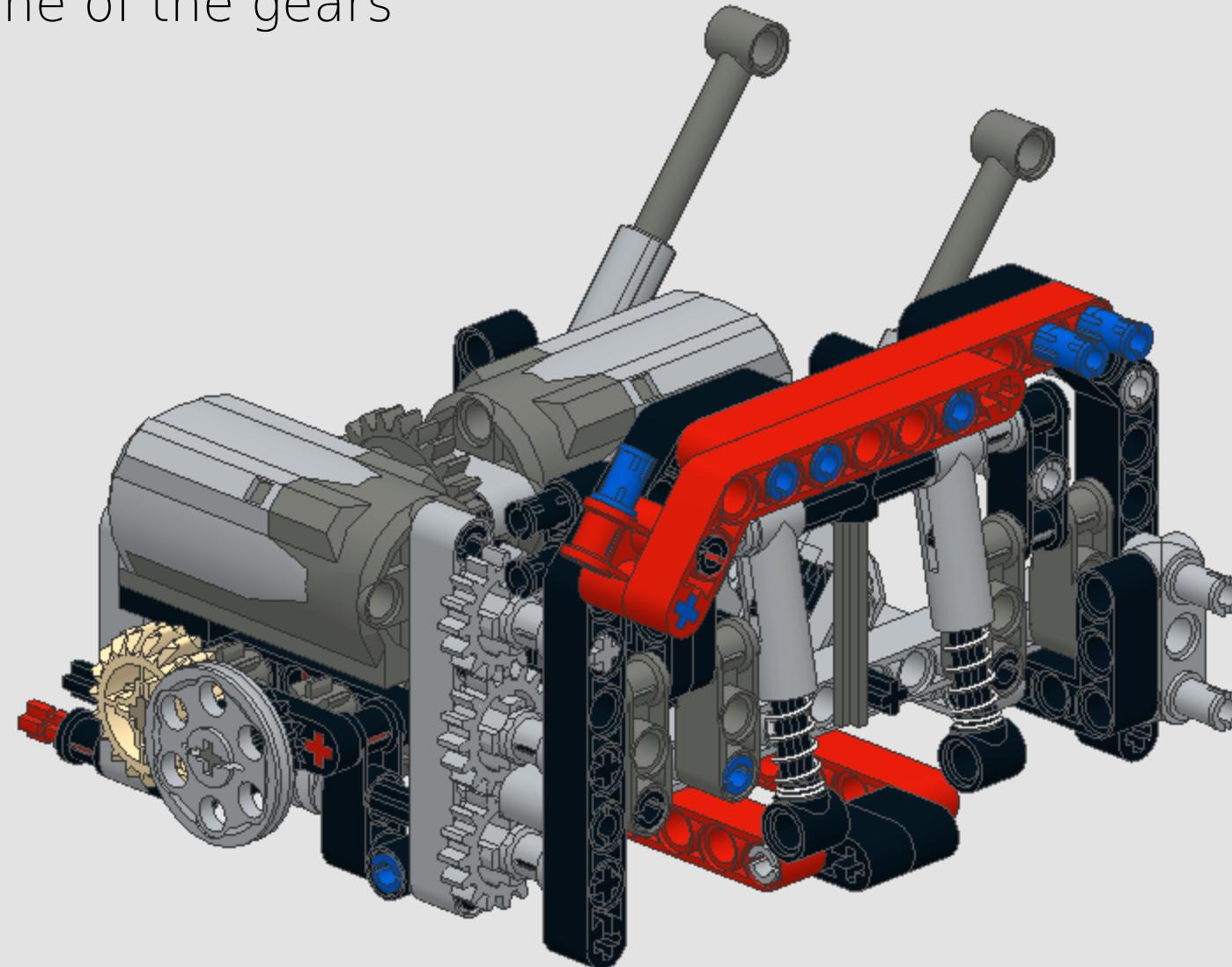


171



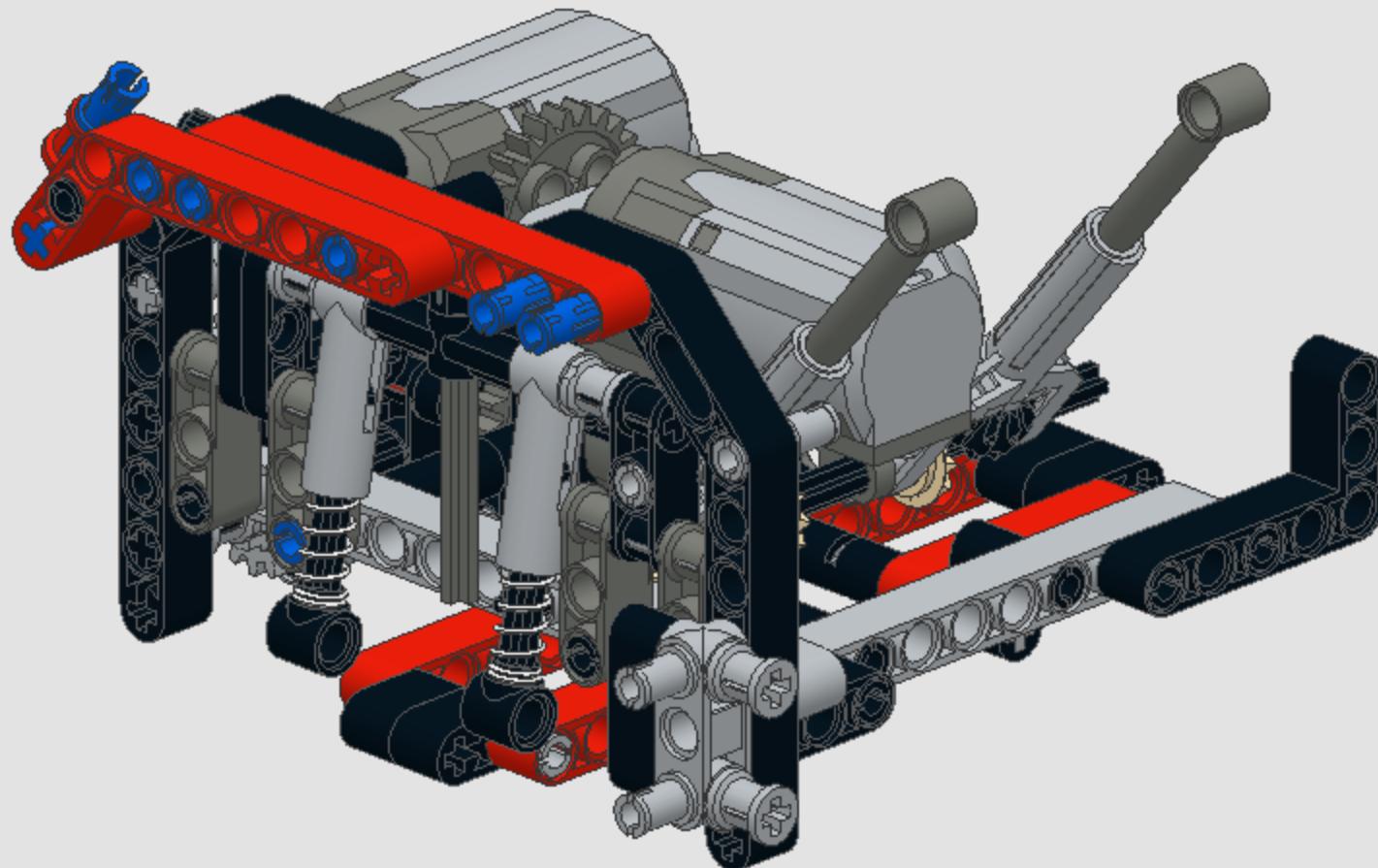
172

This is a difficult step. Take your time
and make sure none of the gears
fall out.

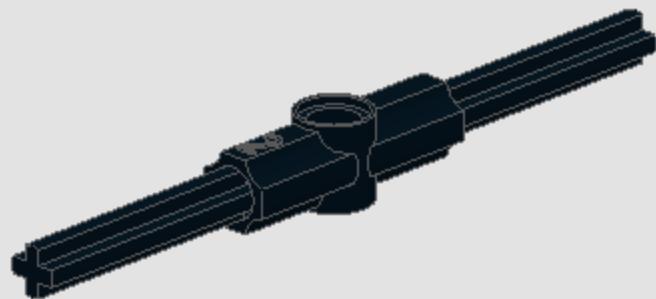
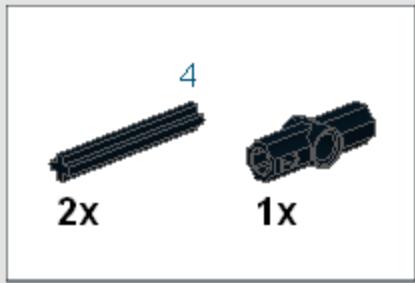
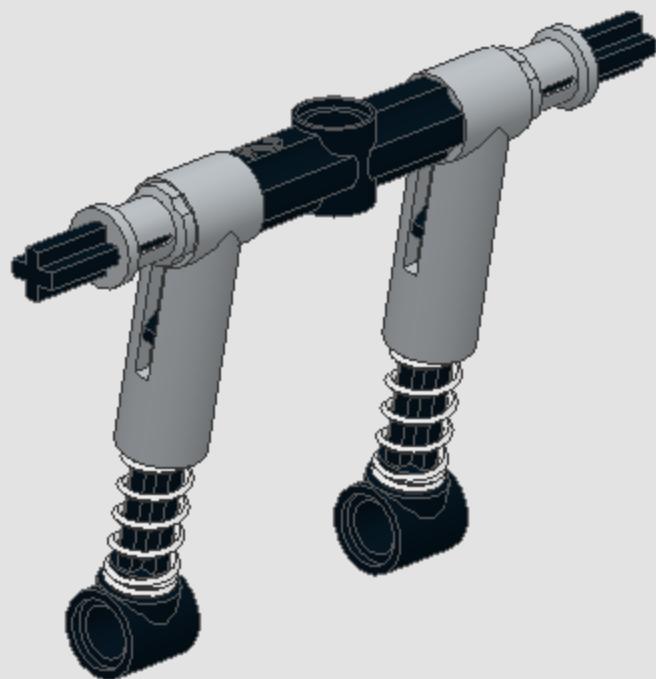
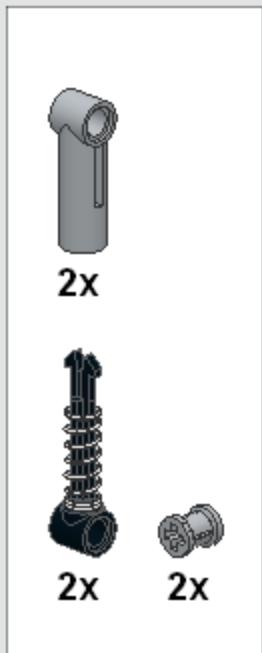
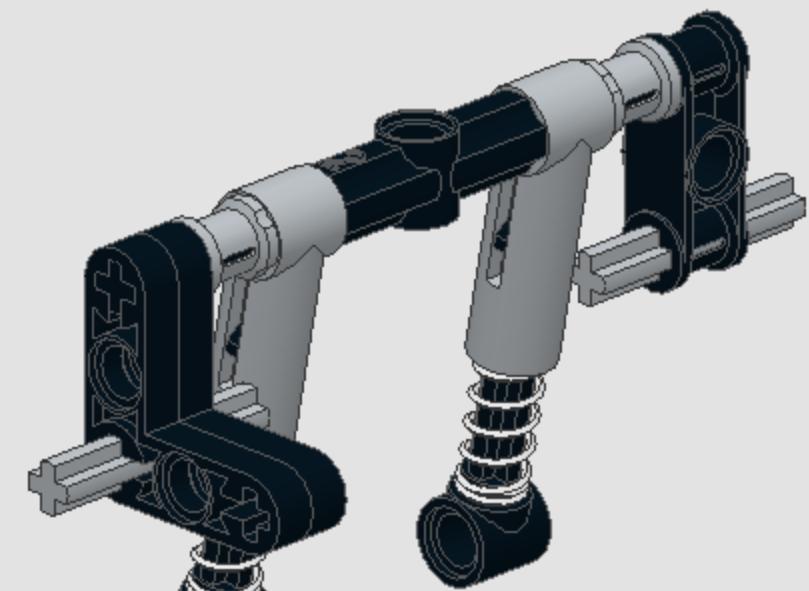
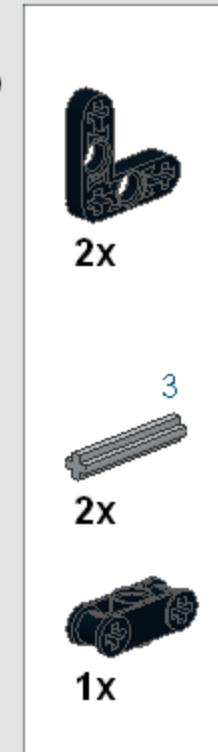


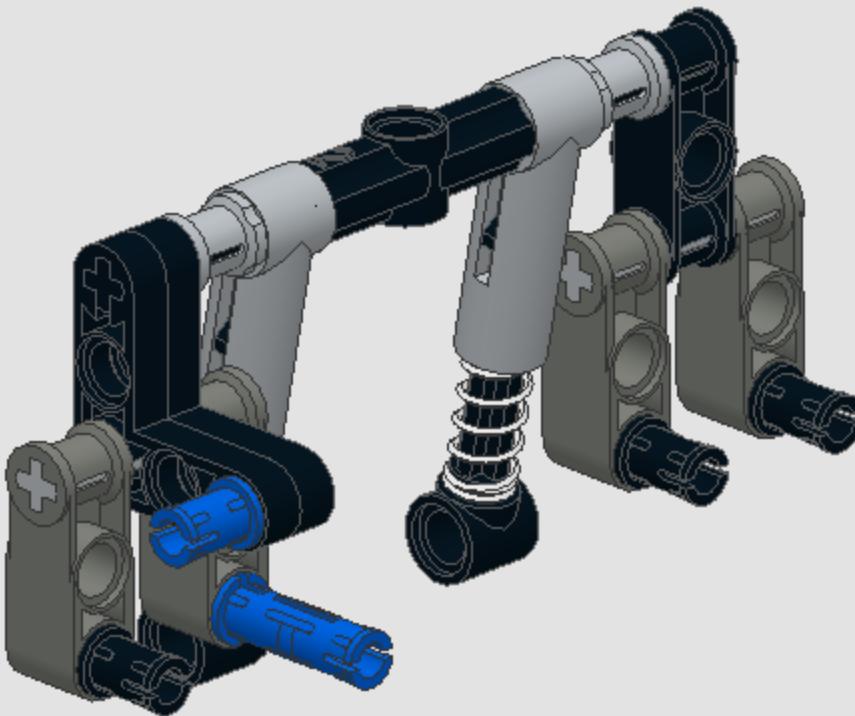
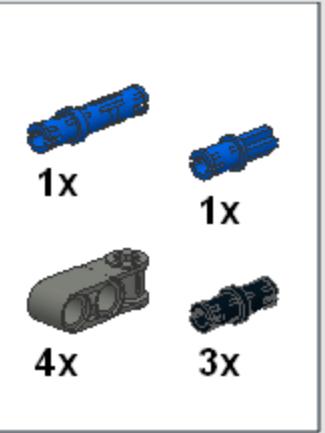


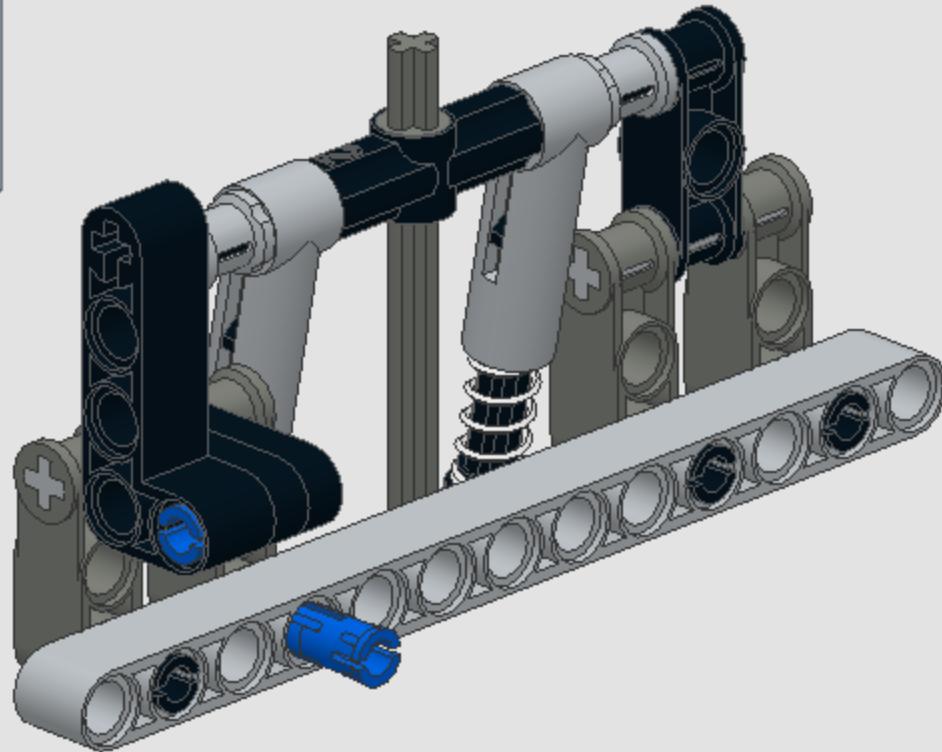
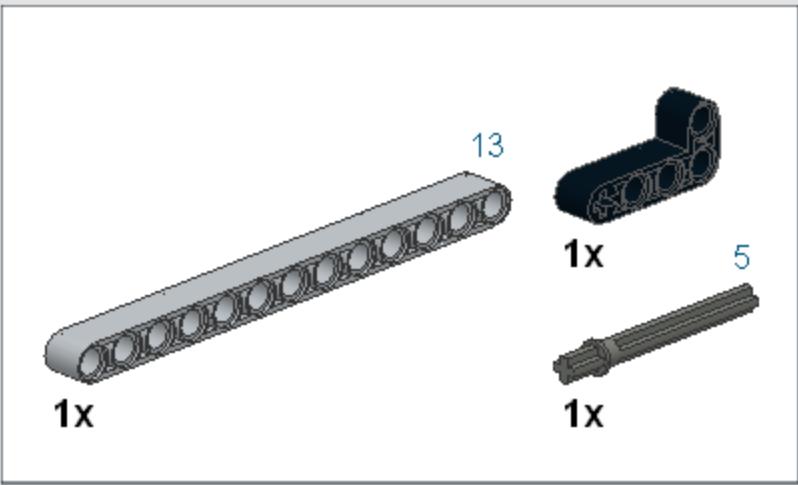
2x

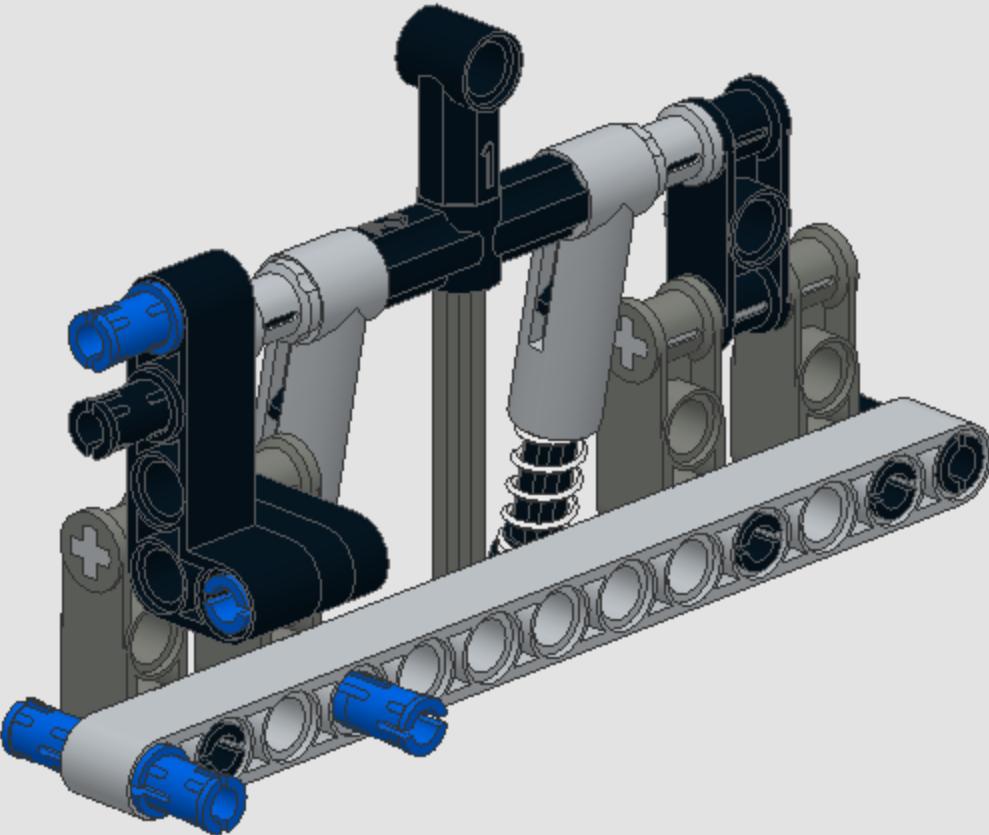


174

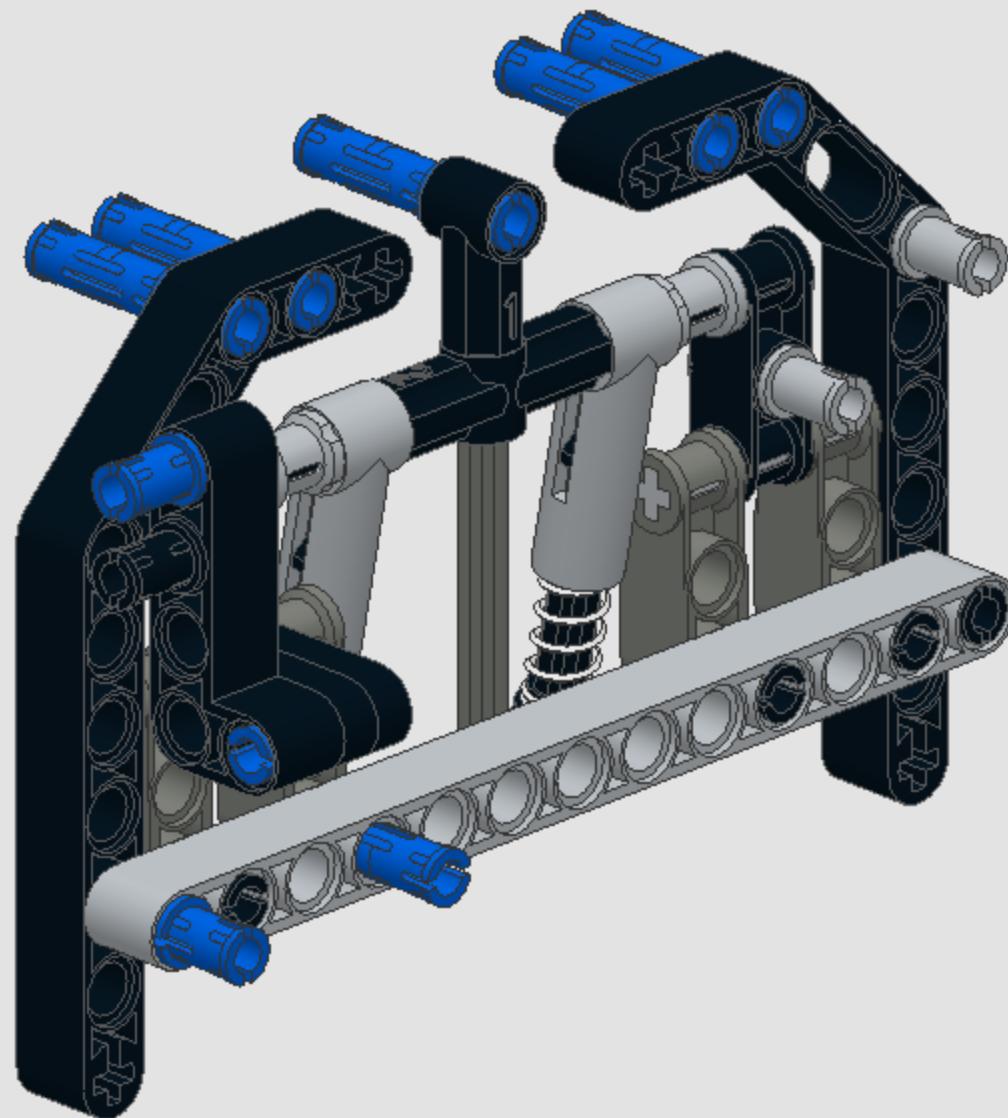
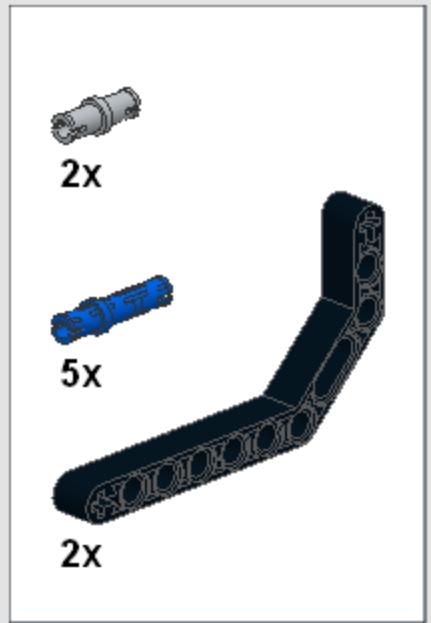
1**2****3**

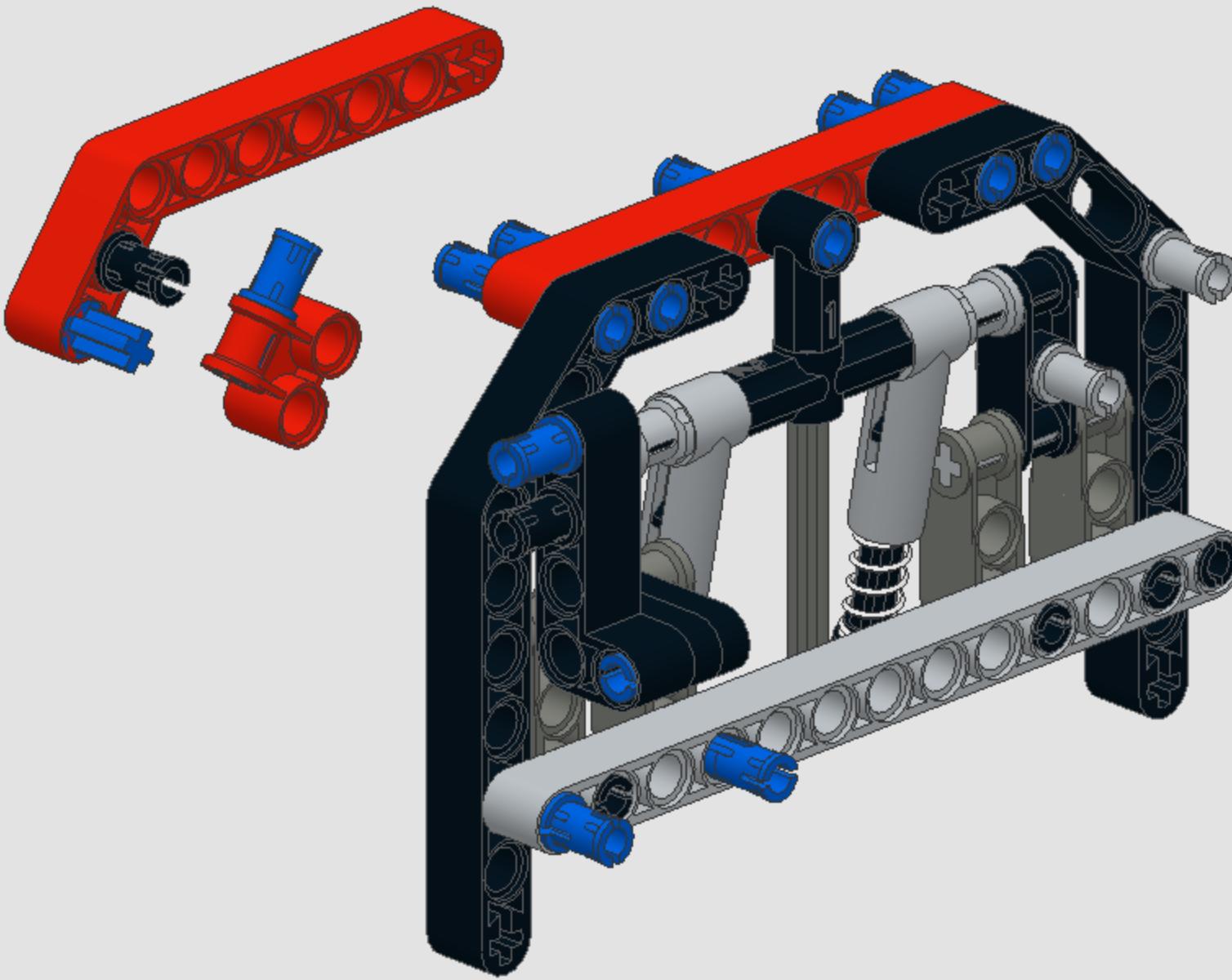
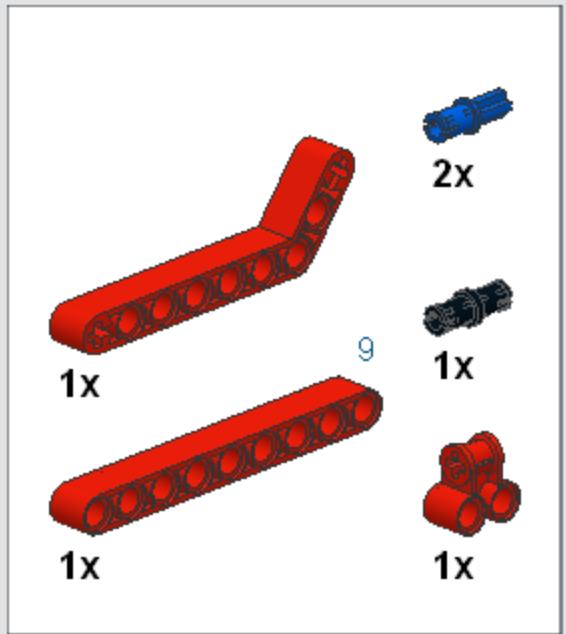




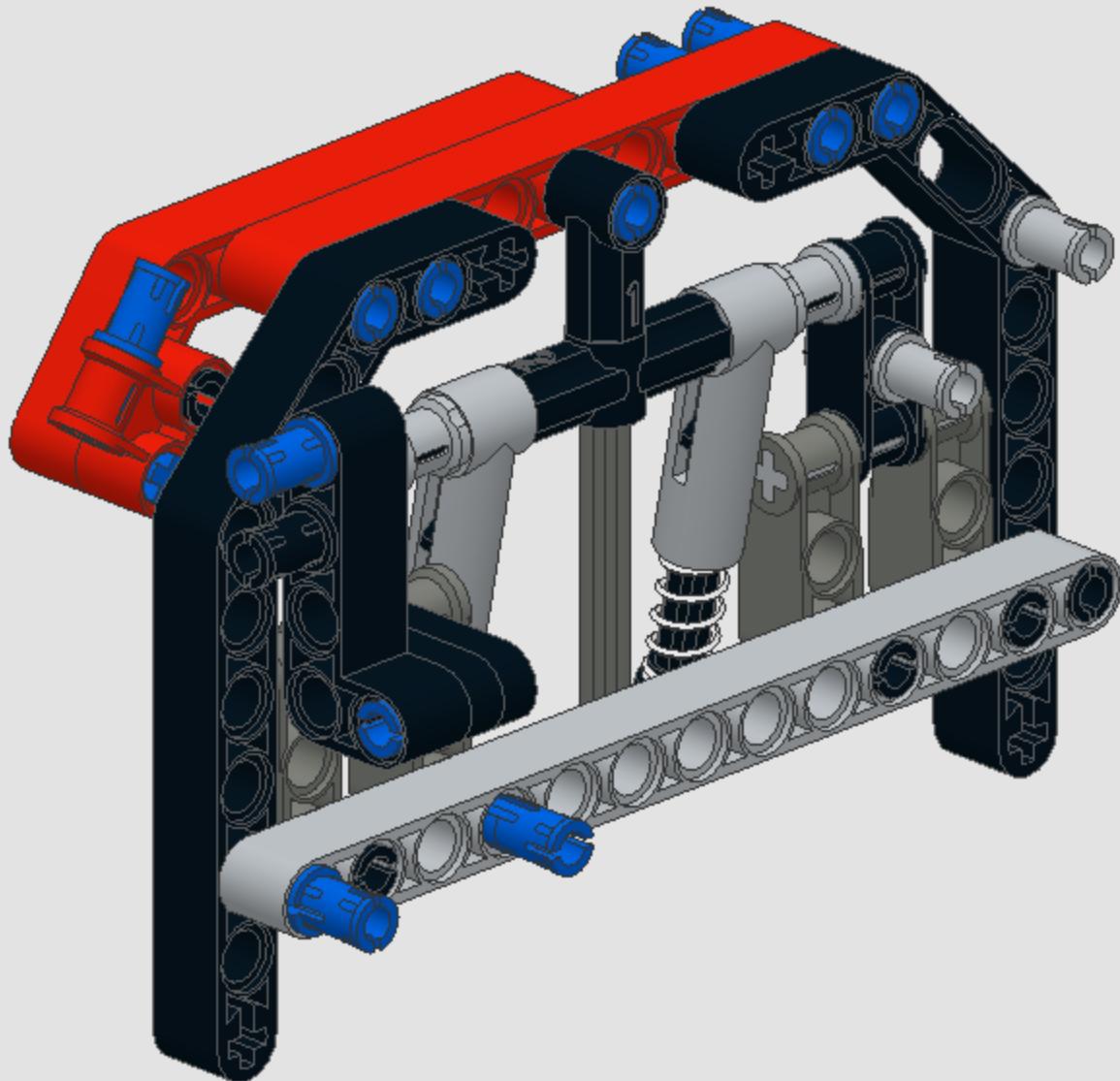


178





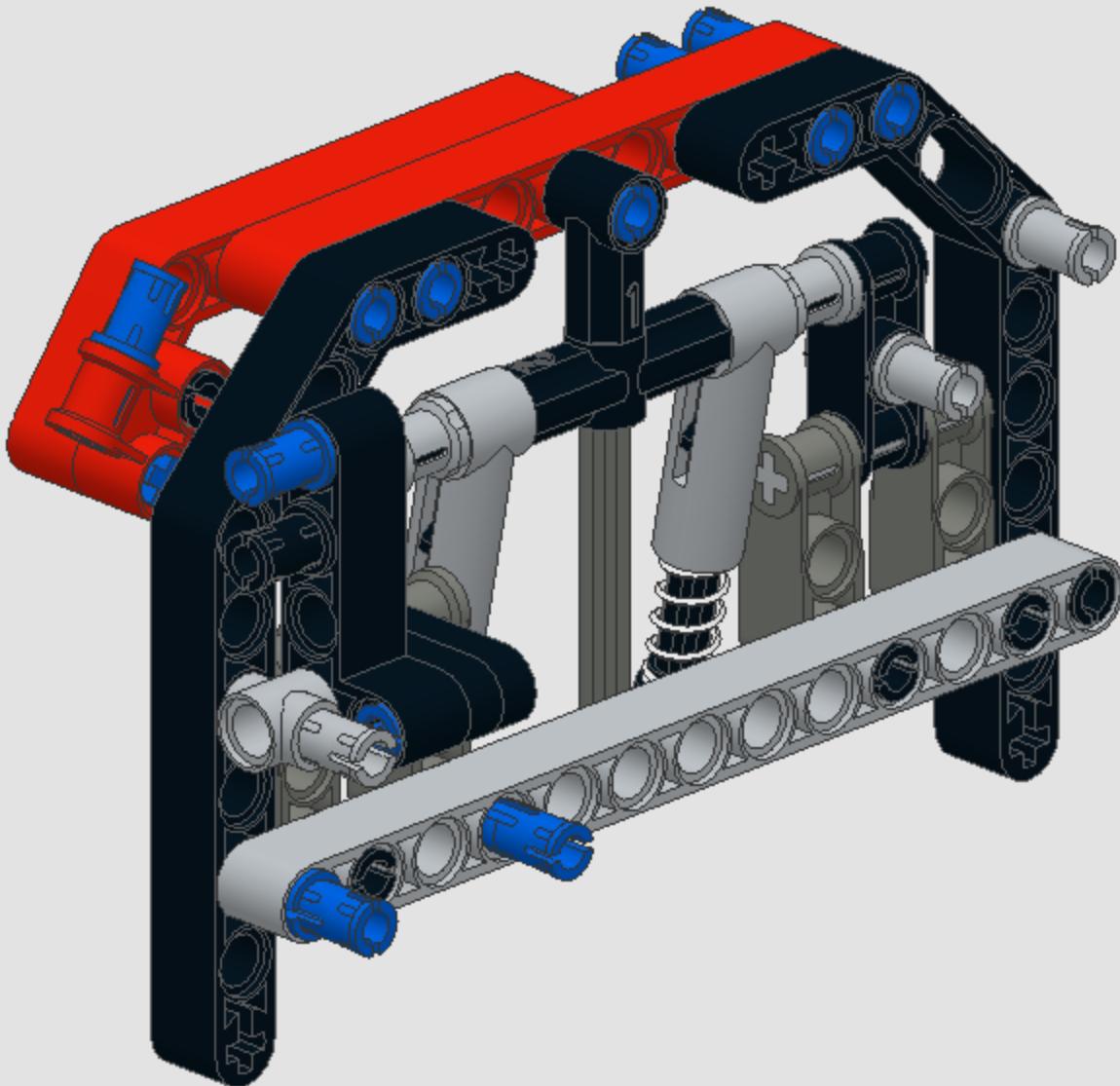
180



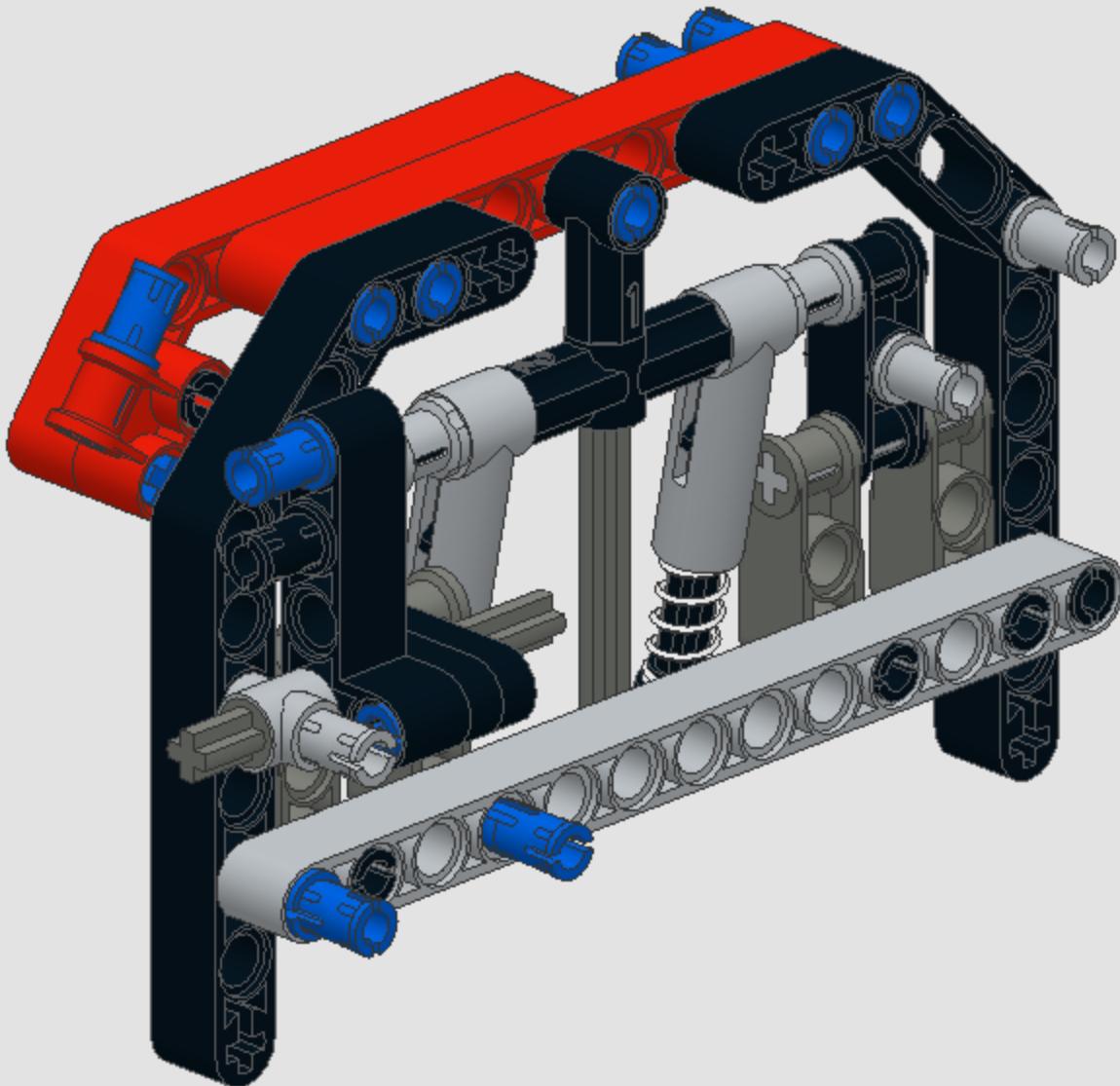
181



1x



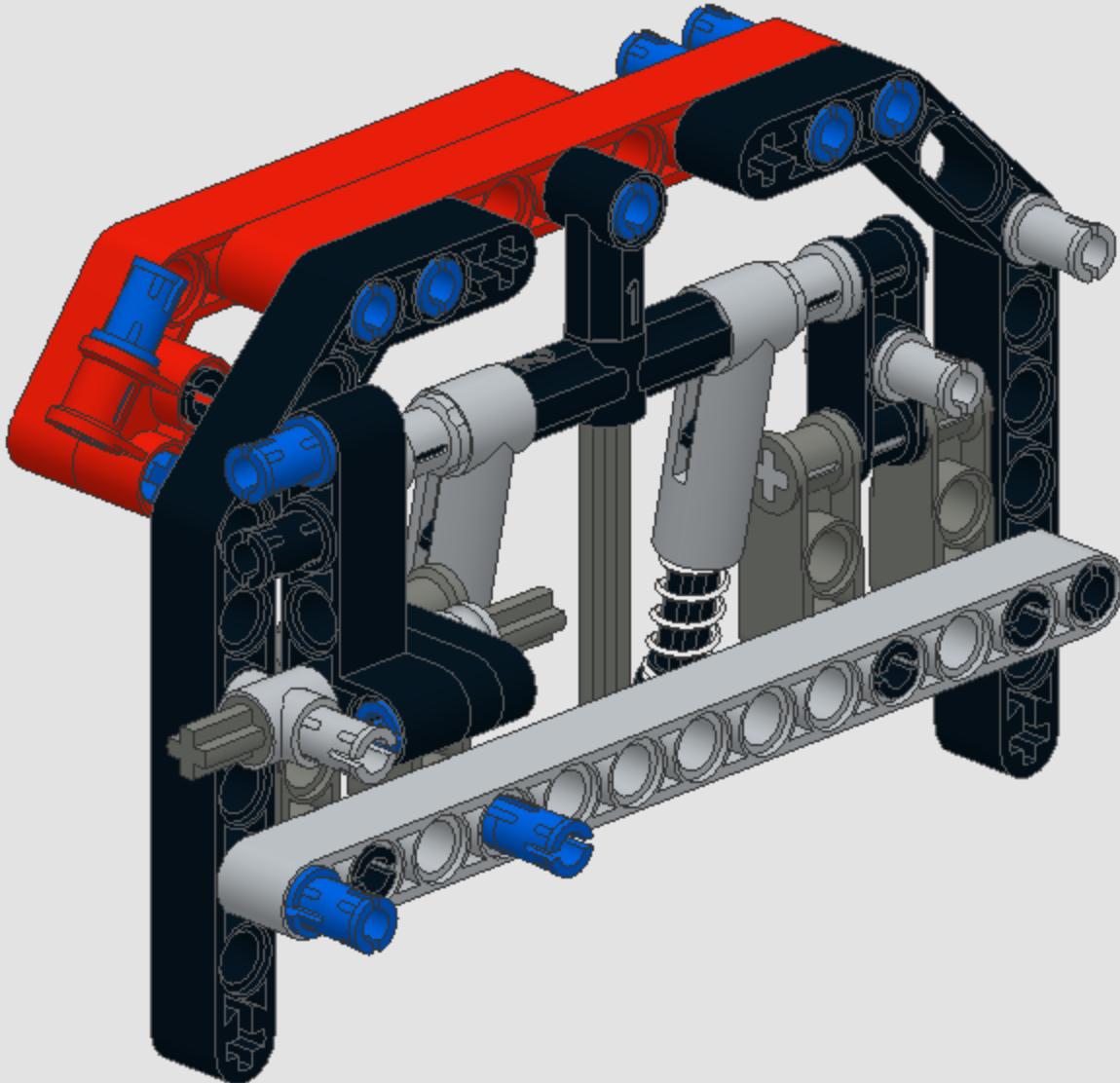
182



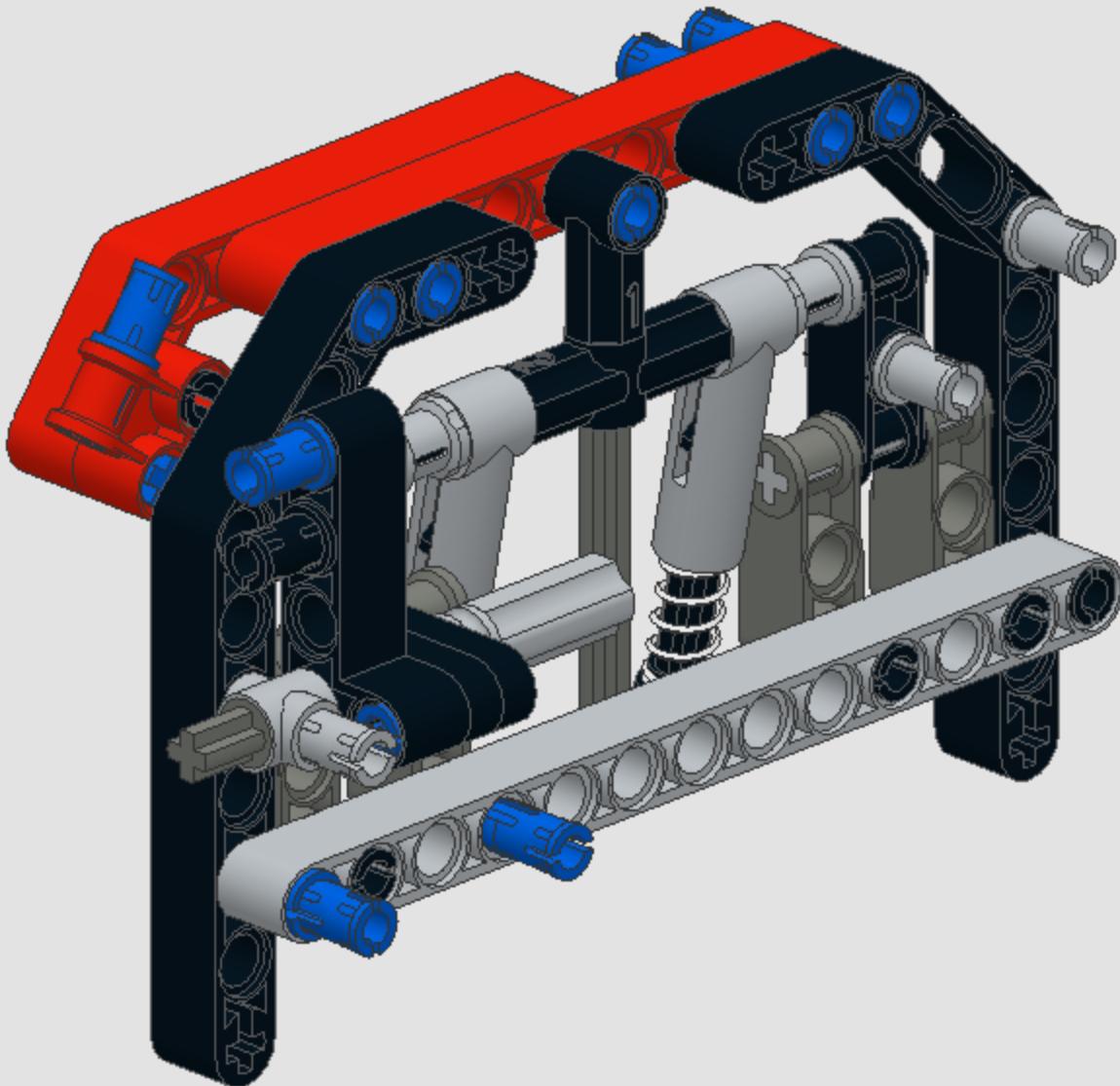
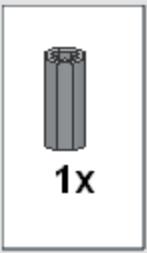
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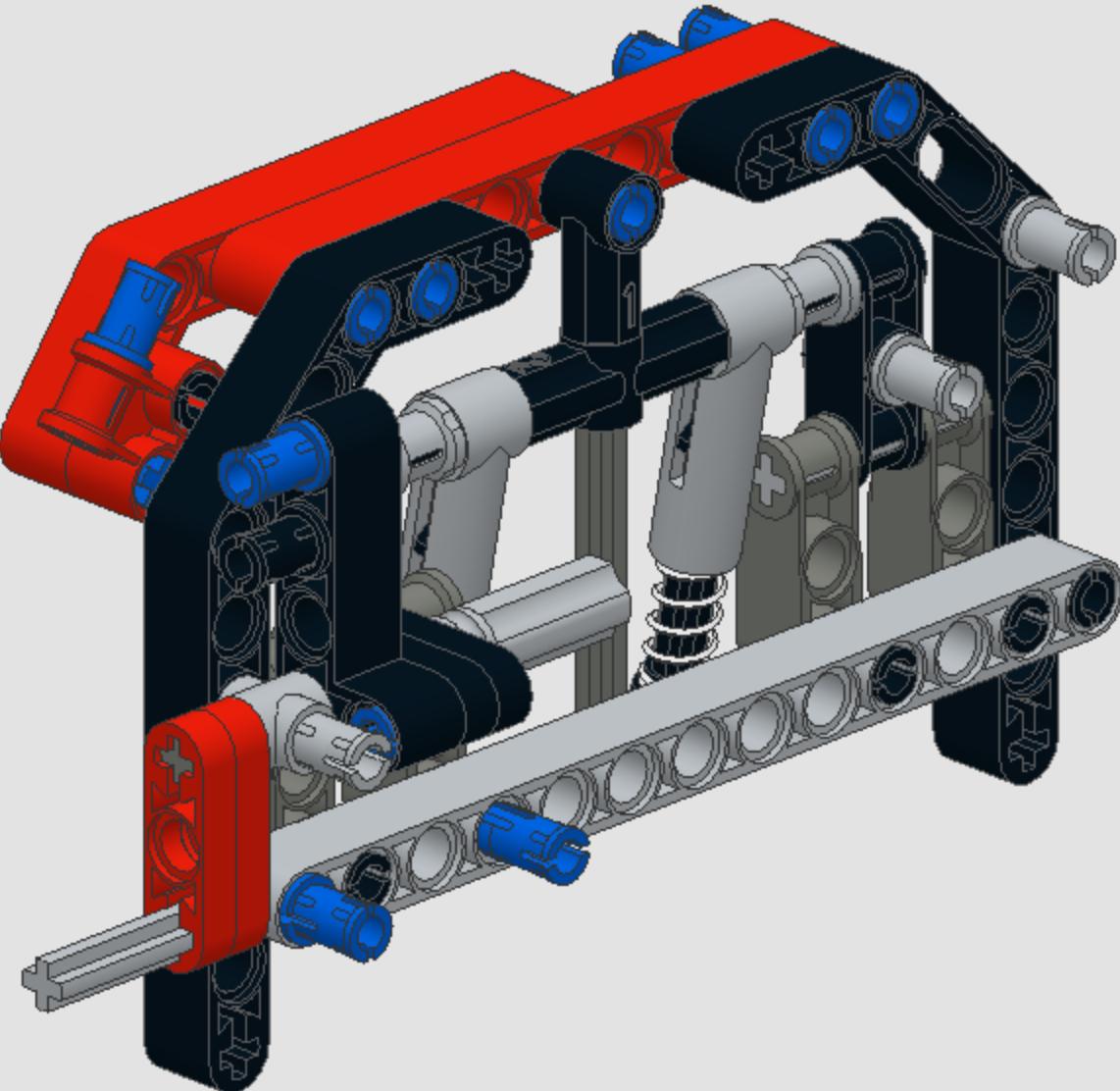
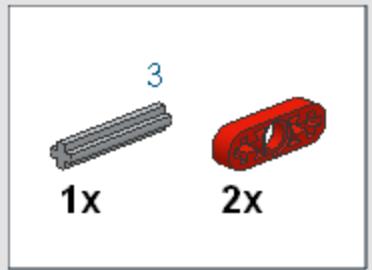
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184



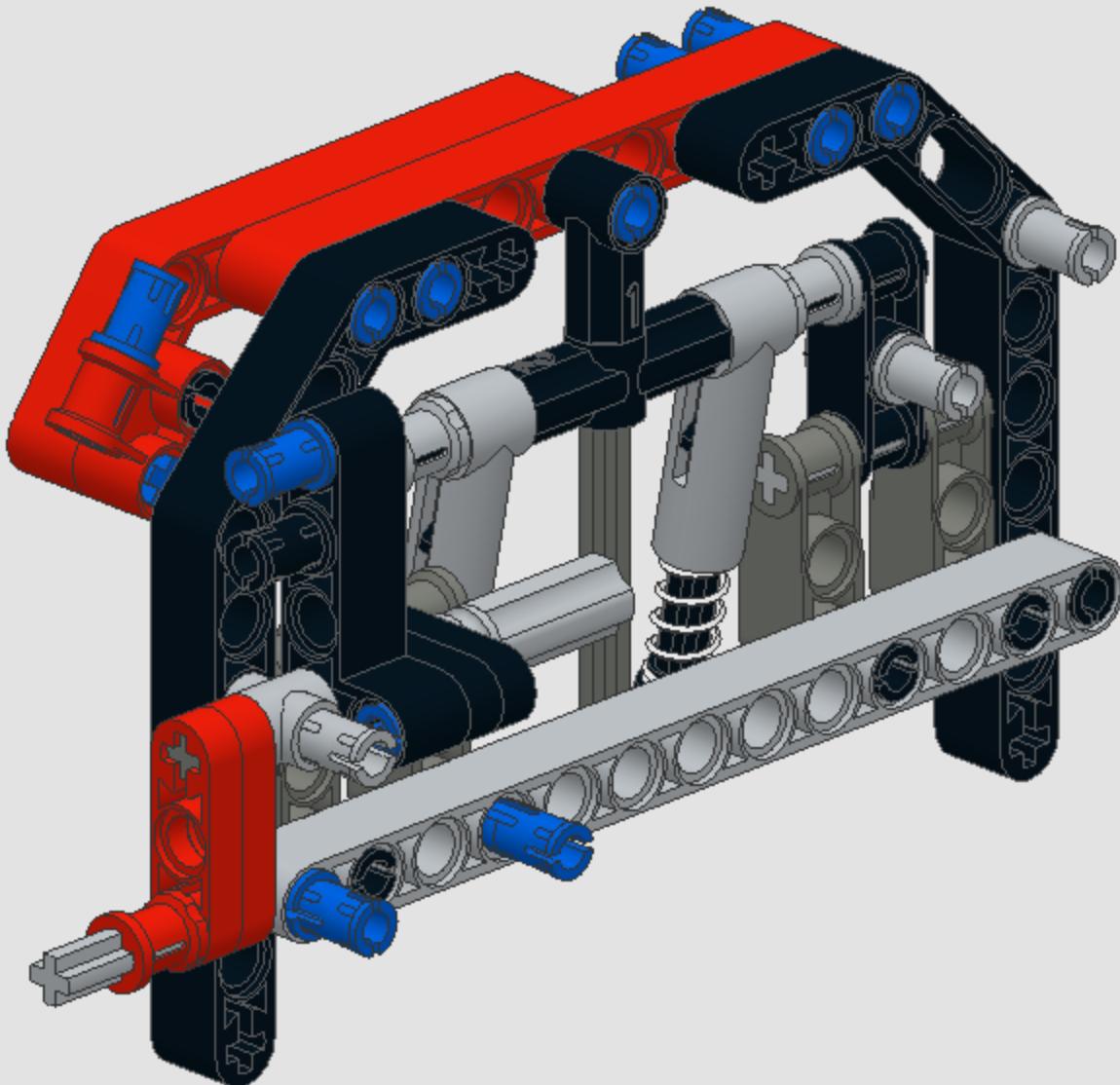
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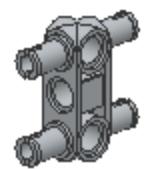


186

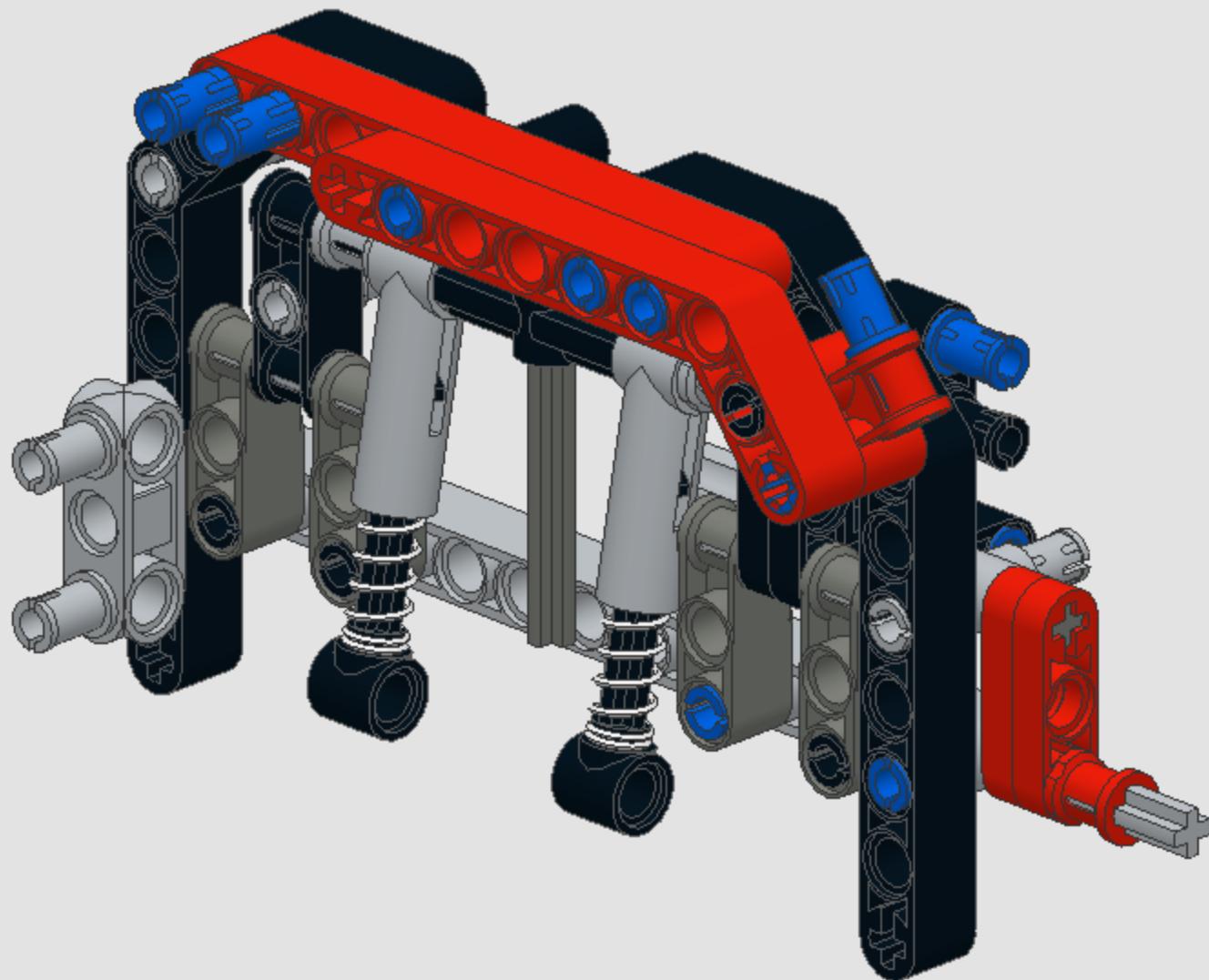


1x



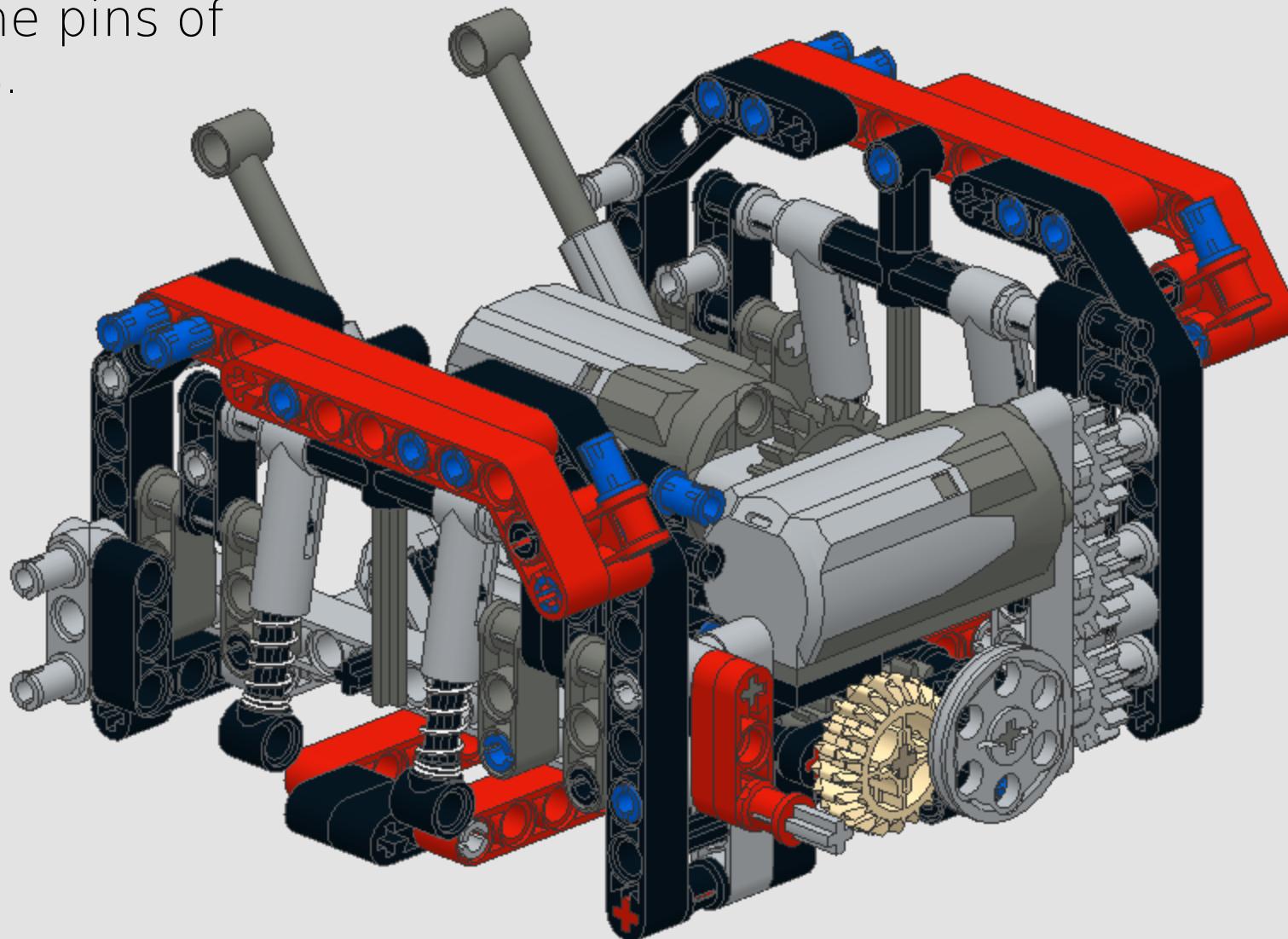


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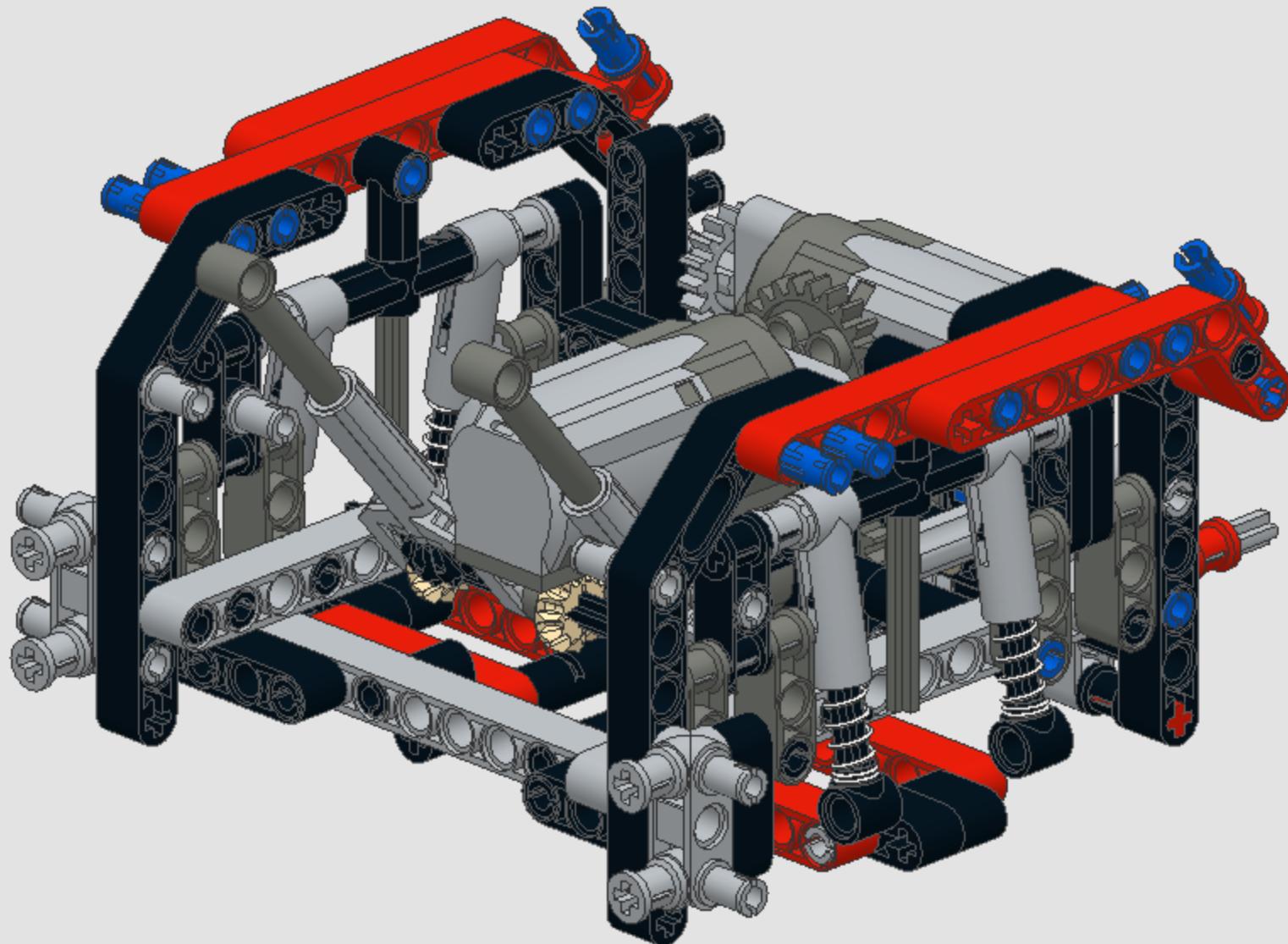
188

Another hard step. Take care to connect all the pins of both submodels.



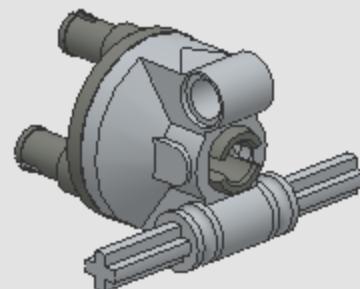
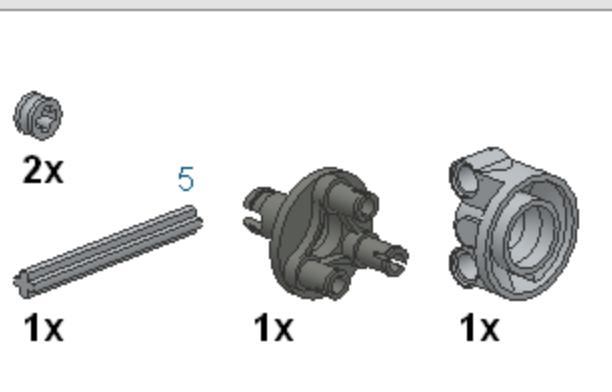


2x

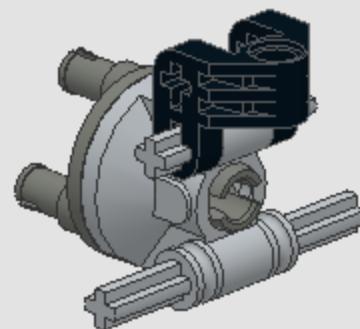
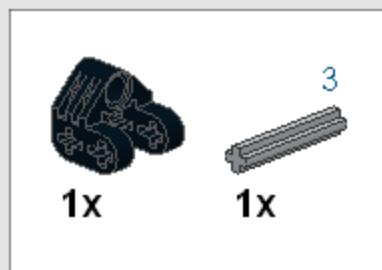


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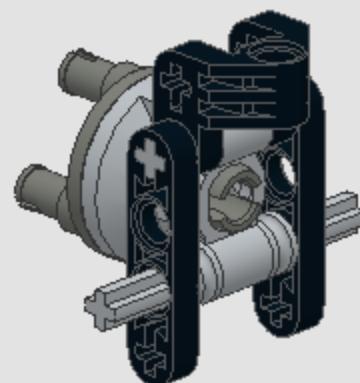
1



2

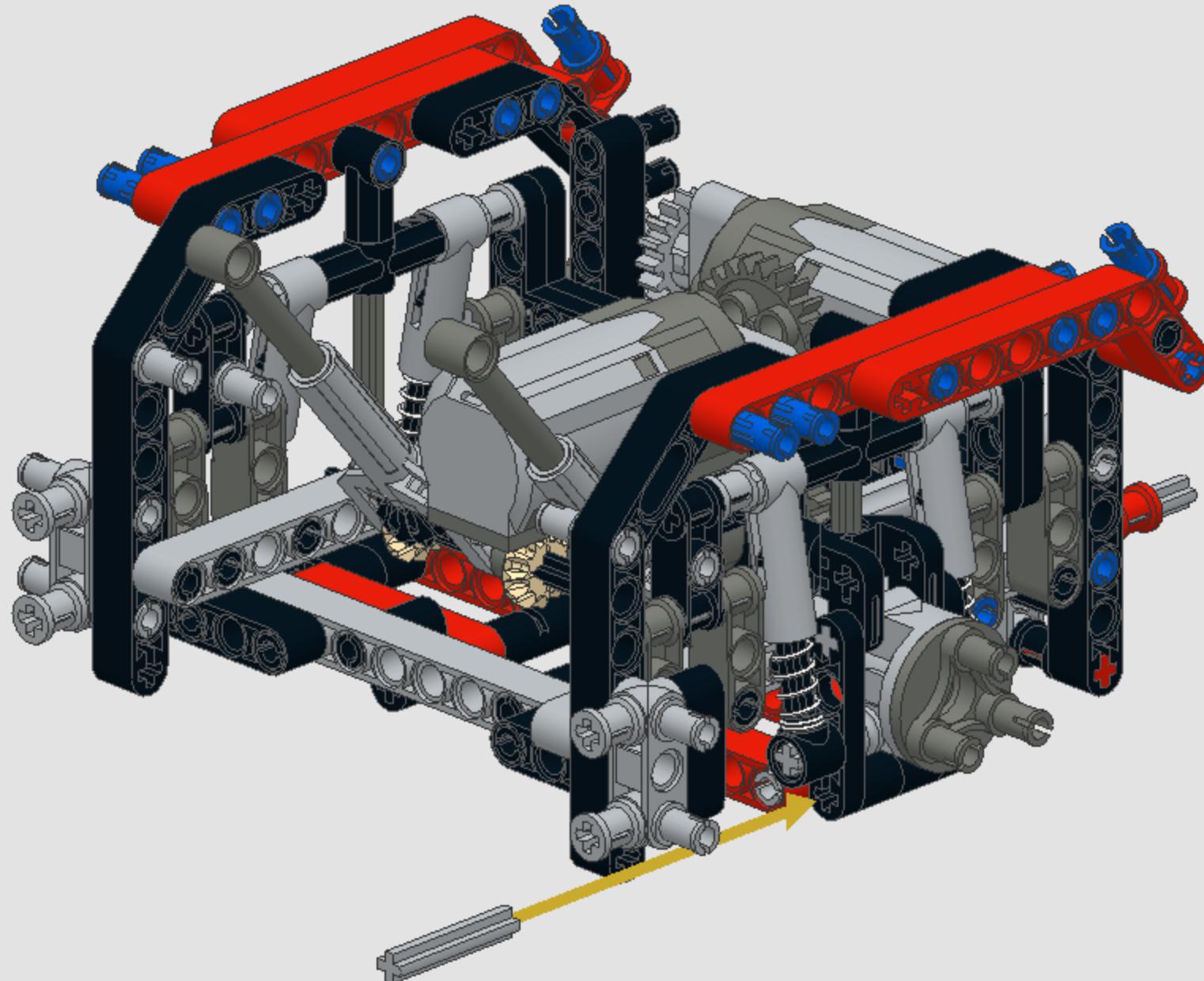
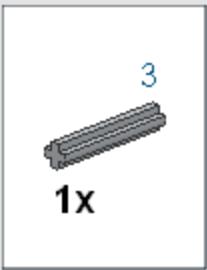


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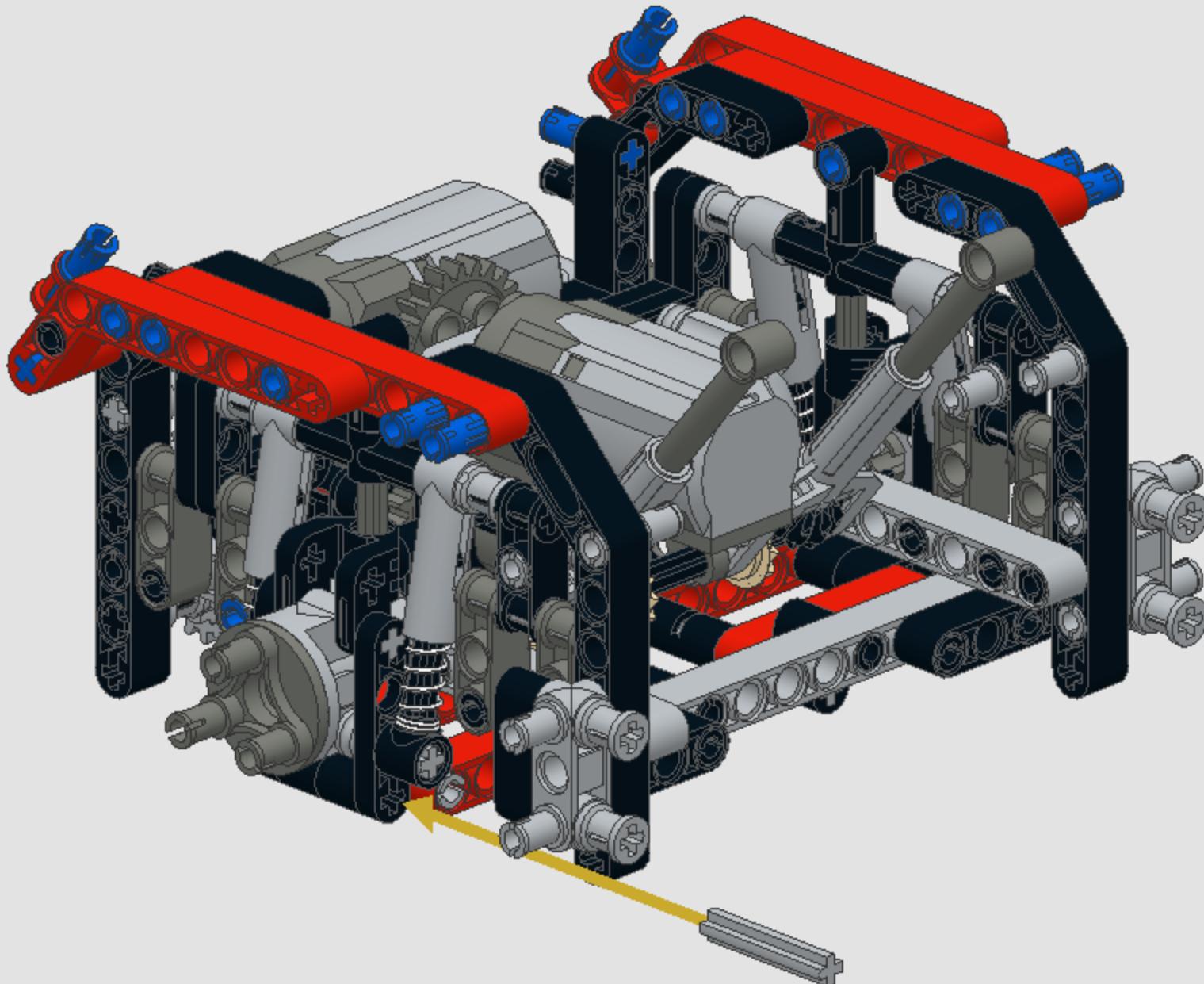
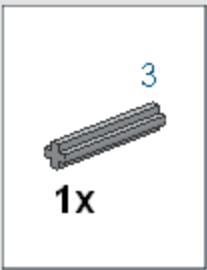


x2

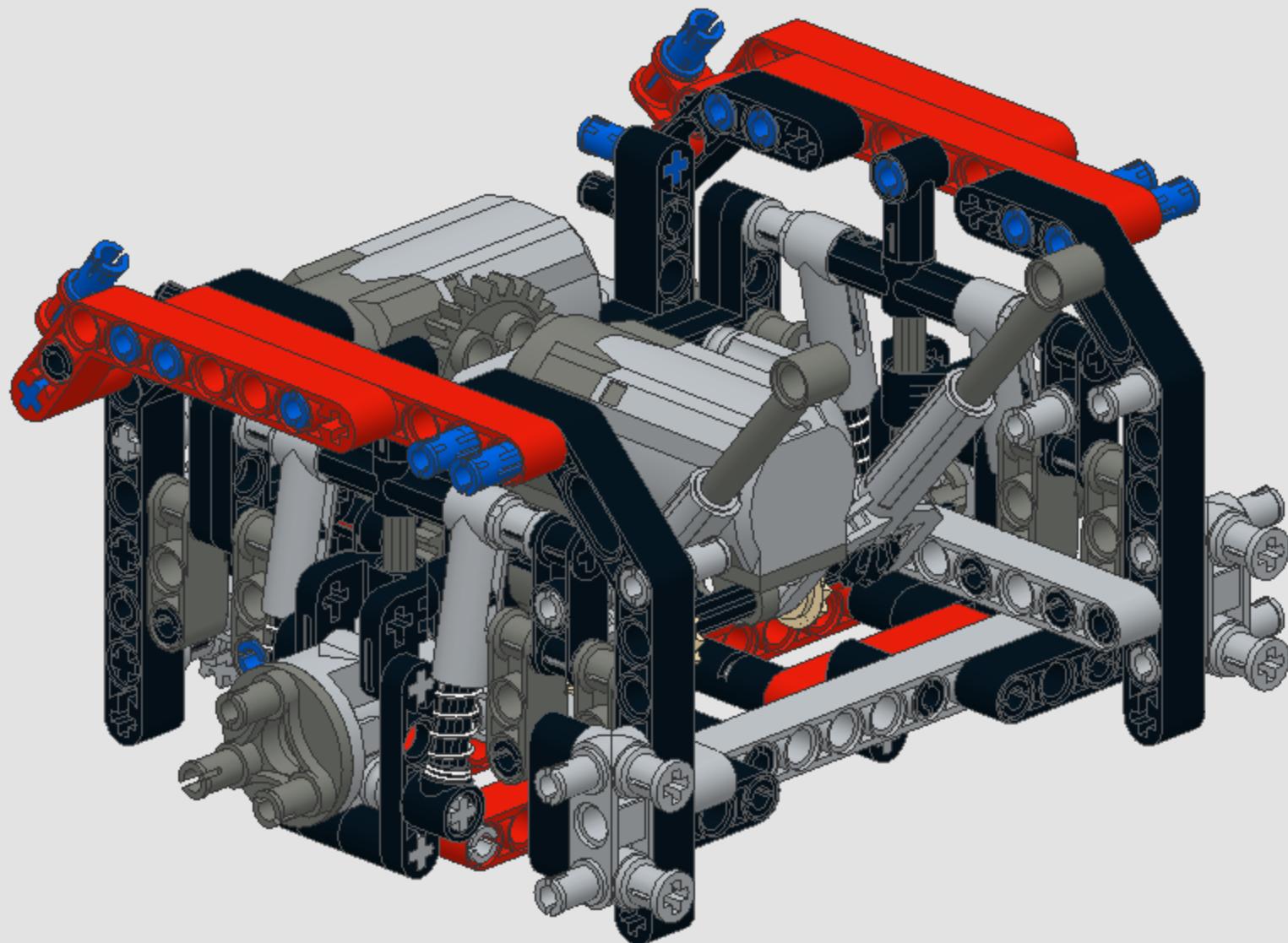
191



192

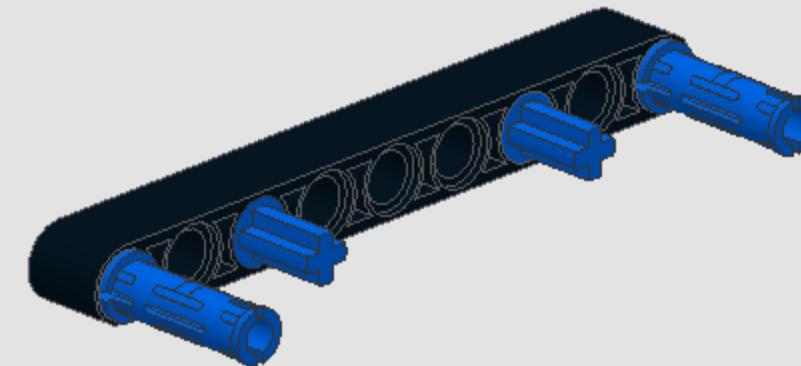
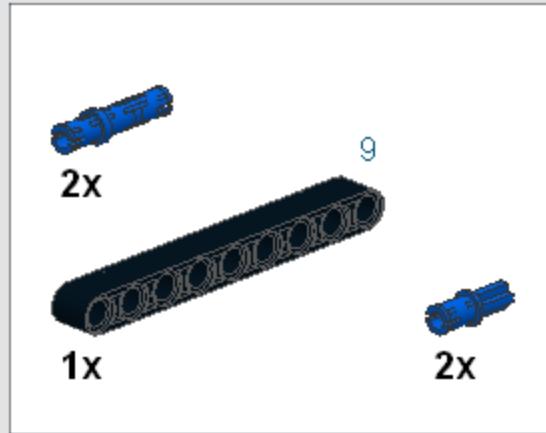


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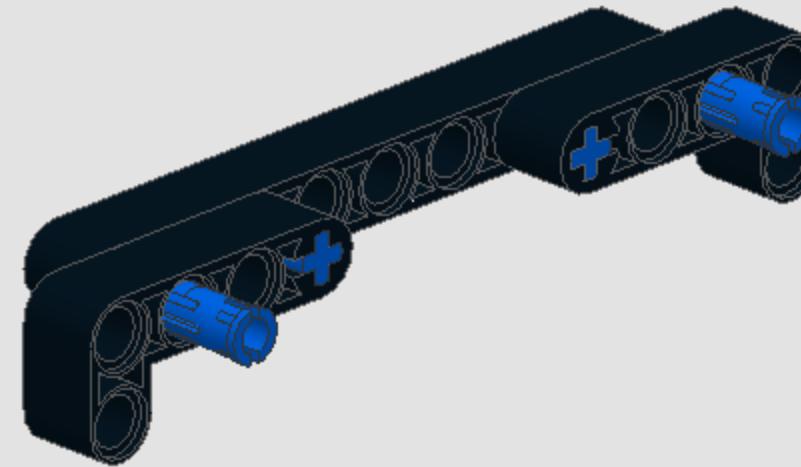


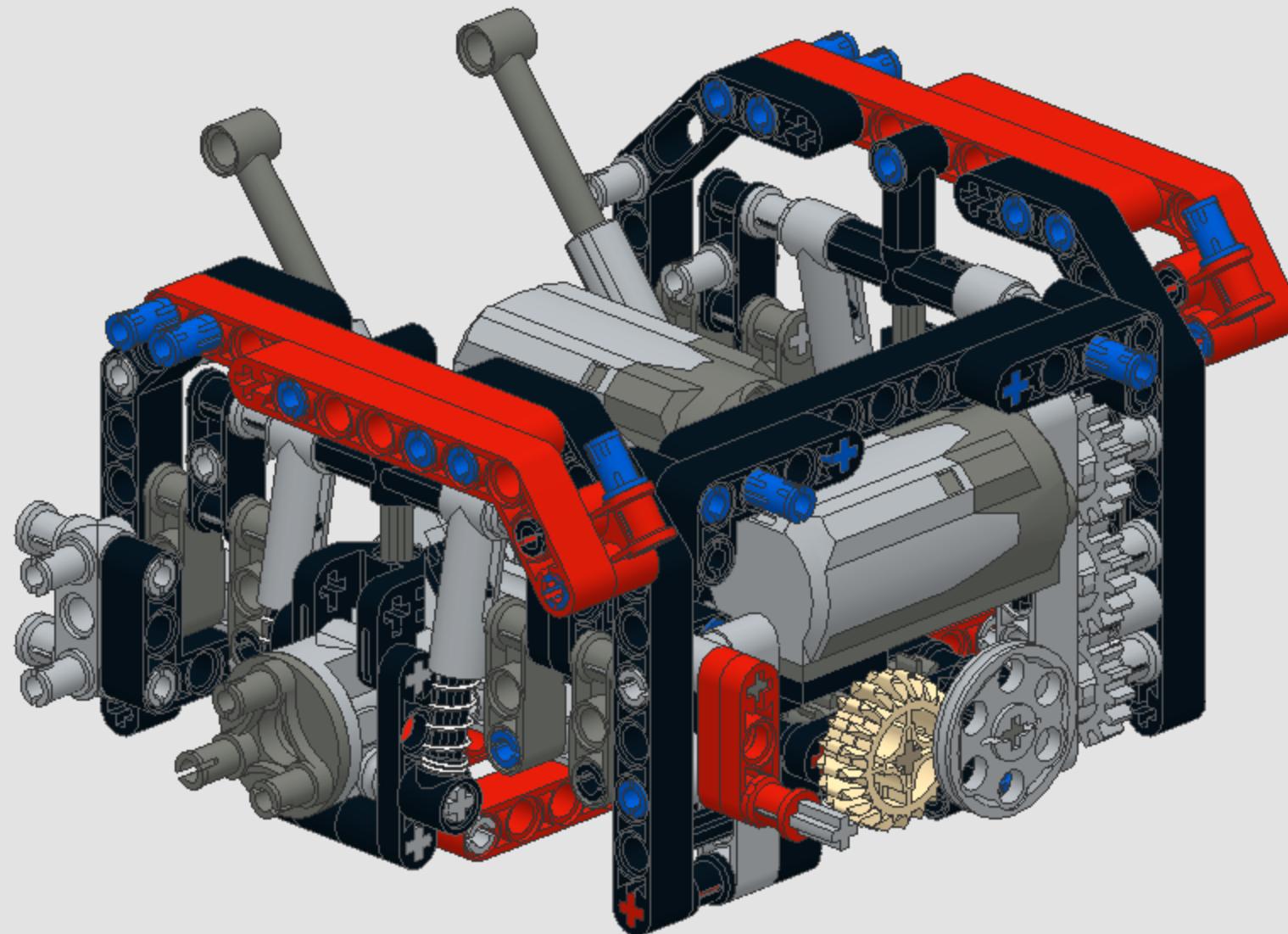
194

1



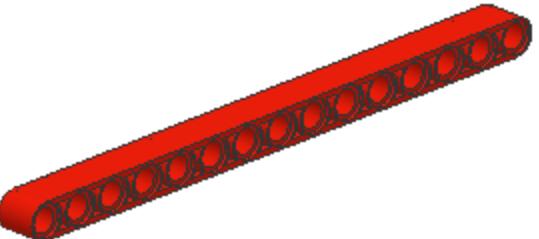
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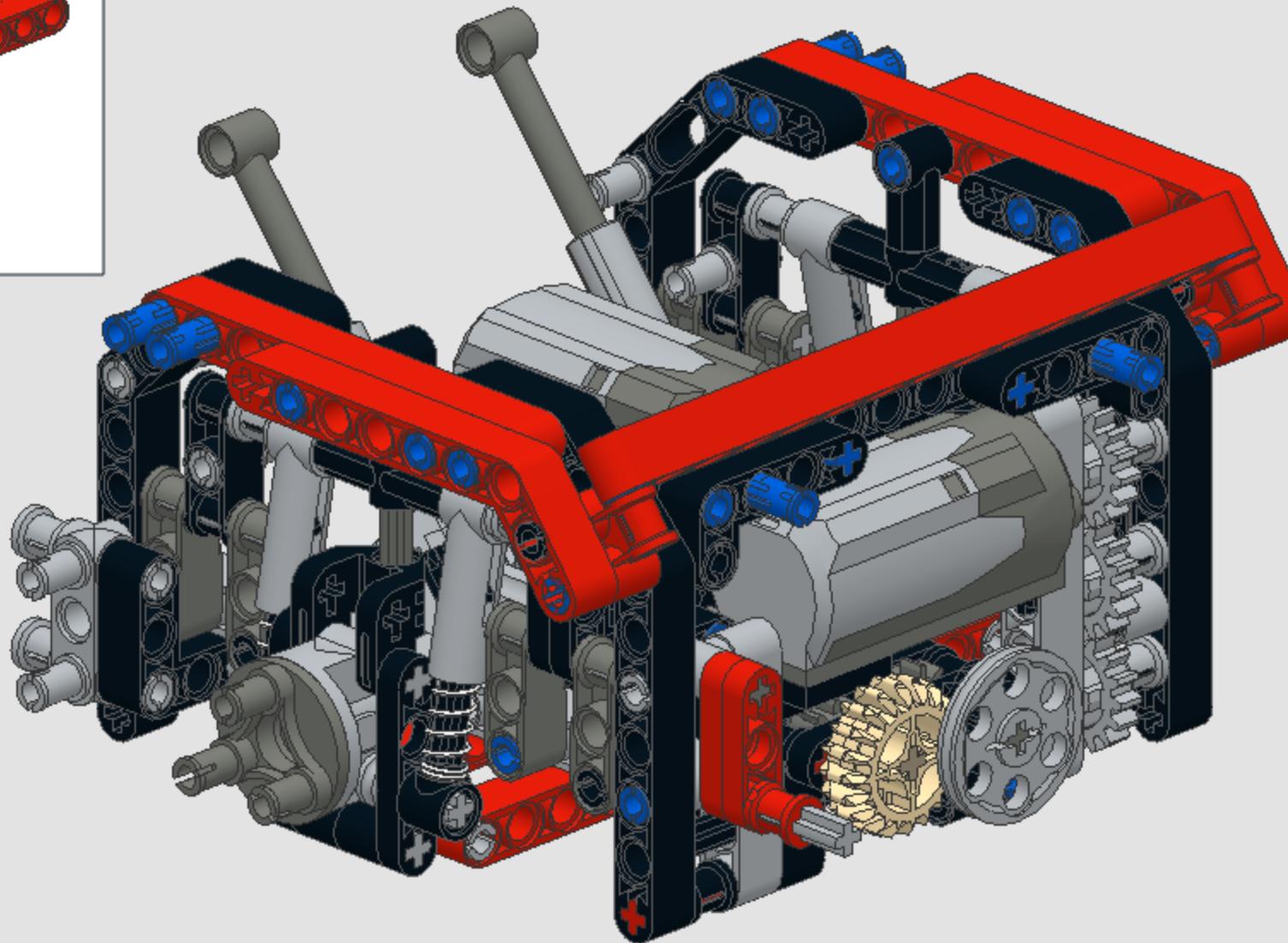


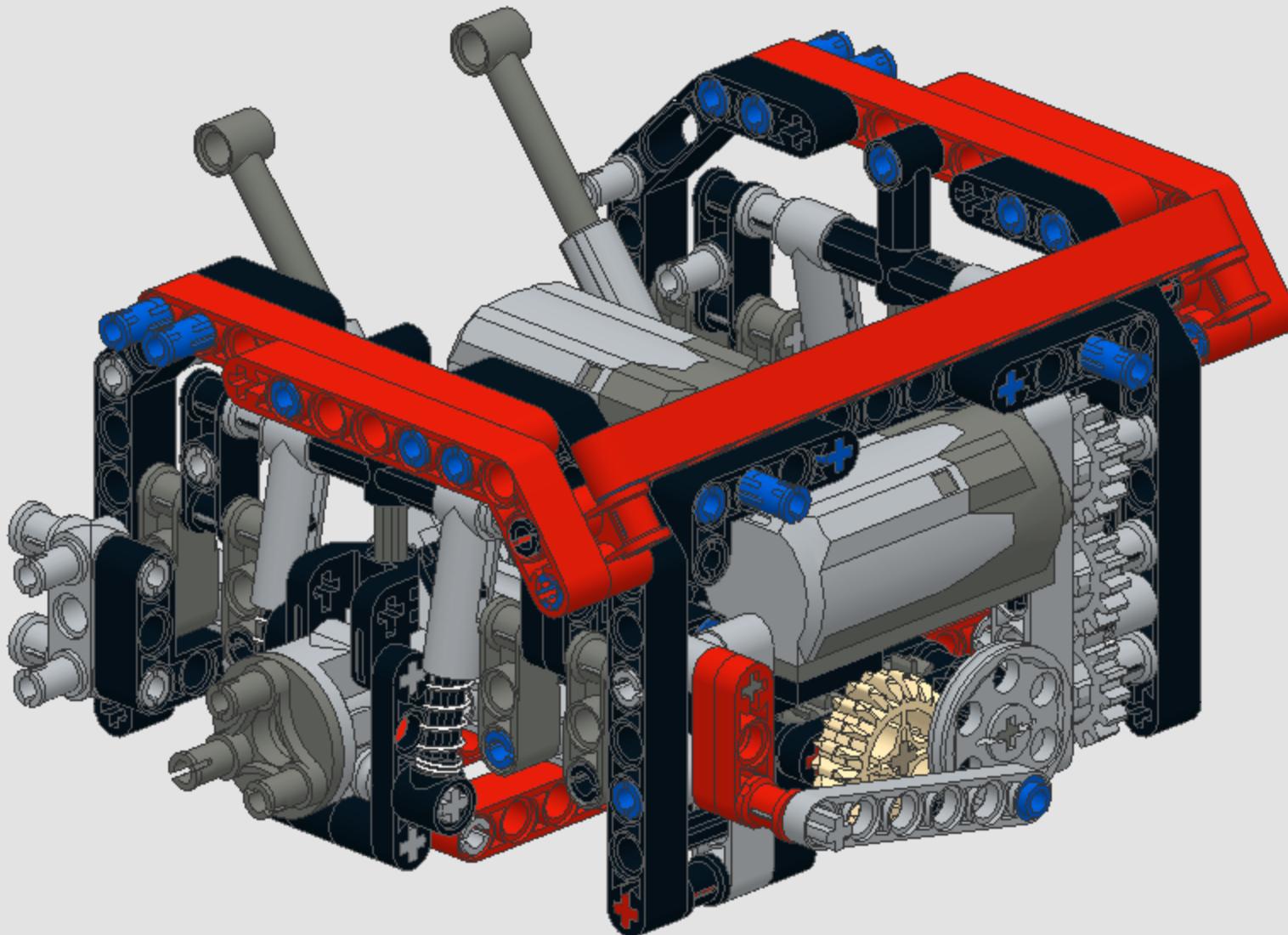
196

15



1x

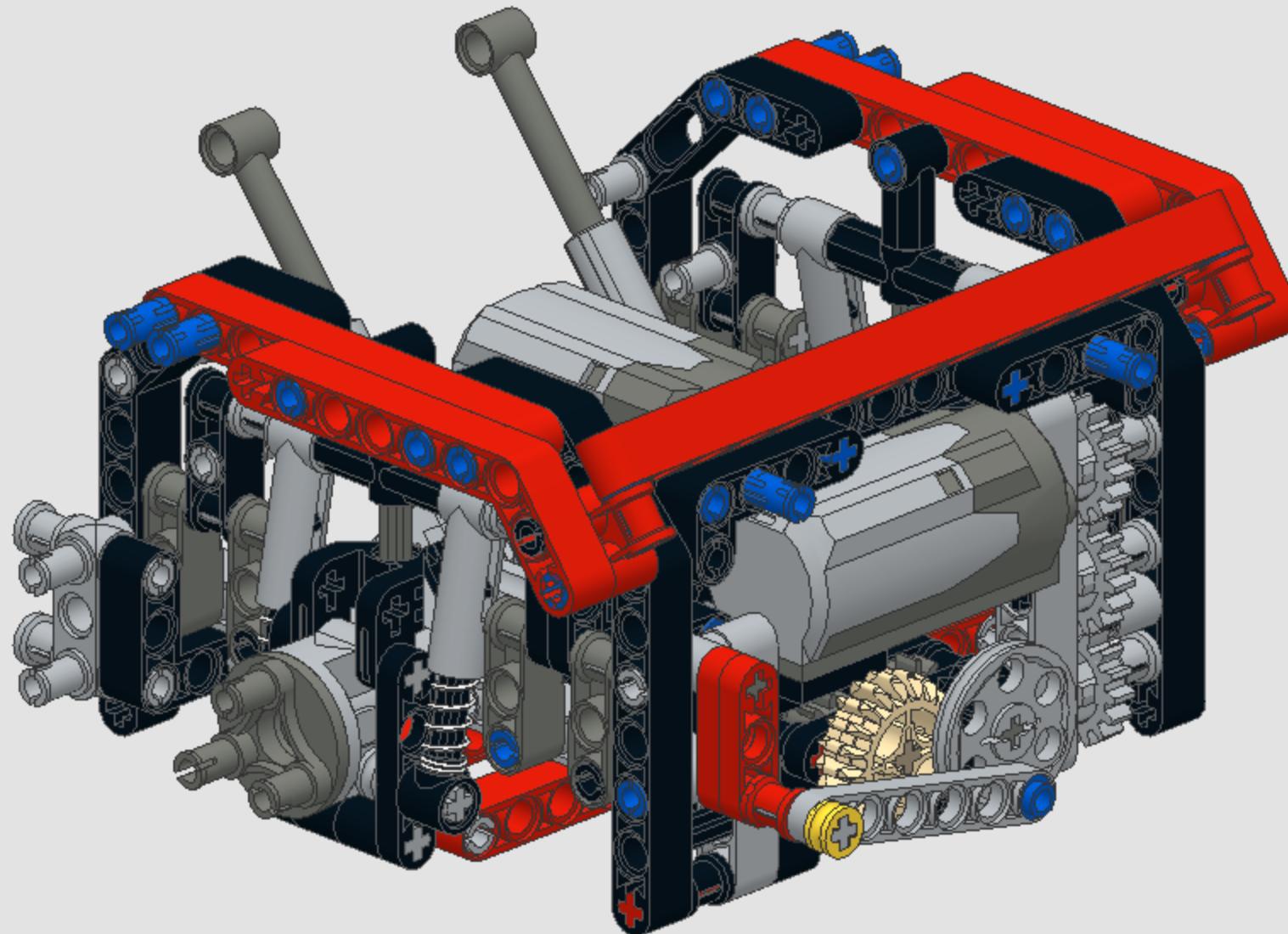




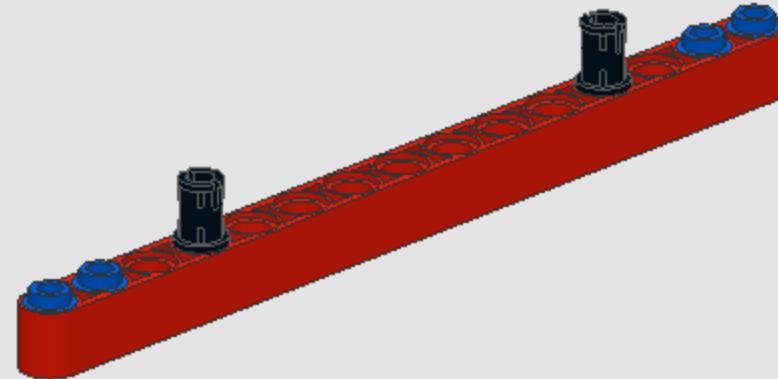
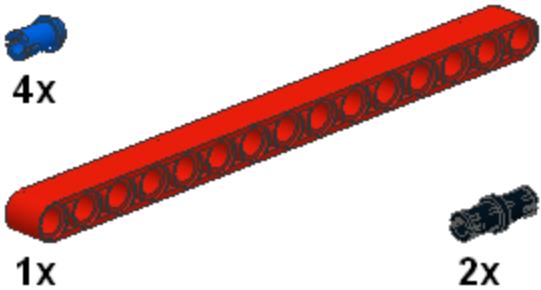
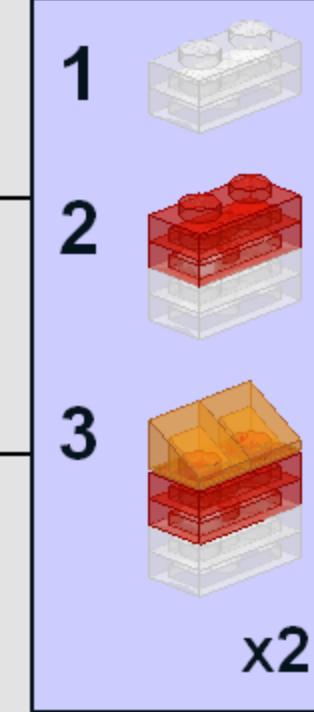
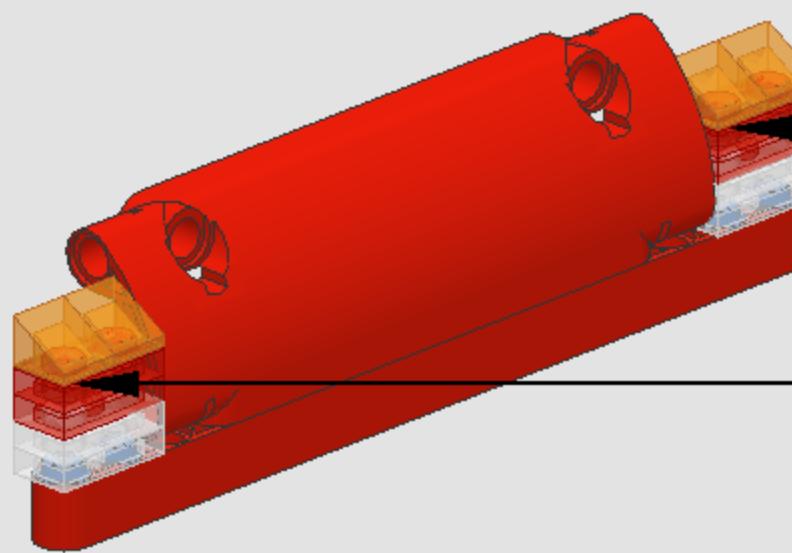
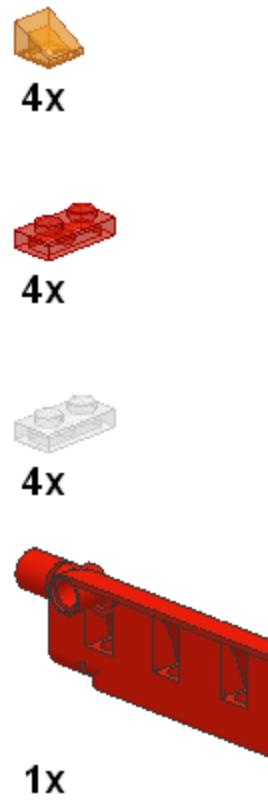
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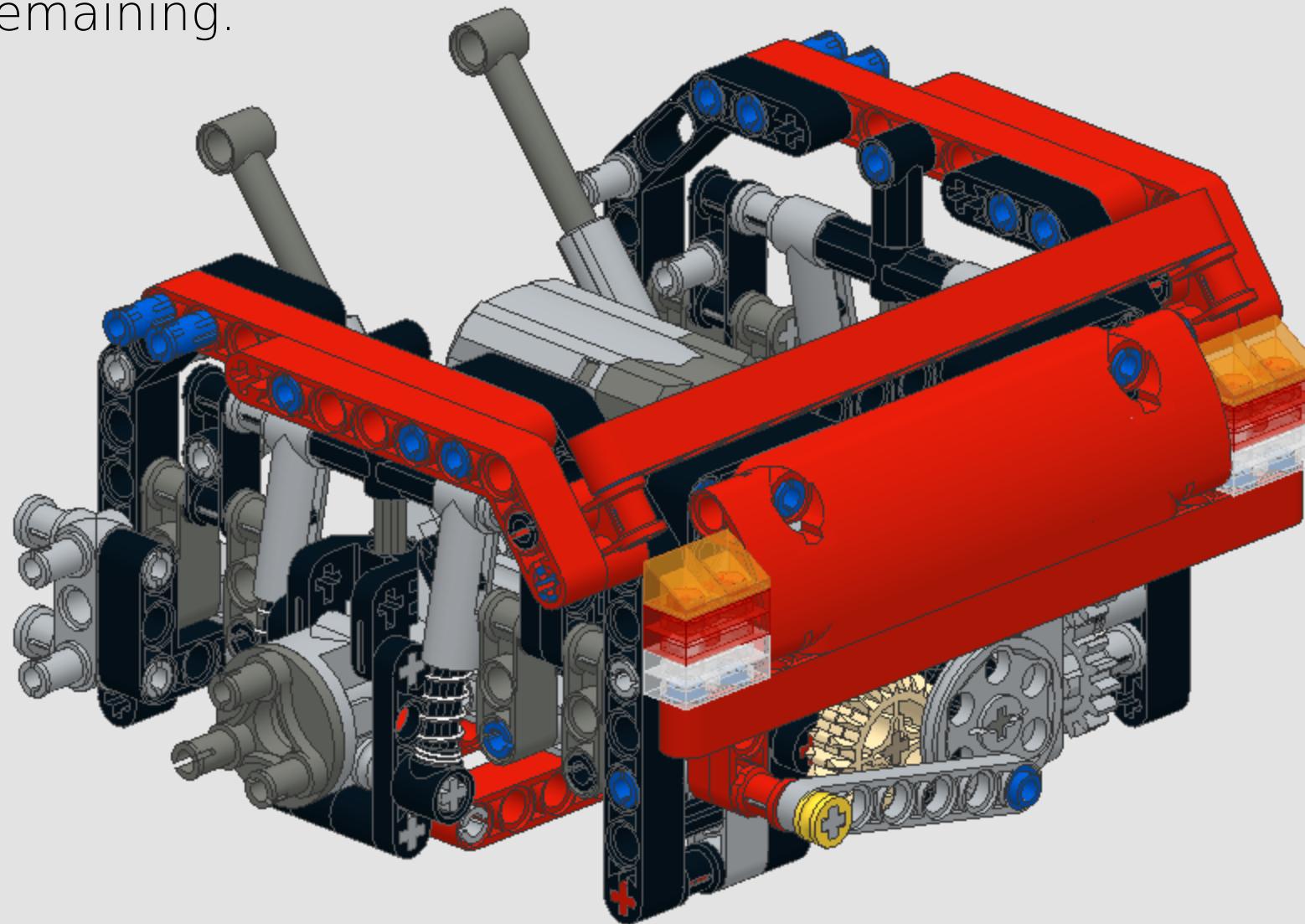
1x



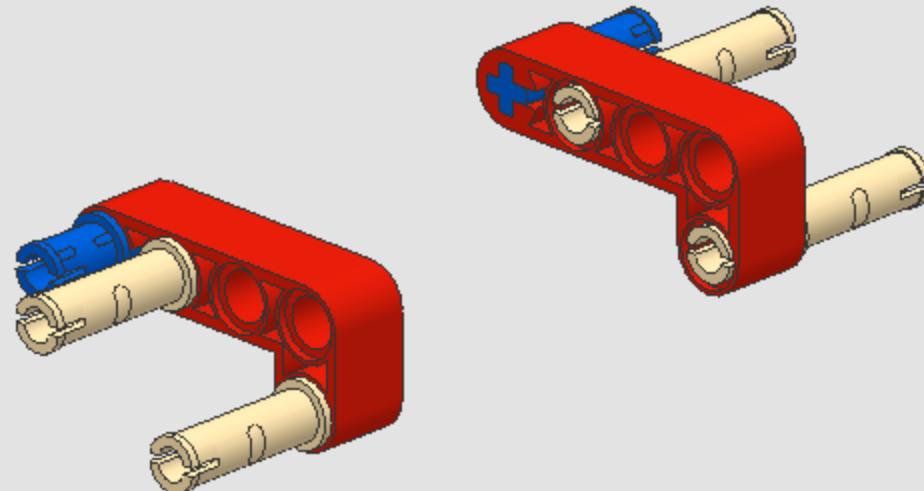
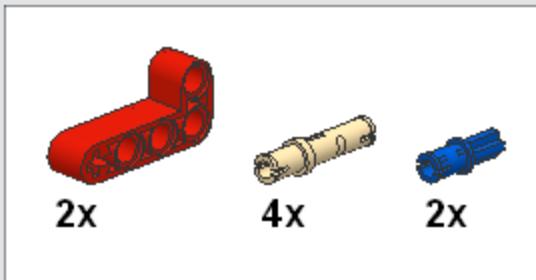
199

1**2**

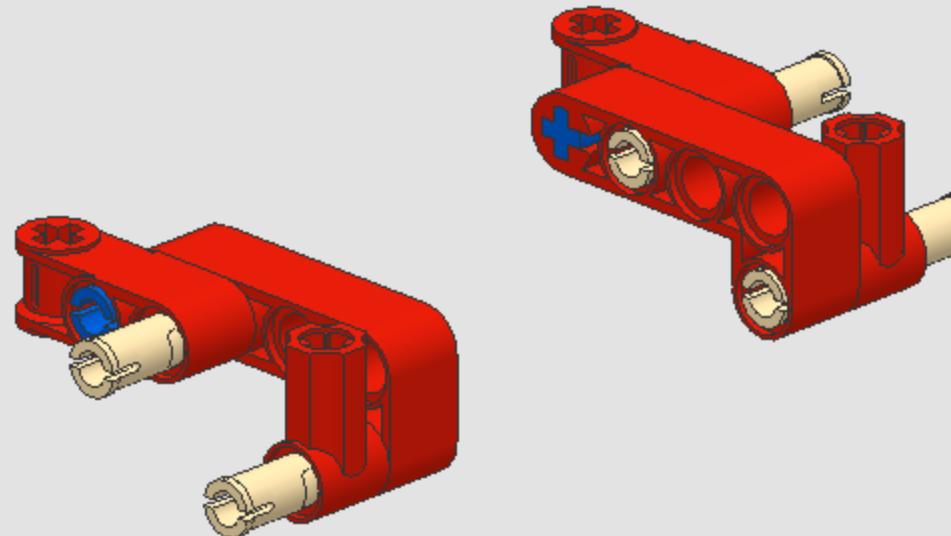
All right! You're almost done.
Only the roof remaining.



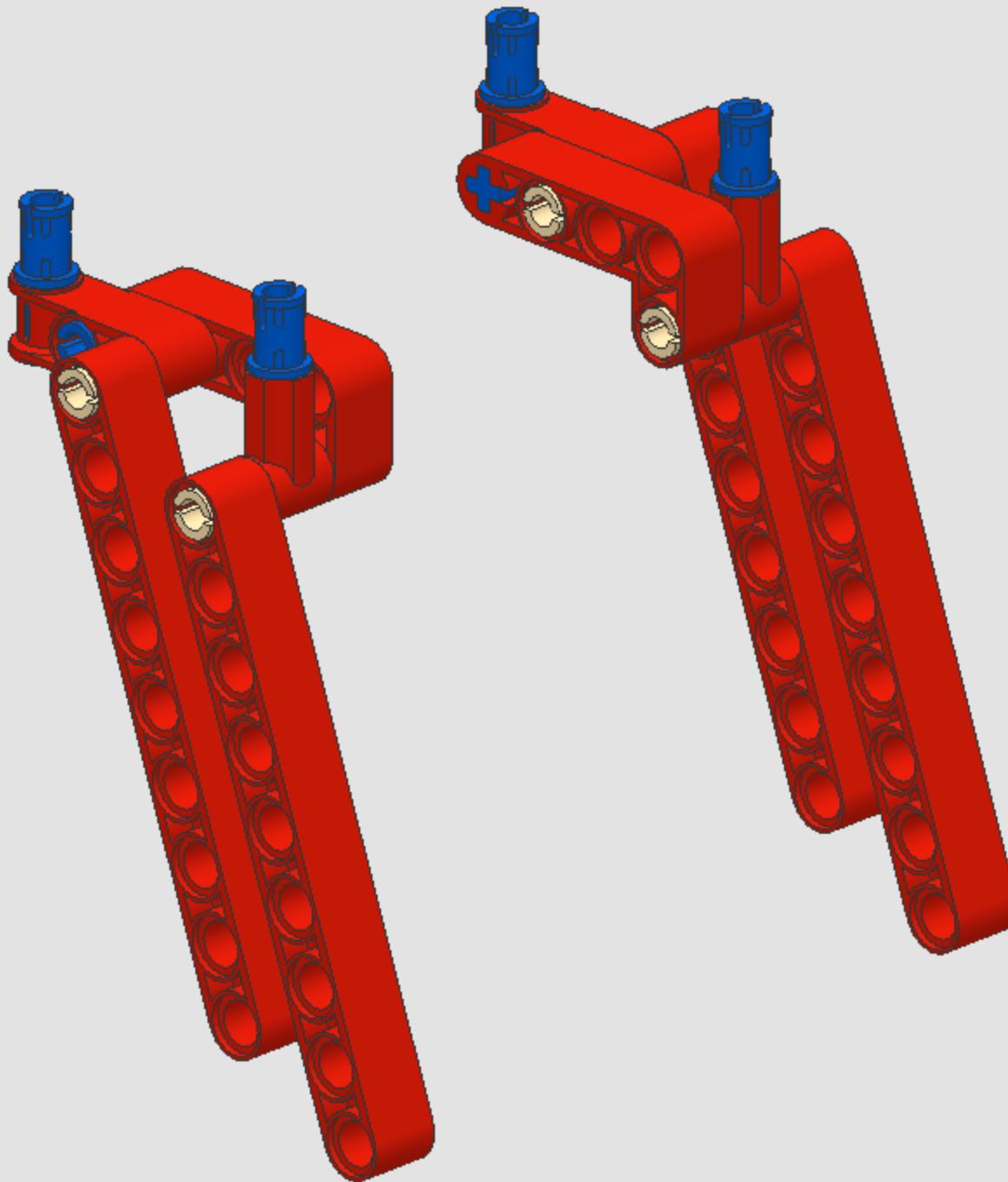
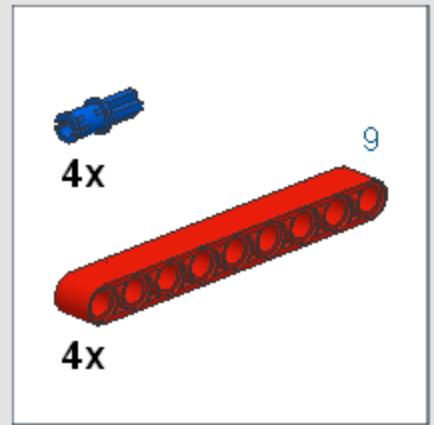
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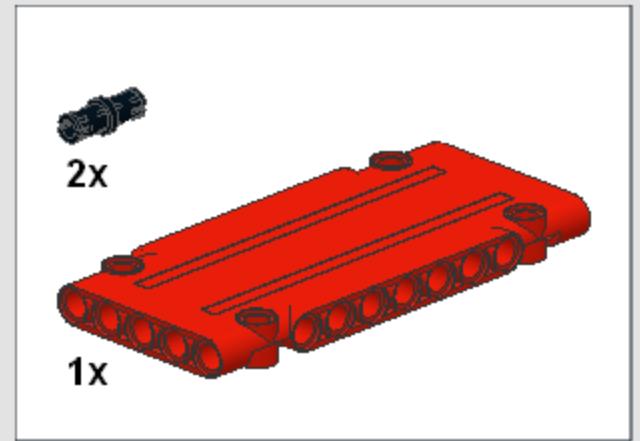
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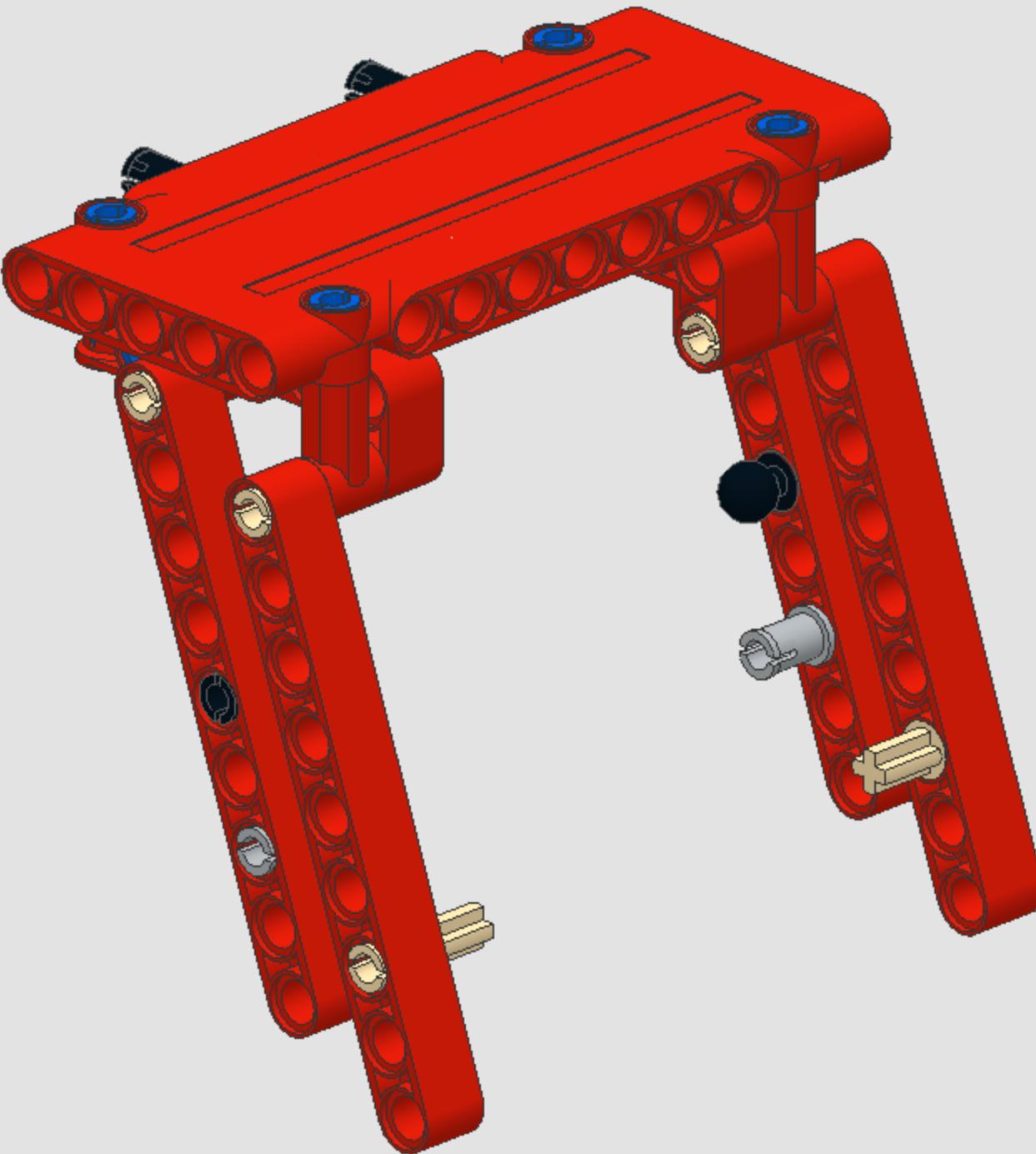
202



203



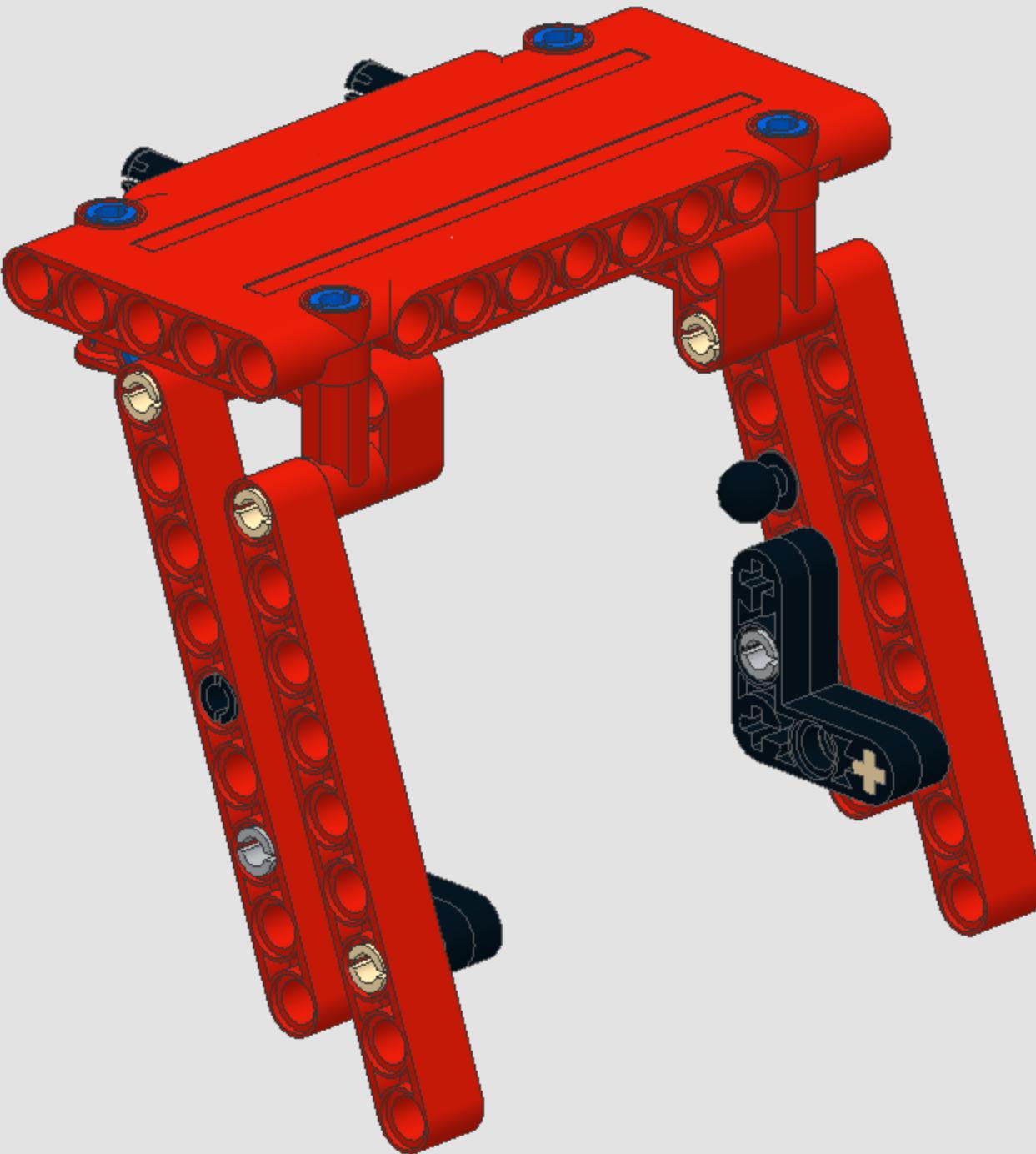
204



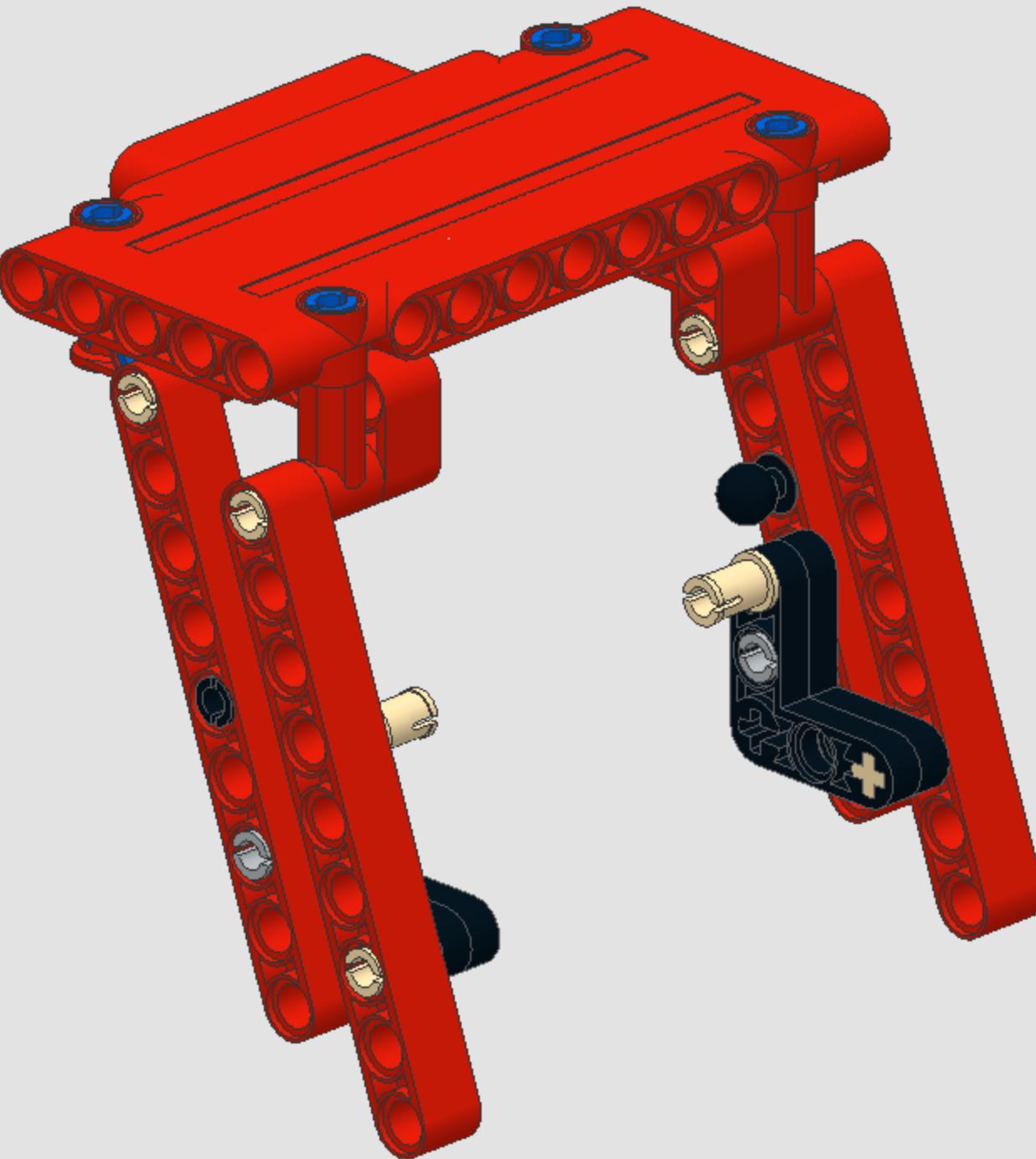
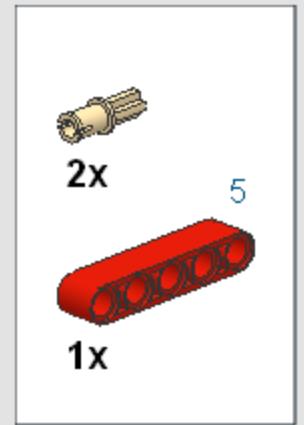
205



4x

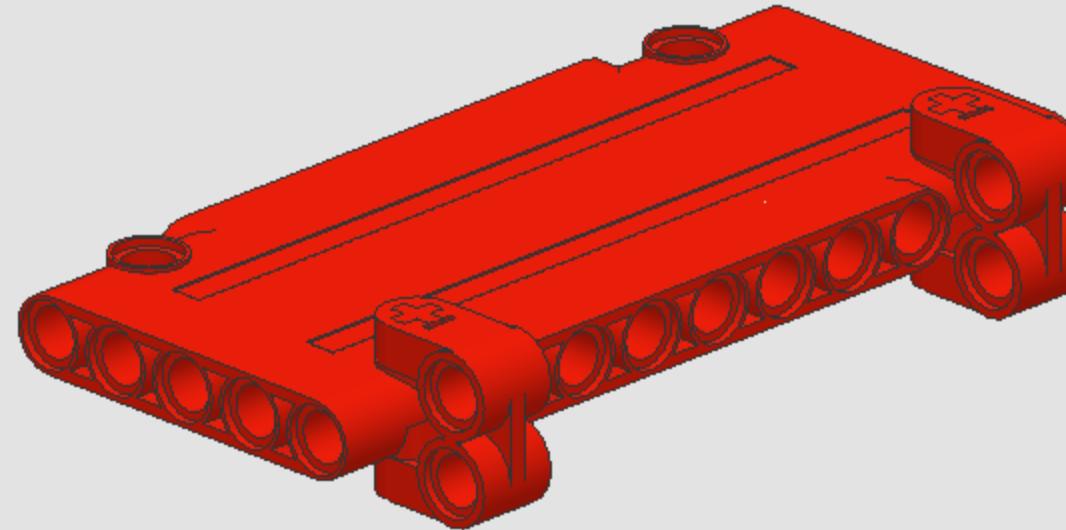
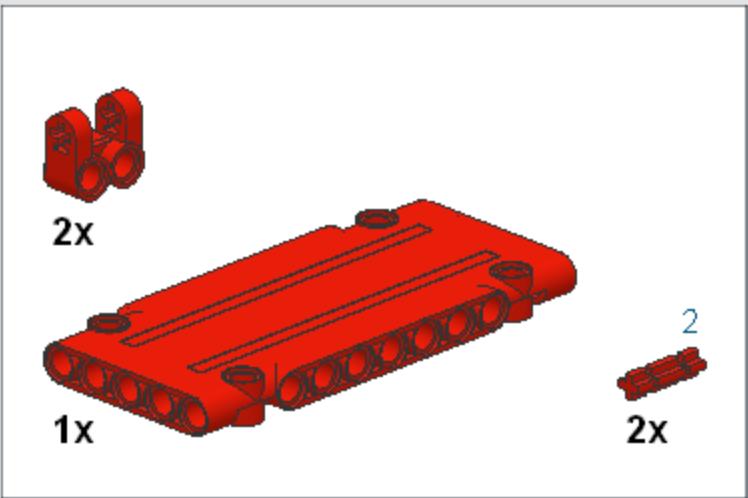


206

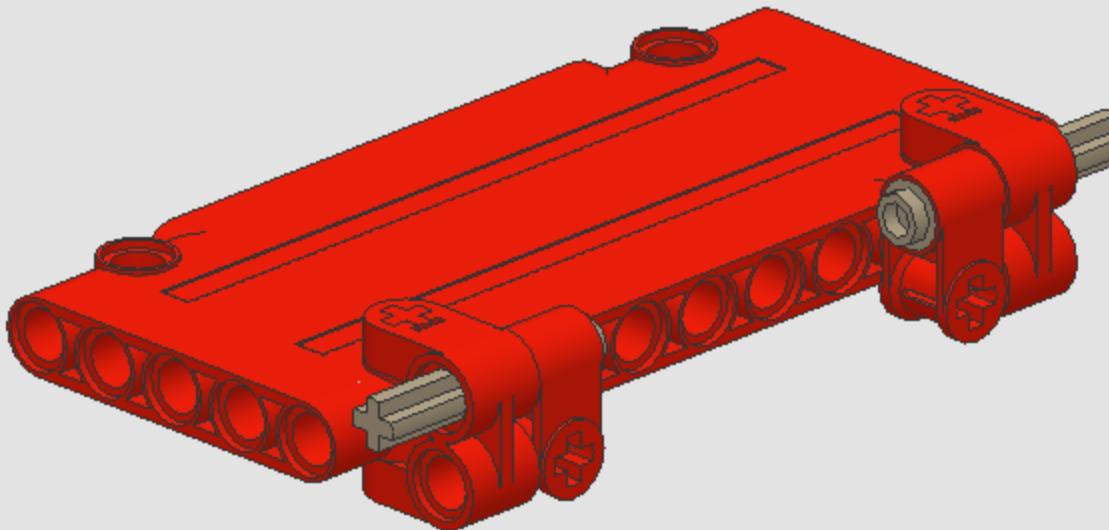
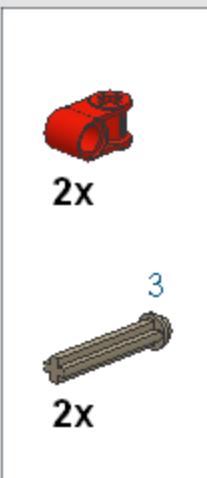


207

1



2



208

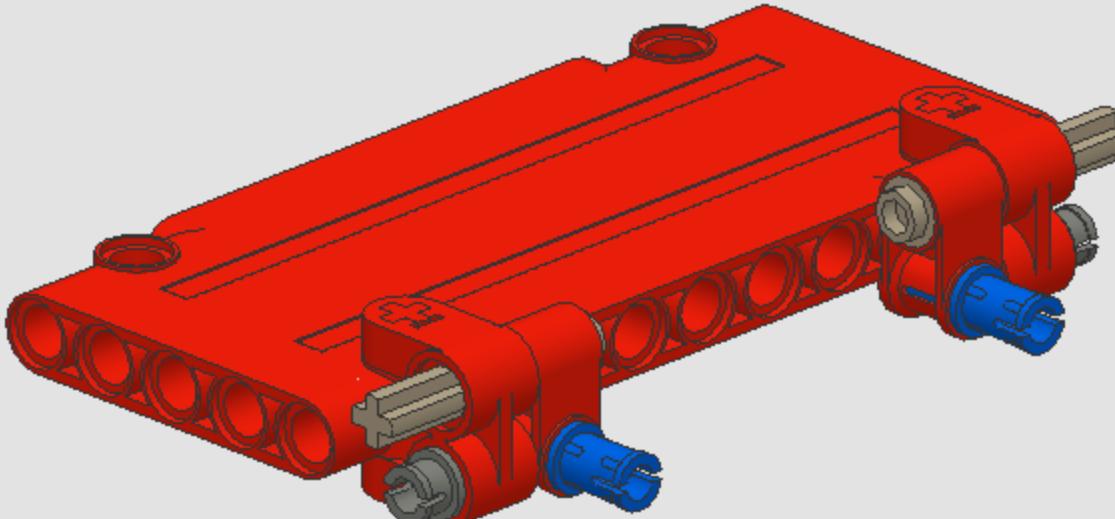
3



2x



2x



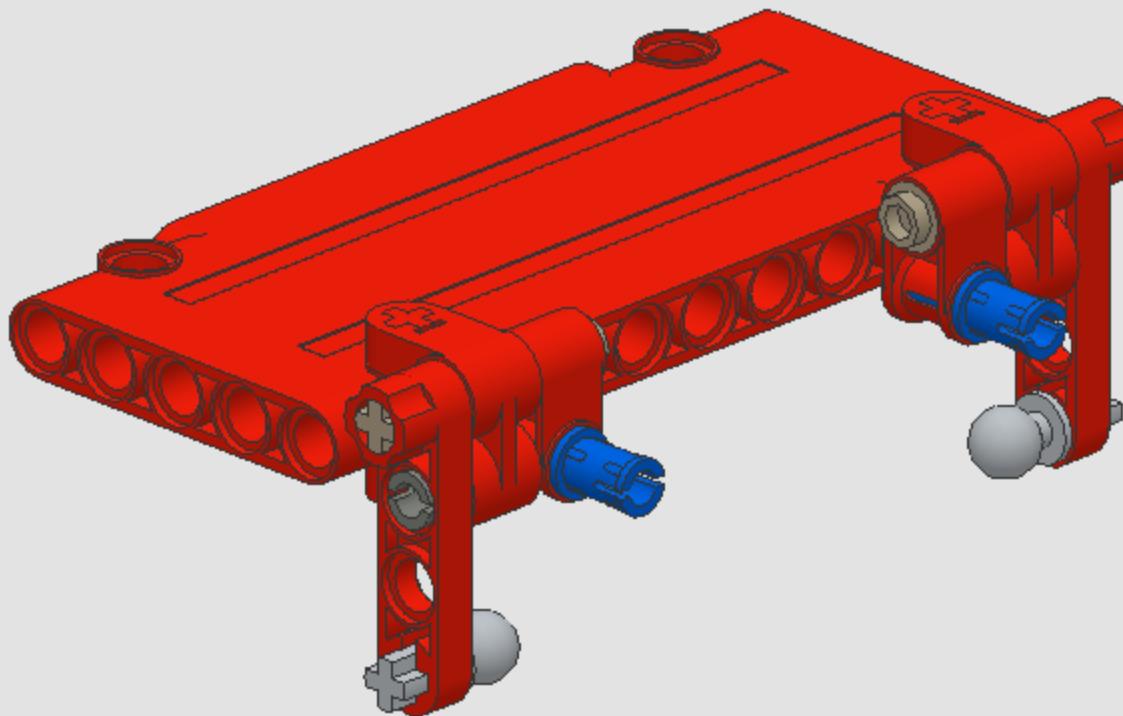
4



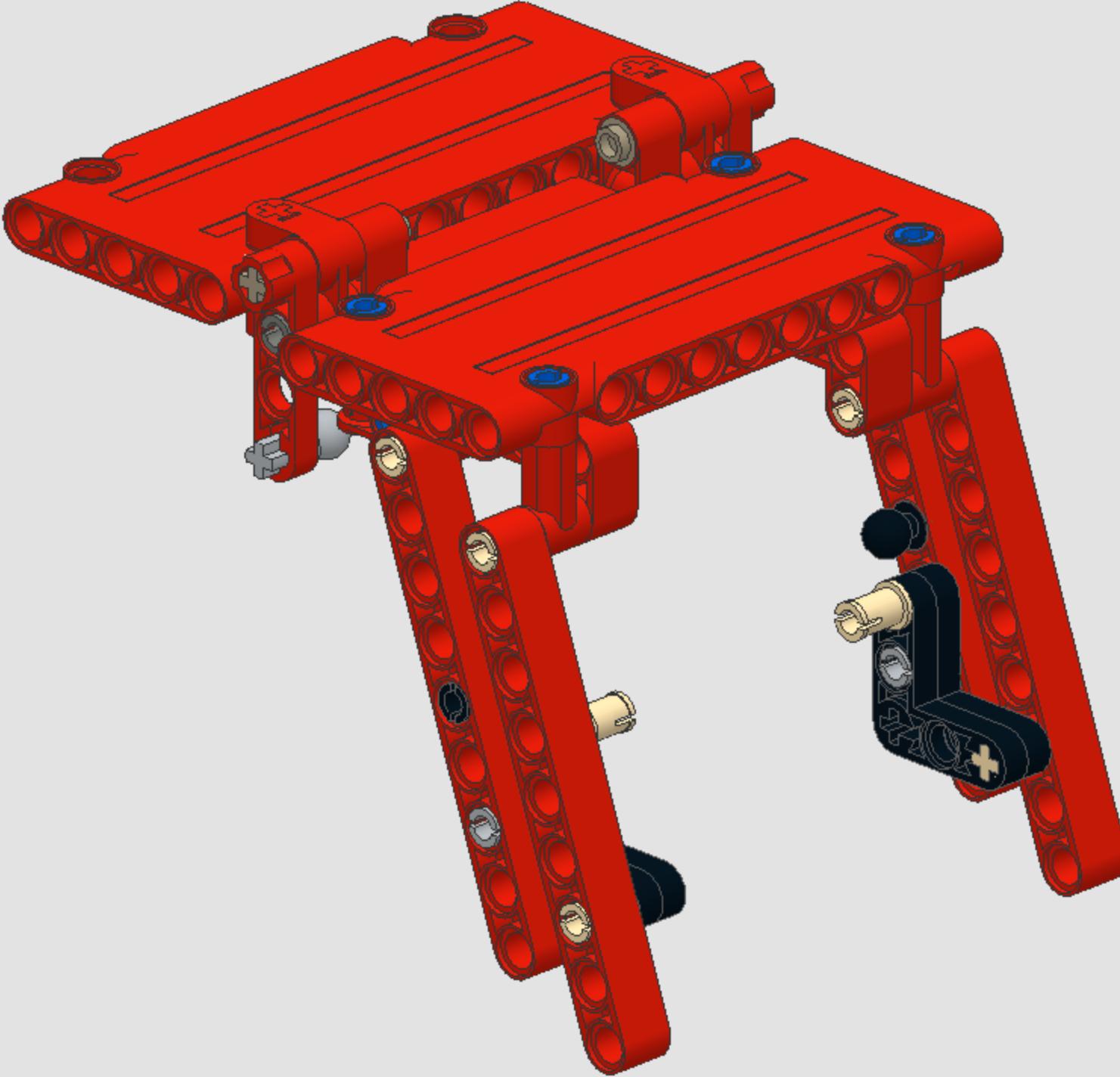
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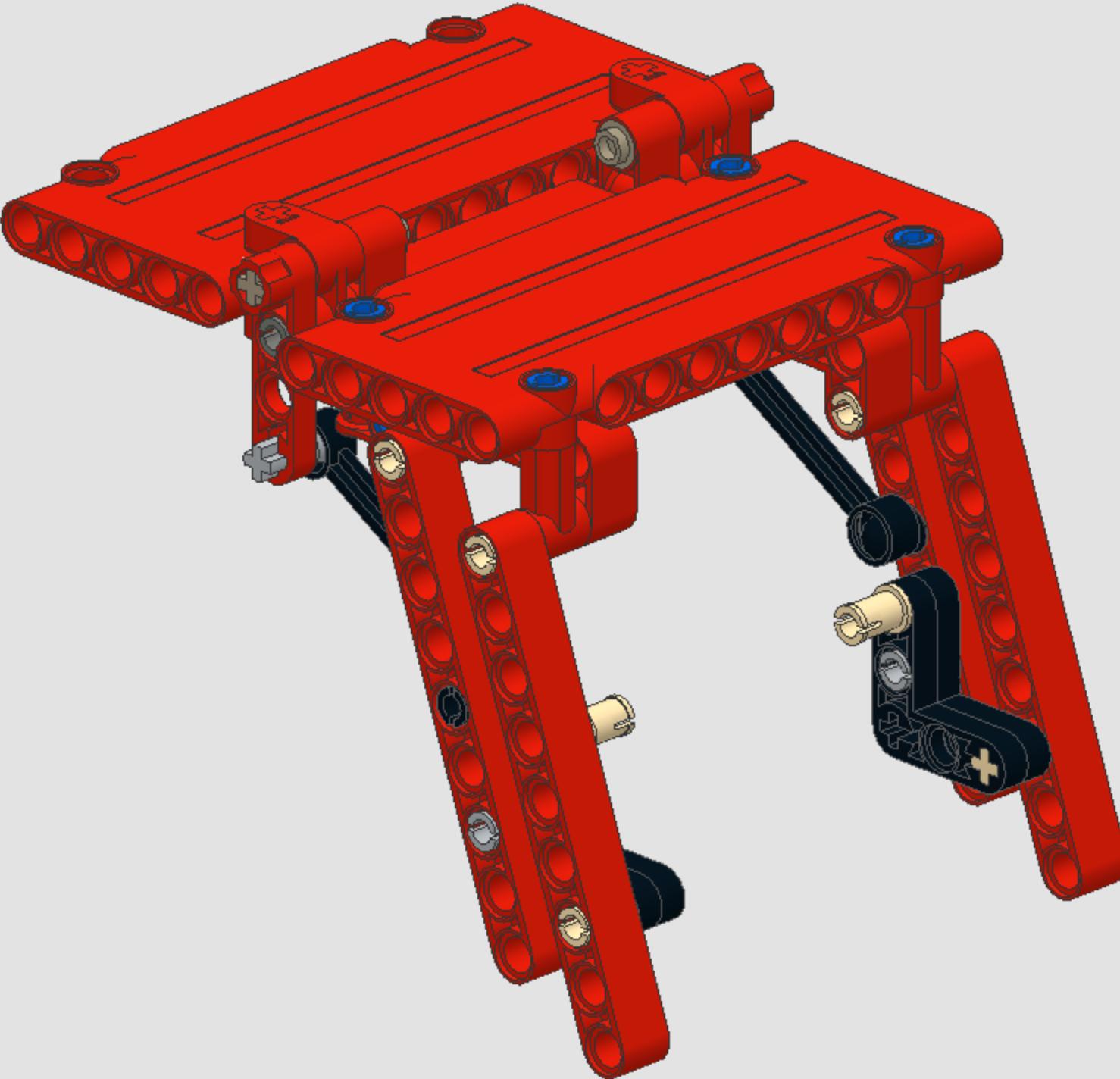
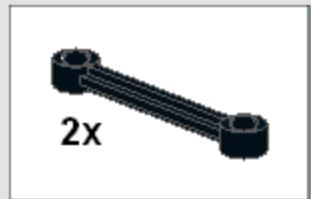
2x



209

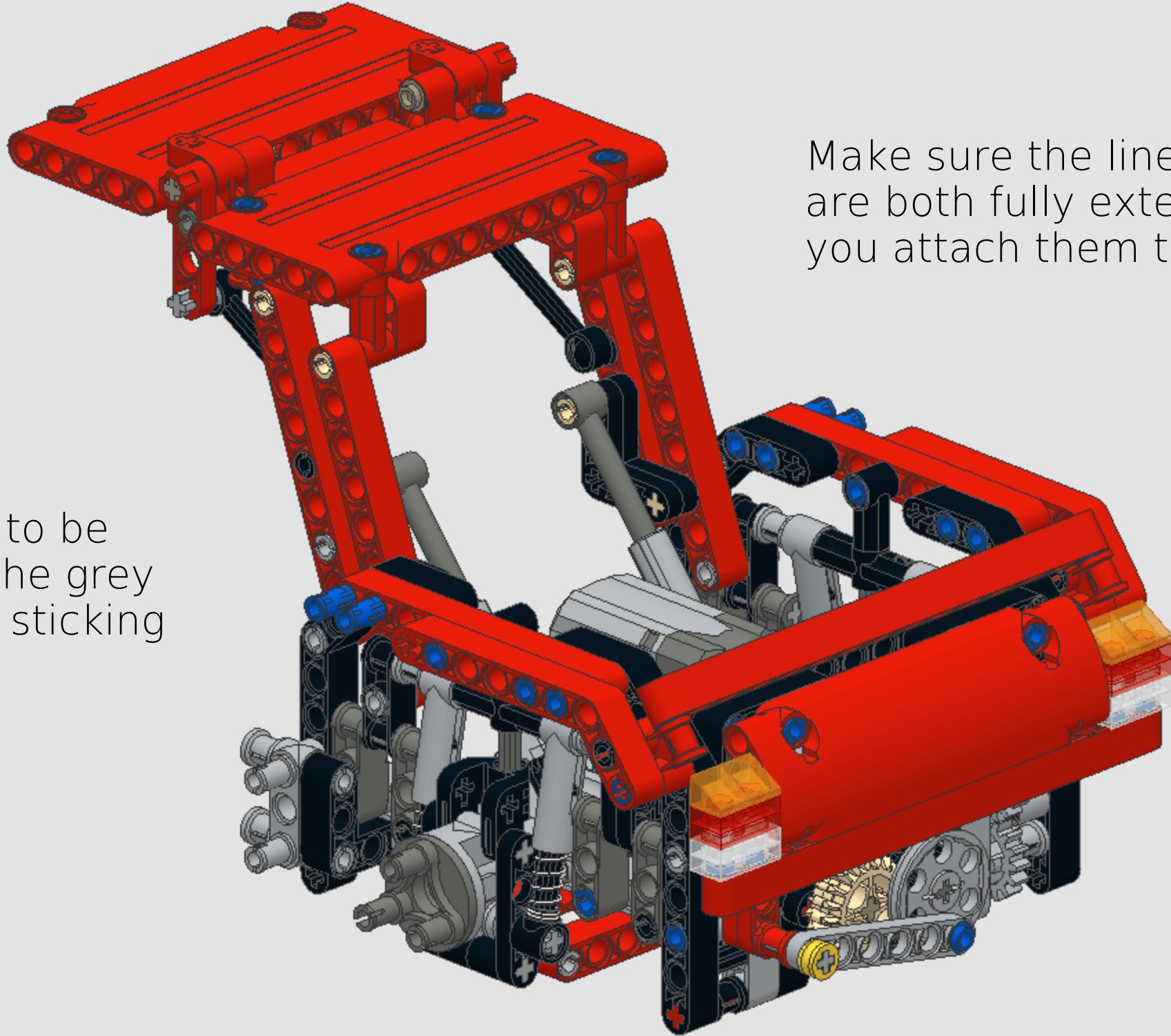


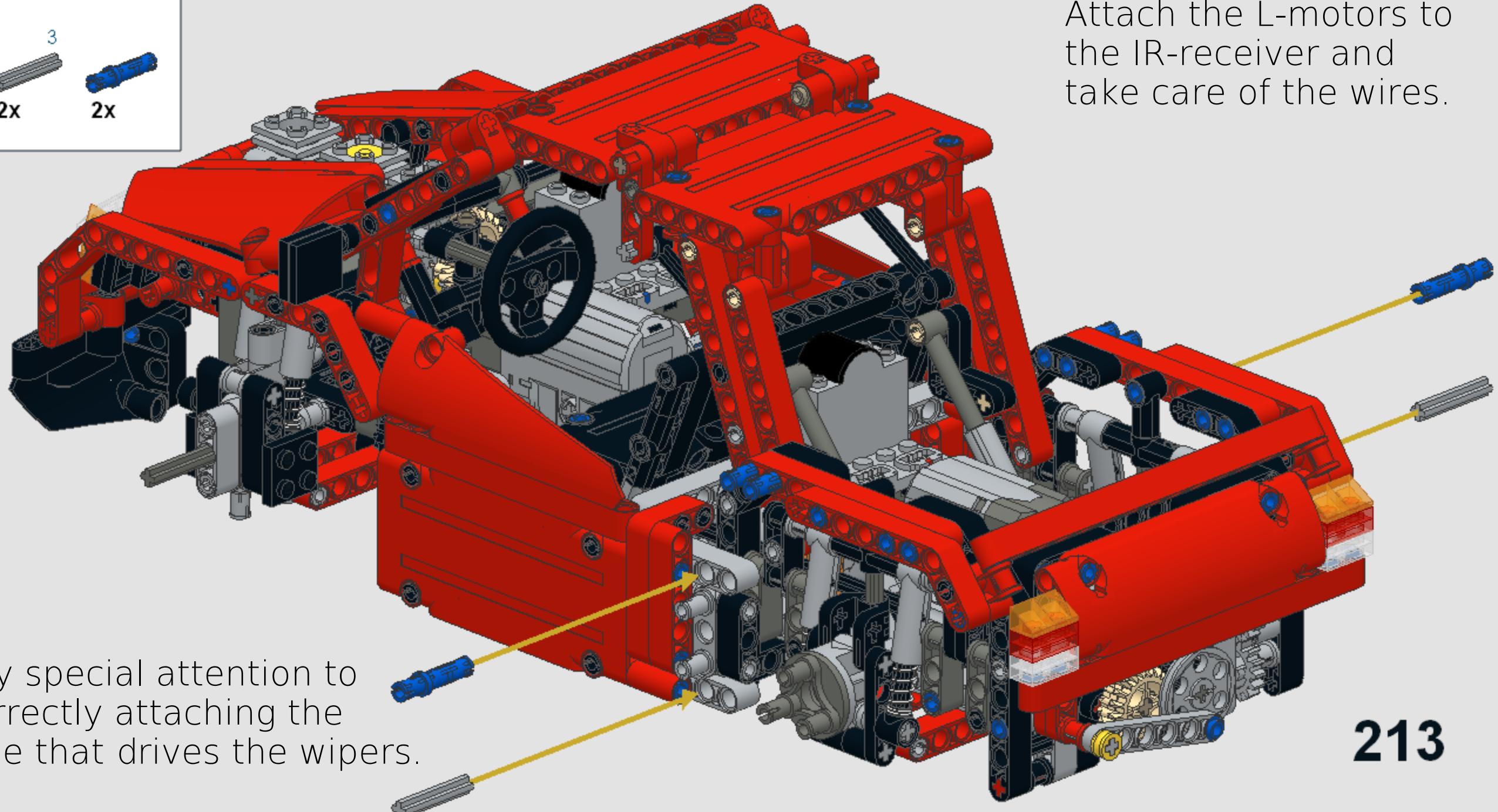
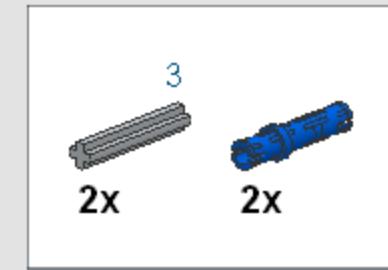
210



211

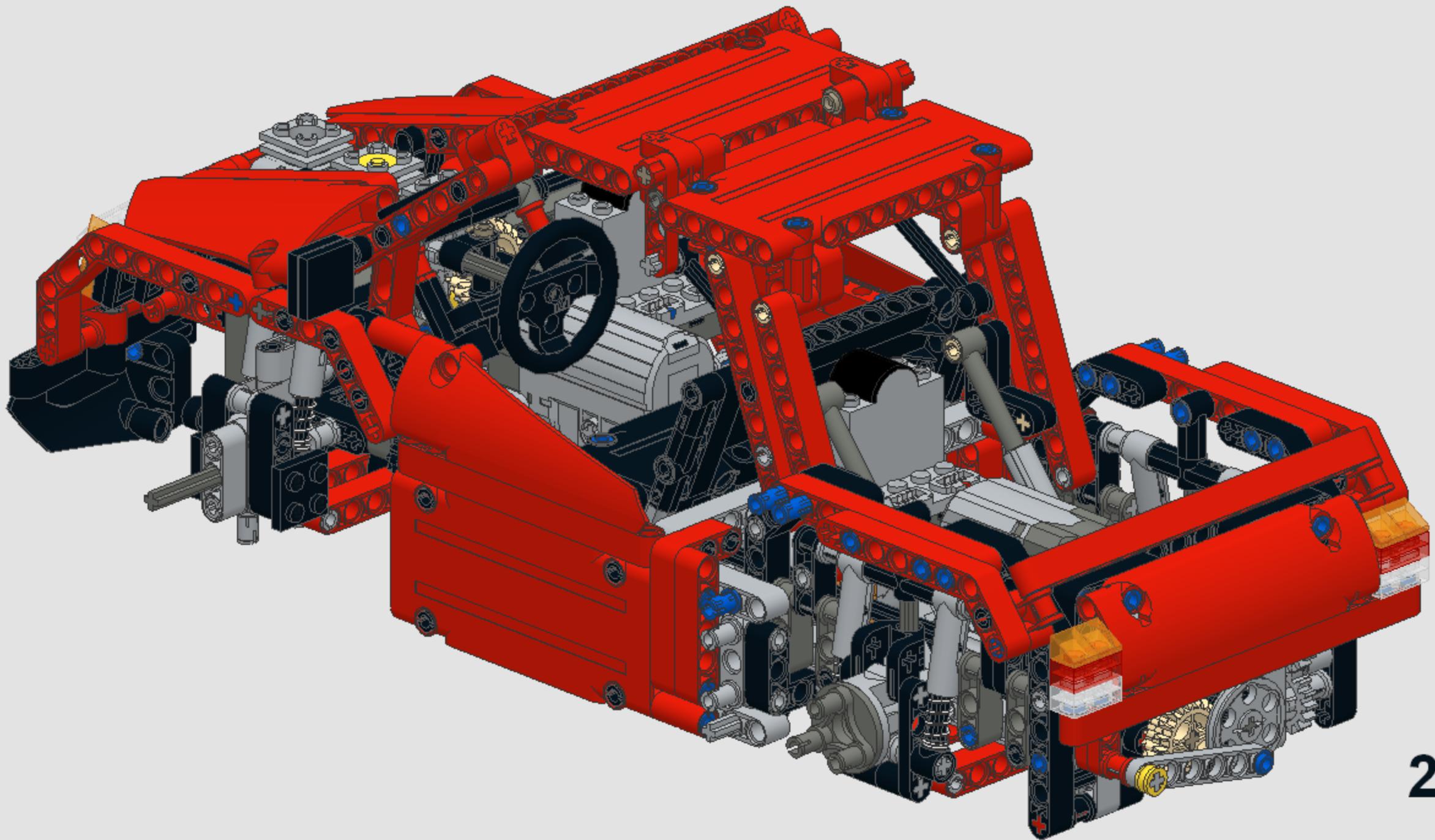
The roof has to be attached to the grey pins that are sticking out.



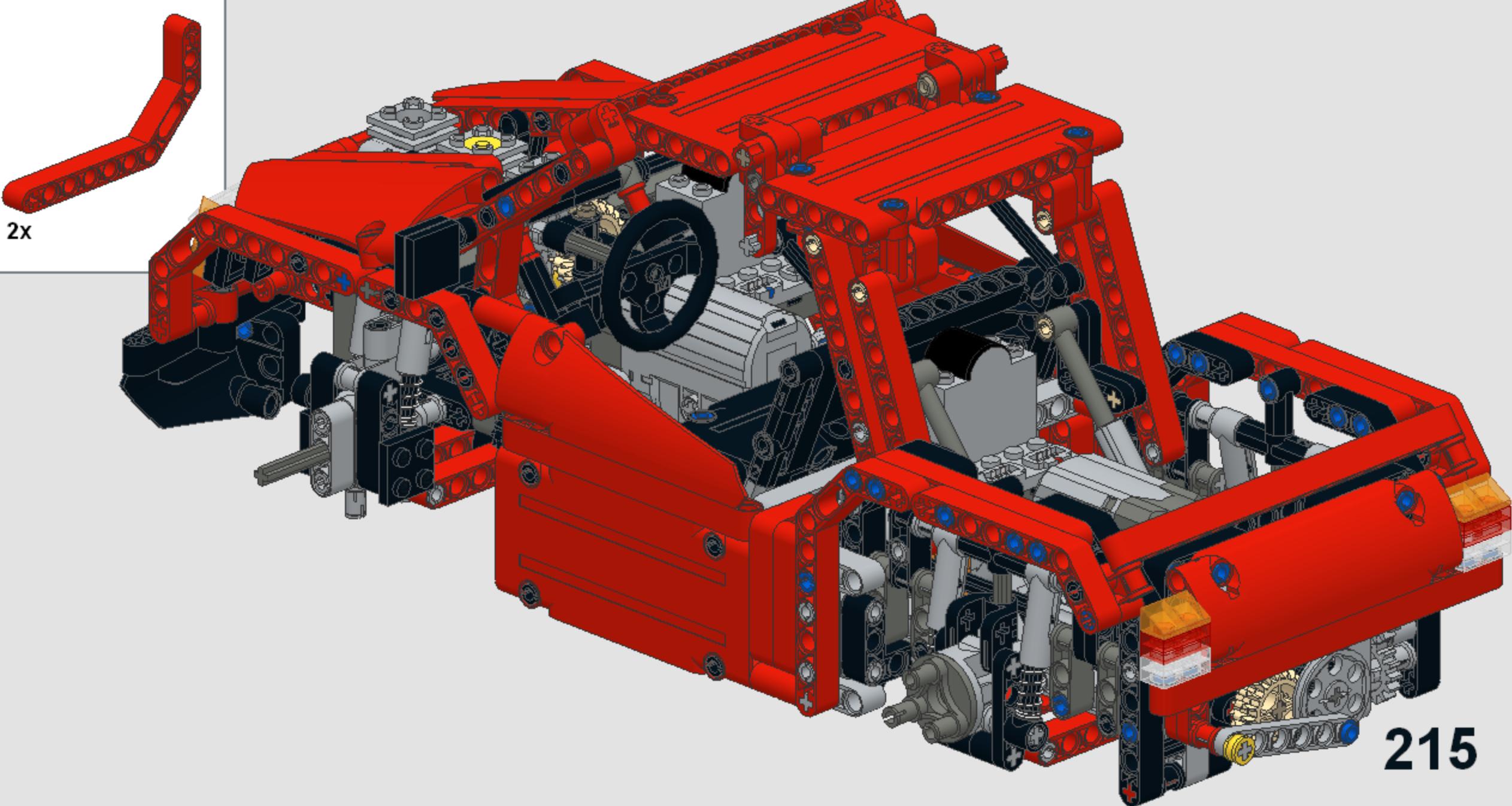


Pay special attention to correctly attaching the axle that drives the wipers.

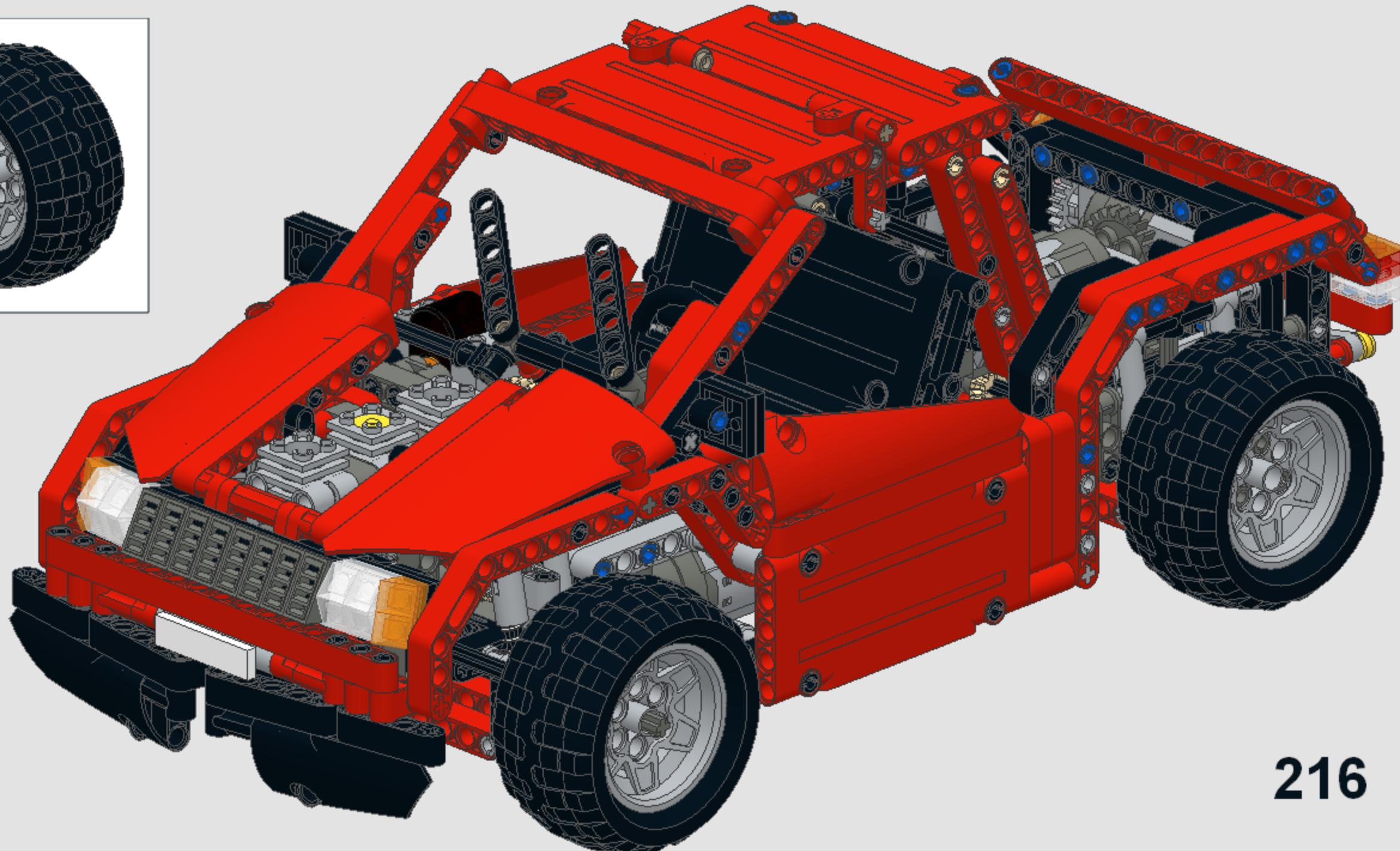
Attach the L-motors to the IR-receiver and take care of the wires.



214



215



216





