



The Pilatus PC-21 is a brand-new aircraft from Pilatus Aircraft Ltd, designed for pilot training. It features a tandem-seating arrangement (student in-front/instructor behind) in a bird strike resistant glass canopy with all round vision, glass cockpit with three large colour liquid crystal displays (LCD), head-up displays (HUD), Hands on Throttle and Stick (HOTAS) controls and Zero-zero ejection seats for student and instructor.

The aircraft is powered by a 1,200 kW (1,600 shp) Pratt & Whitney Canada PT6A-68B Turboprop engine.

PERFORMANCES (Aerobatic configuration, ISA conditions)

Take-off distance over 50 ft (15 m) obstacle at sea level **2,379 ft (725 m)**

Landing distance over 50 ft (15 m) obstacle at sea level **2,953 ft (900 m)**

Max. rate of climb, sea level **4,250 ft/min (21.59 m/sec)**

Max. operating speed (V_{mo}) **370 KEAS (685 km/h)**

Max. horizontal speed (V_H) at sea level **323 KTAS (598 km/h)**

Max. horizontal speed (V_H) at 10,000 ft **337 KTAS (624 km/h)**

Stall speed

- flaps and gear up (V_s) **92 KEAS (170 km/h)**

- flaps and gear down (V_{so}) **81 KEAS (150 km/h)**

g loads Aerobatic Utility

- Max. positive + **8.0 g + 5.0 g**

- Max. negative - **4.0 g - 2.5 g**

Max. range **720 NM (1,333 km)**

WEIGHTS

Basic empty weight (conf. dependent) **5,026 lb (2,280 kg)**

Max. take-off weight, aerobatic **6,834 lb (3,100 kg)**

Max. take-off weight, utility **9,370 lb (4,250 kg)**

The model you are about to build has been designed to reflect as much as possible the sleek shape and provide the same functions as the original PC-21. The construction is challenging, but I hope you will find rewarding. Have fun !

Ismaël "Khan" Juhoor



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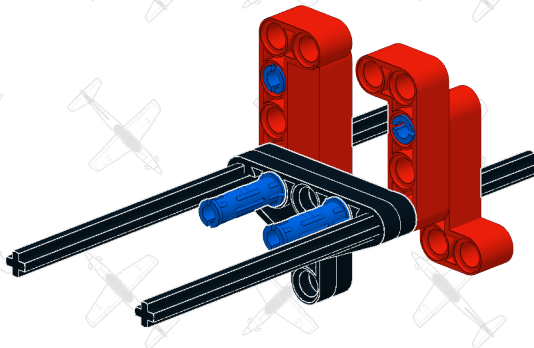
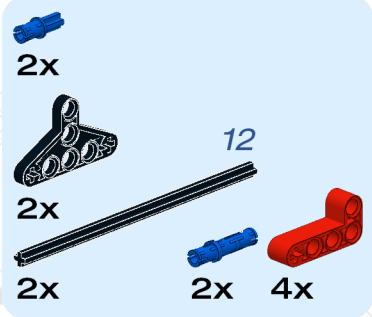
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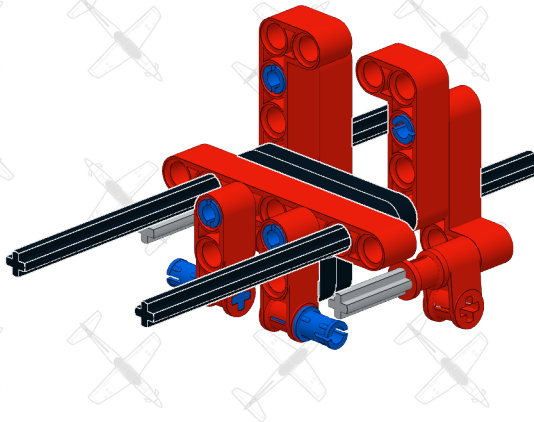
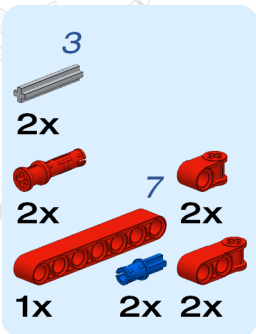
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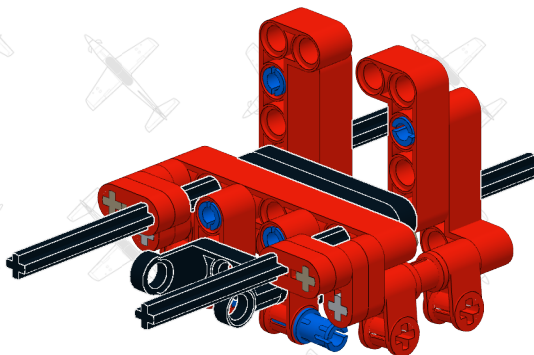
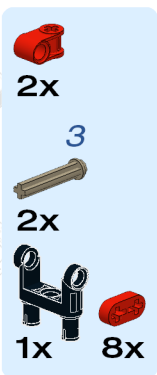
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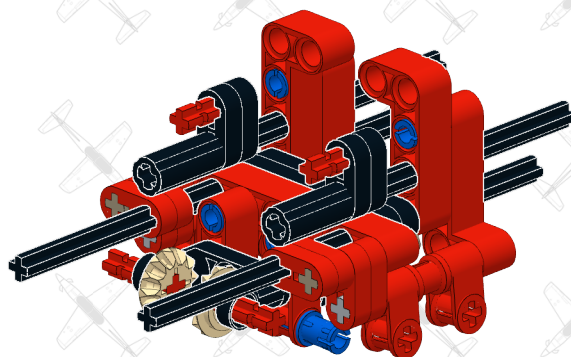


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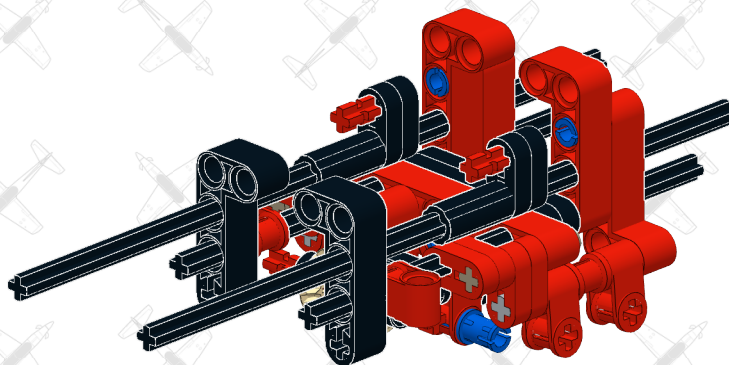
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- 2x 4x
- 2x 2x
- 2x 2x
- 8x 4x
- 2x 2x



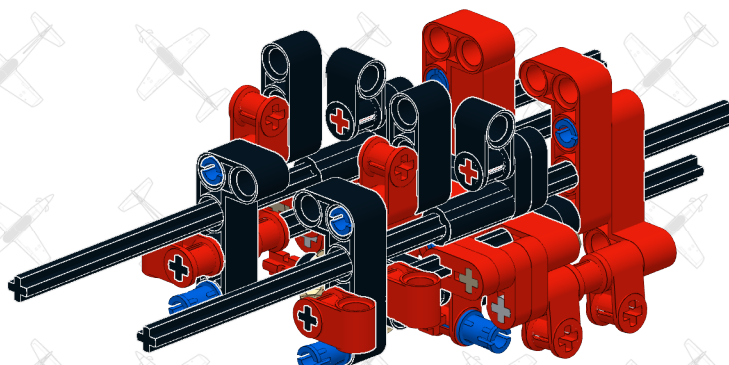
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



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- 2x 2x
- 10x 2x
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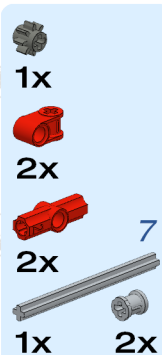
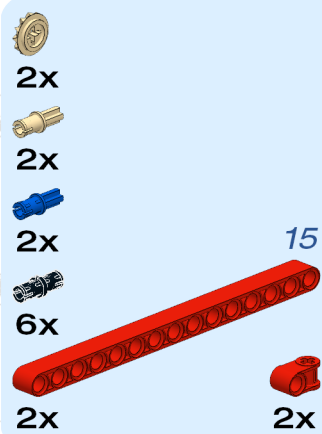


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
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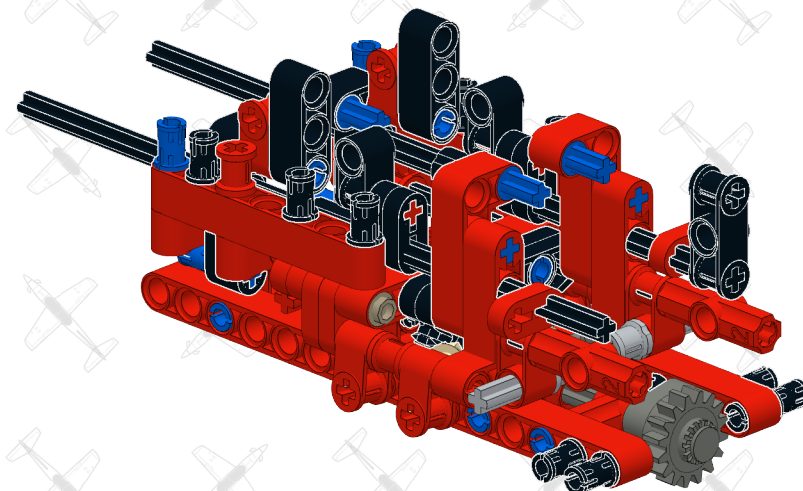


 1x
 1x
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 3x
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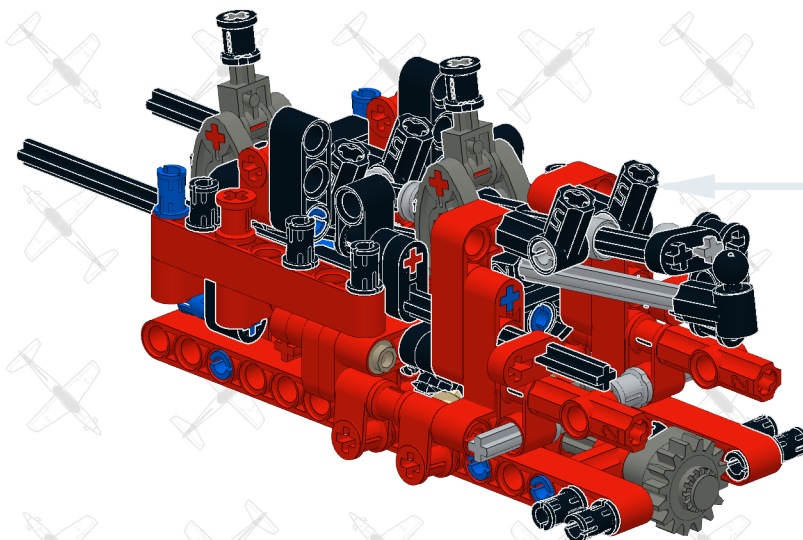


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






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- 2x 
- 2x 
- 1x 
- 7 
- 2x 
- 6x 
- 2x 

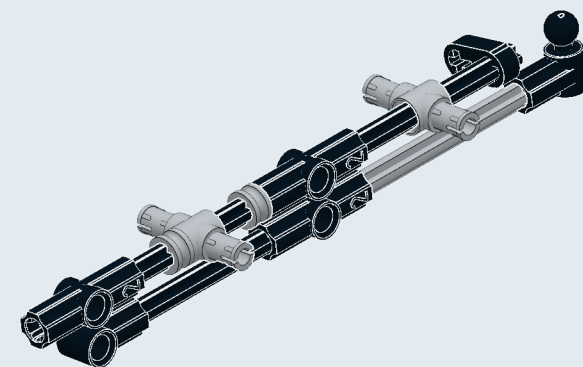


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


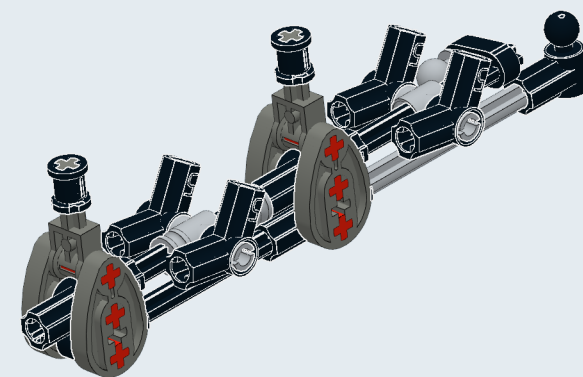
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- 1x 
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- 3x 
- 1x 
- 3x 
- 2x 
- 2x 




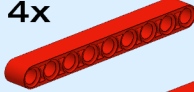
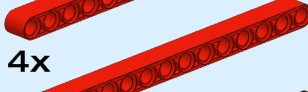
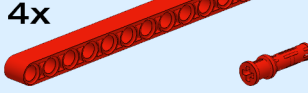





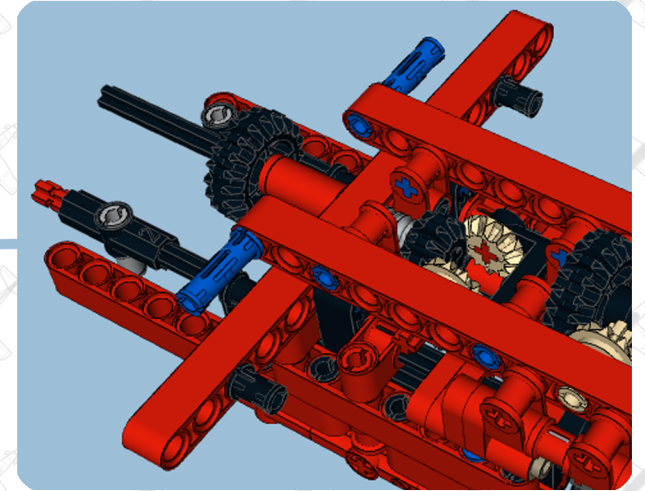
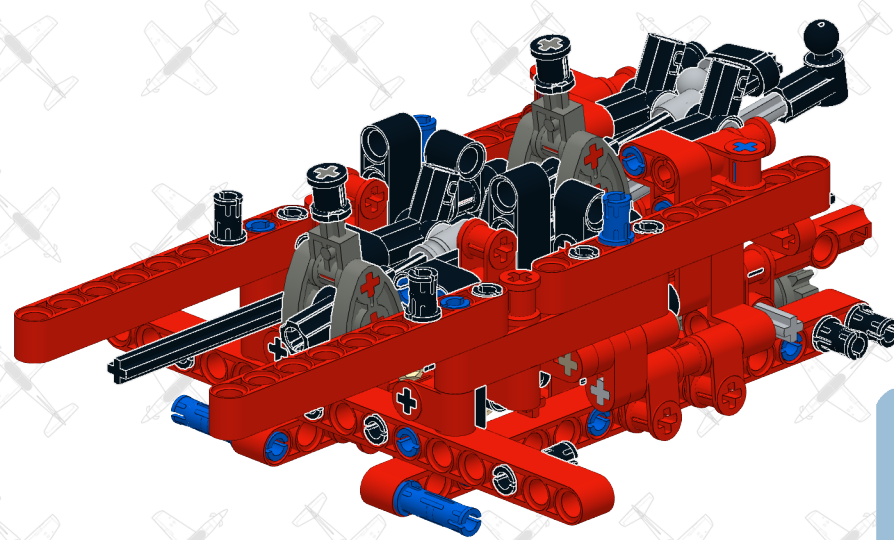
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

















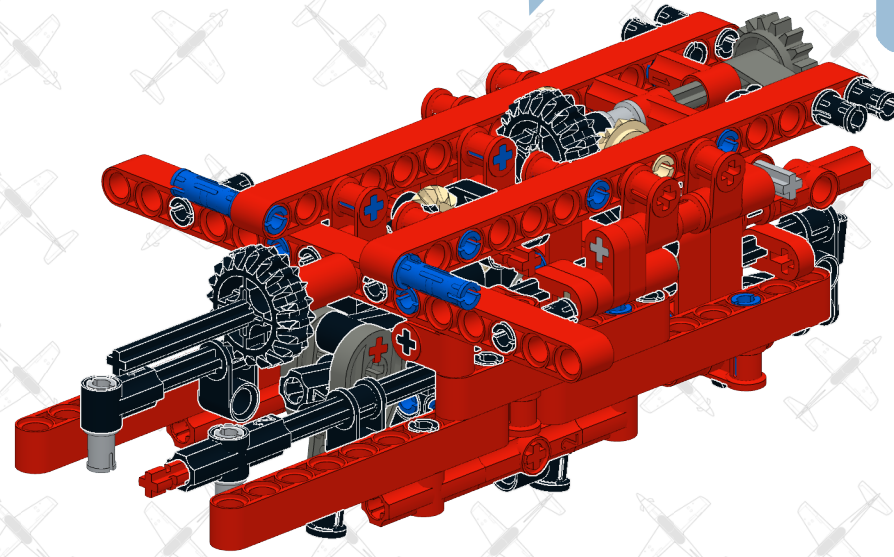
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- 2x 
- 2x 

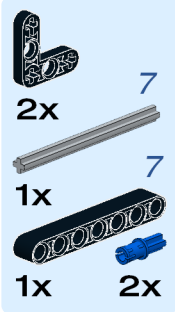


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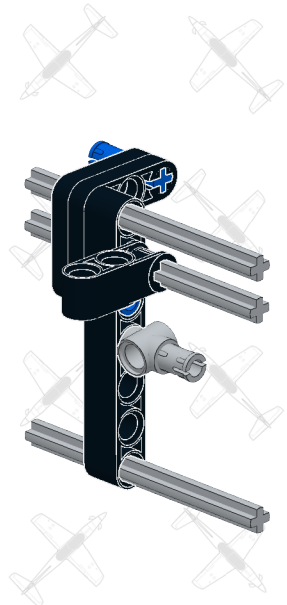
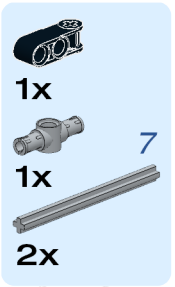
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- 1x 
- 1x 
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- 2x 
- 2x 
- 2x 
- 2x 
- 1x 



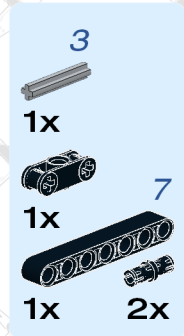
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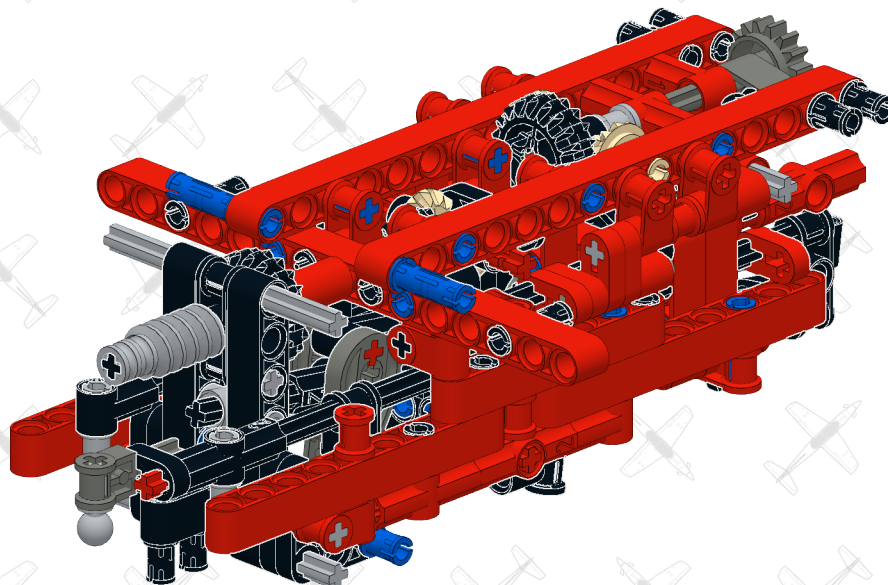
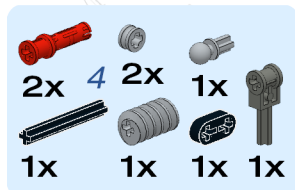
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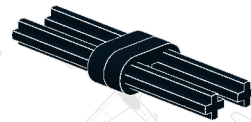
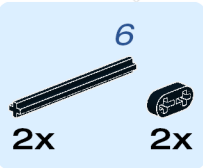
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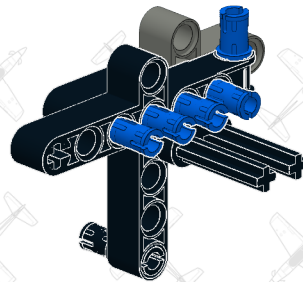
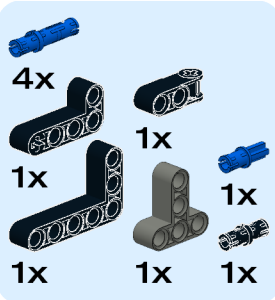
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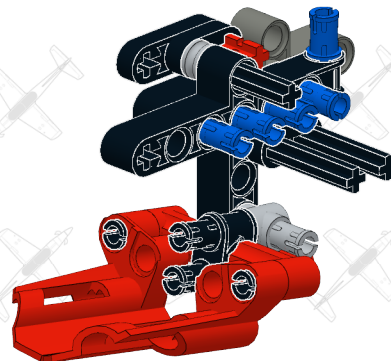
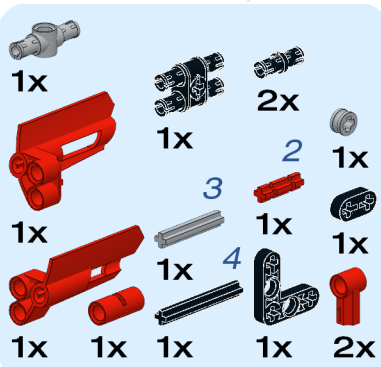
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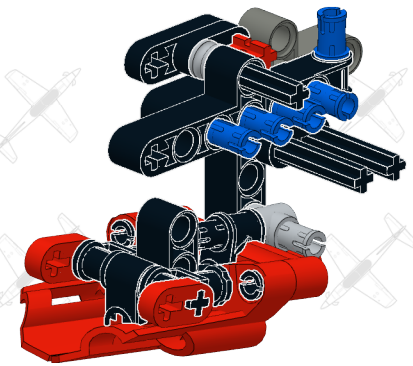
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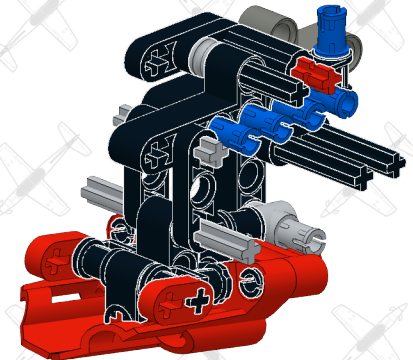
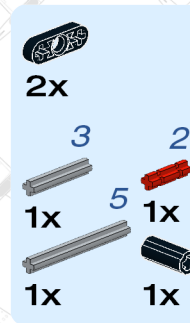
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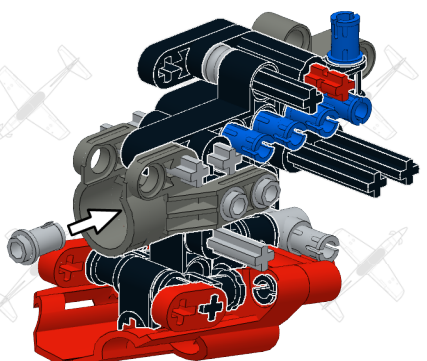
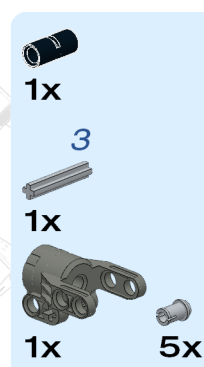
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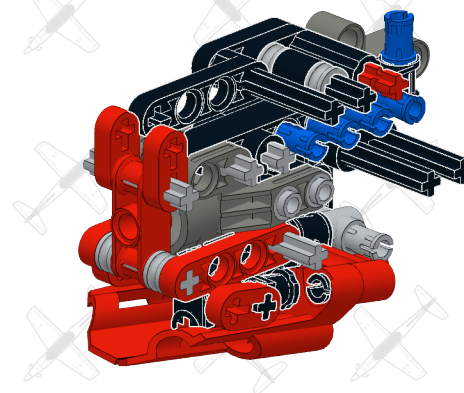
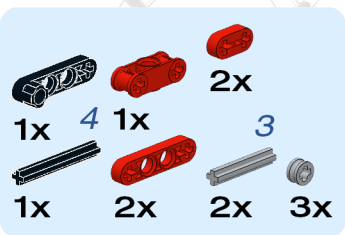
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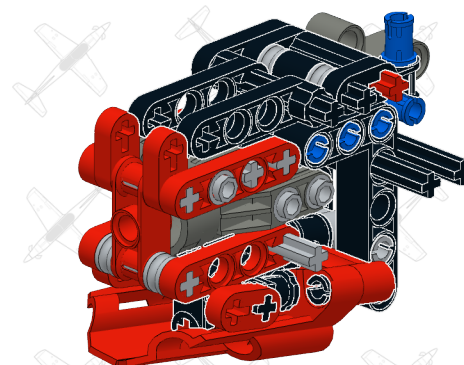
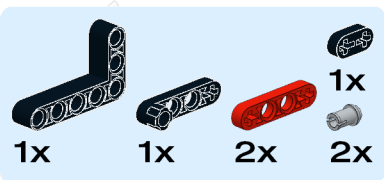
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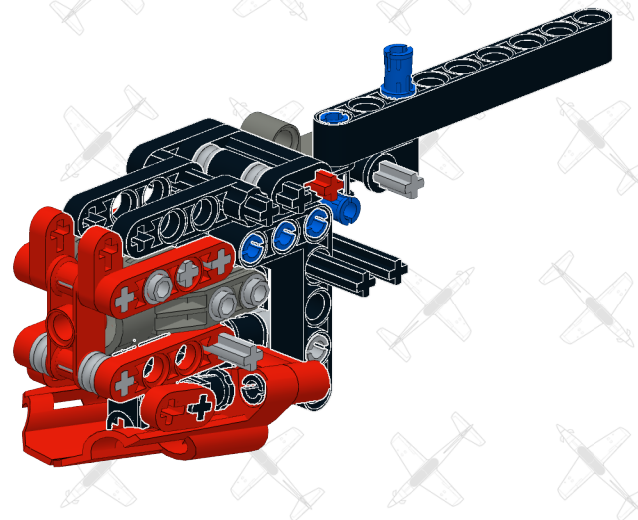
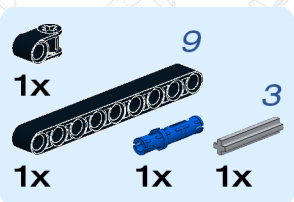
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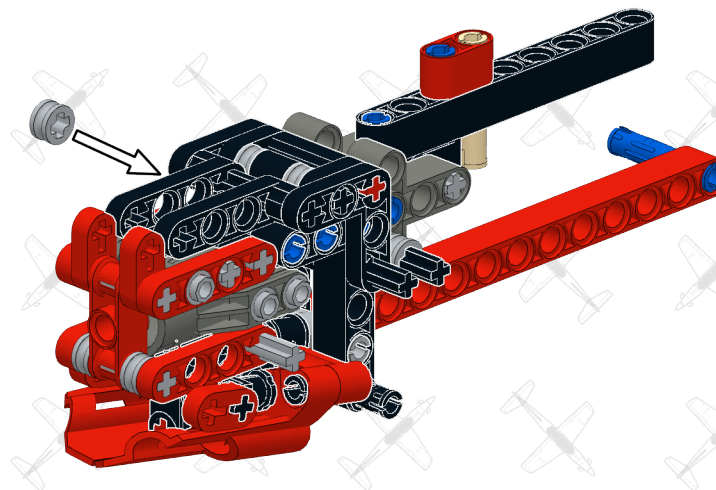
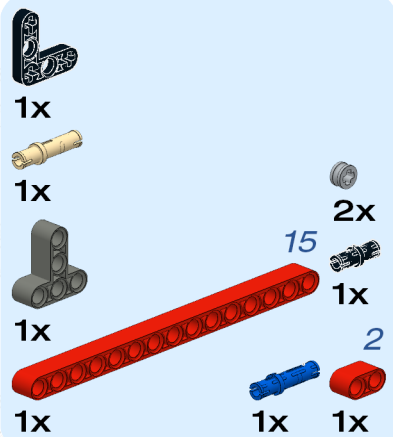
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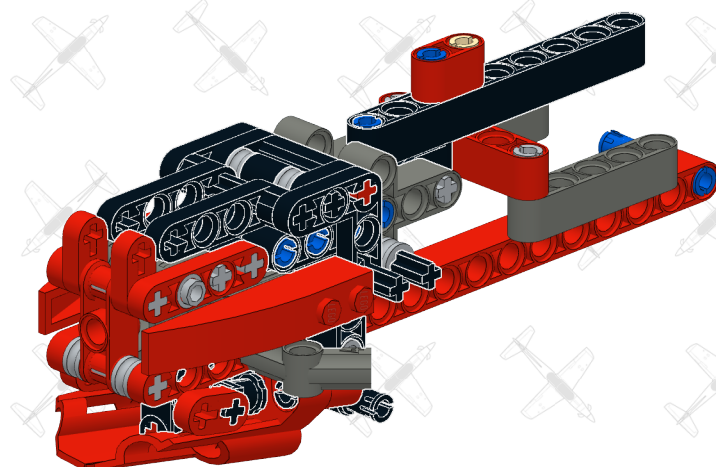
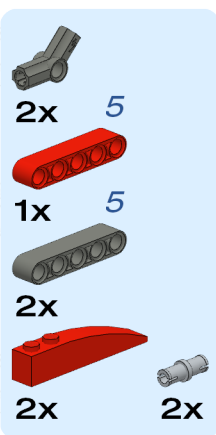
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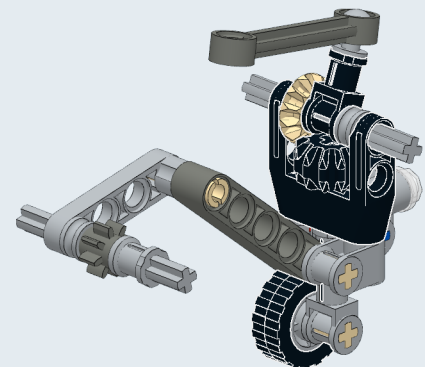
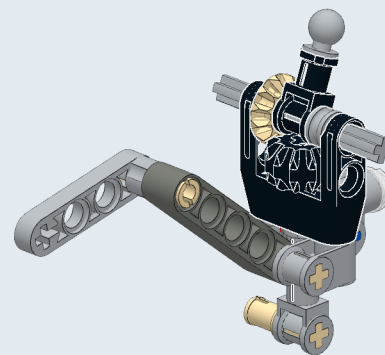
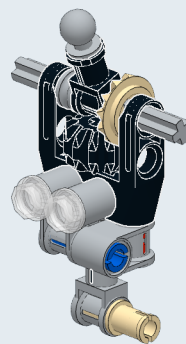
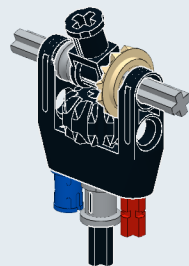
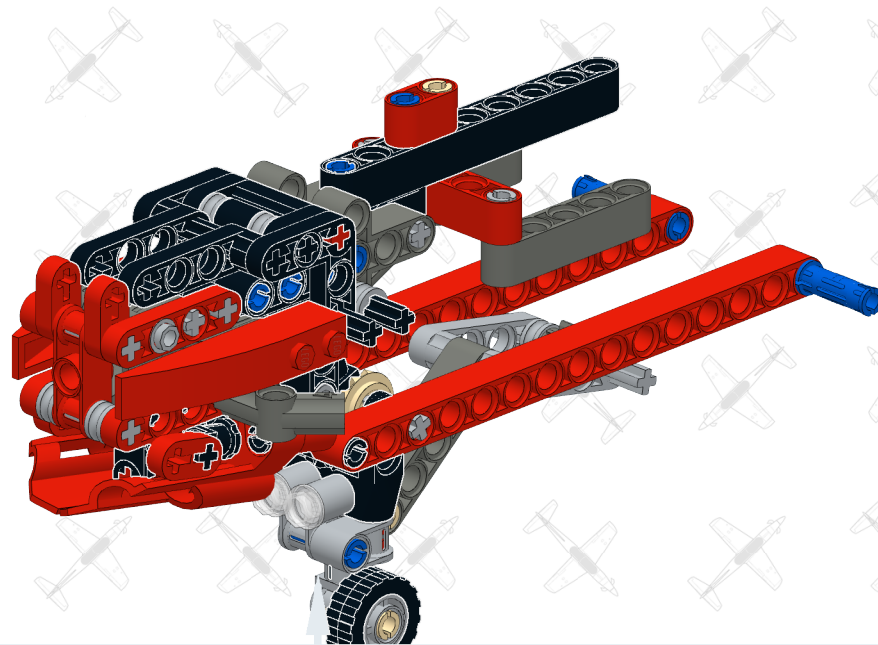
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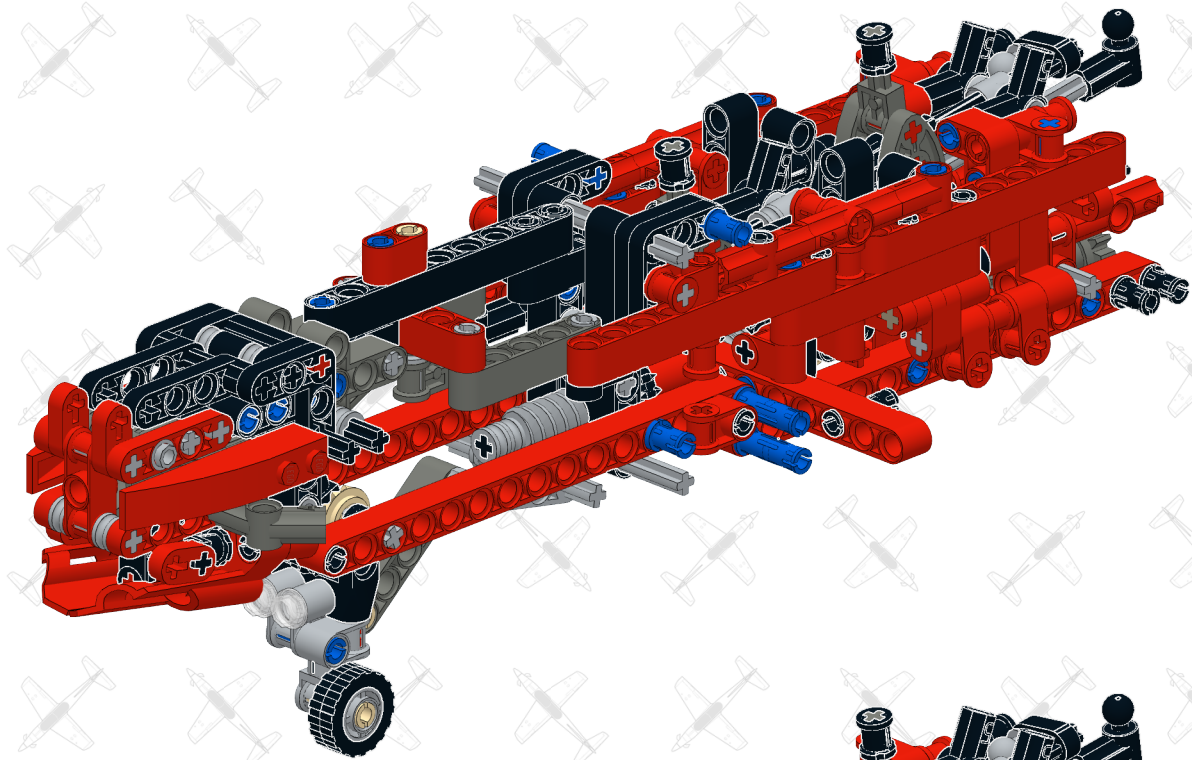
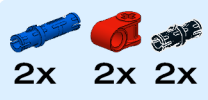
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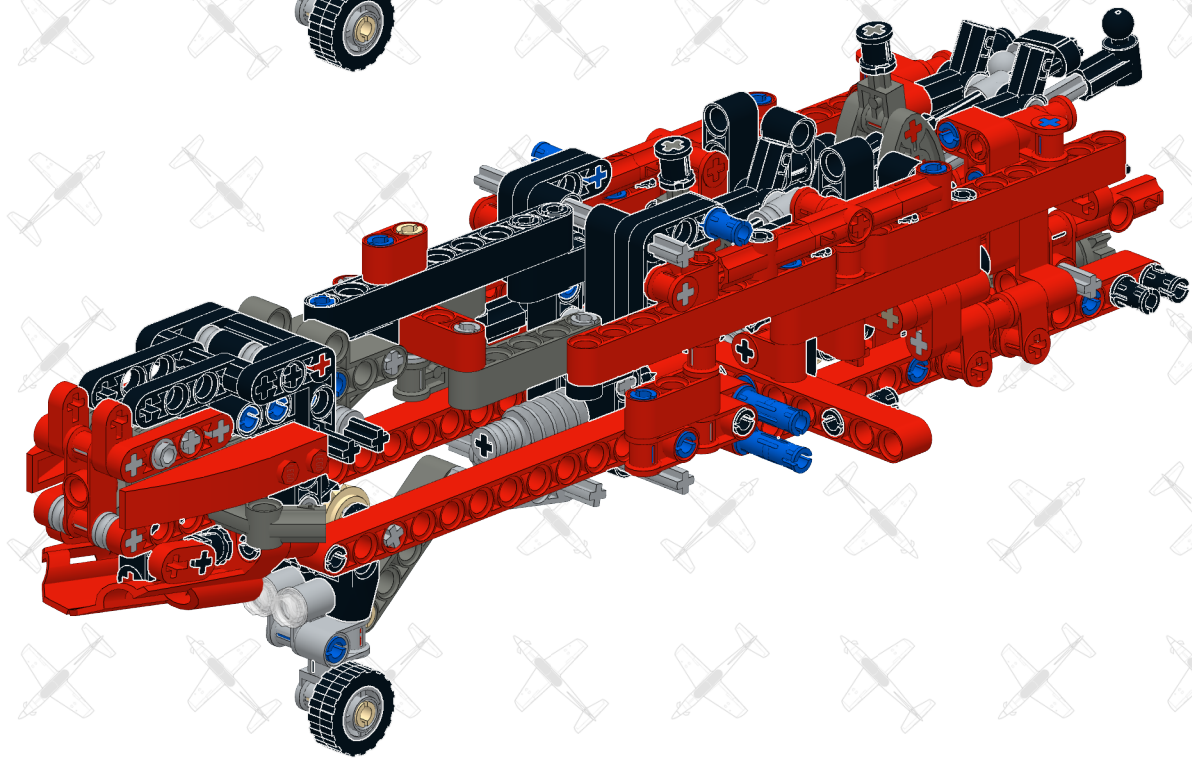
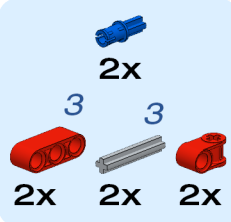
 **KHAN**
DESIGN





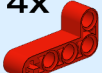
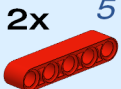

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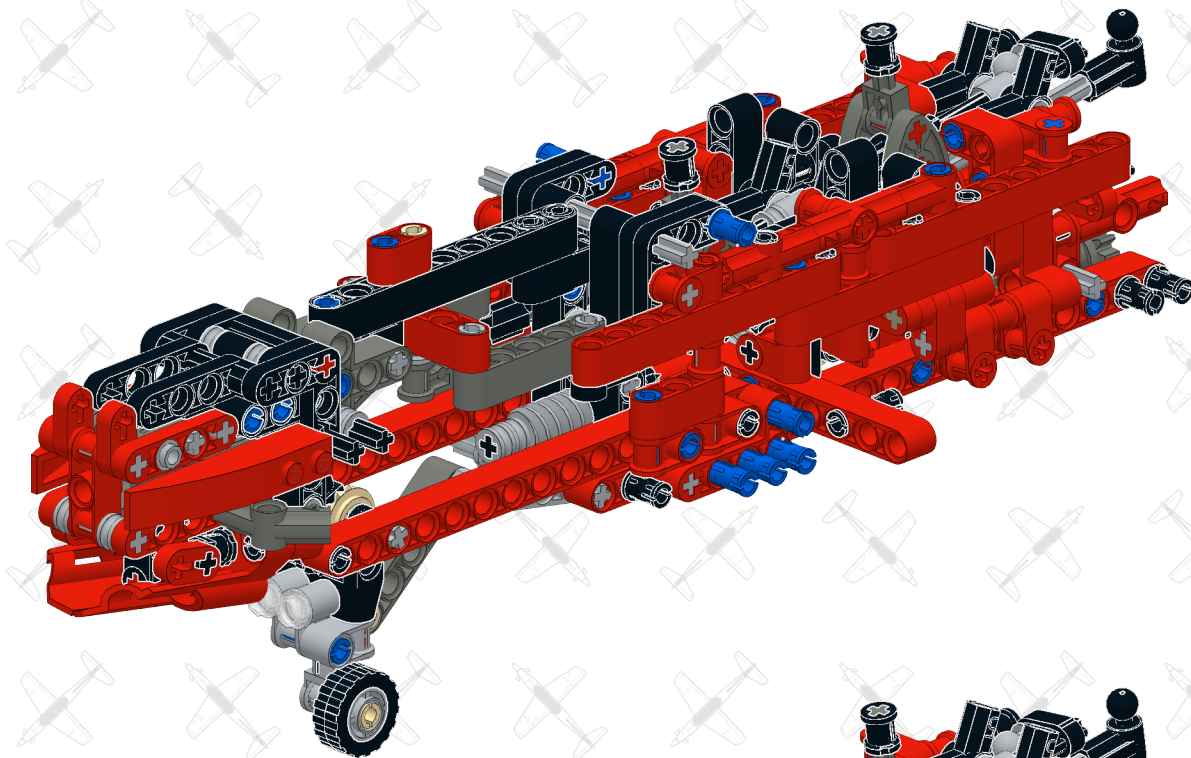


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

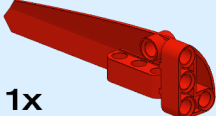






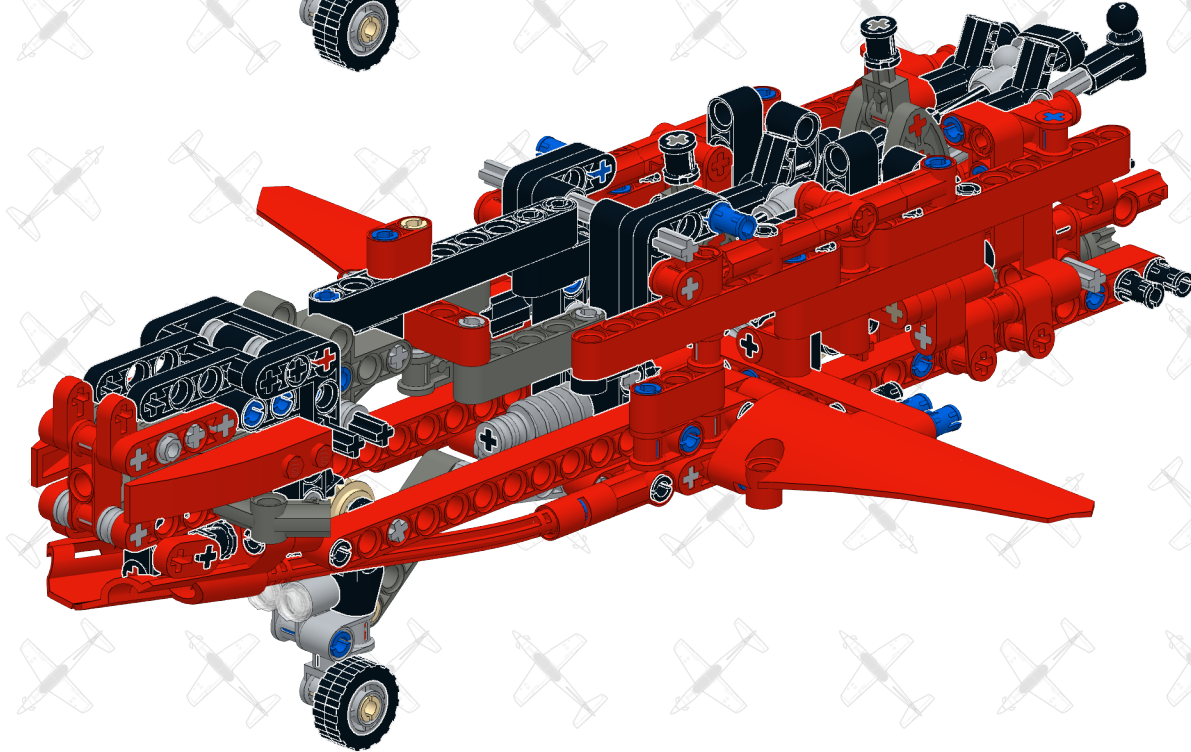
17

- 2x 
- 4x 
- 2x 
- 5 
- 2x 




18


- 2x 
- 2x 
- 4x 
- 1x 
- 11 
- 2x 
- 1x 
- 2x 



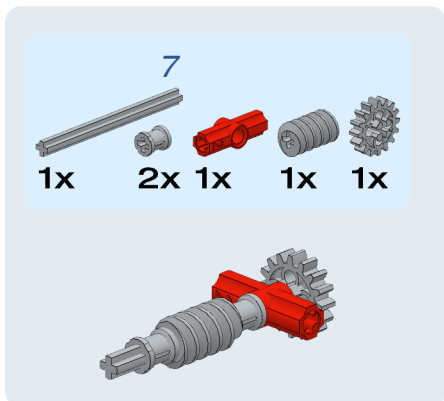
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4x



1x



20






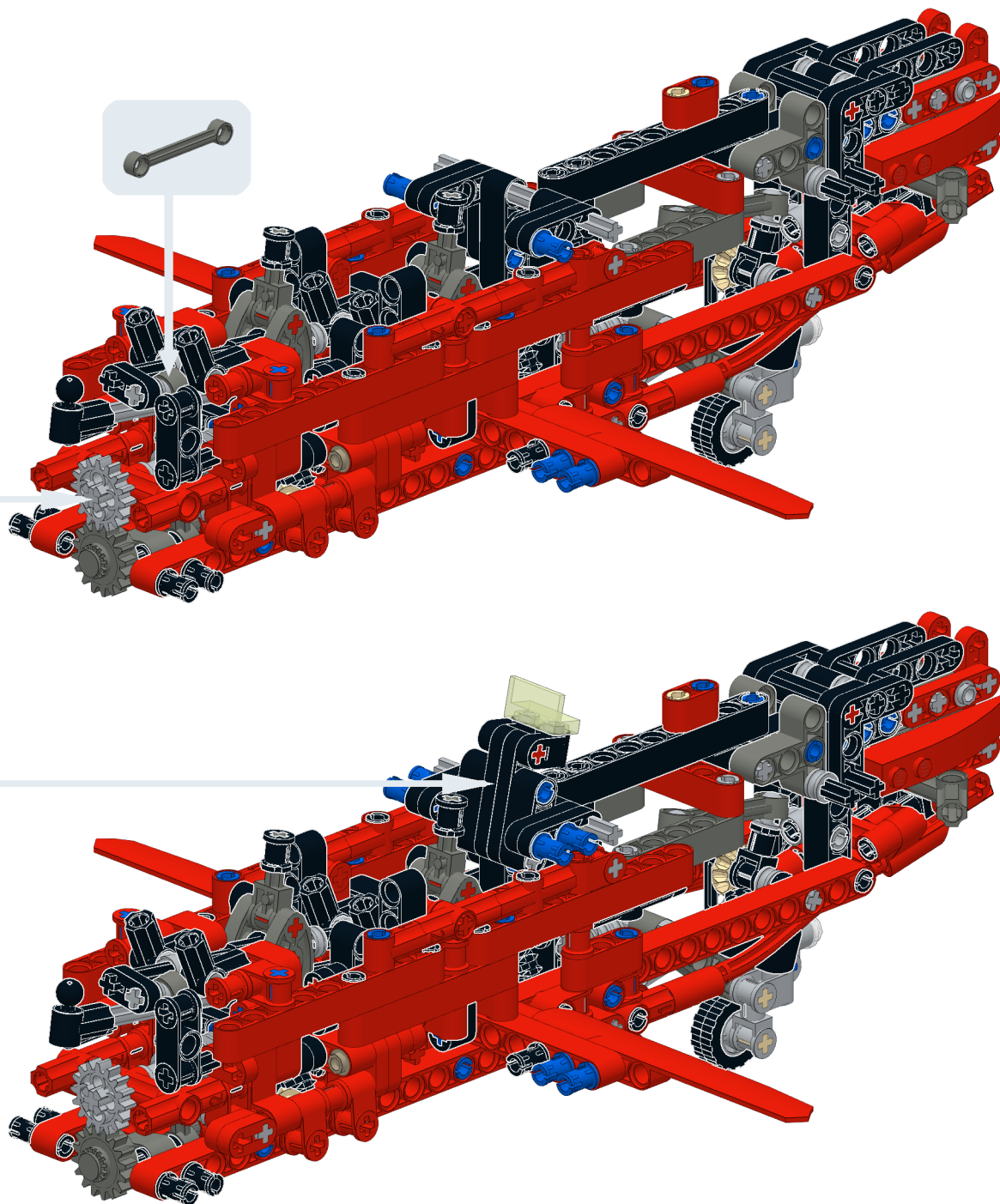
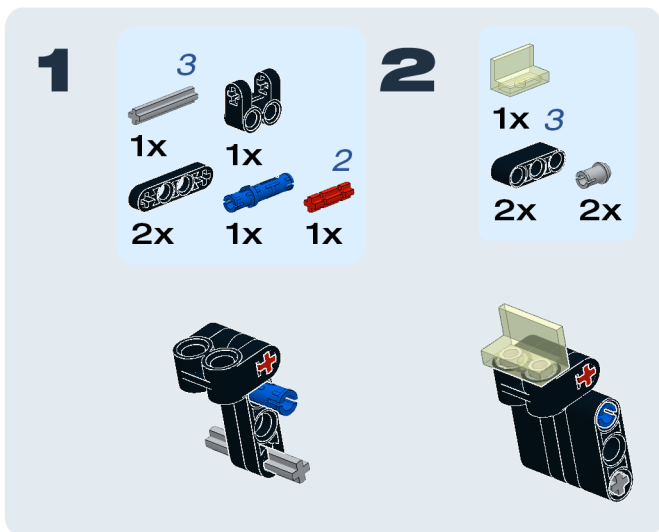
2x

1

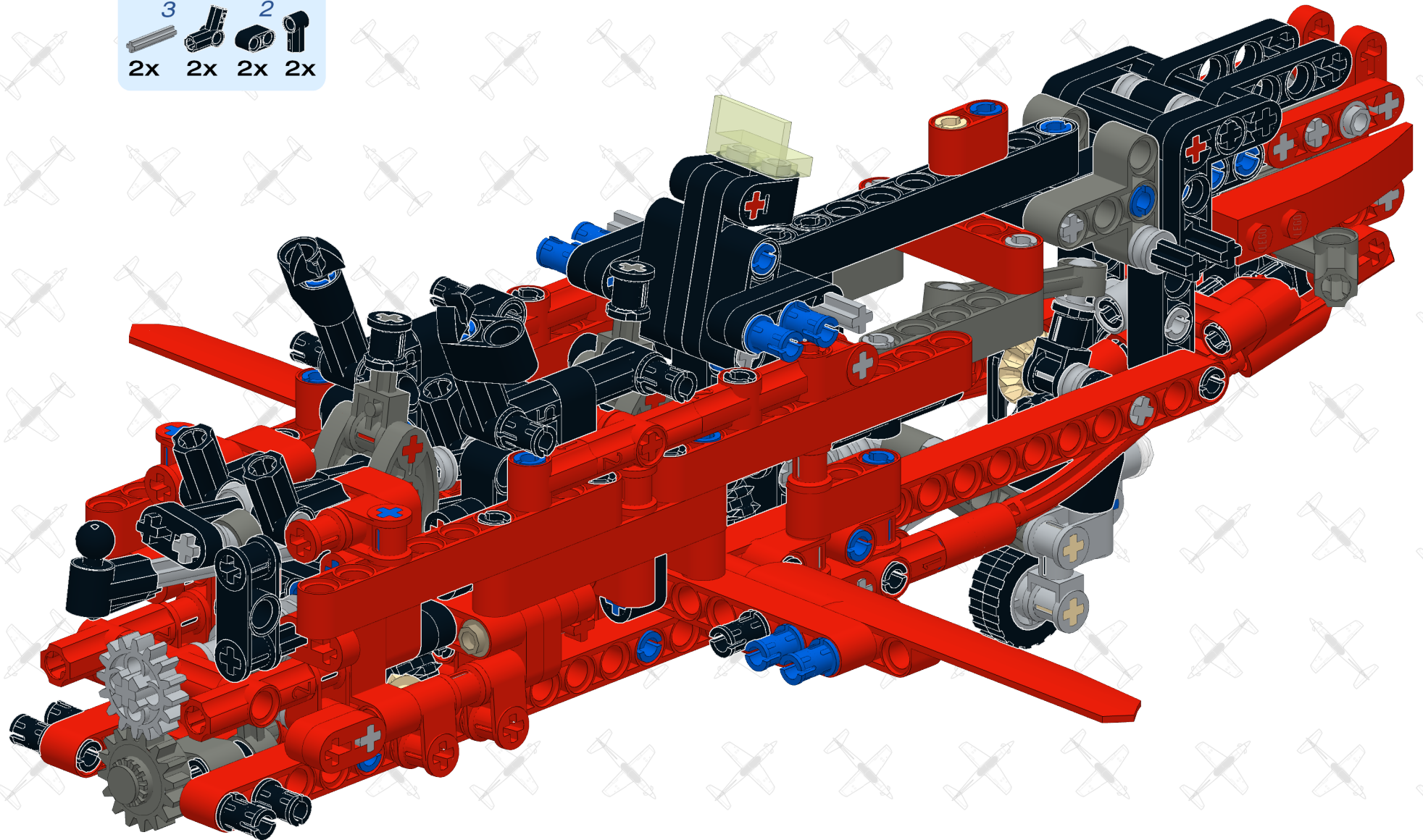
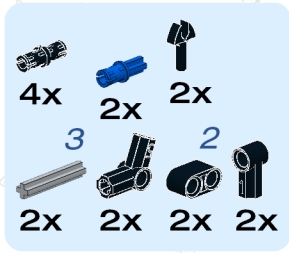
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1x
2x
1x
1x
2

2

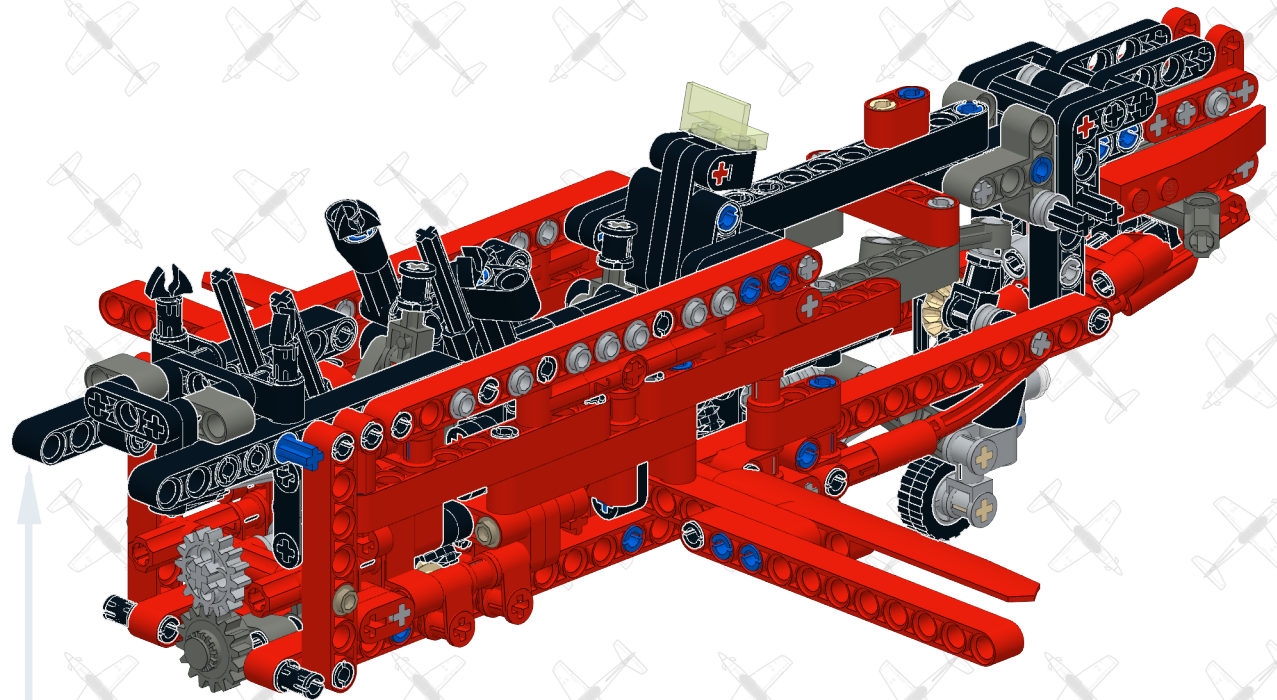
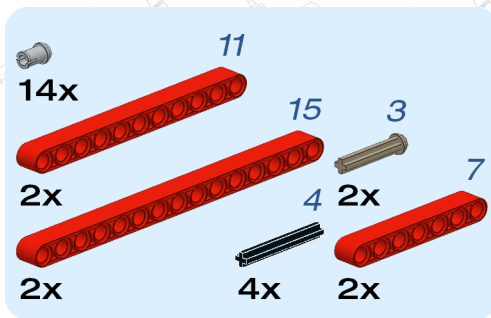

1x 3

2x

2x



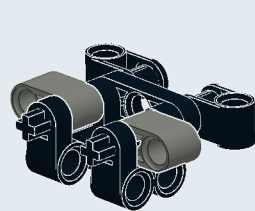
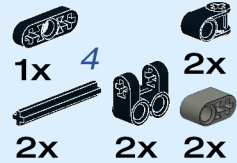
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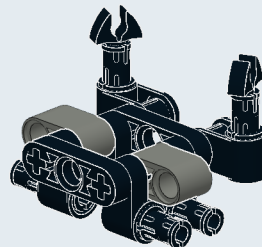
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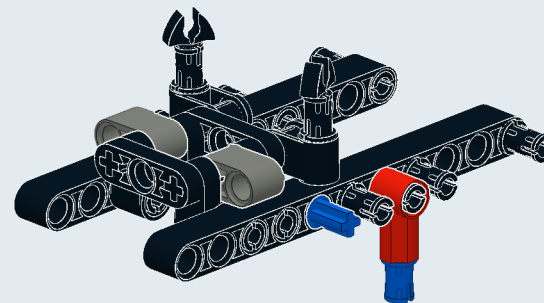
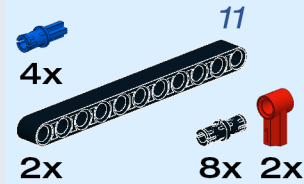
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2

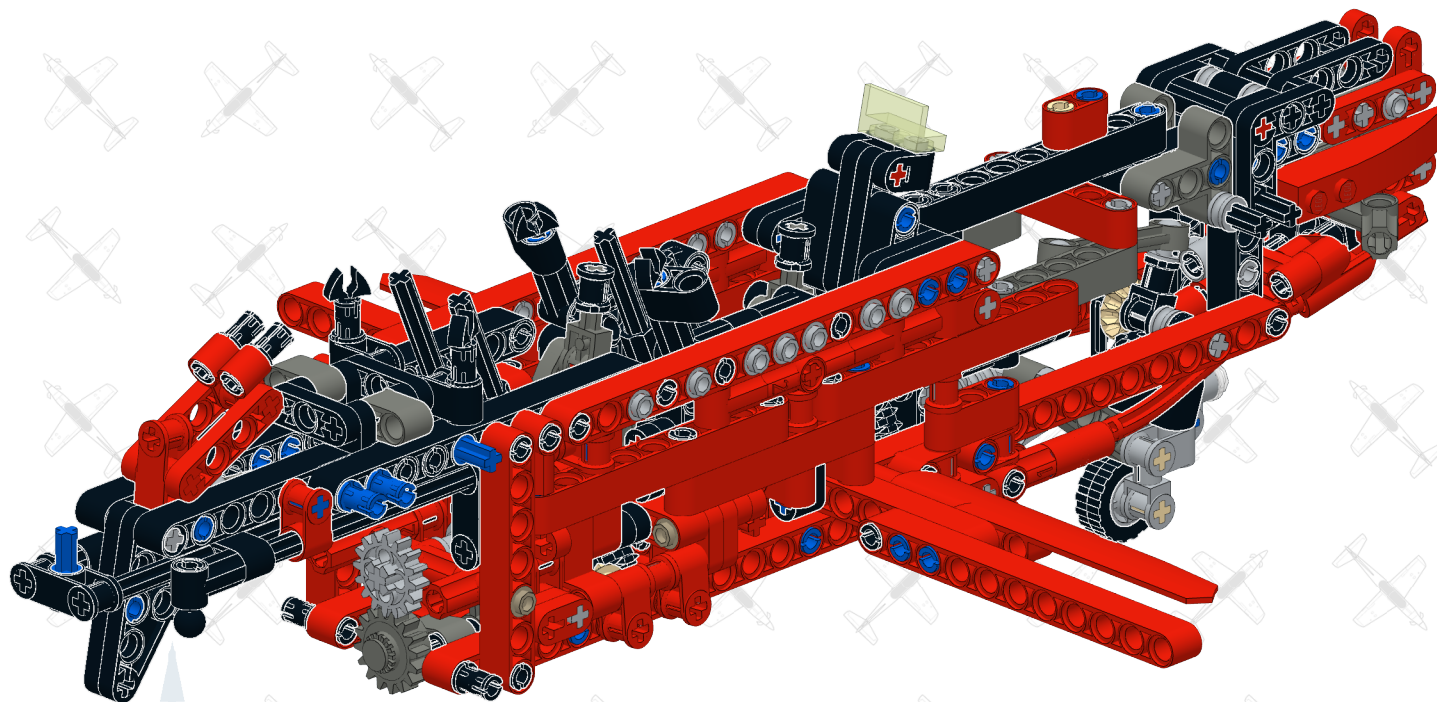


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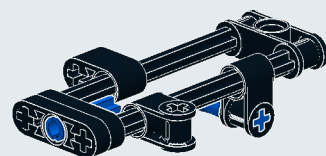
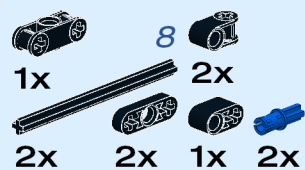


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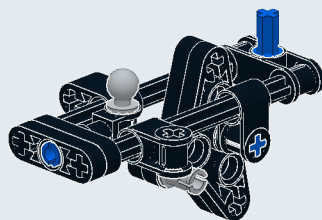
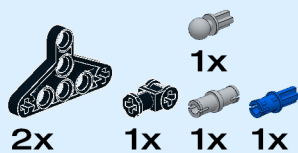
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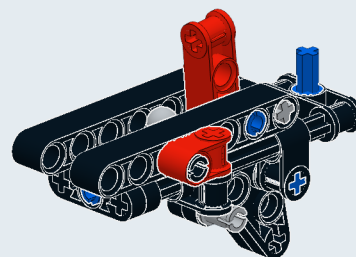
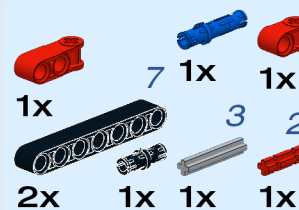
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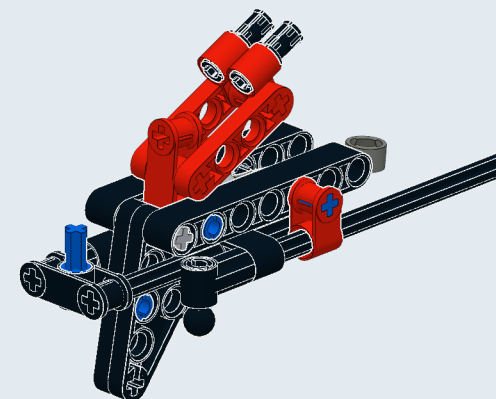
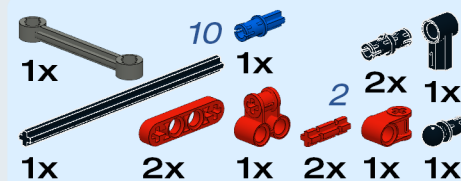
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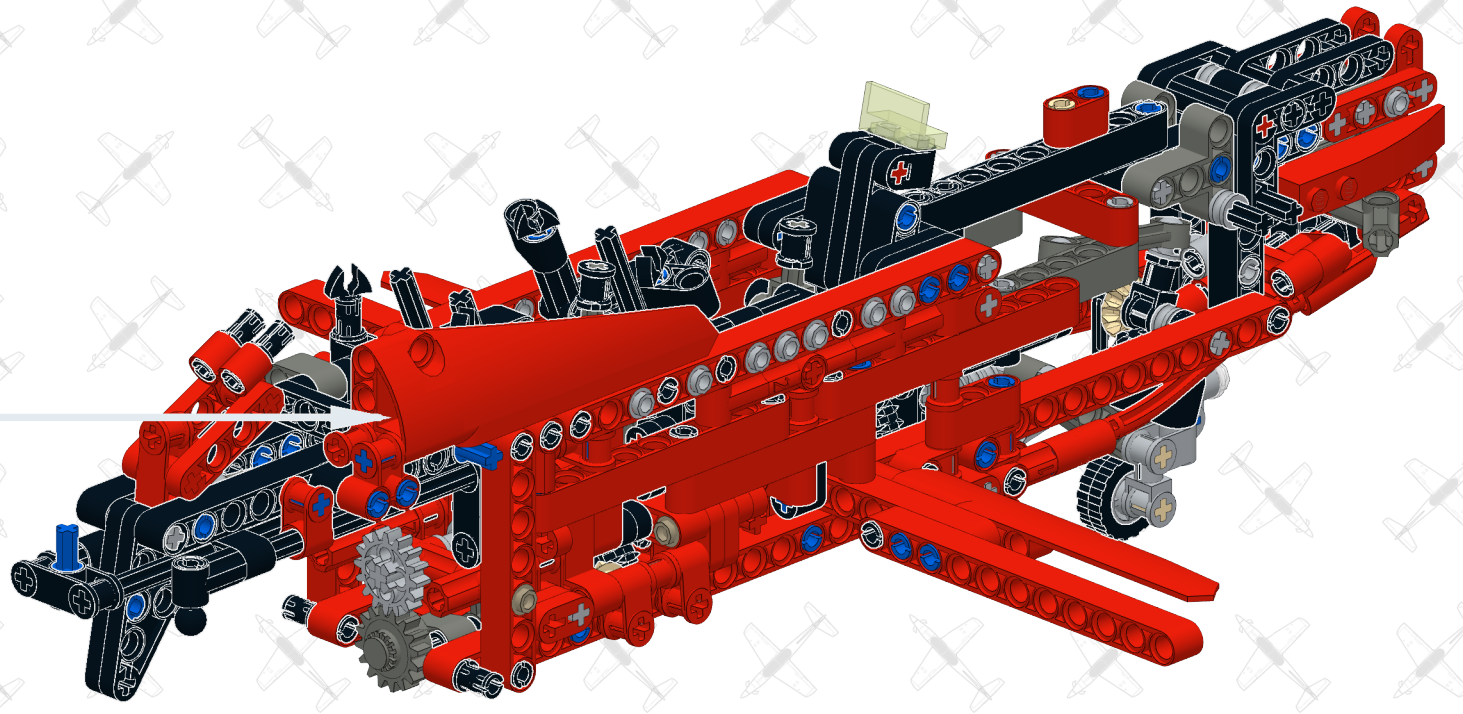
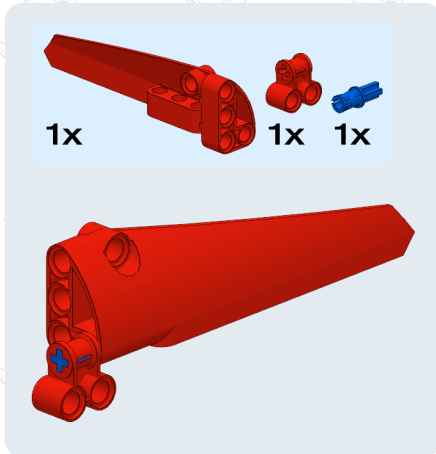
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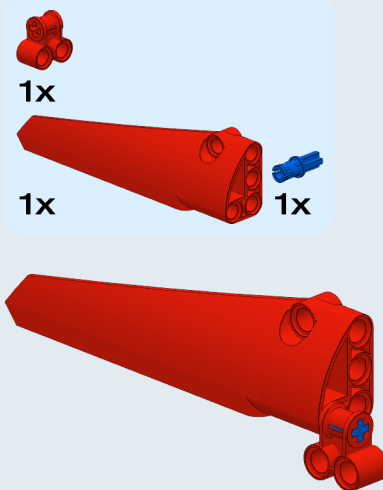
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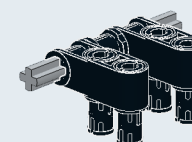
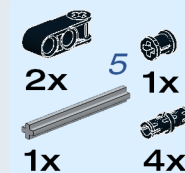
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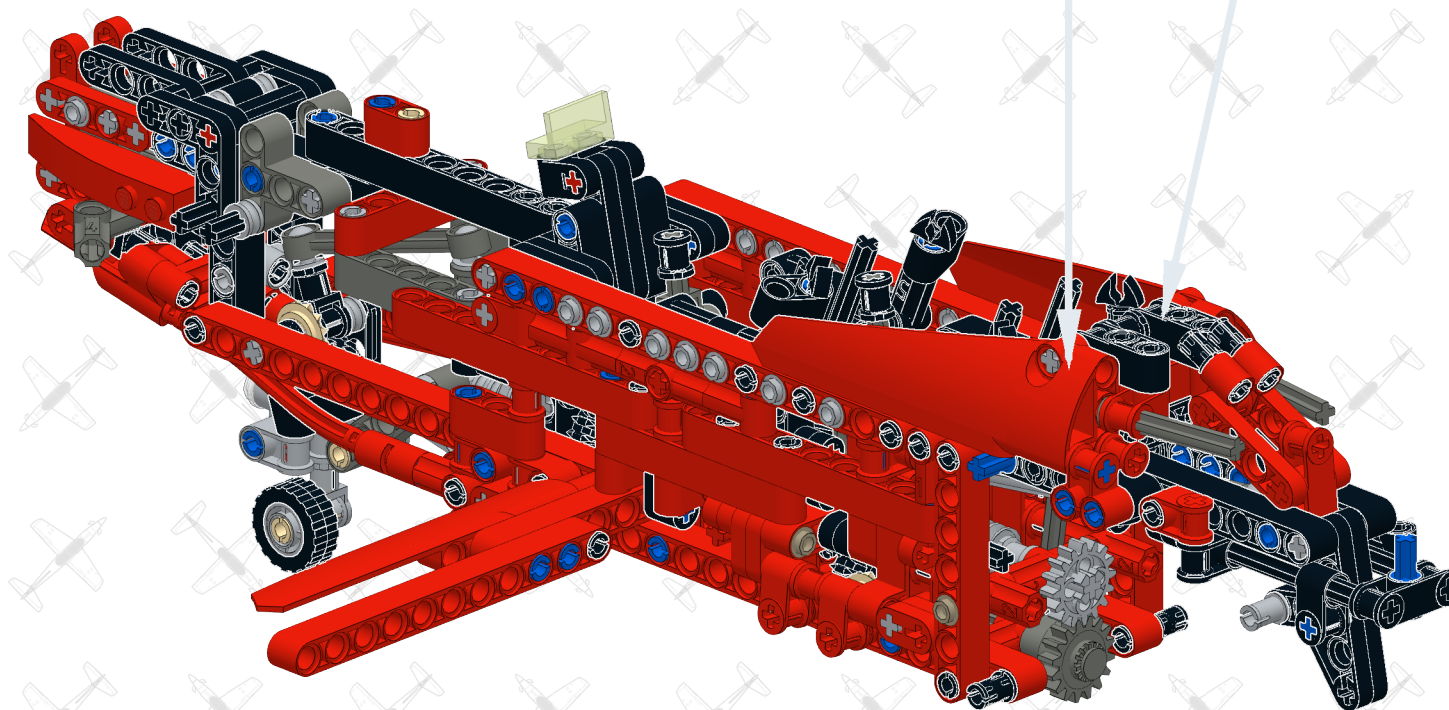
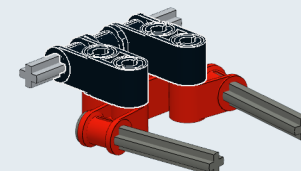
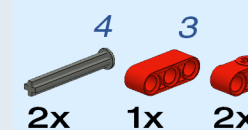
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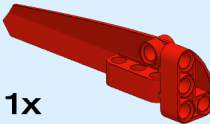
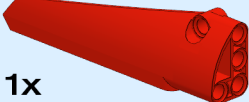





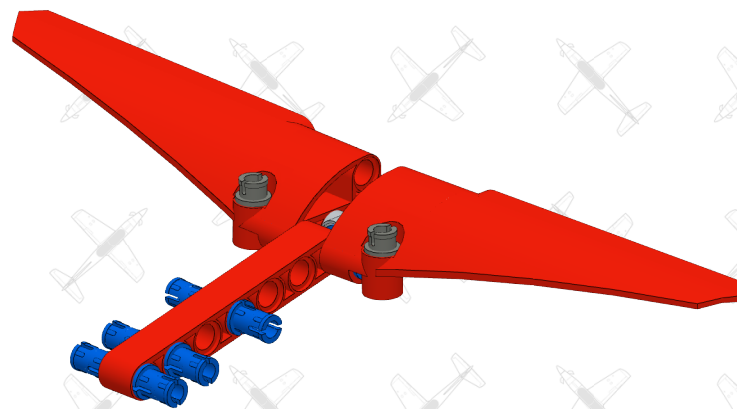
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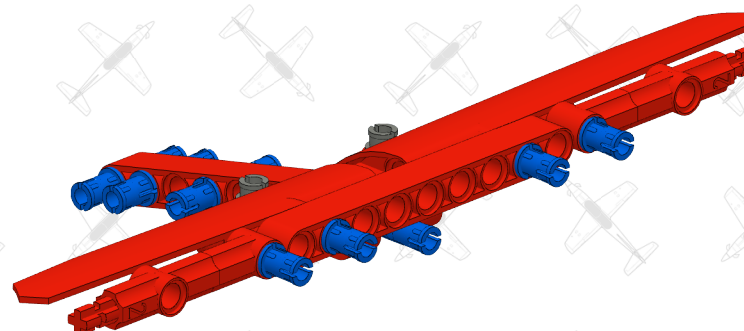
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






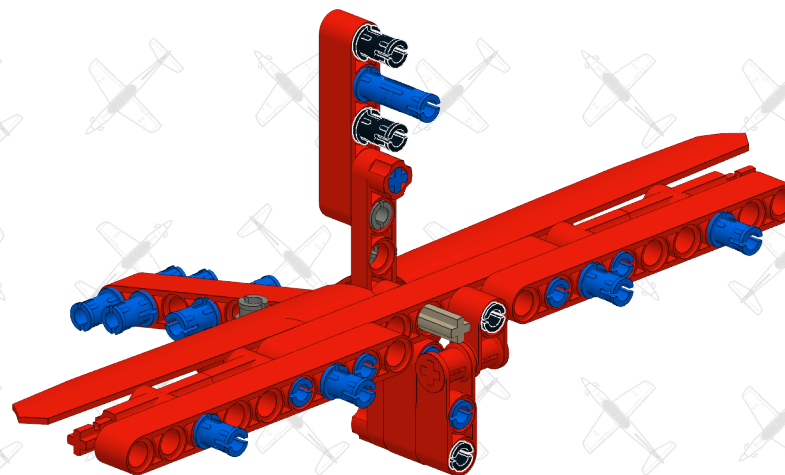
 1x
 1x
 1x
 5x
 1x
 2x



2
4x
2x
9
1x
4x
2x

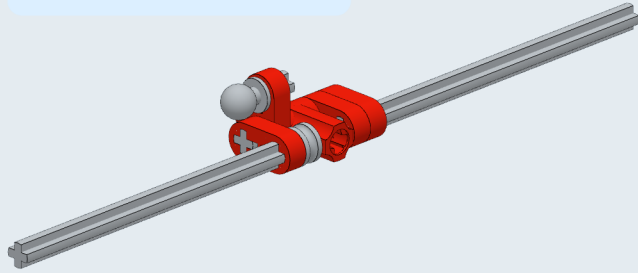
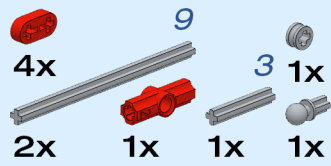


		
1x 3	1x	1x
		
1x	4x	1x 3
		
2x	2	1x 9
		
1x	2x	6x

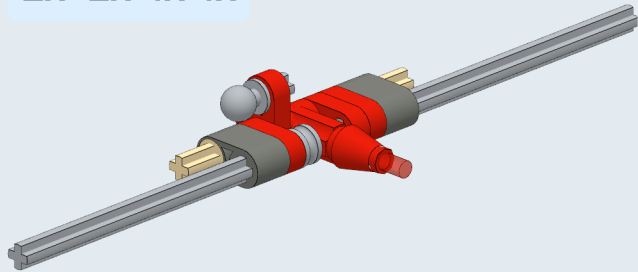
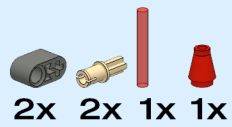


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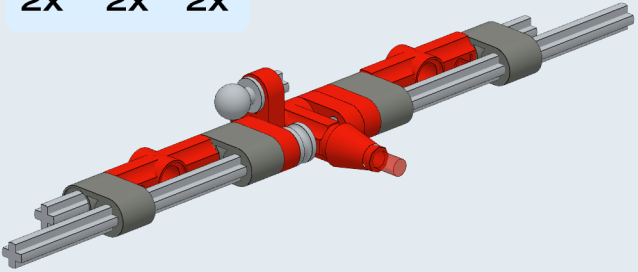
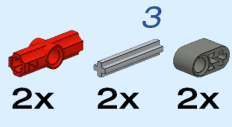
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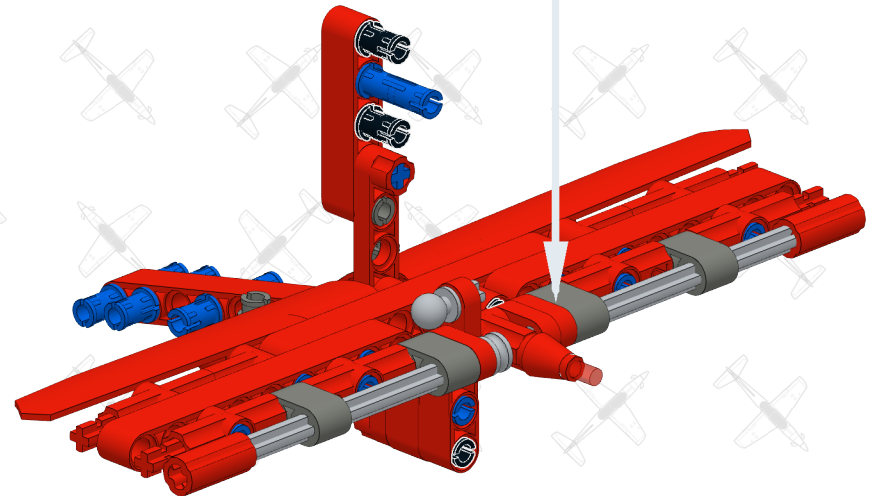
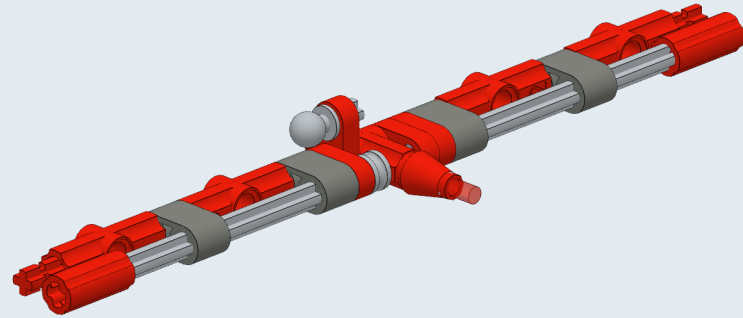
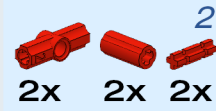
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3

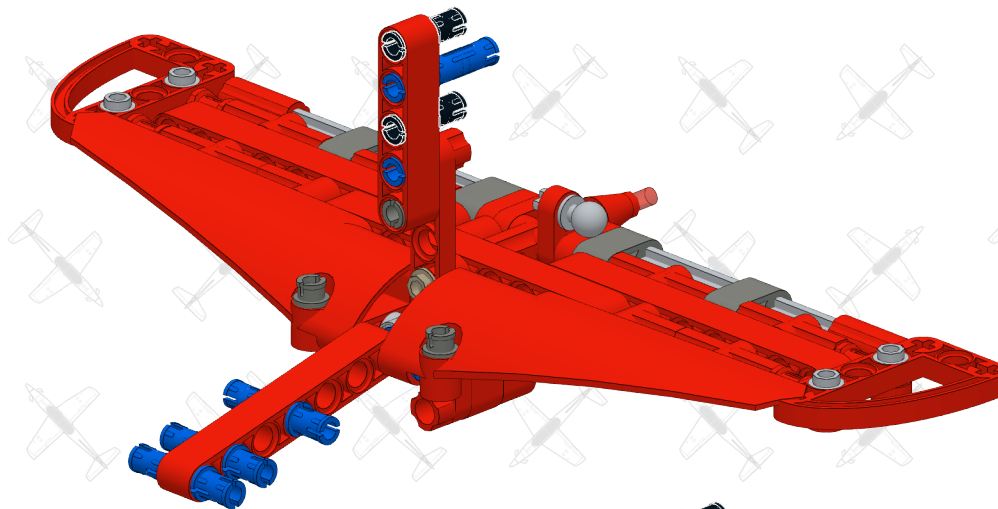


4



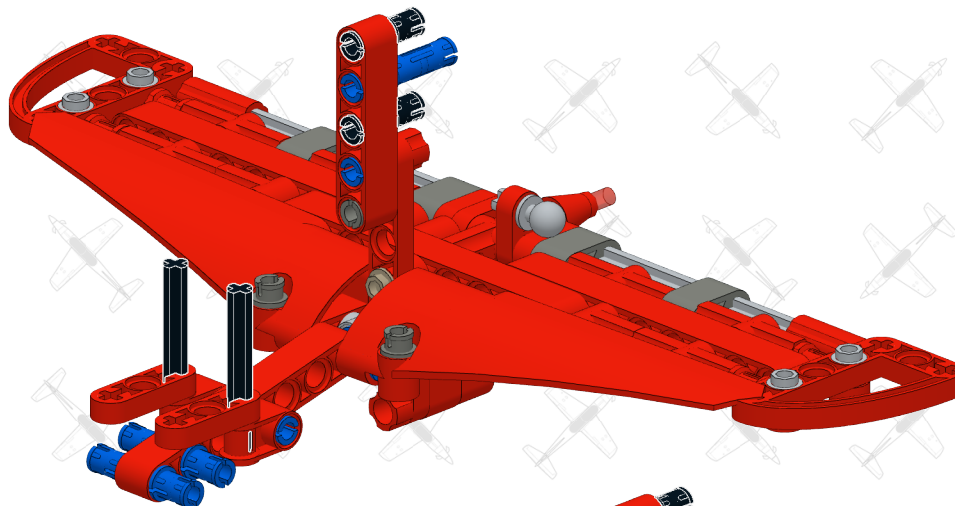
5

- 4x
- 4x
- 2x



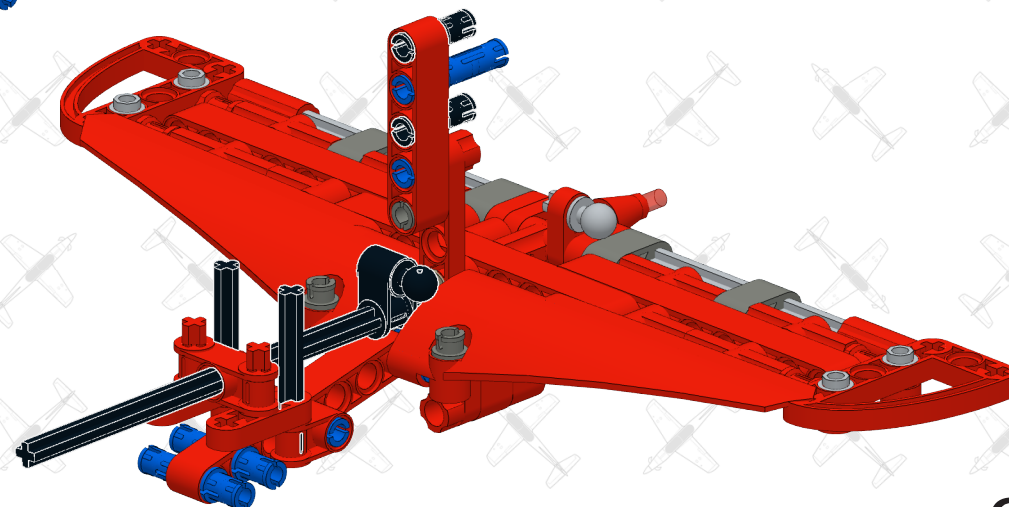
6

- 2x
- 2x 4
- 2x
















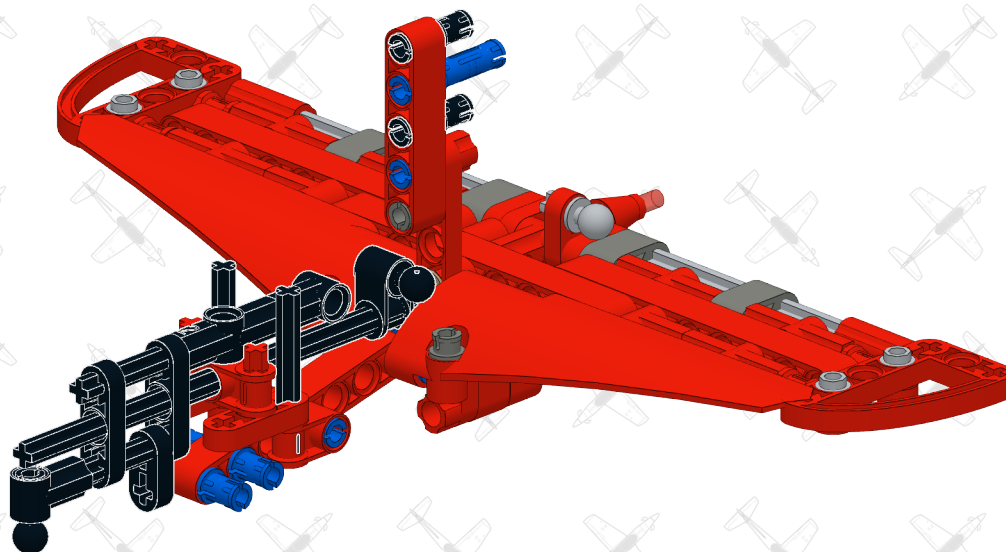
7

- 1x
- 1x
- 2
- 2x
- 1x
- 12
- 1x







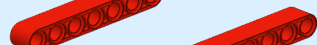




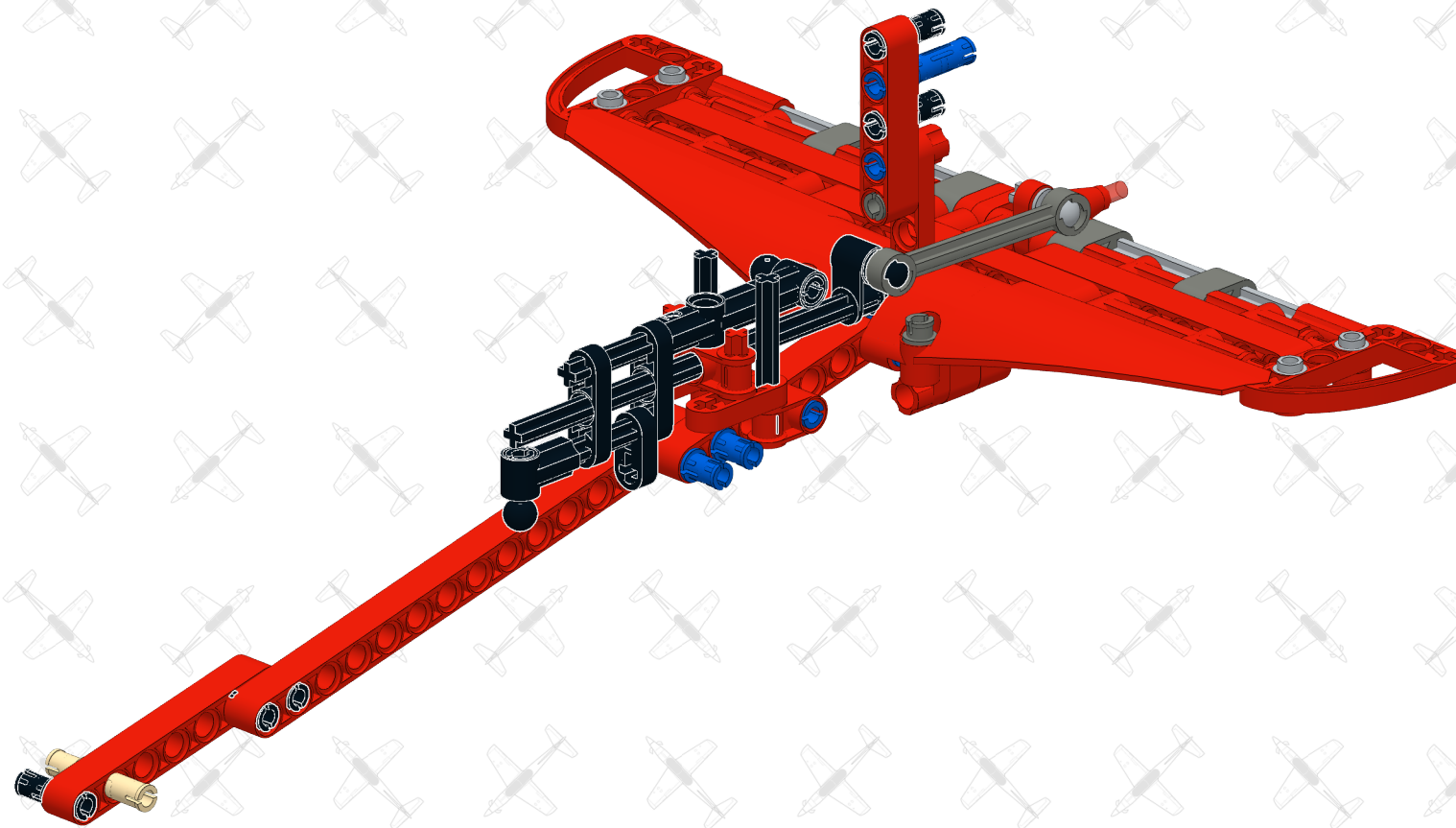
8

- 1x 
- 1x 
- 2x 
- 1x 
- 1x 
- 4 
- 2 
- 2x 
- 1x 
- 1x 
- 2x 
- 2 
- 1x 

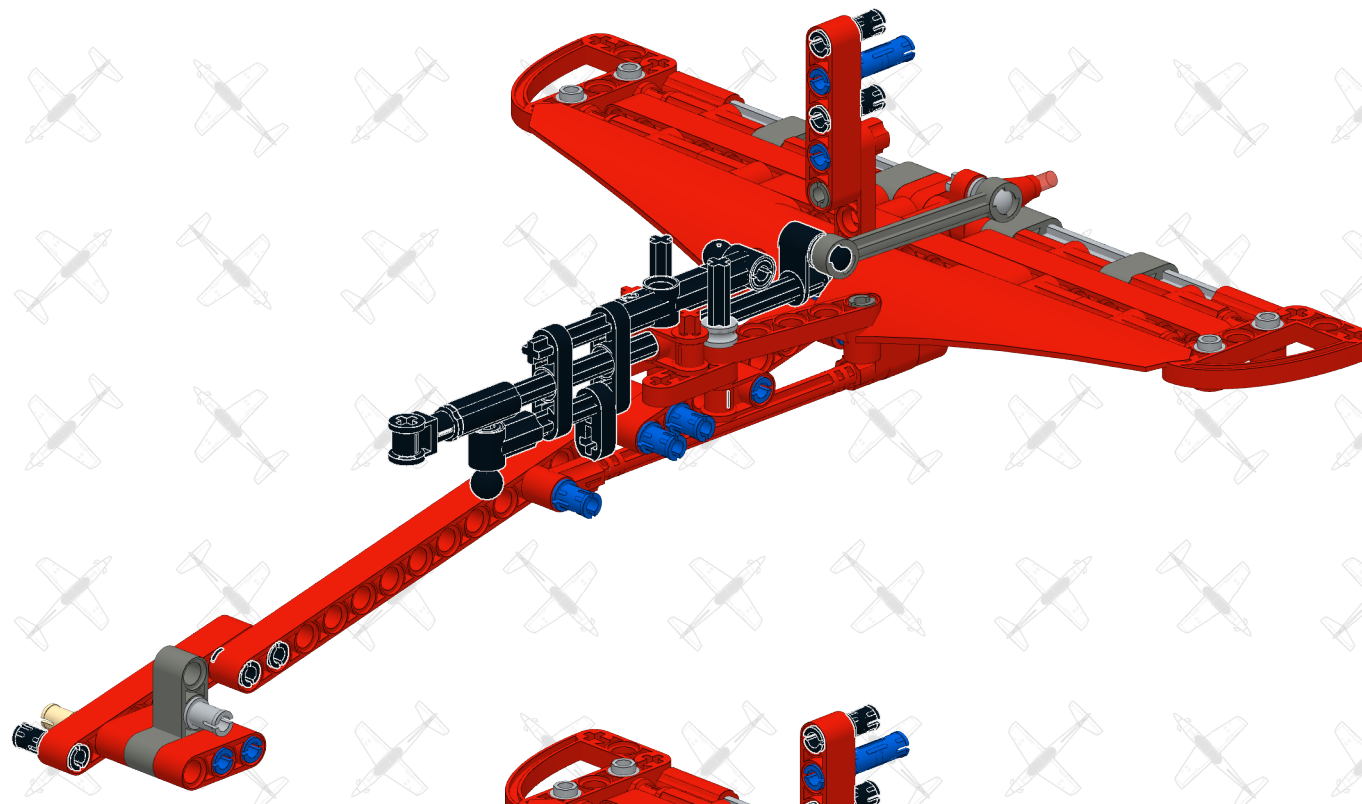
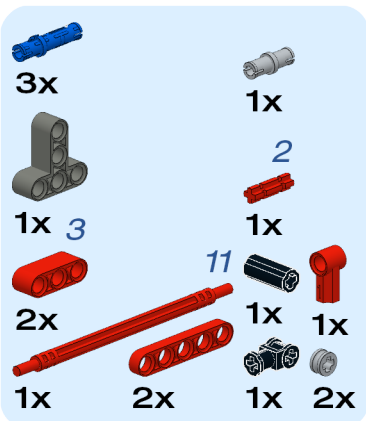


9

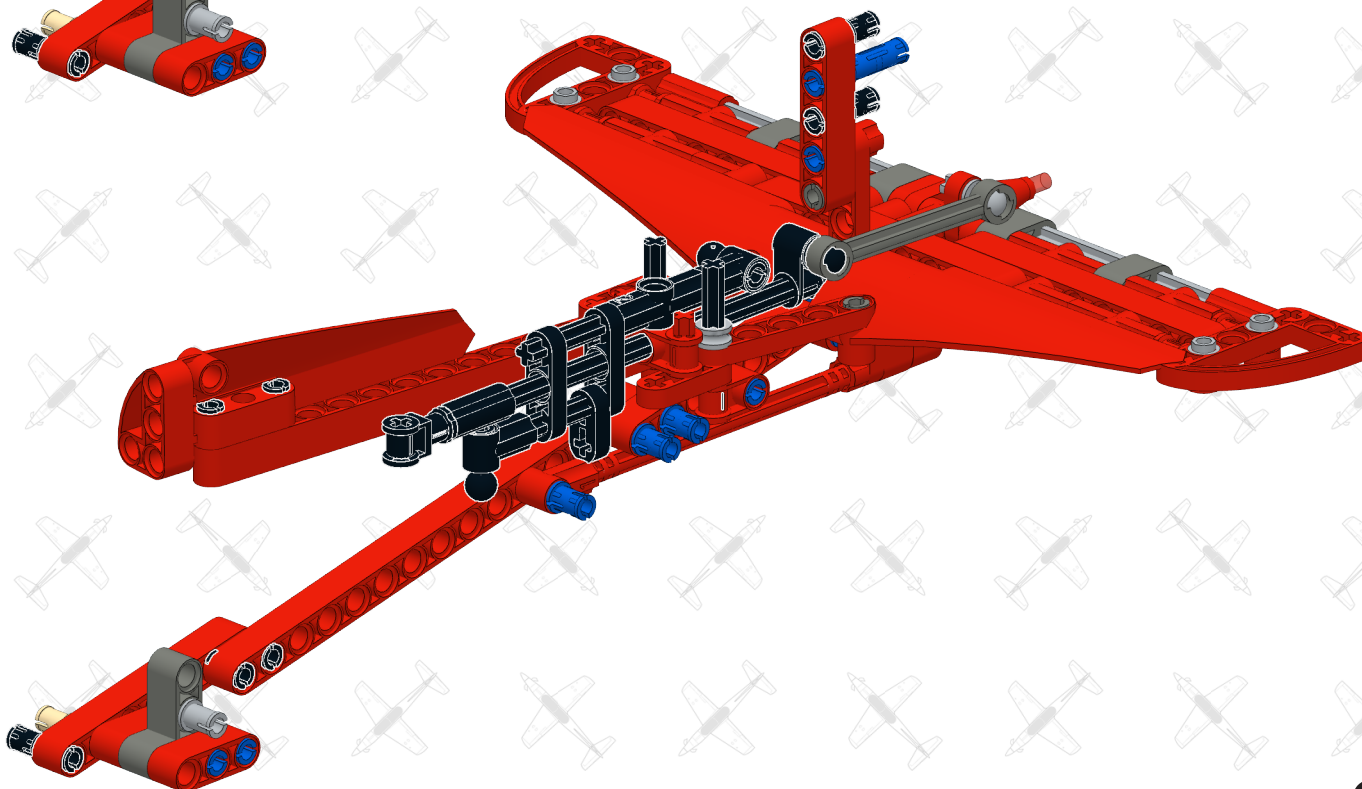
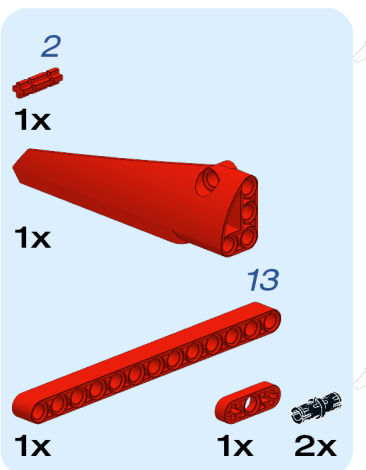
- 1x 
- 3x 
- 1x 
- 7 
- 15 
- 1x 
- 1x 
- 1x 
- 1x 



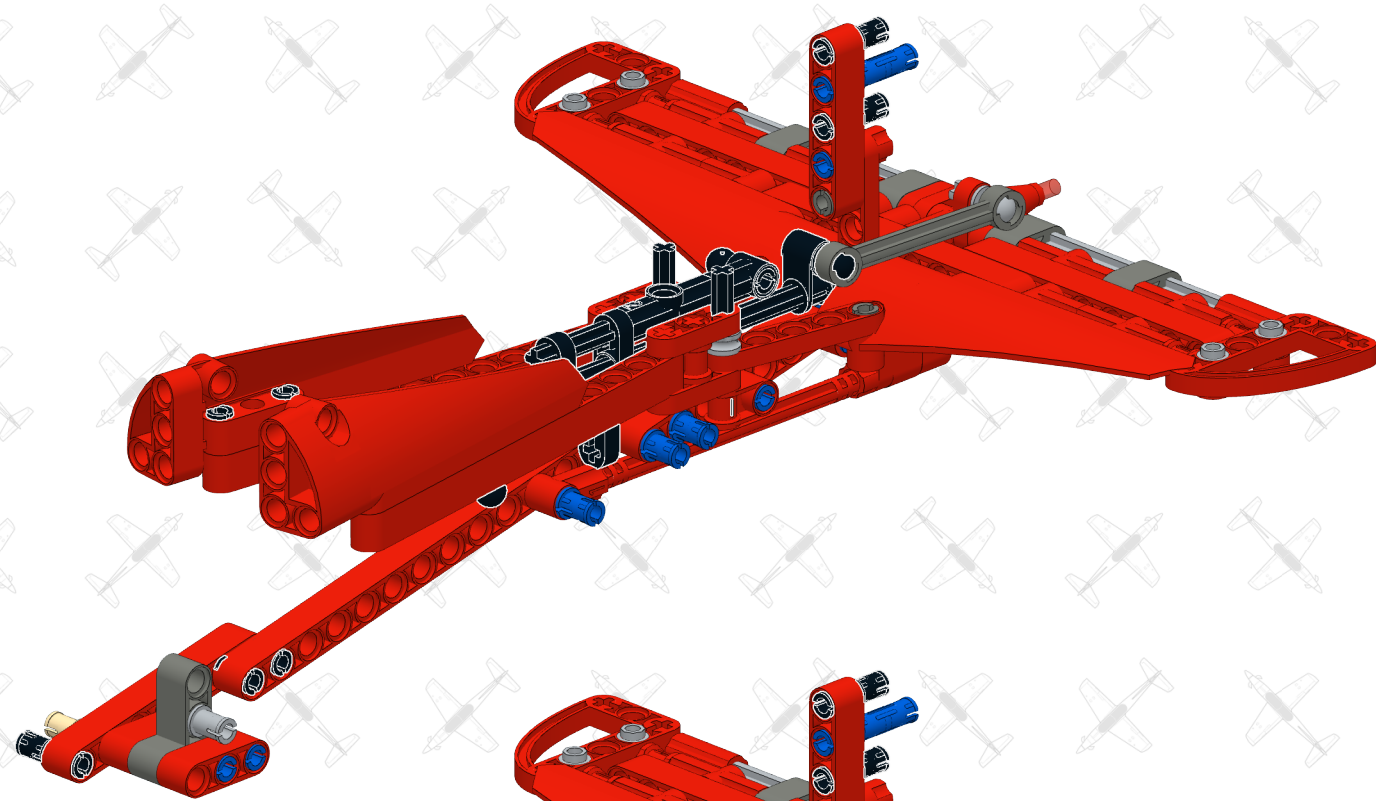
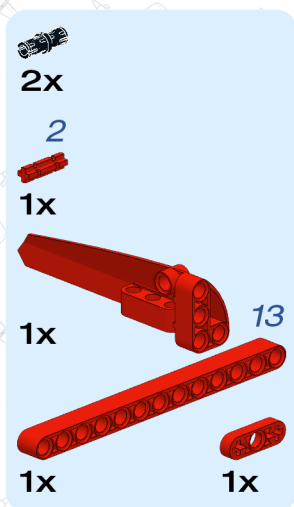
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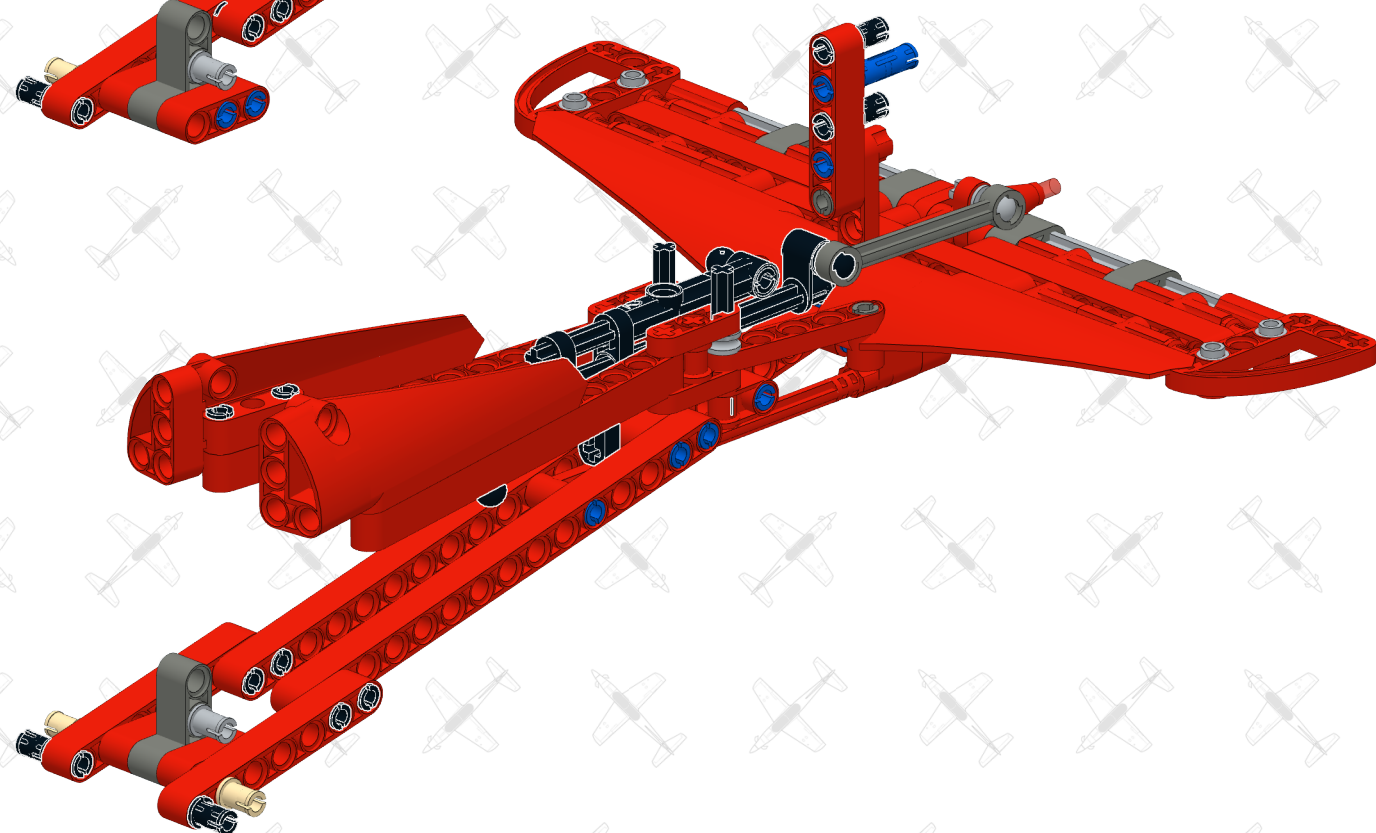
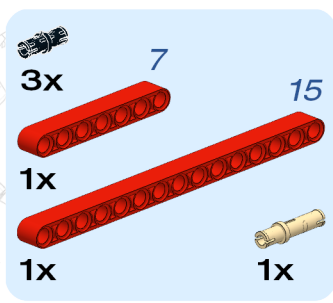
11



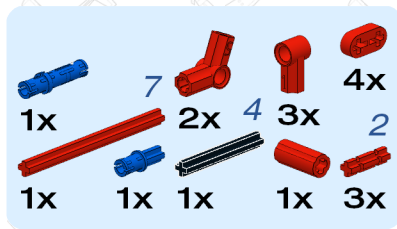
12



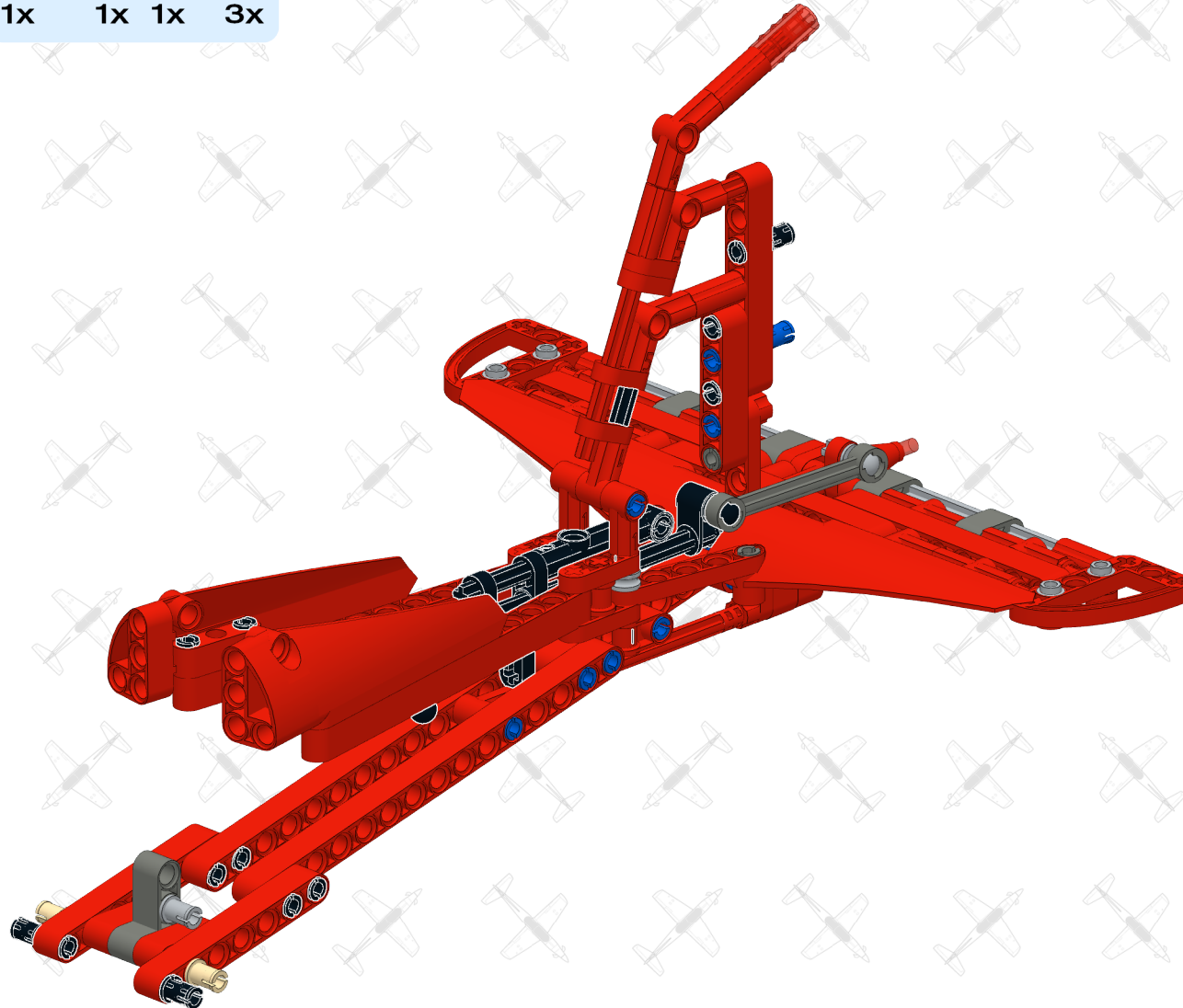
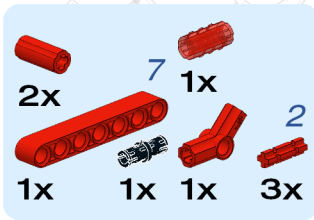
13



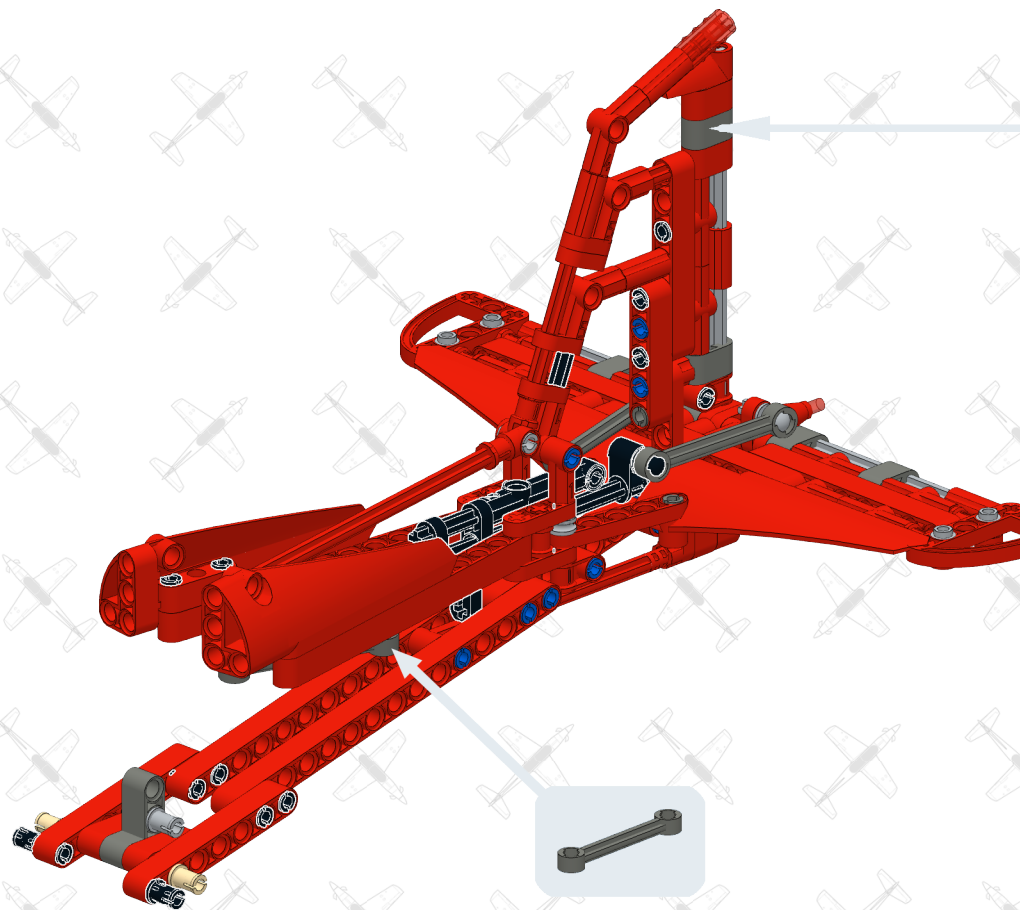
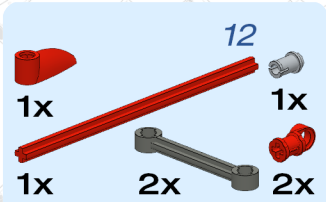
14



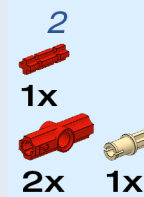
15



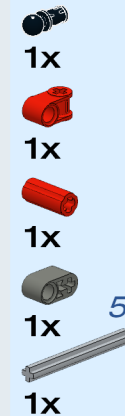
16



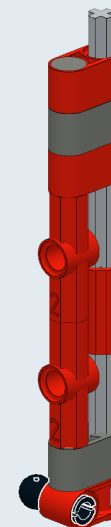
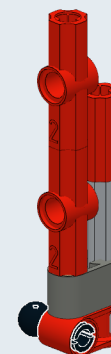
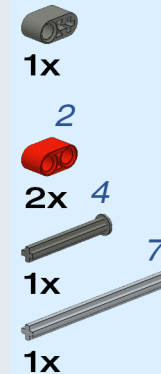
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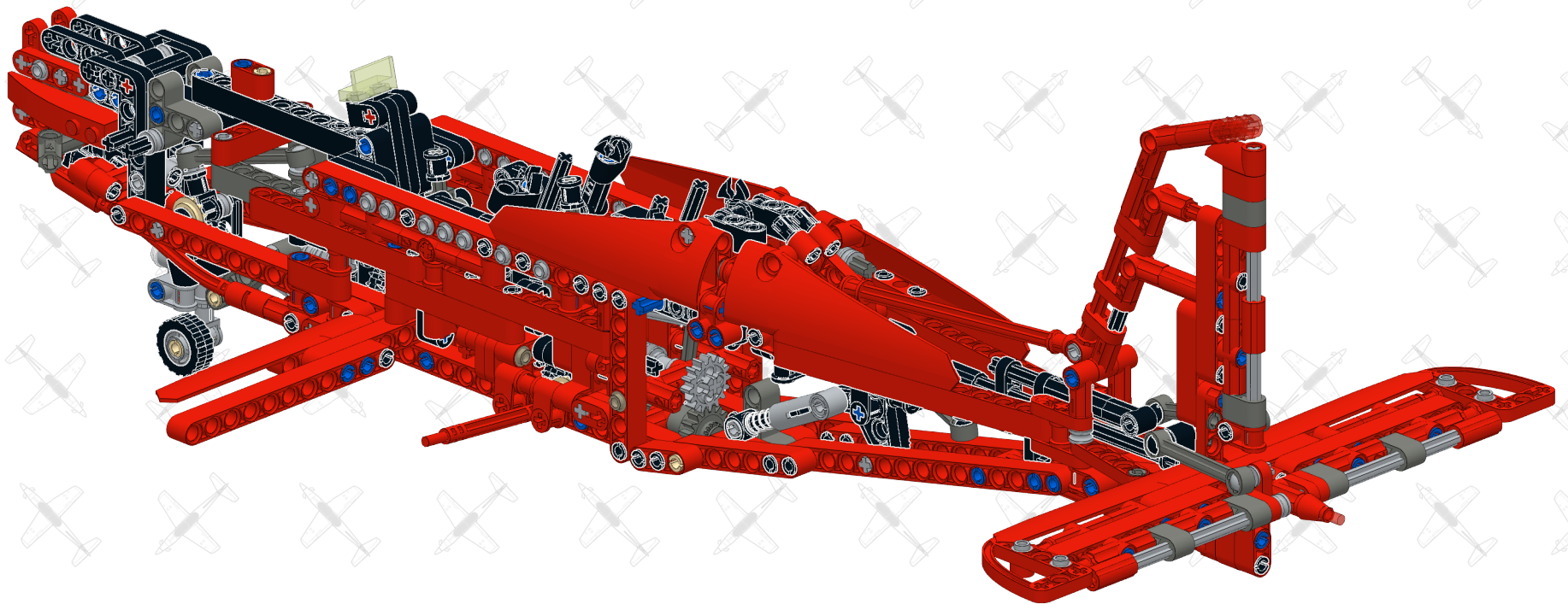
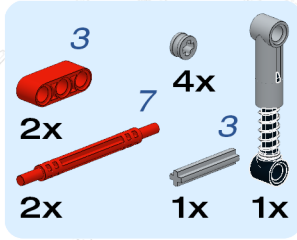
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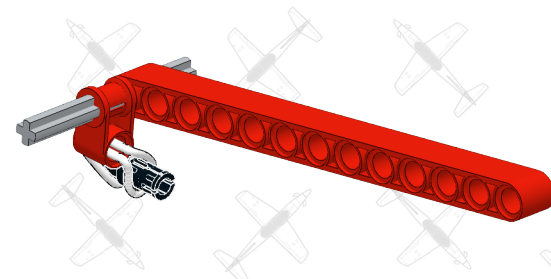
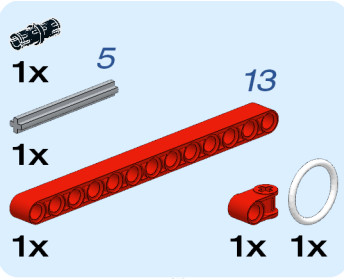
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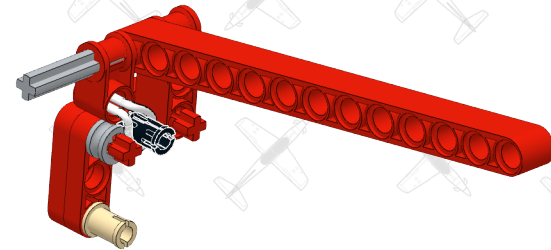
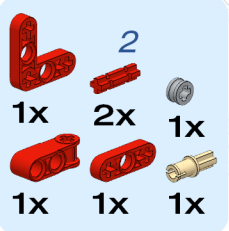
26



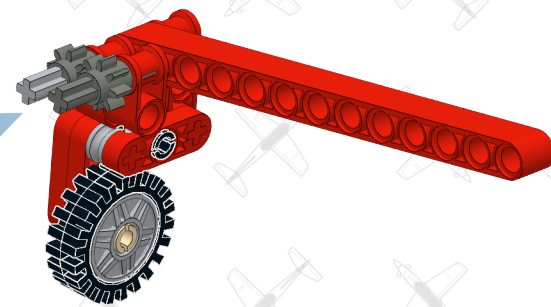
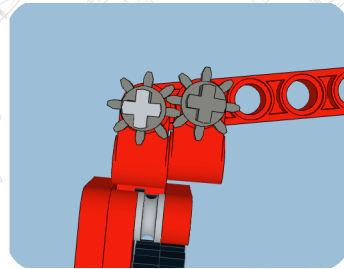
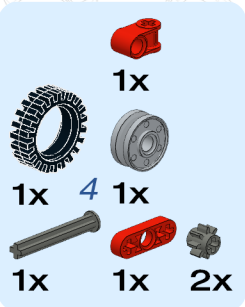
1



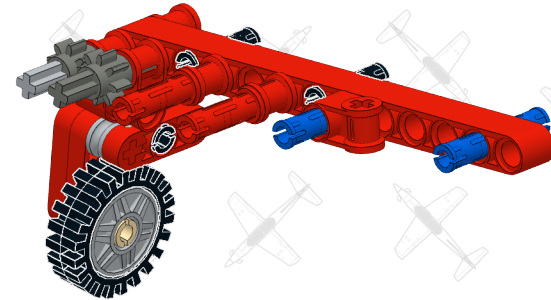
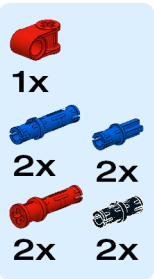
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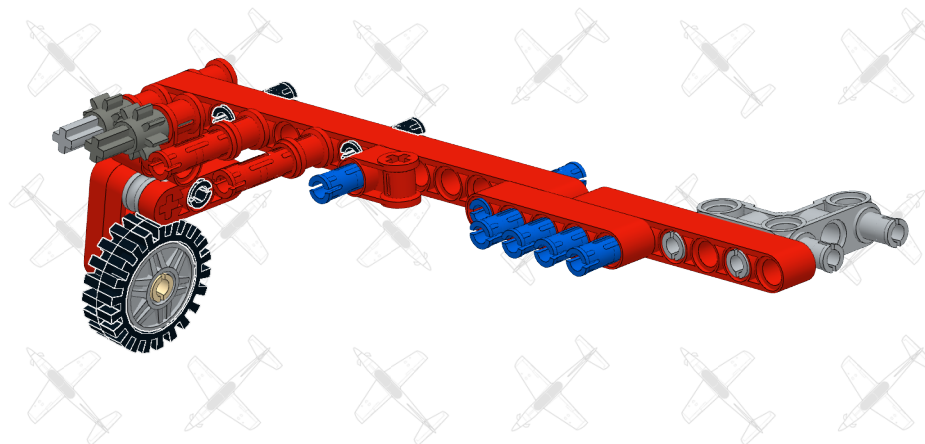
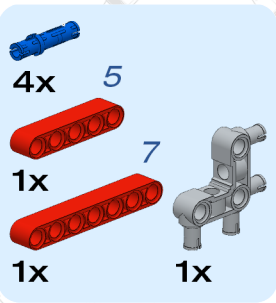
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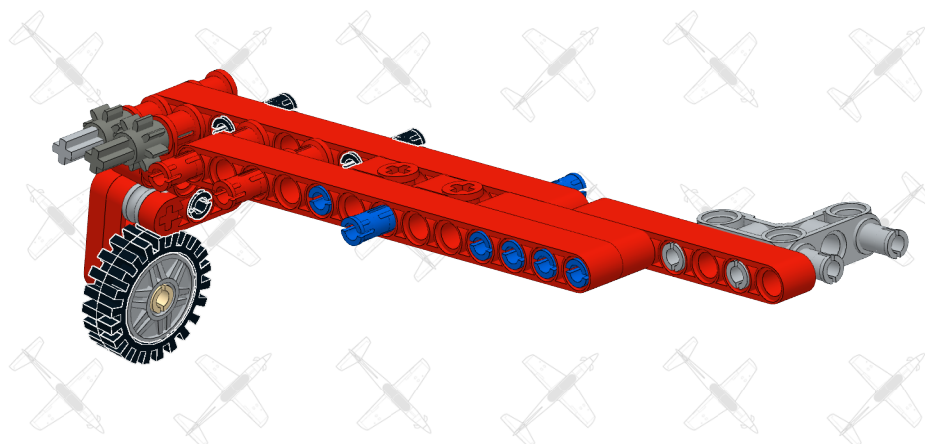
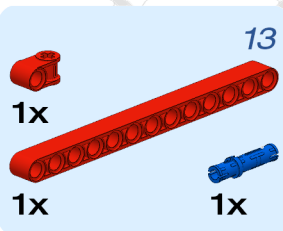
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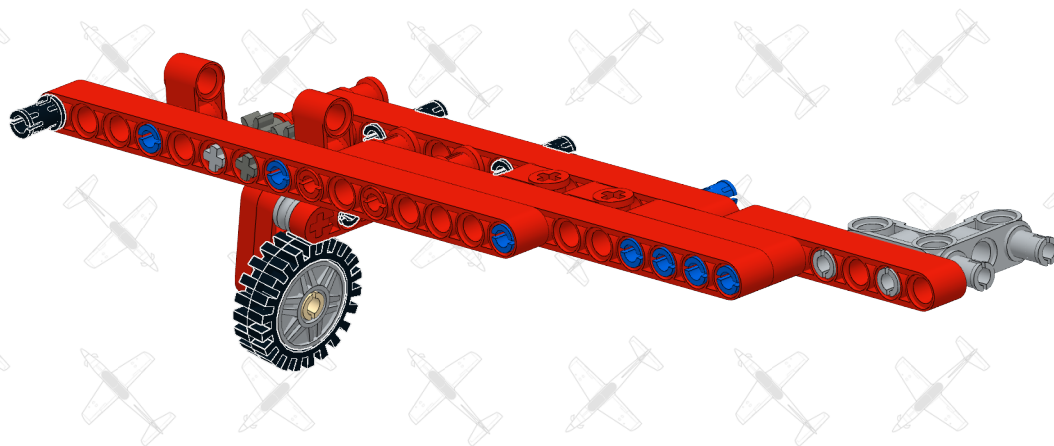
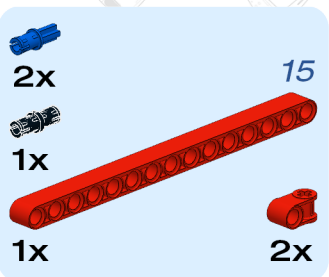
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6

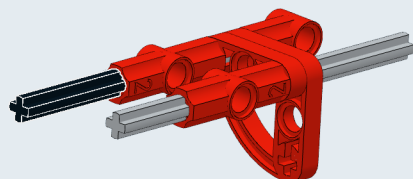
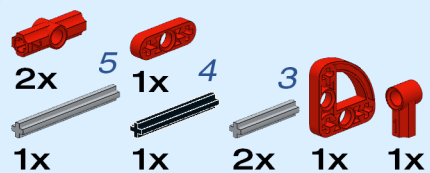


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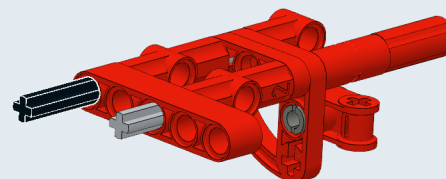
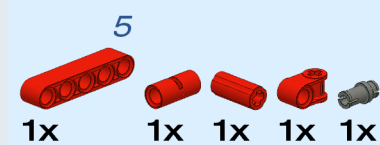


8

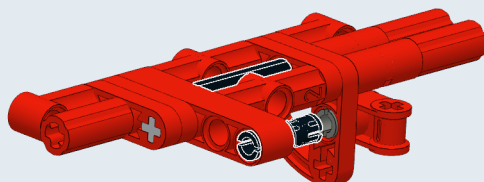
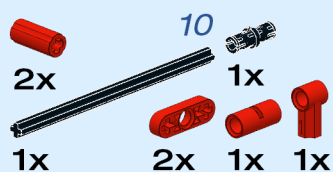
1



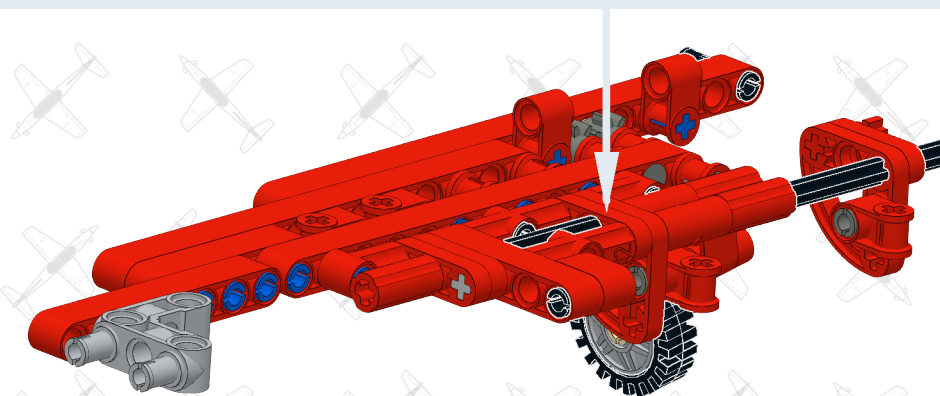
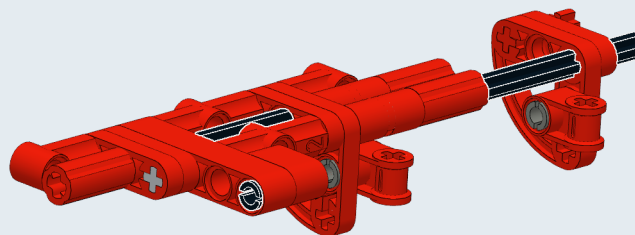
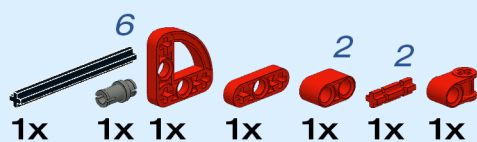
2



3



4



1

2x

1x

5

1x

2x

1x

3

2x

2

1x

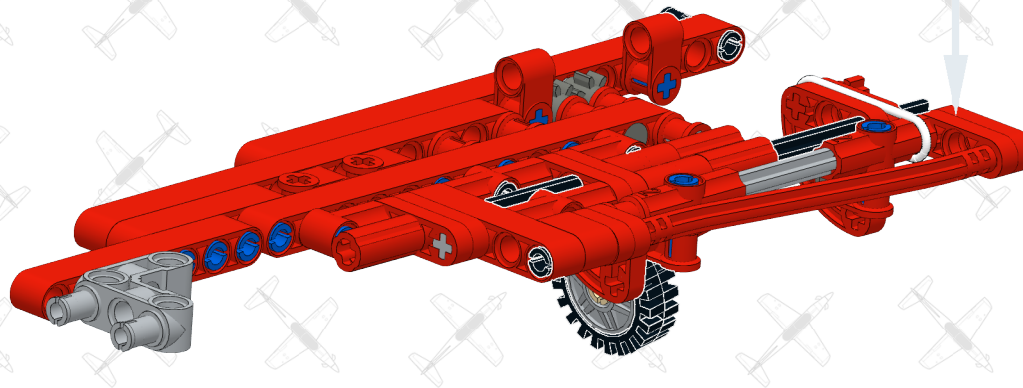
2

2x

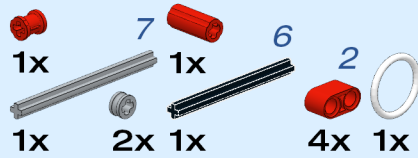
1x

12

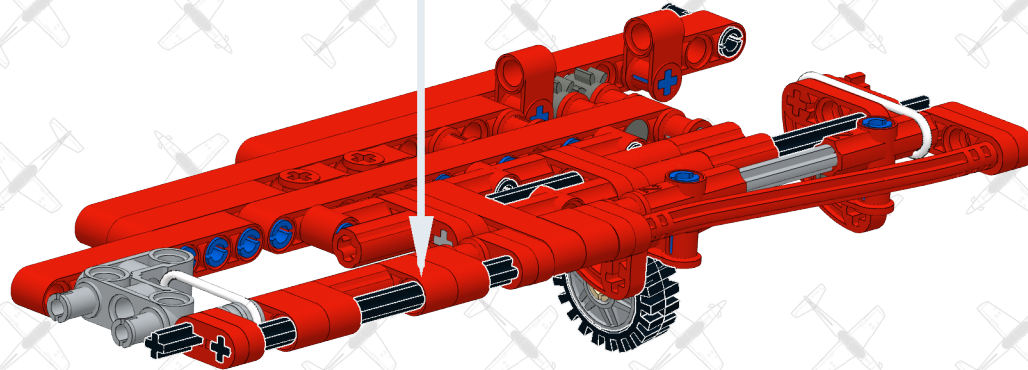
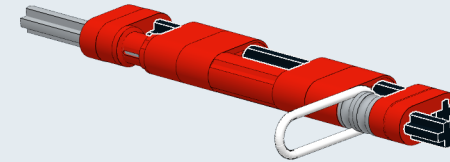
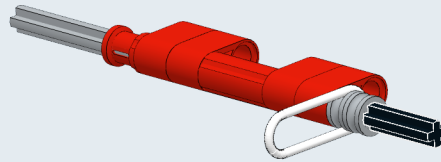
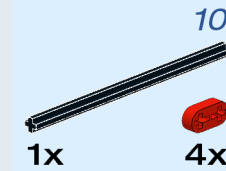
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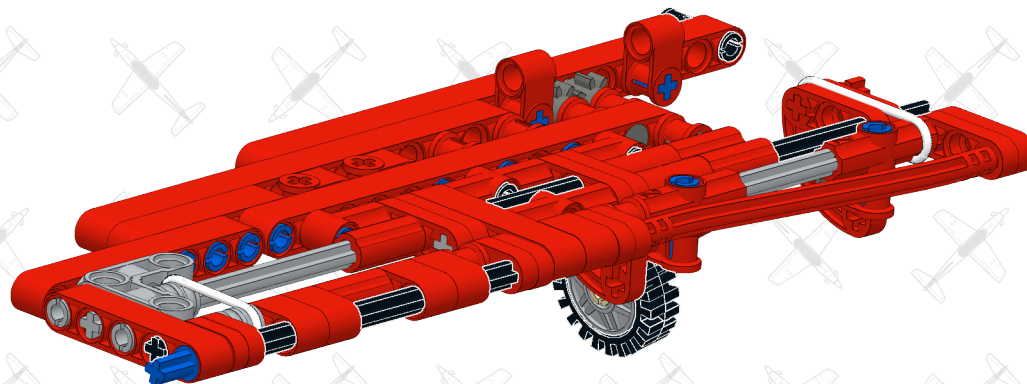
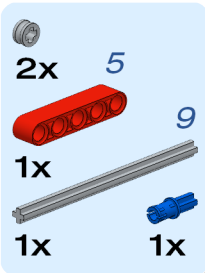
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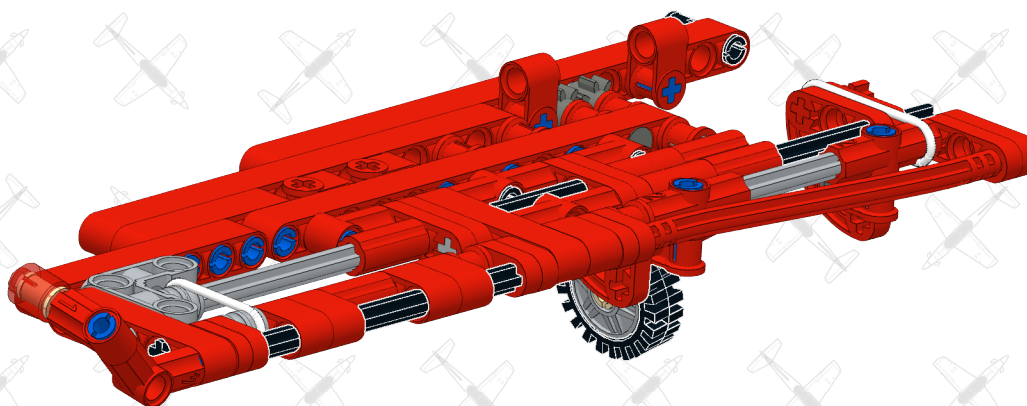
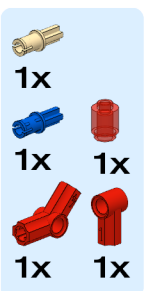
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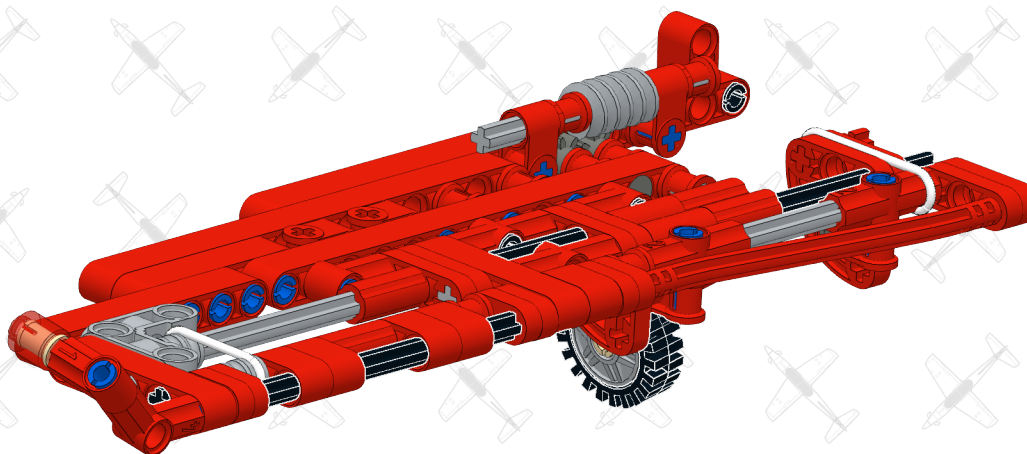
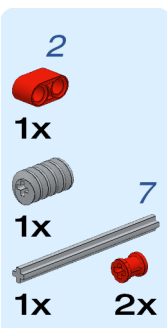
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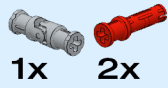
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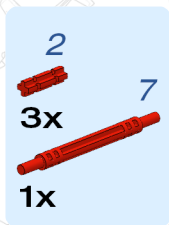
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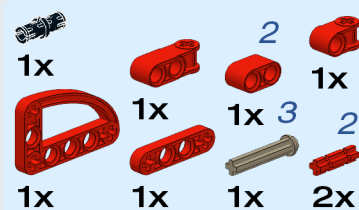
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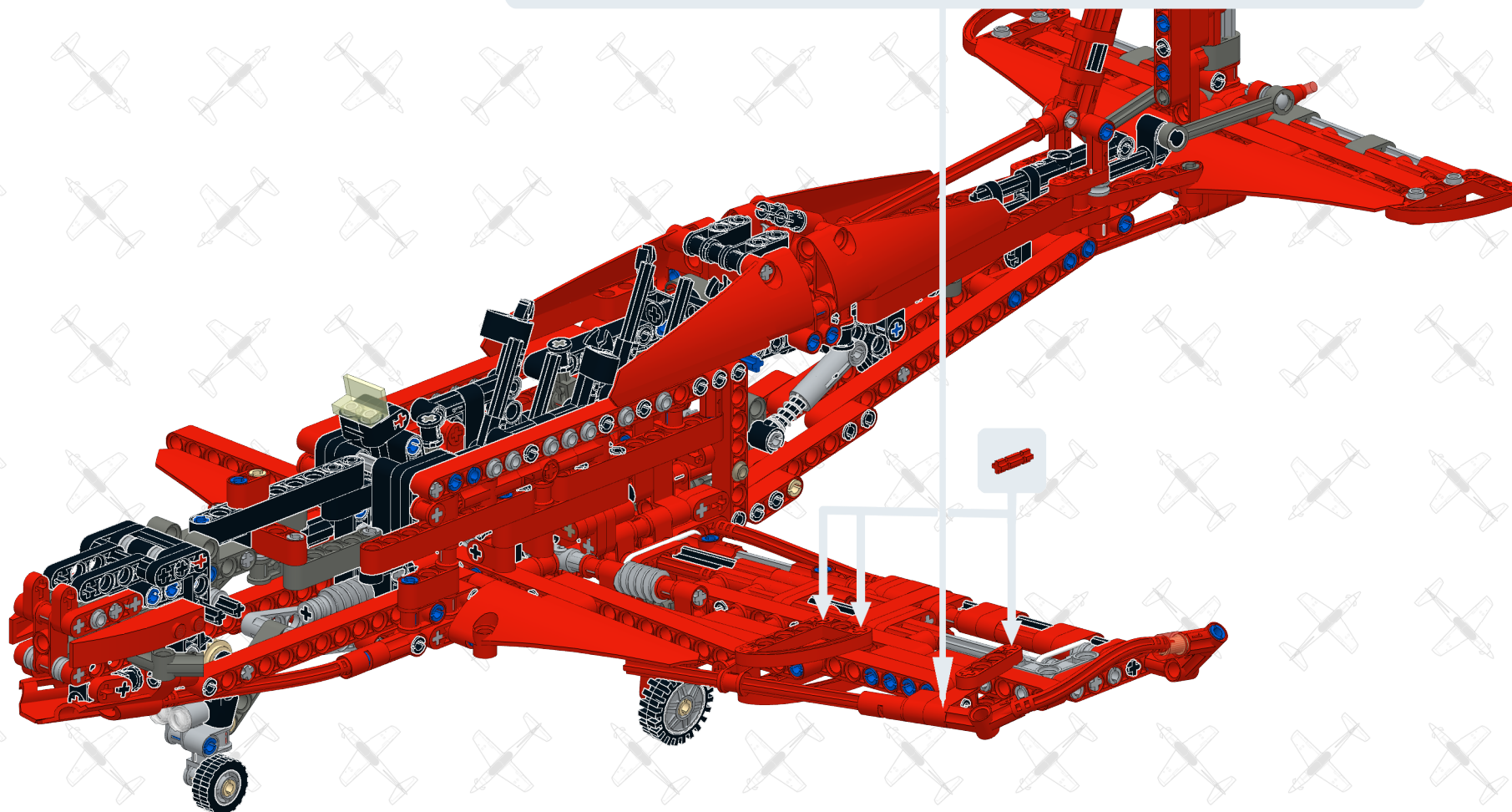
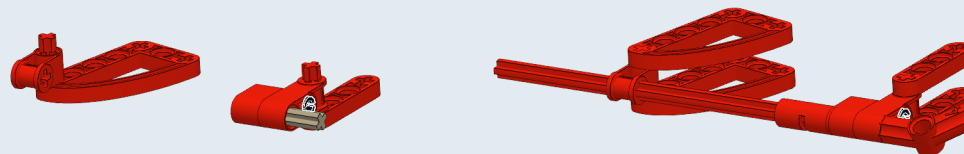
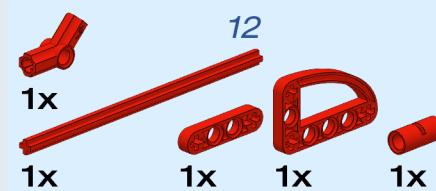
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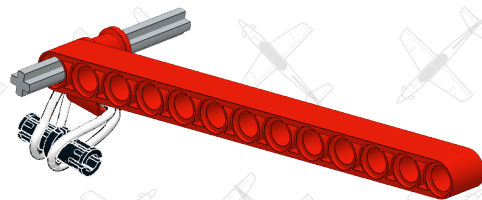
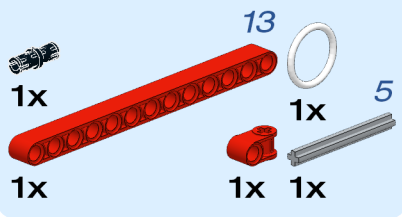
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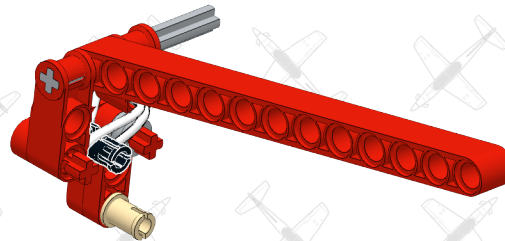
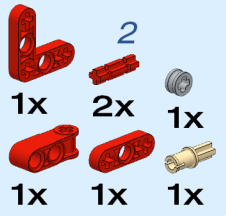
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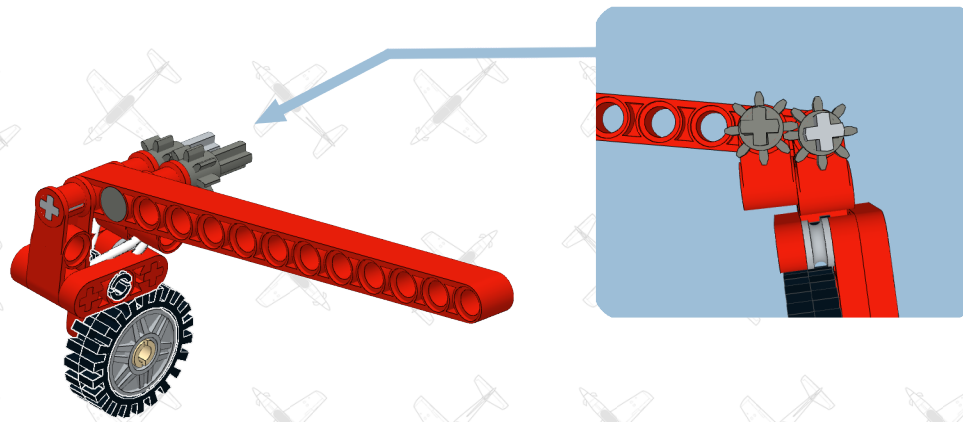
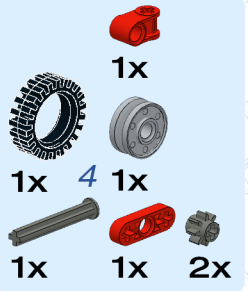
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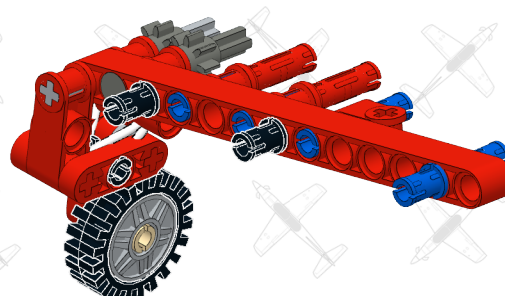
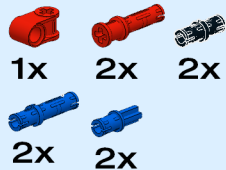
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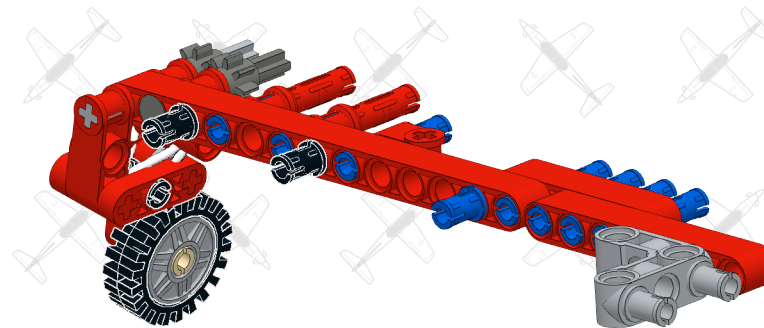
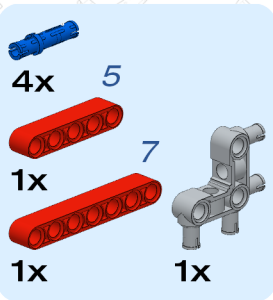
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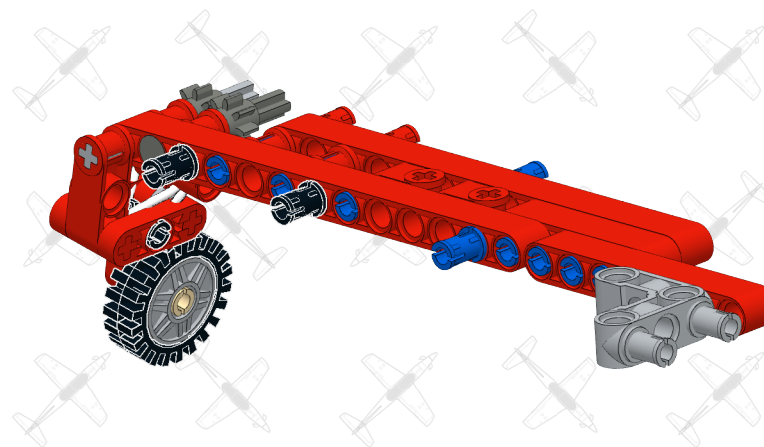
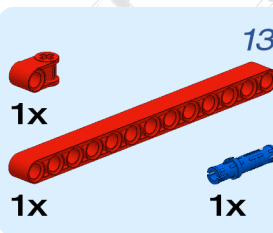
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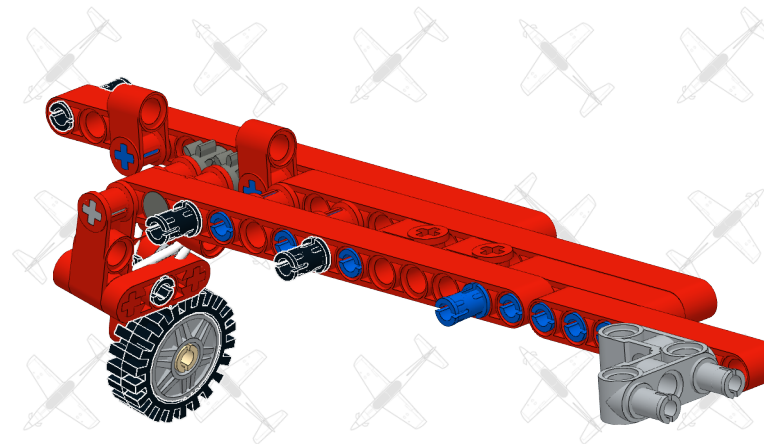
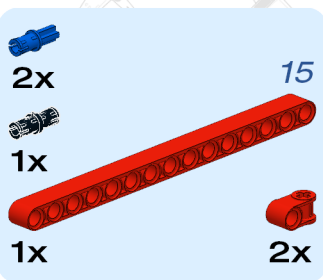
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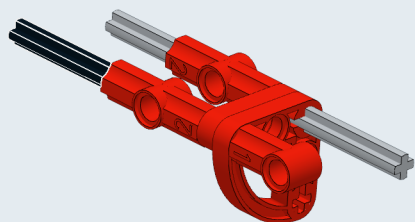
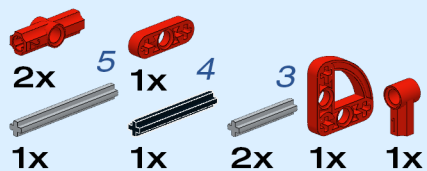
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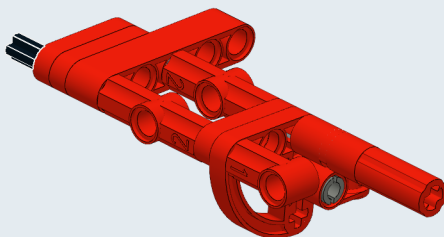
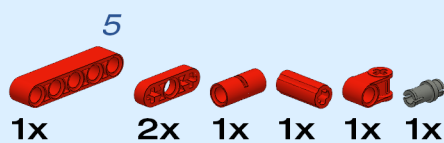
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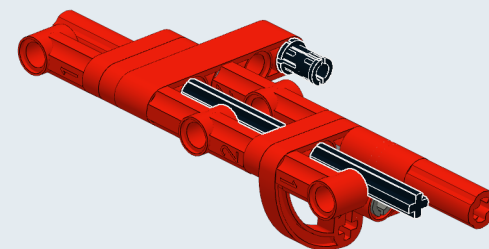
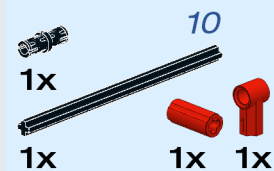
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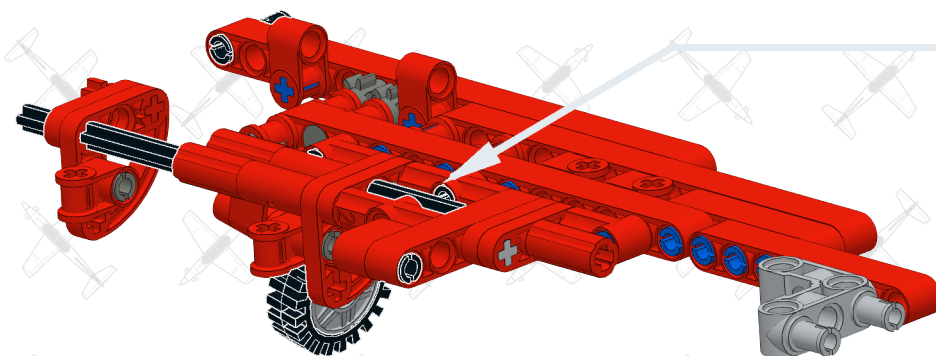
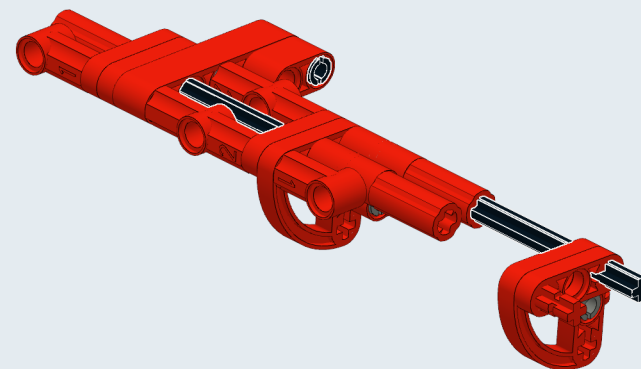
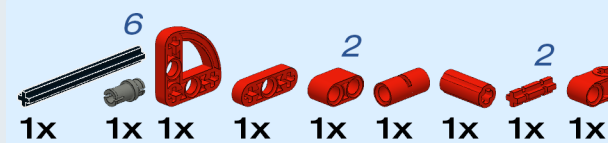
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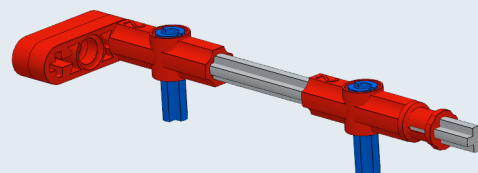
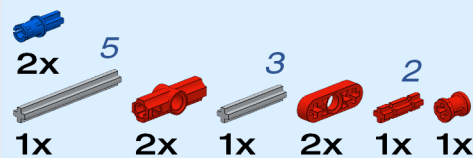


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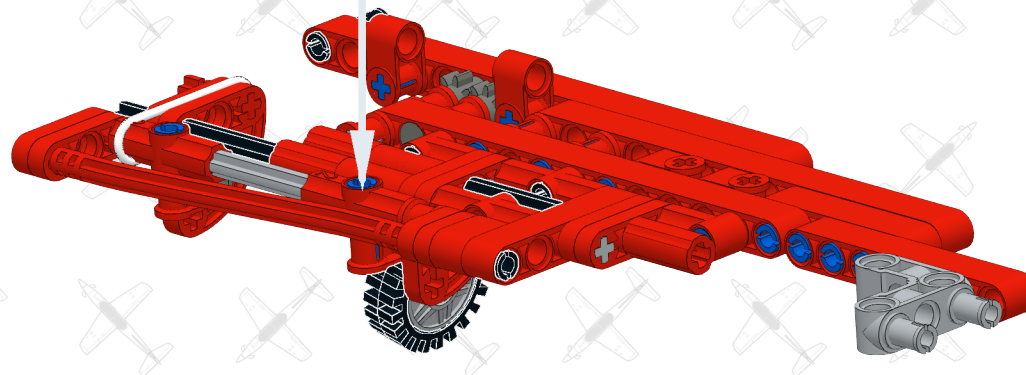
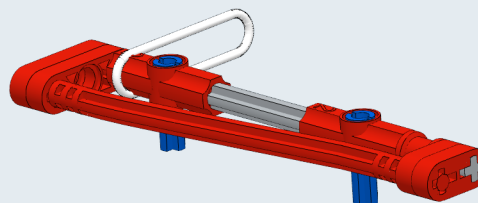
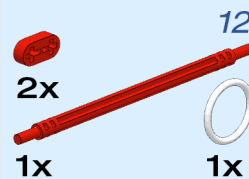


9

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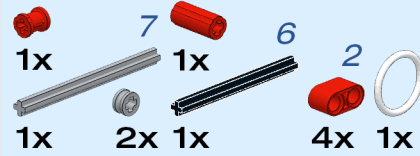


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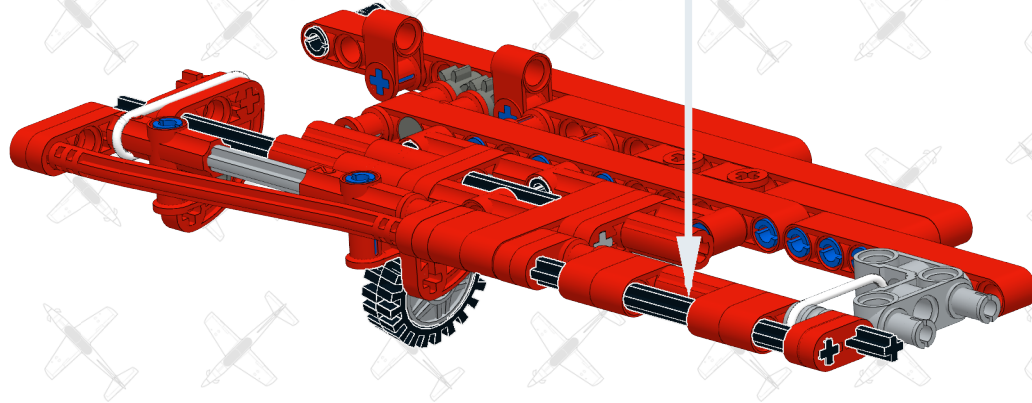
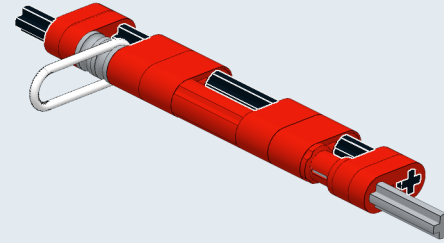
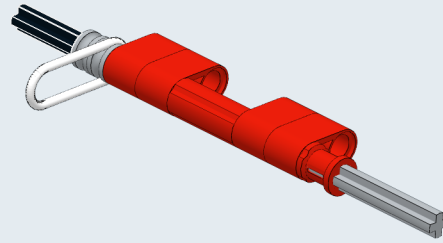
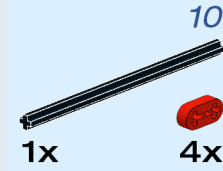


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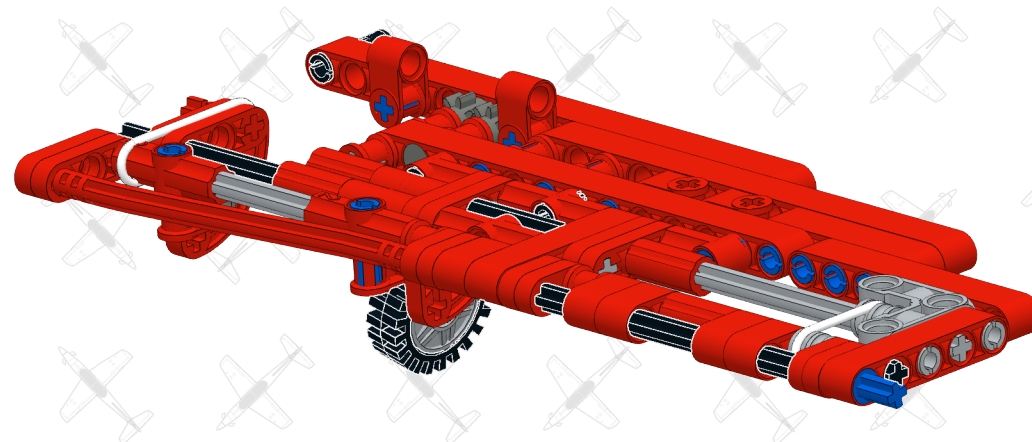
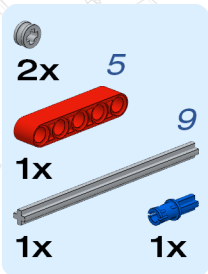
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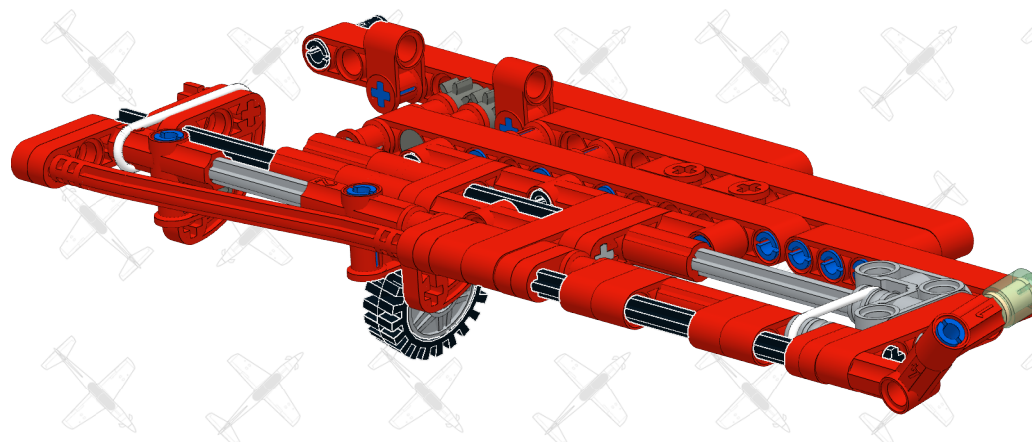
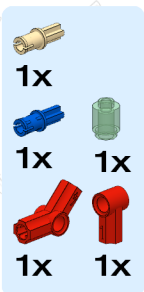
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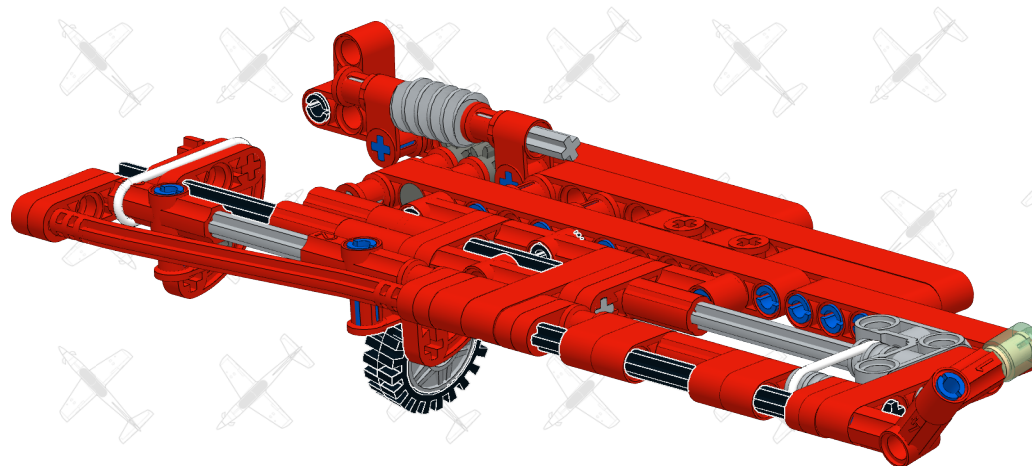
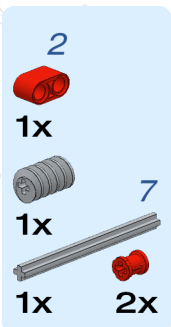
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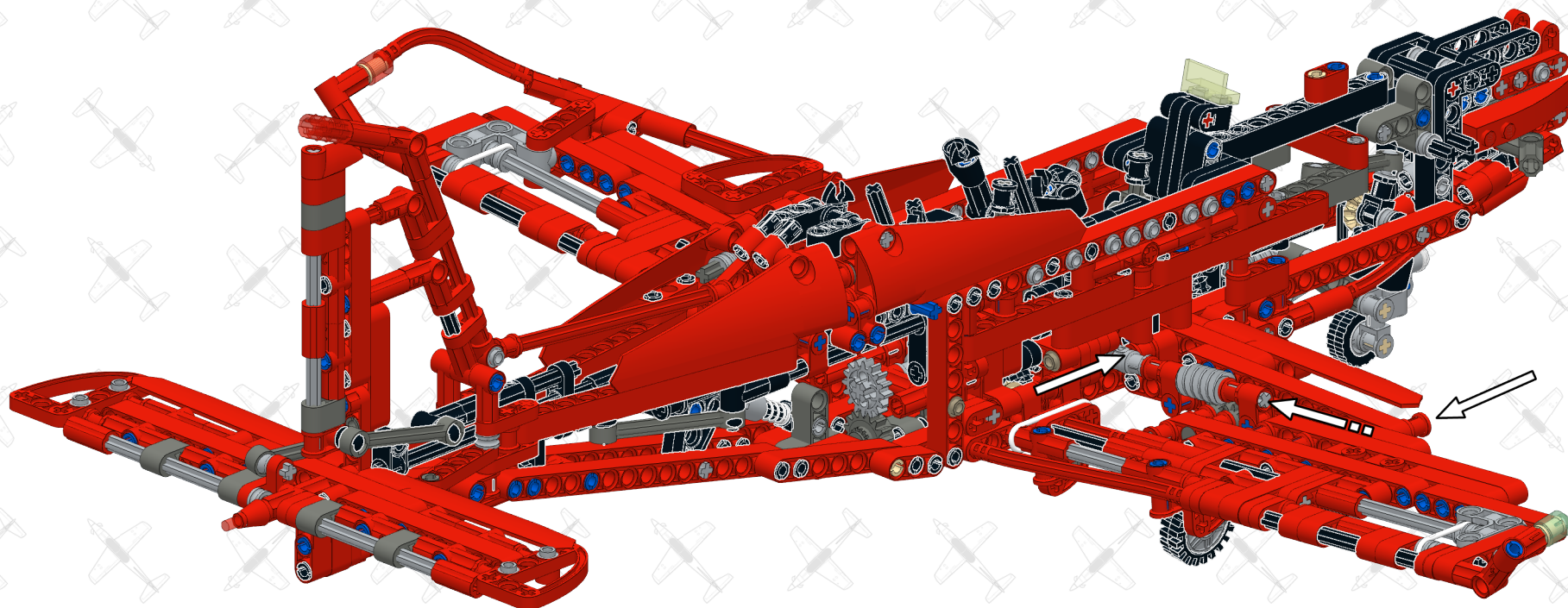
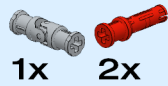
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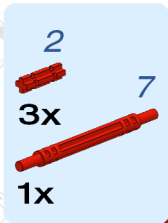
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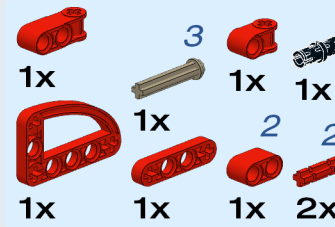
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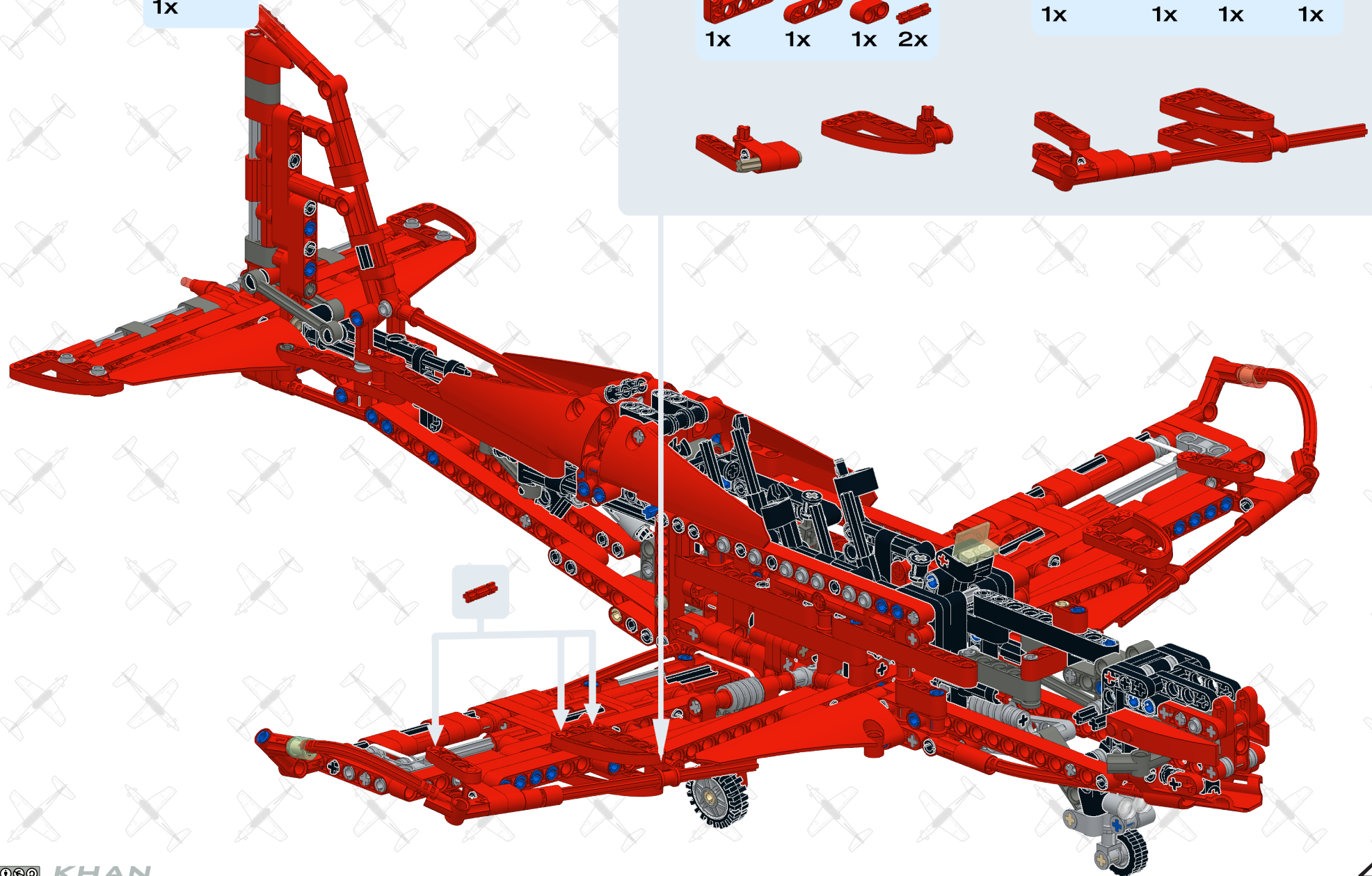
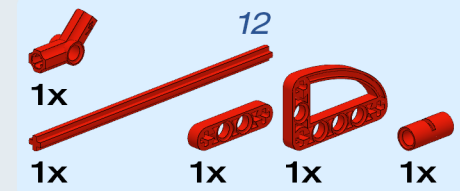
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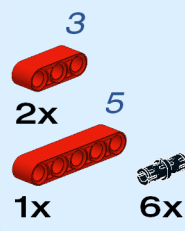


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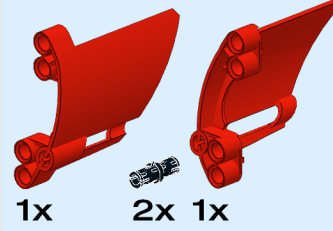


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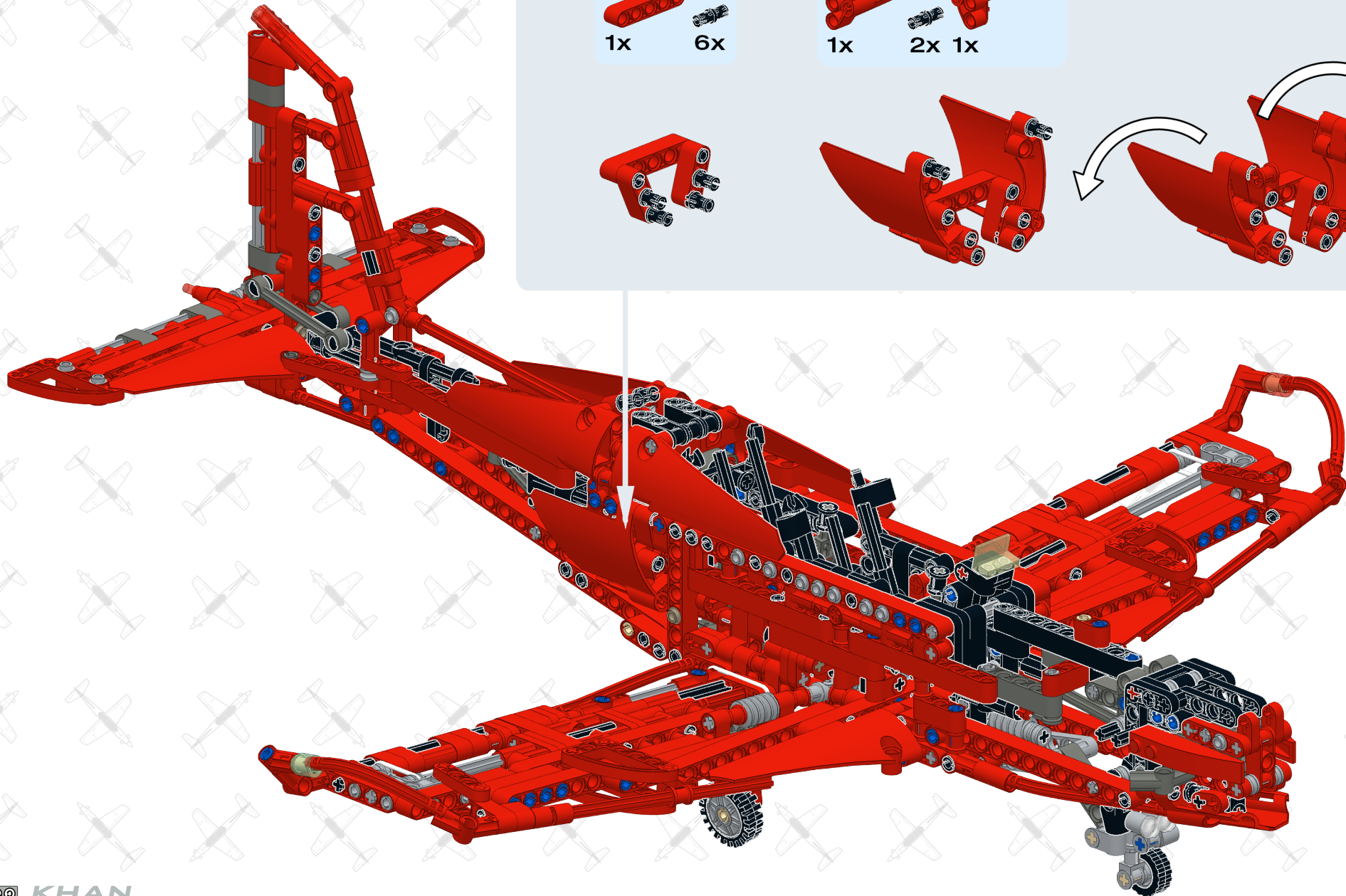
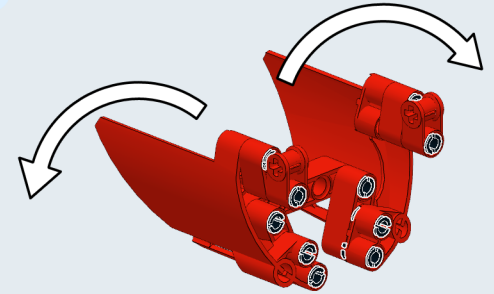
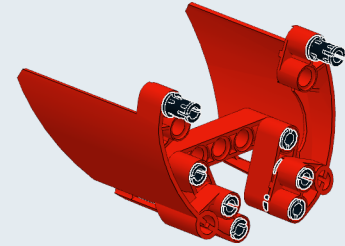
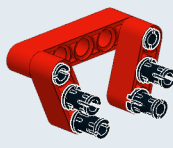
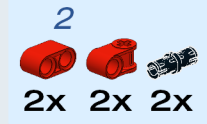
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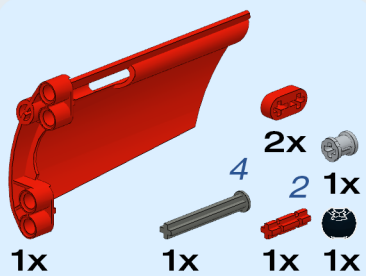


 **KHAN**
DESIGN

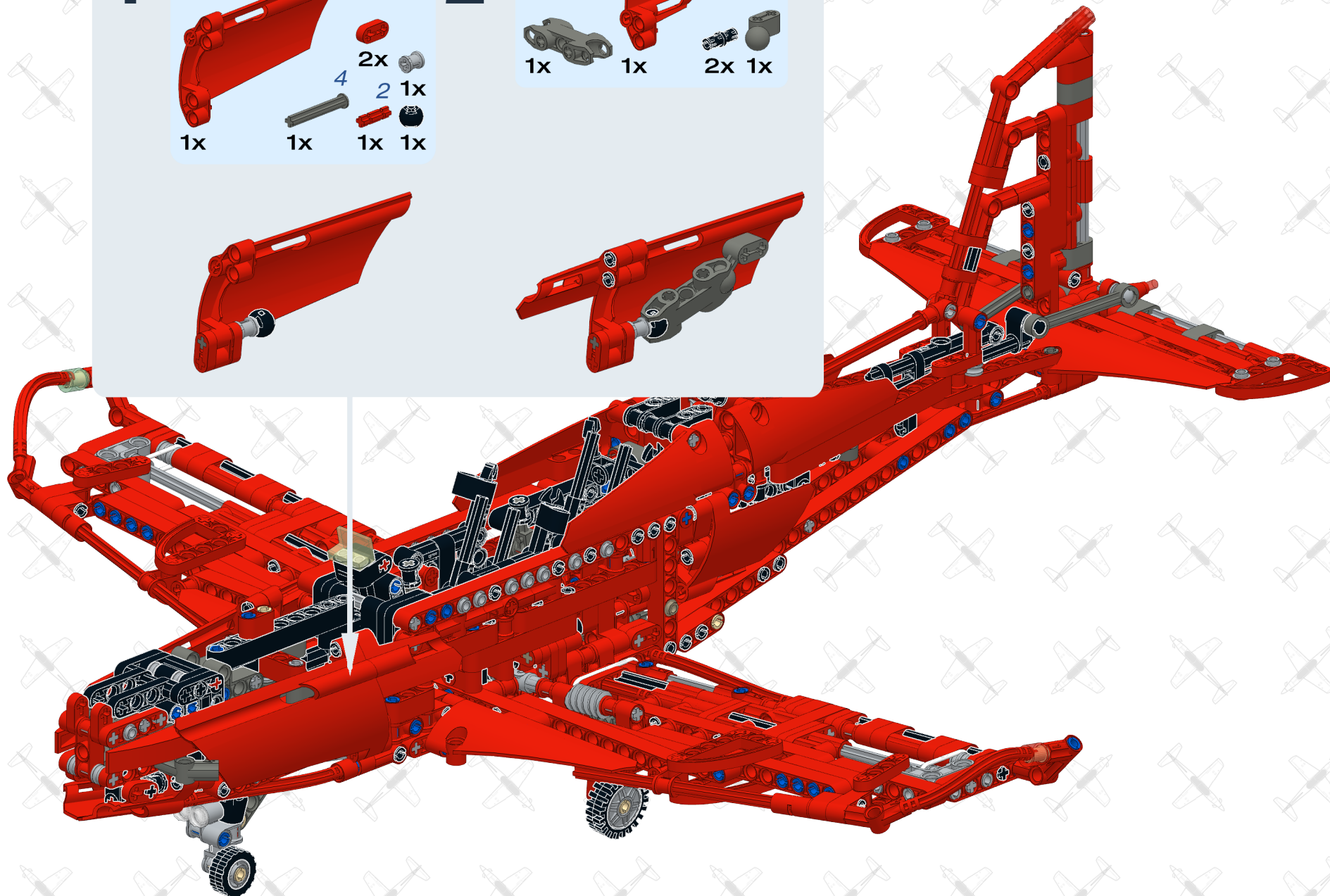
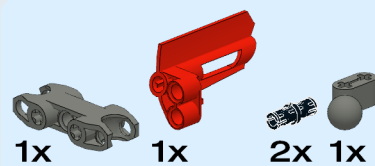


33

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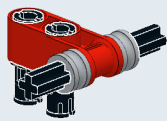
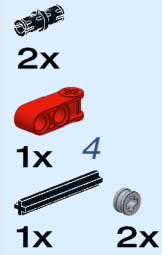


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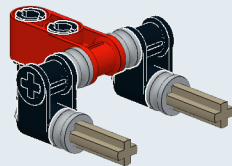
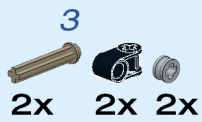


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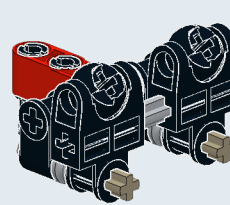
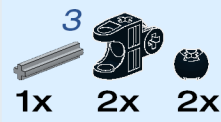
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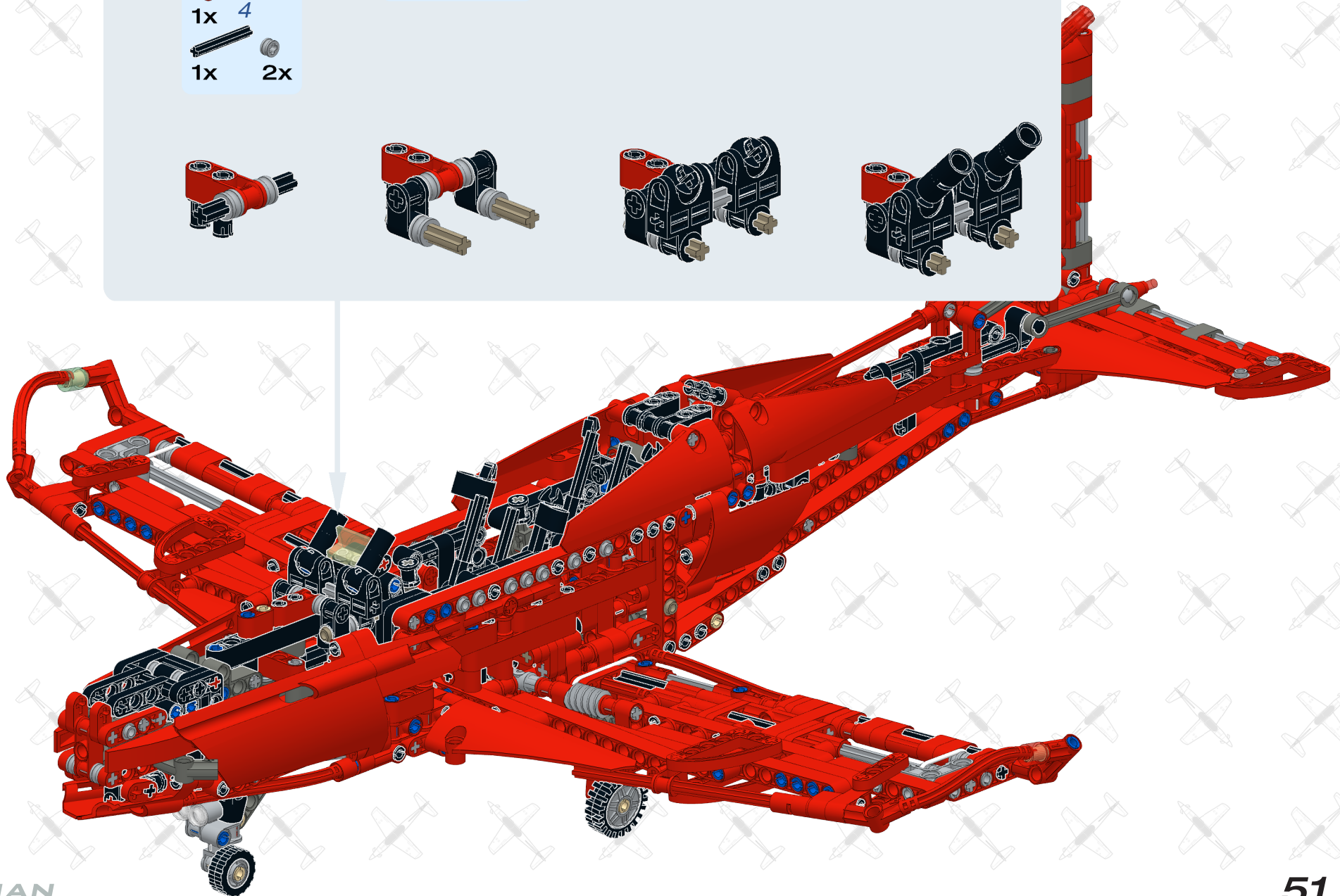
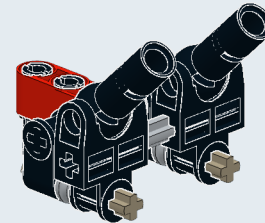
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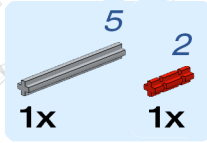
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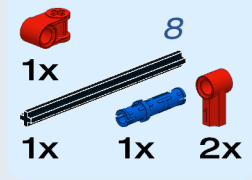
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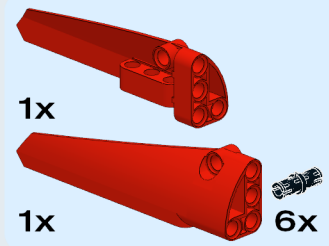
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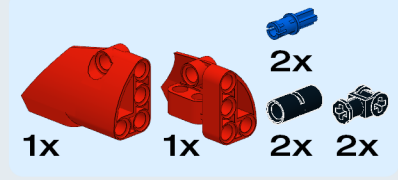
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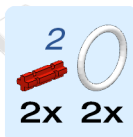
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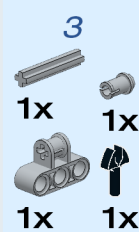
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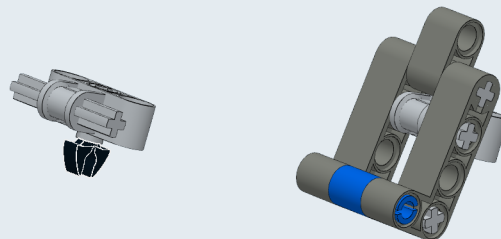
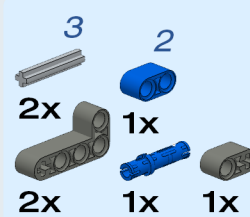
36



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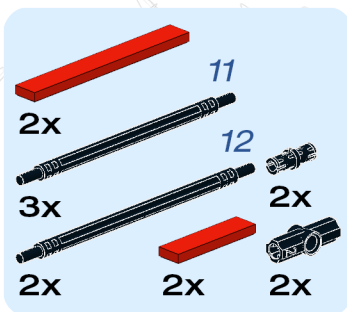
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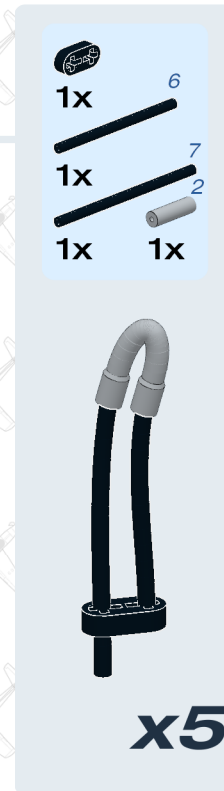
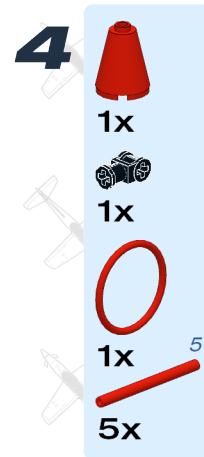
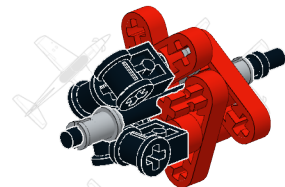
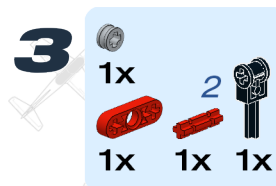
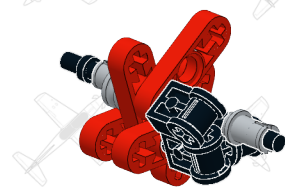
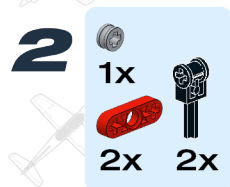
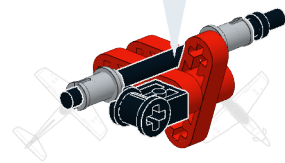
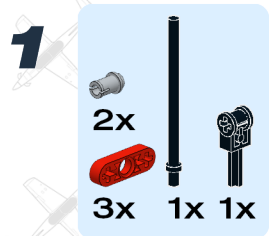


x2



37





38





Finished ?!

If you enjoyed the construction, please consider making a donation to support quality work. No minimum amount is expected !



But I would appreciate as well your feedback on the model and the instructions.
What's your PC-21 like ? Have you built it in another color or added new features ?
I would be more than pleased to get your comments and pictures on

contact@khandesign.fr