

# Spiderpen

---

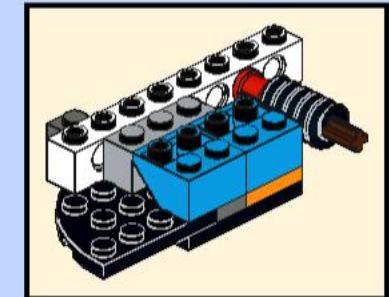
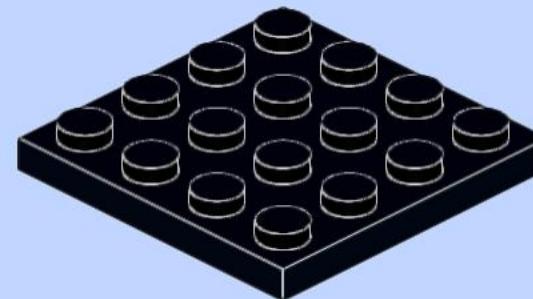
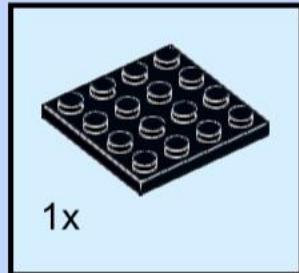
A custom model design  
by Burillier Valentin

---

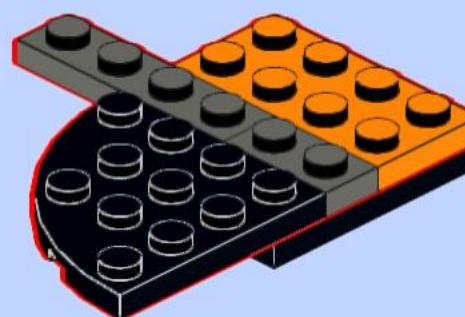
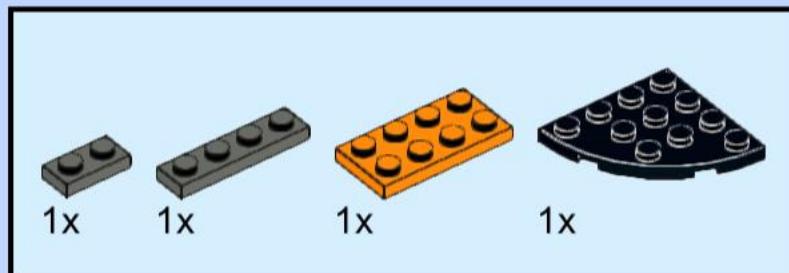
A plotter machine made from  
set 17101. It is controllable  
thanks to the spiderpen  
package.



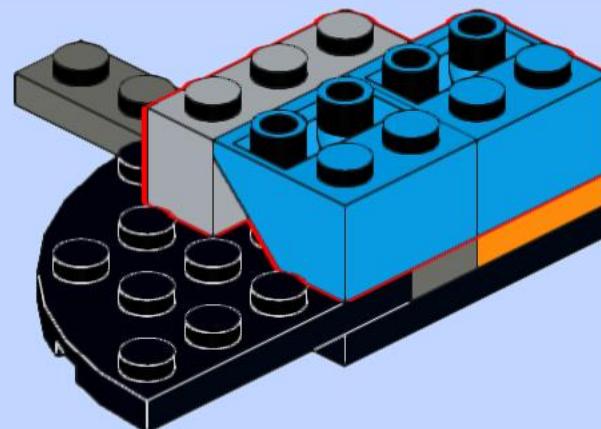
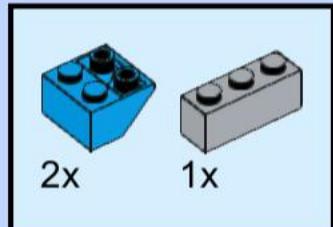
**1**



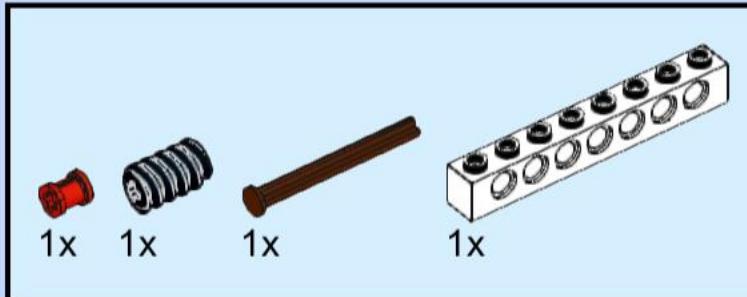
**2**



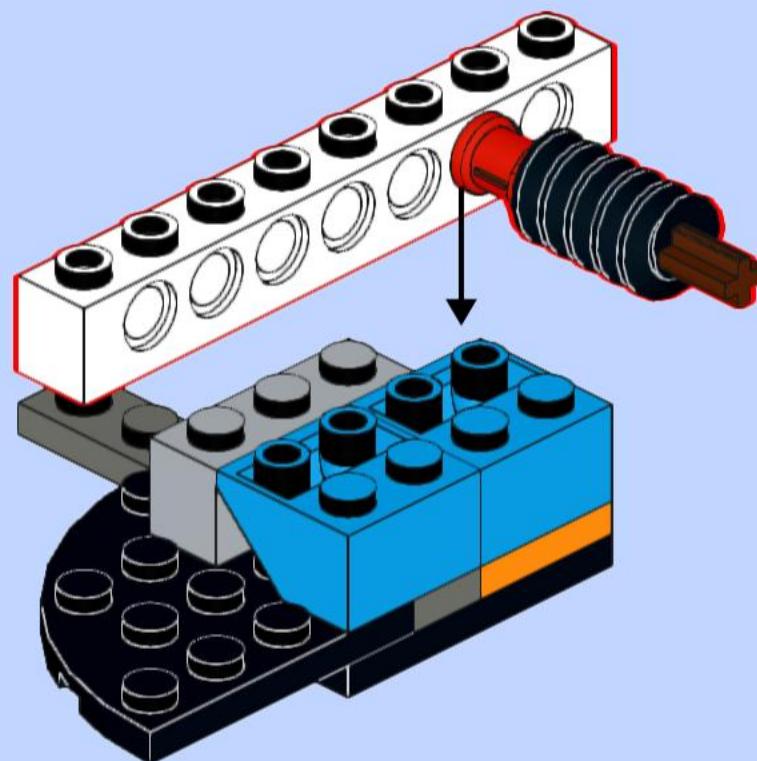
**3**



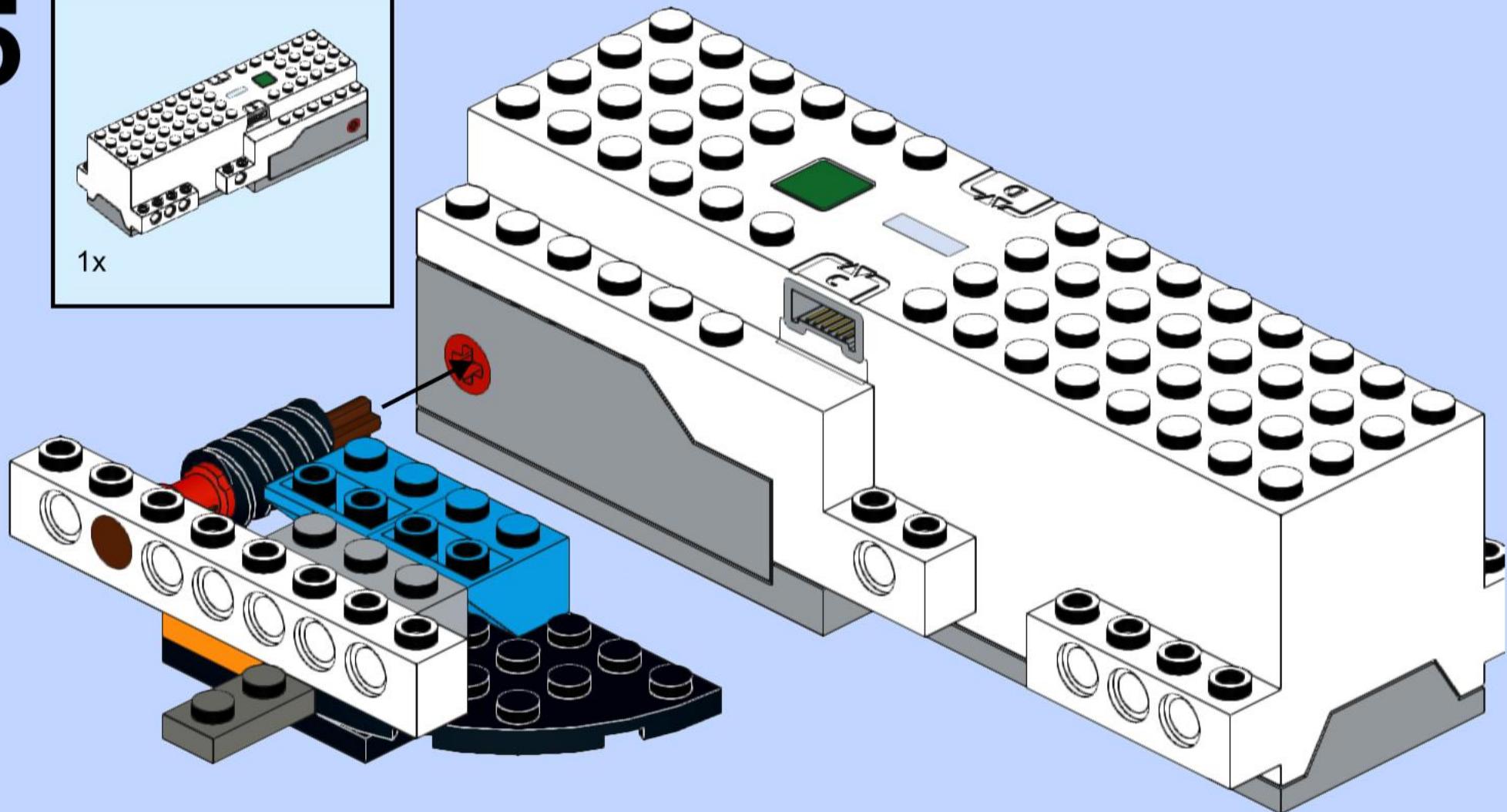
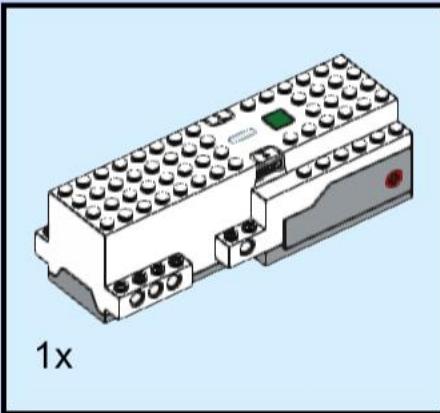
**4**



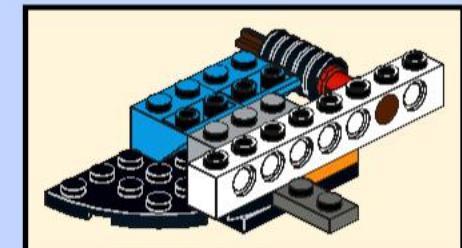
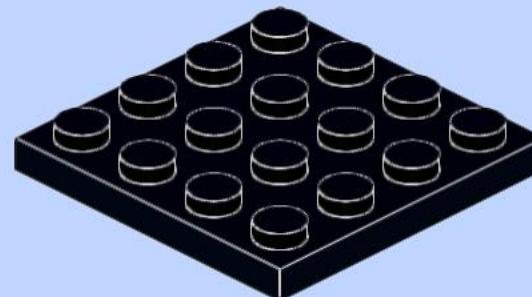
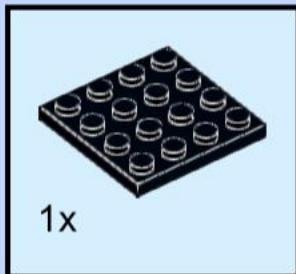
The screw is an additional part, it is not part of the set 17101.



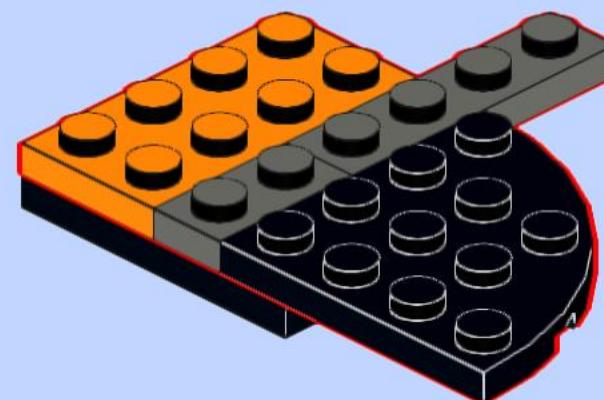
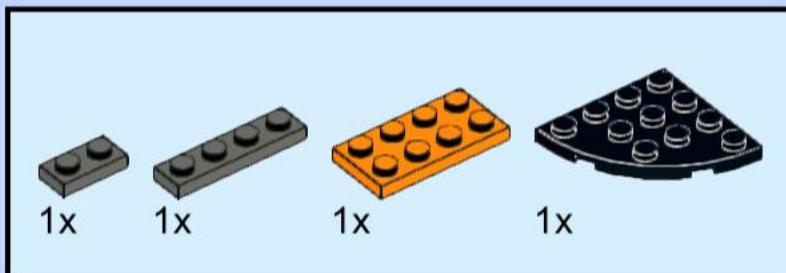
**5**



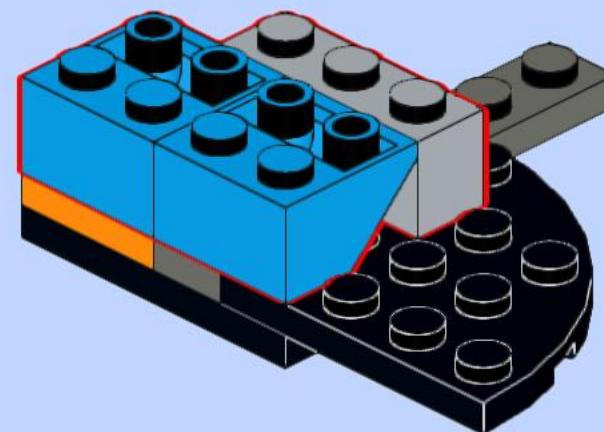
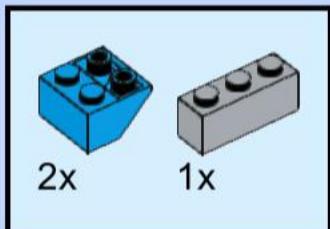
**6**



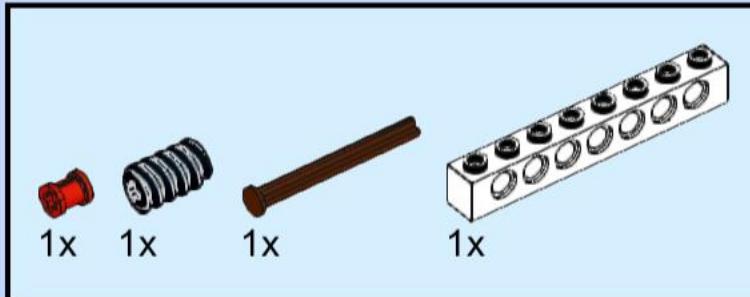
**7**



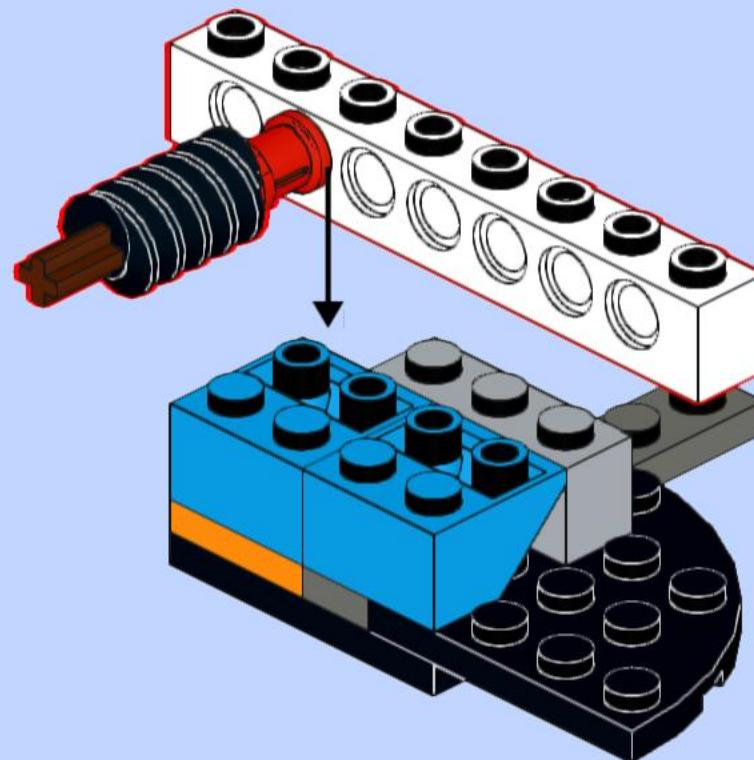
**8**



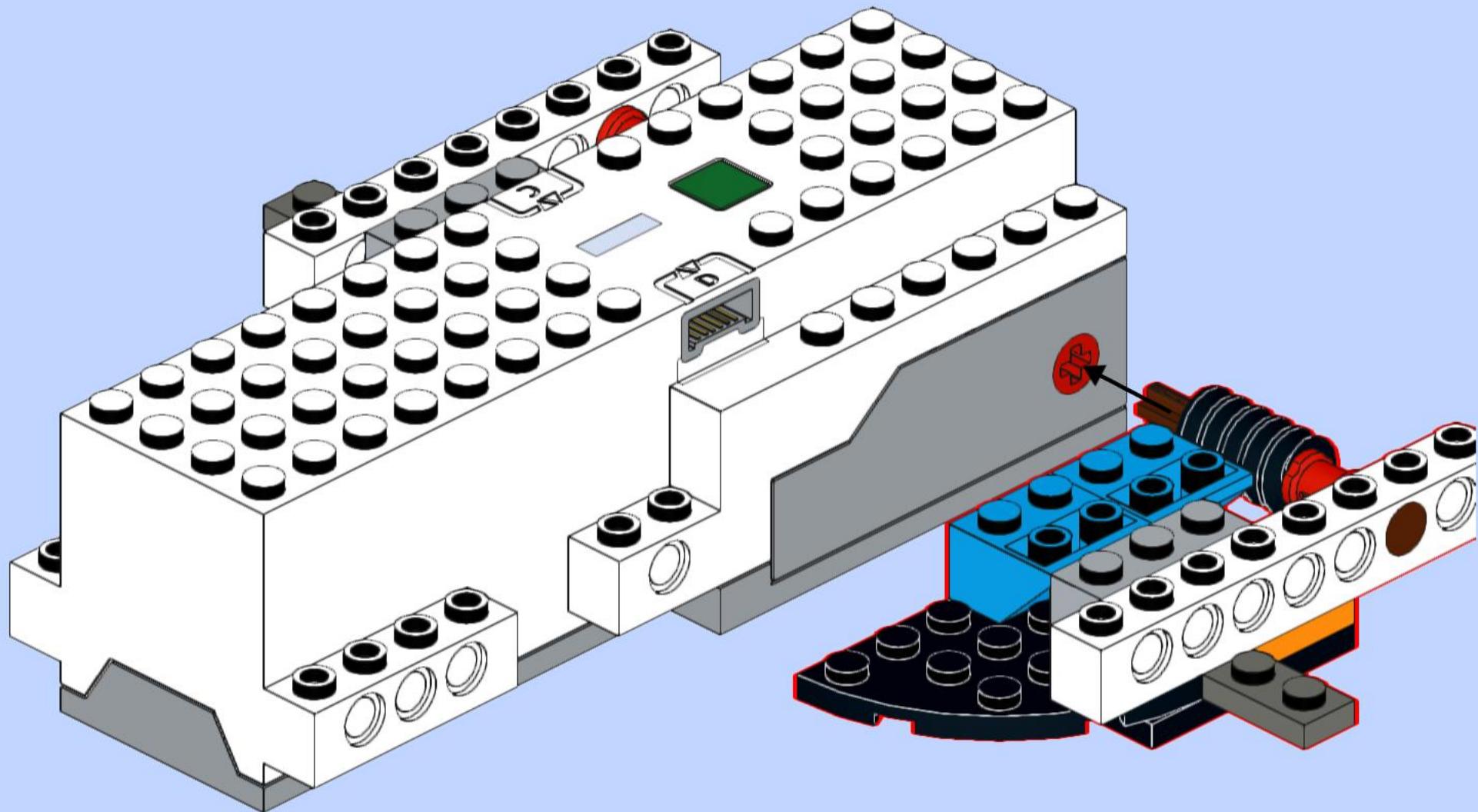
**9**



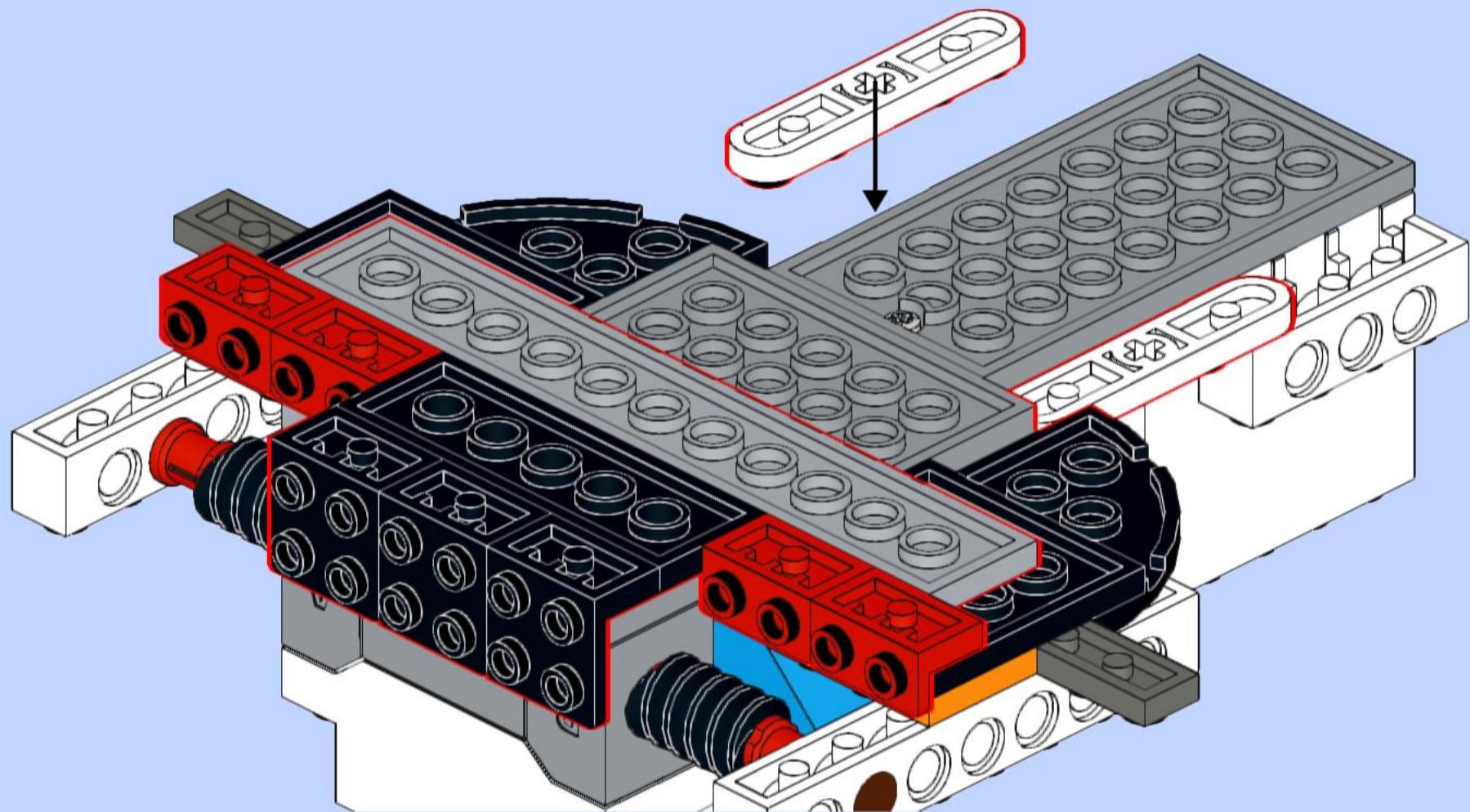
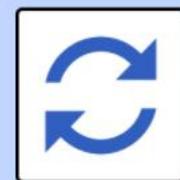
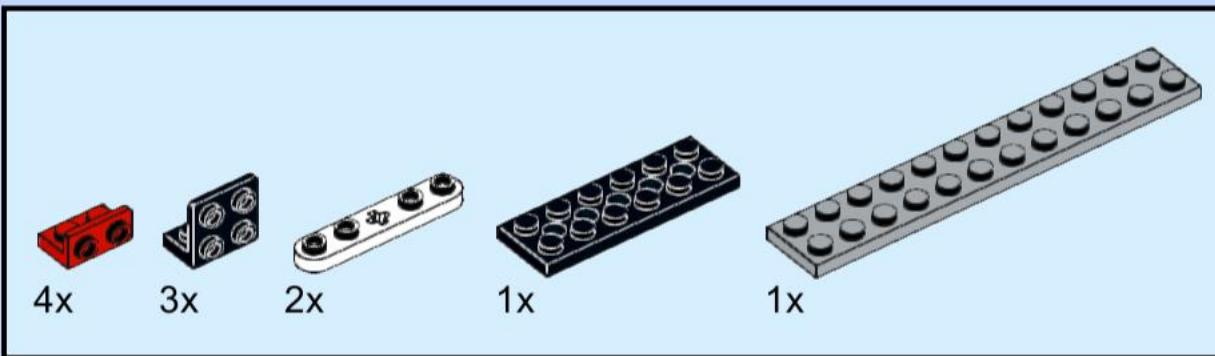
The screw is an additional part, it is not part of the set 17101.



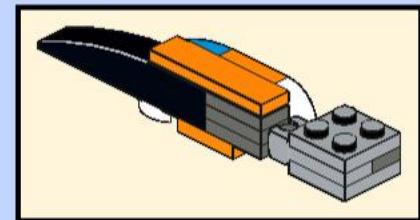
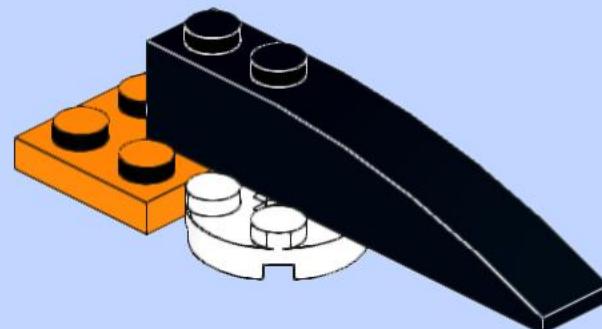
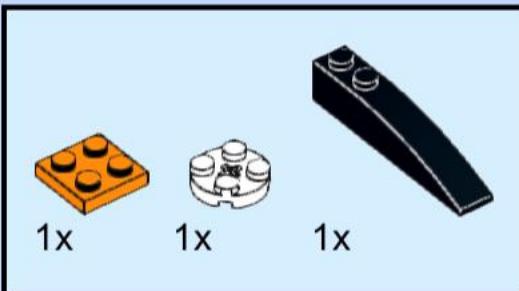
# 10



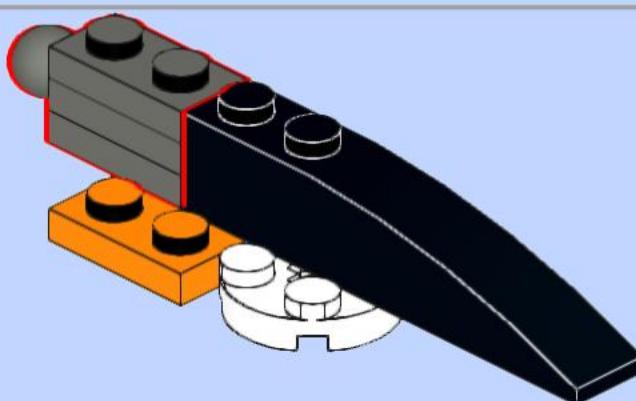
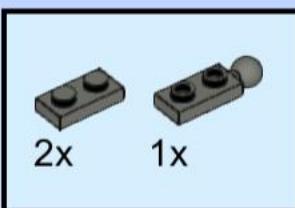
**11**



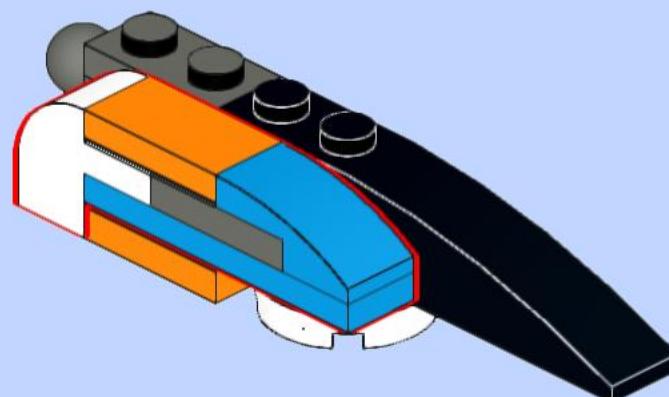
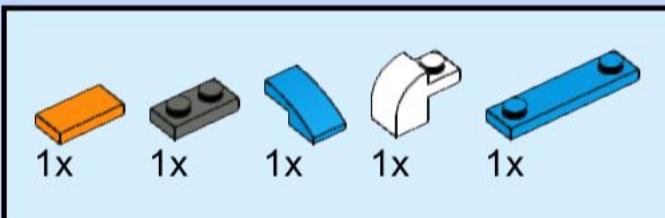
**12**



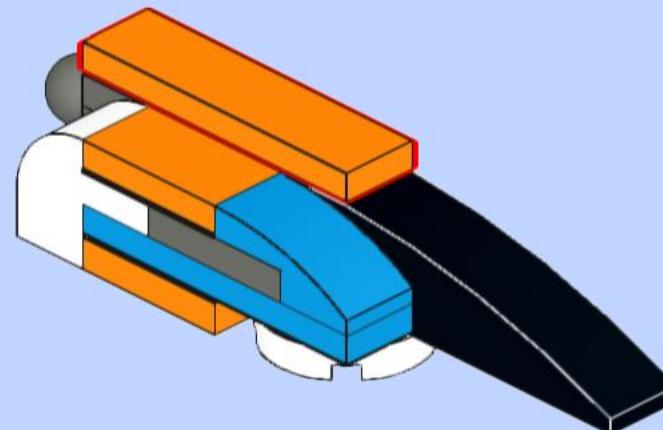
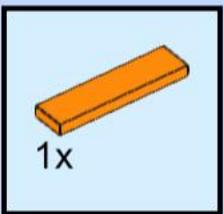
**13**



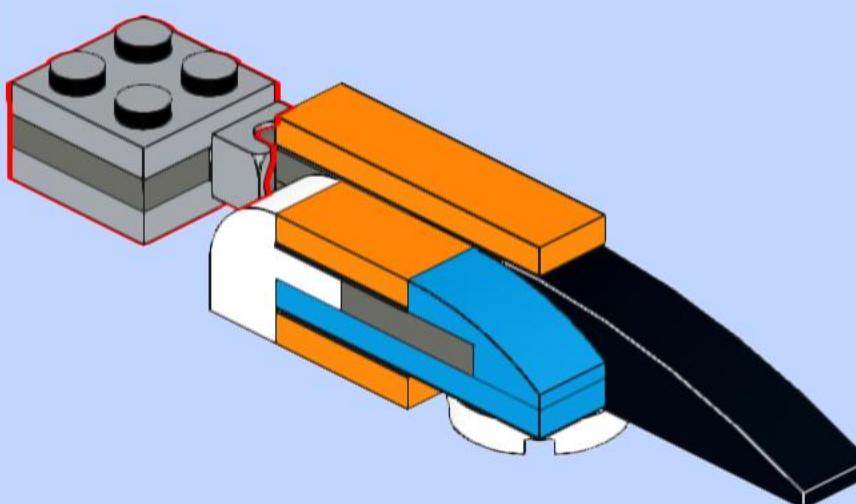
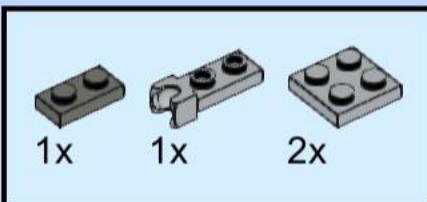
**14**



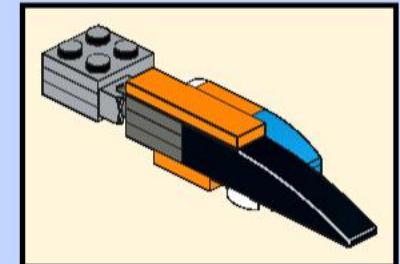
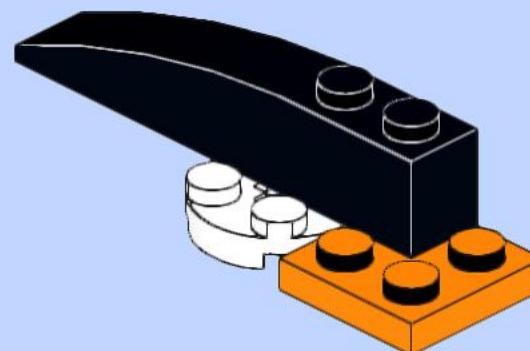
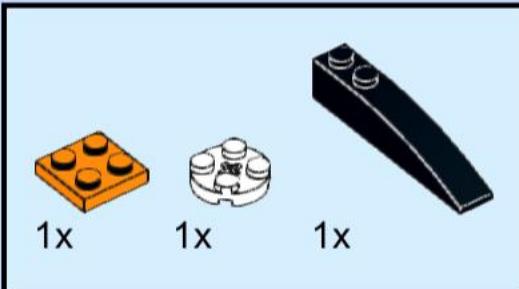
**15**



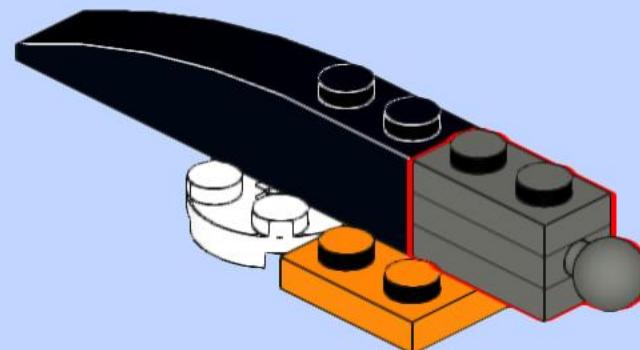
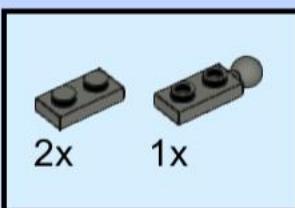
**16**



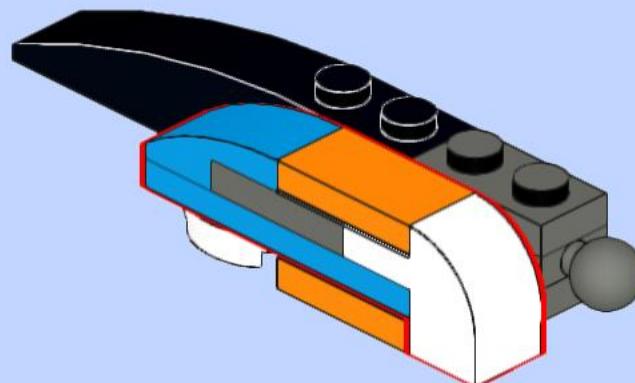
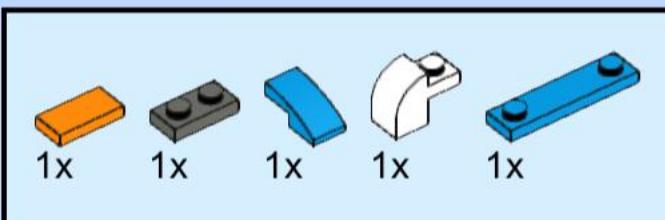
**17**



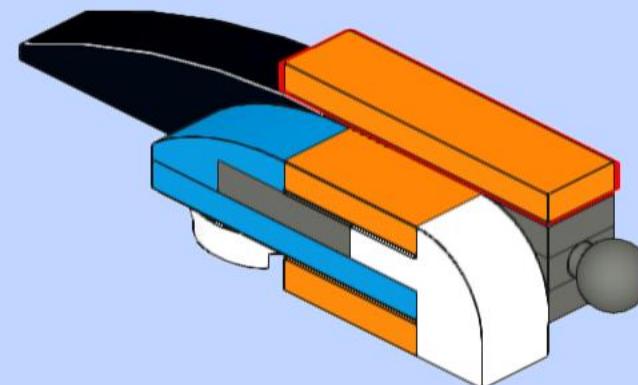
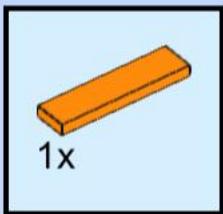
**18**



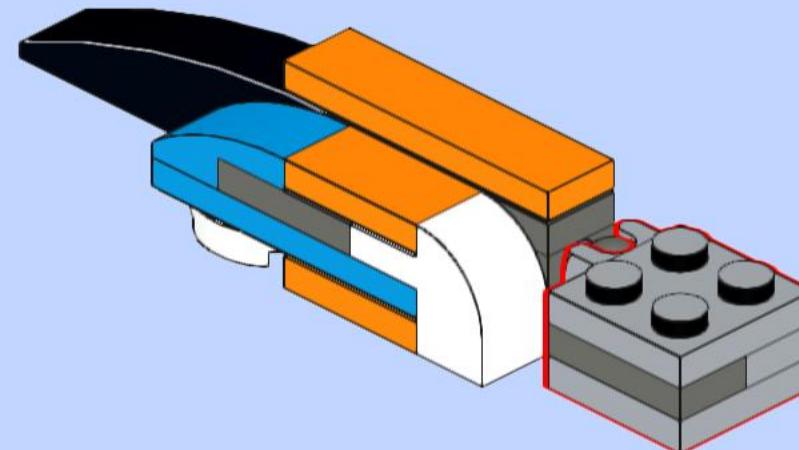
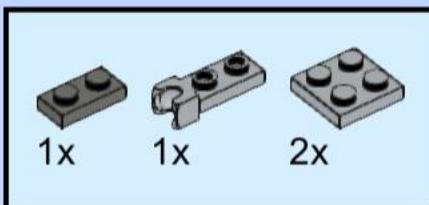
**19**



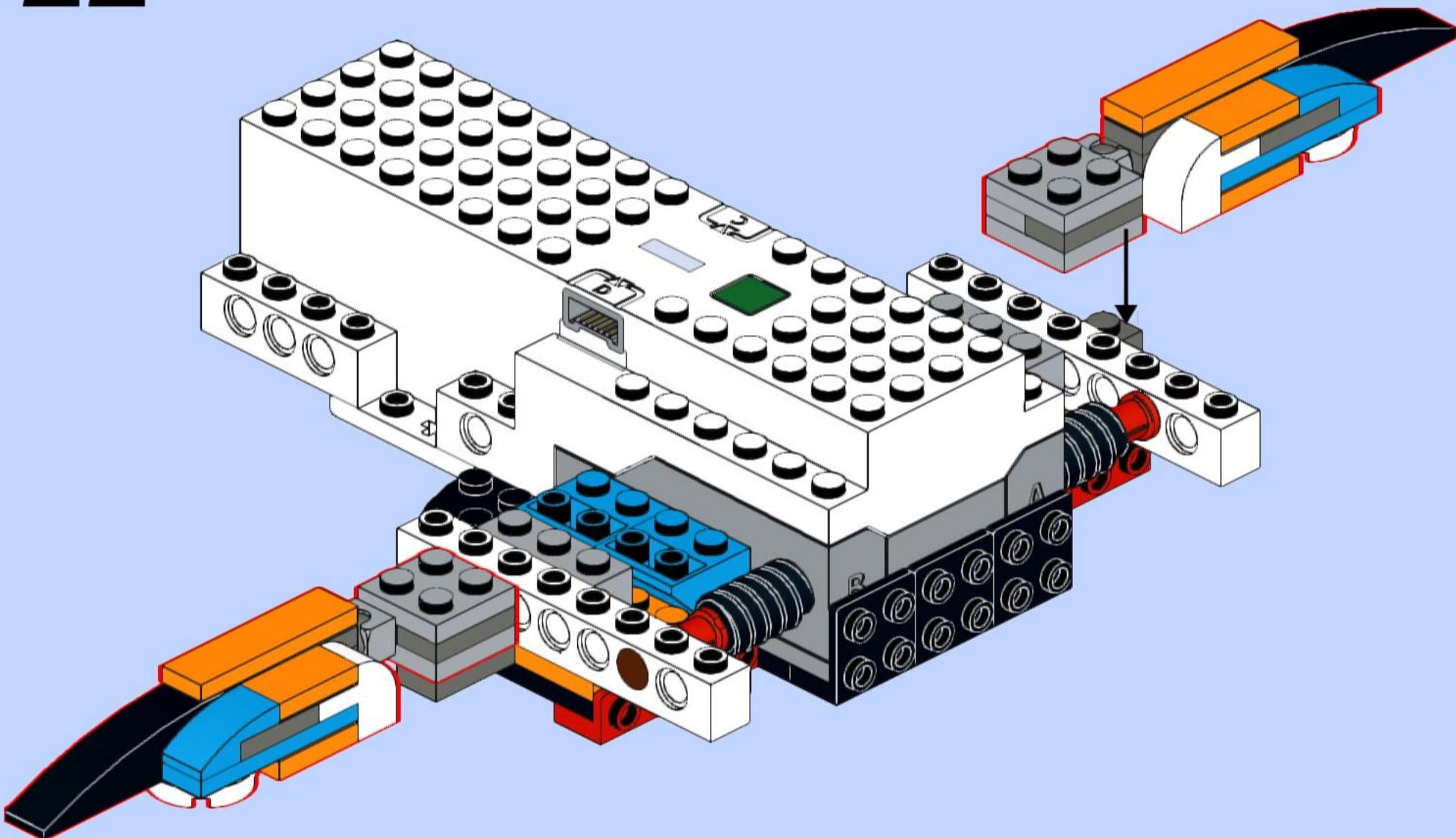
**20**



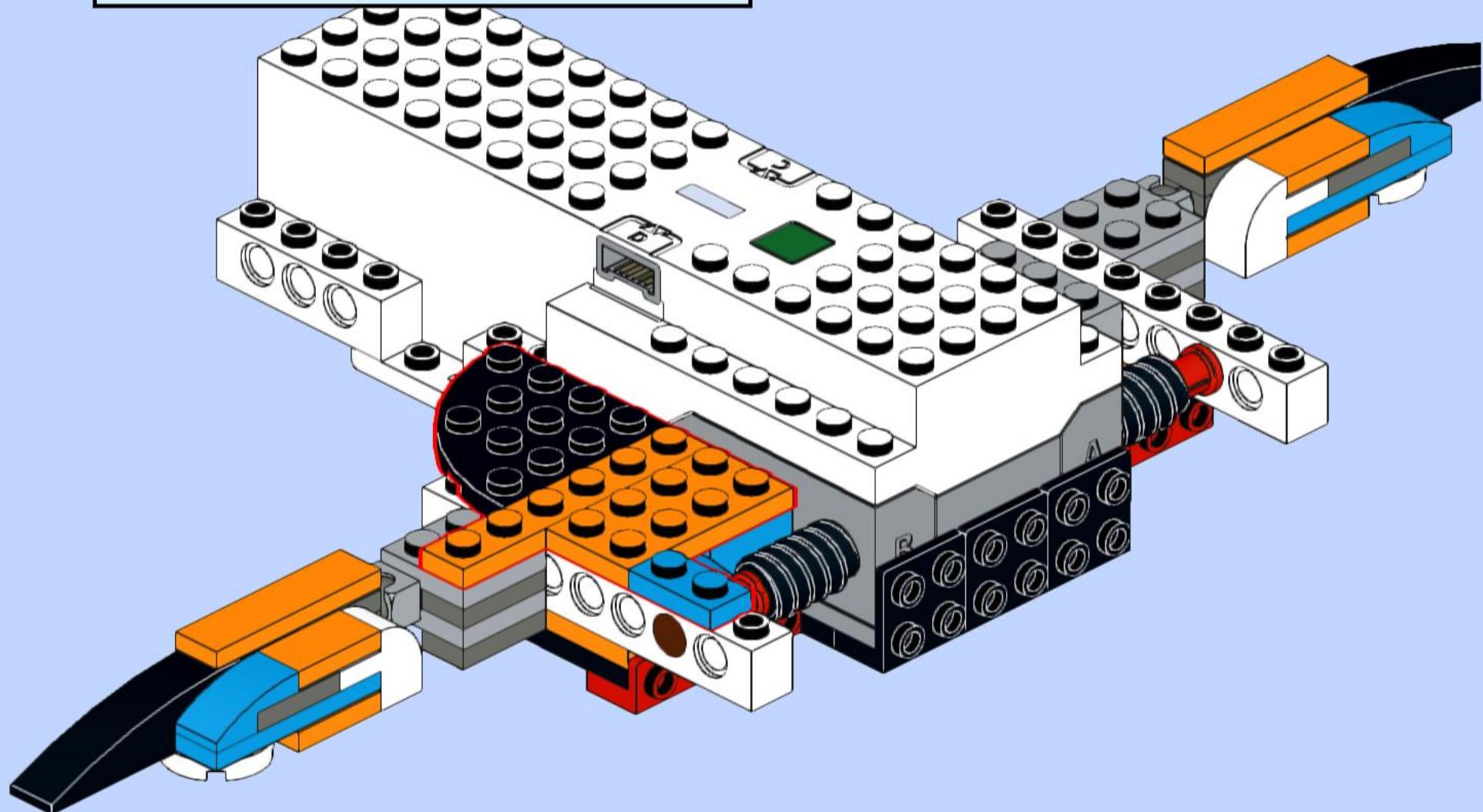
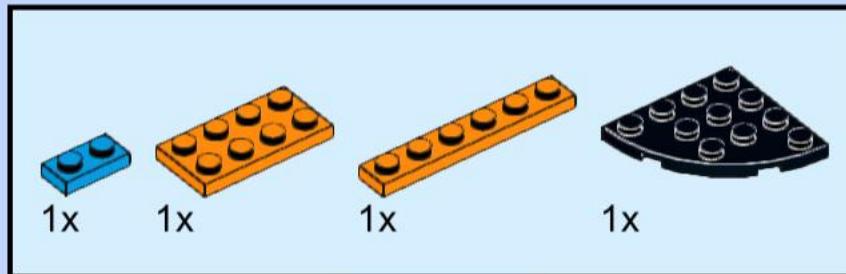
**21**



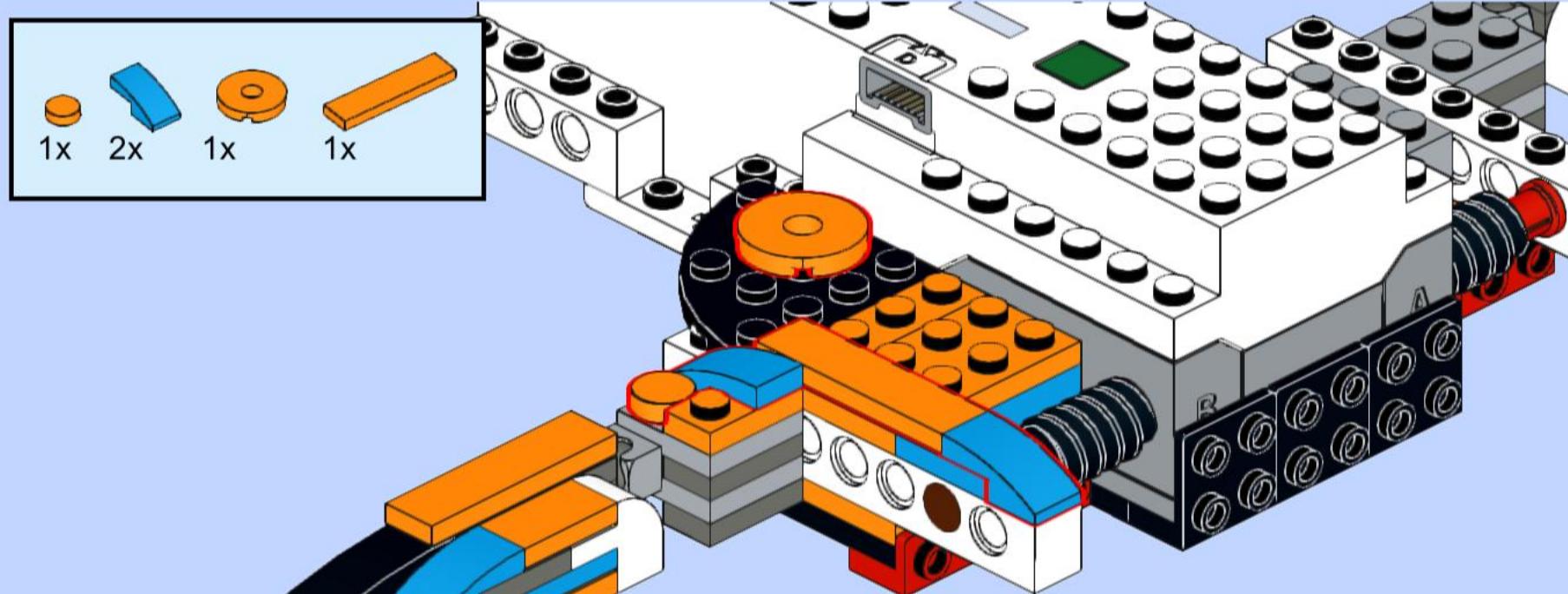
# 22



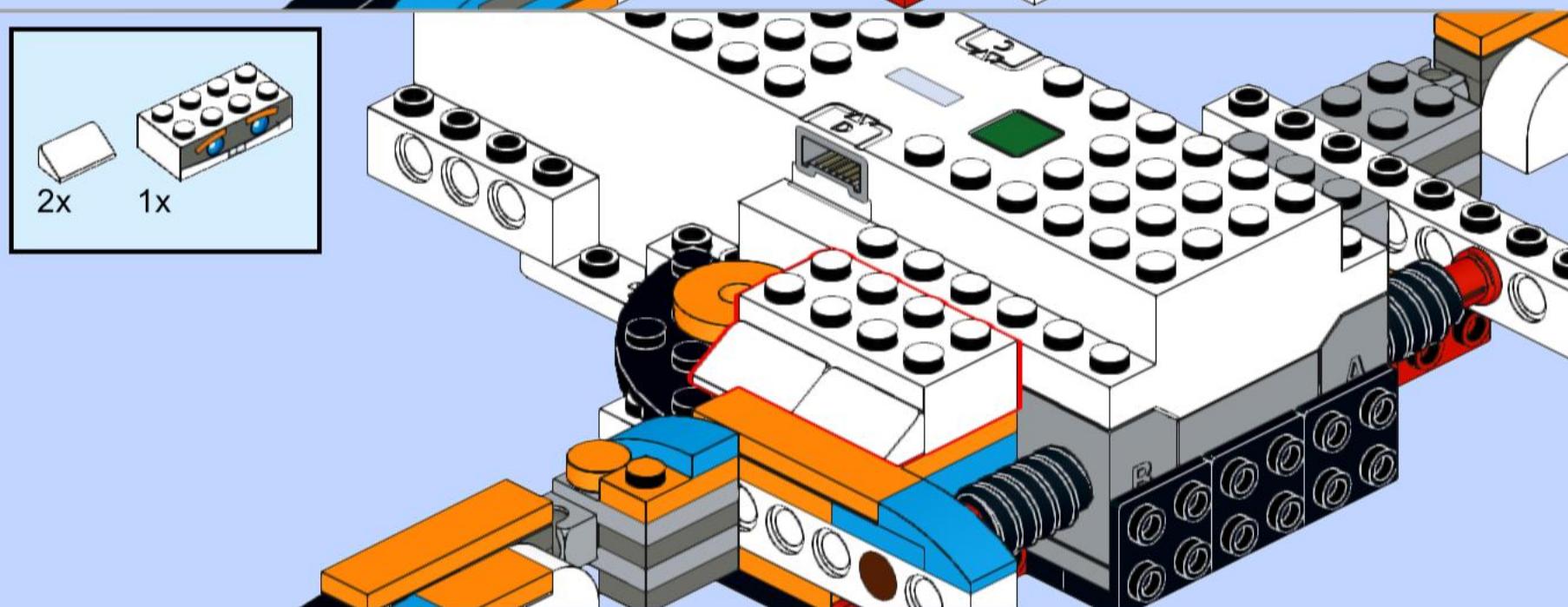
**23**



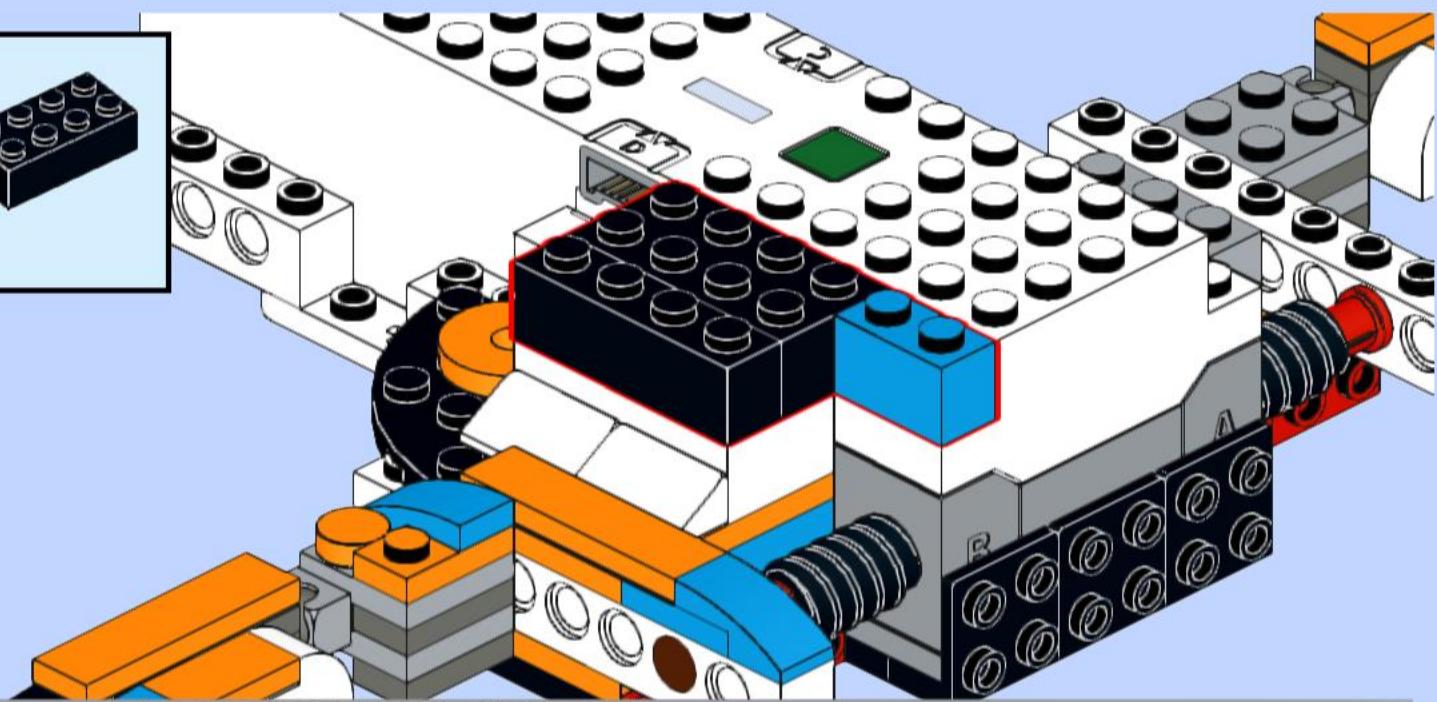
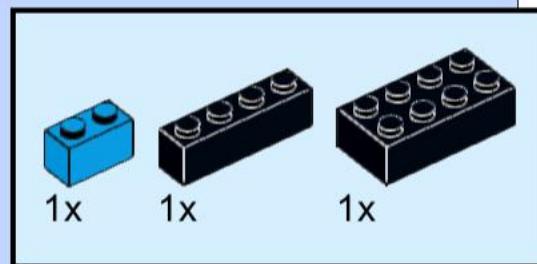
**24**



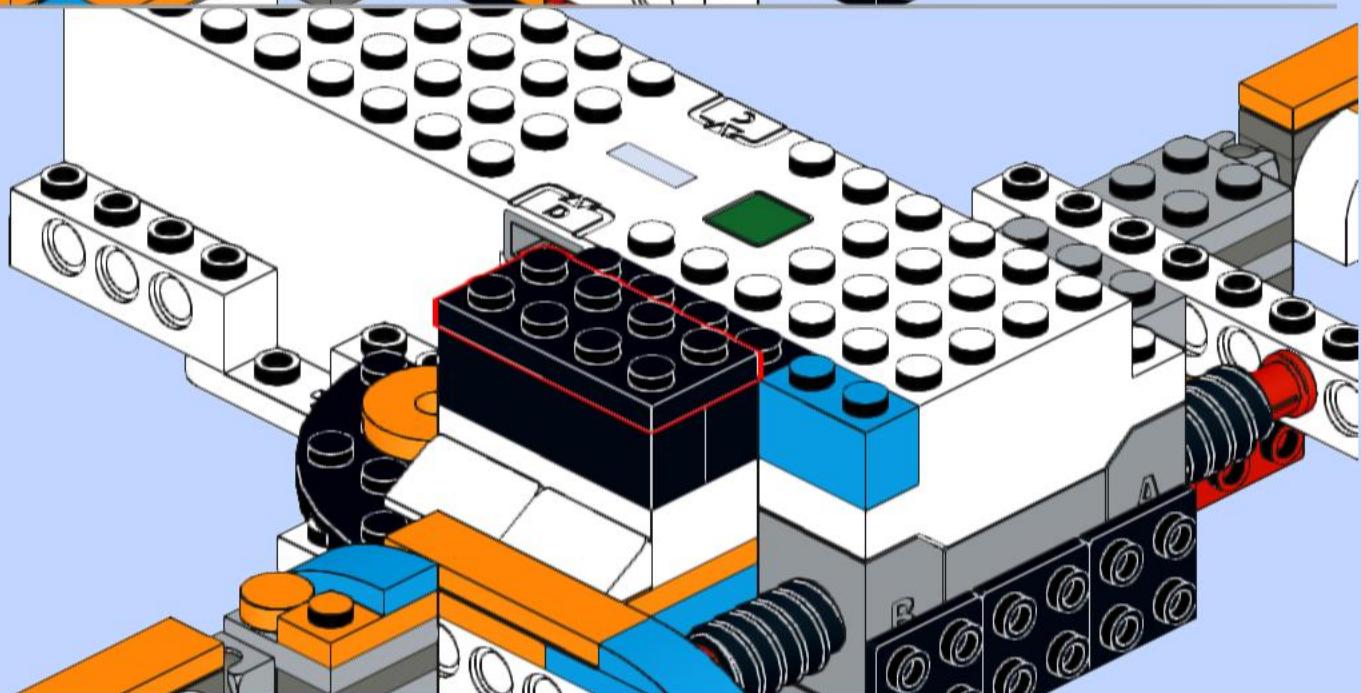
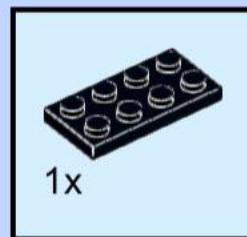
**25**



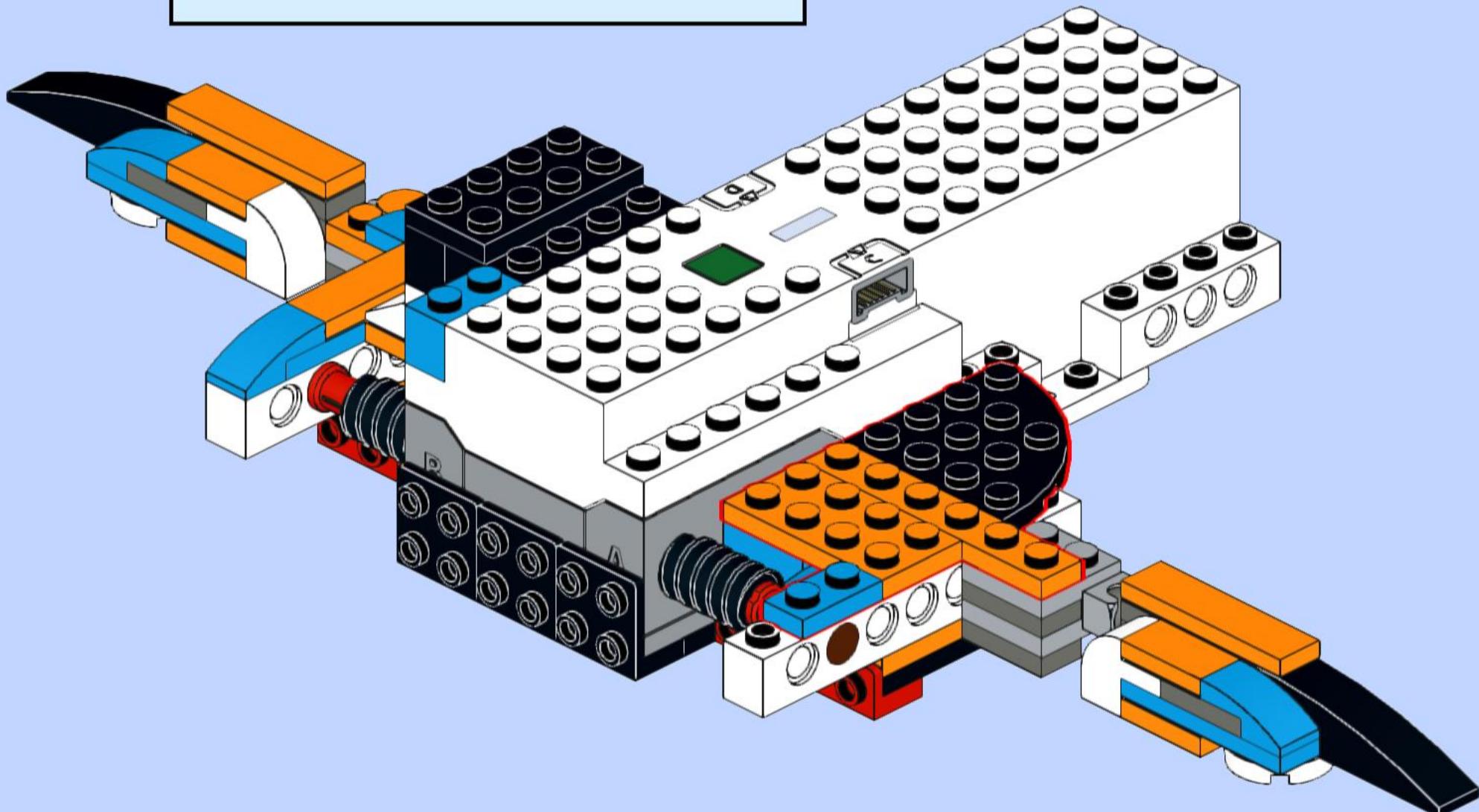
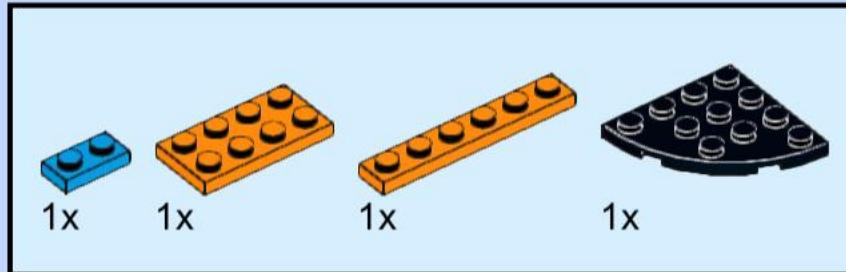
**26**



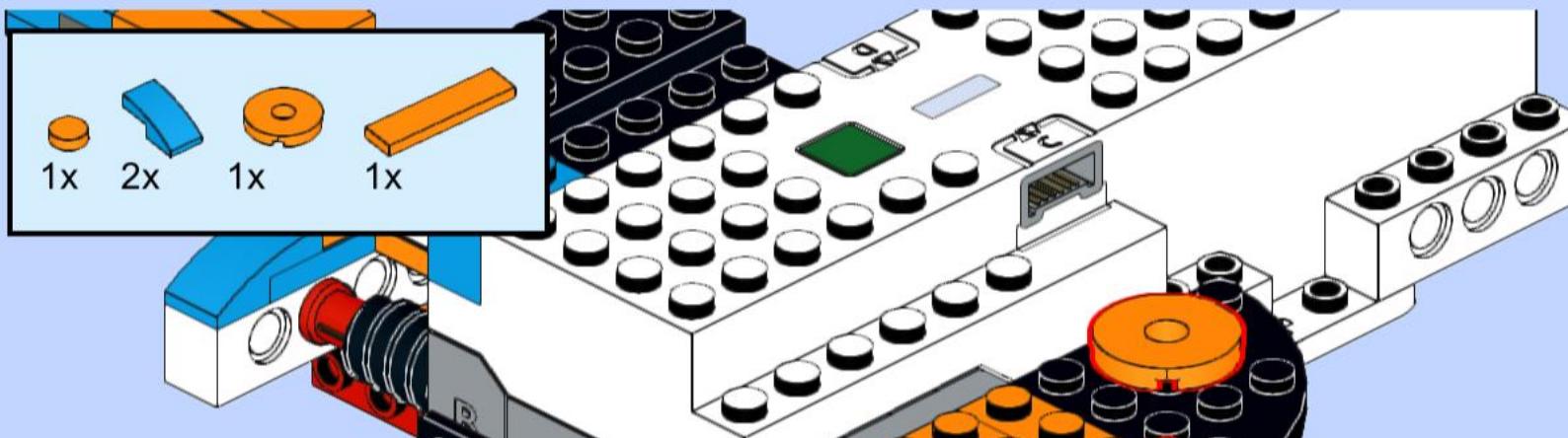
**27**



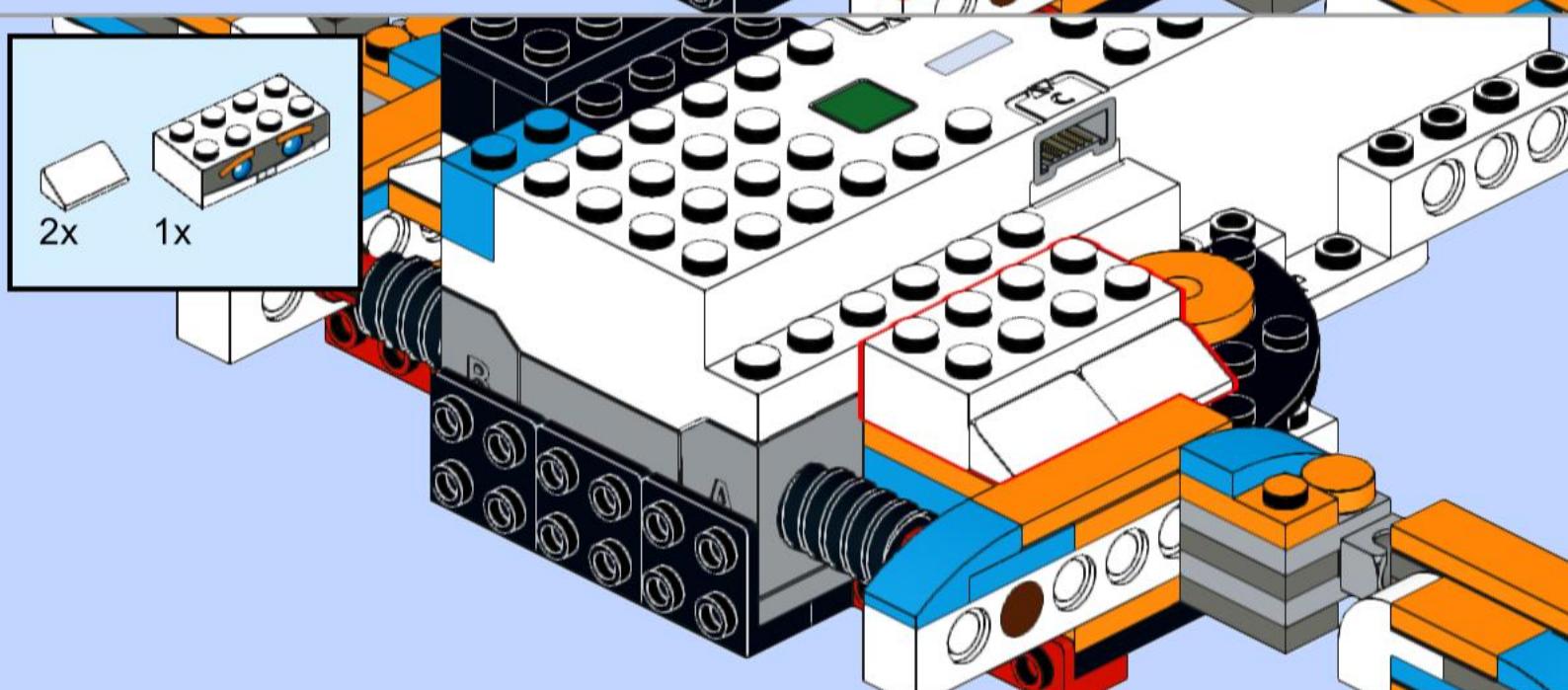
**28**



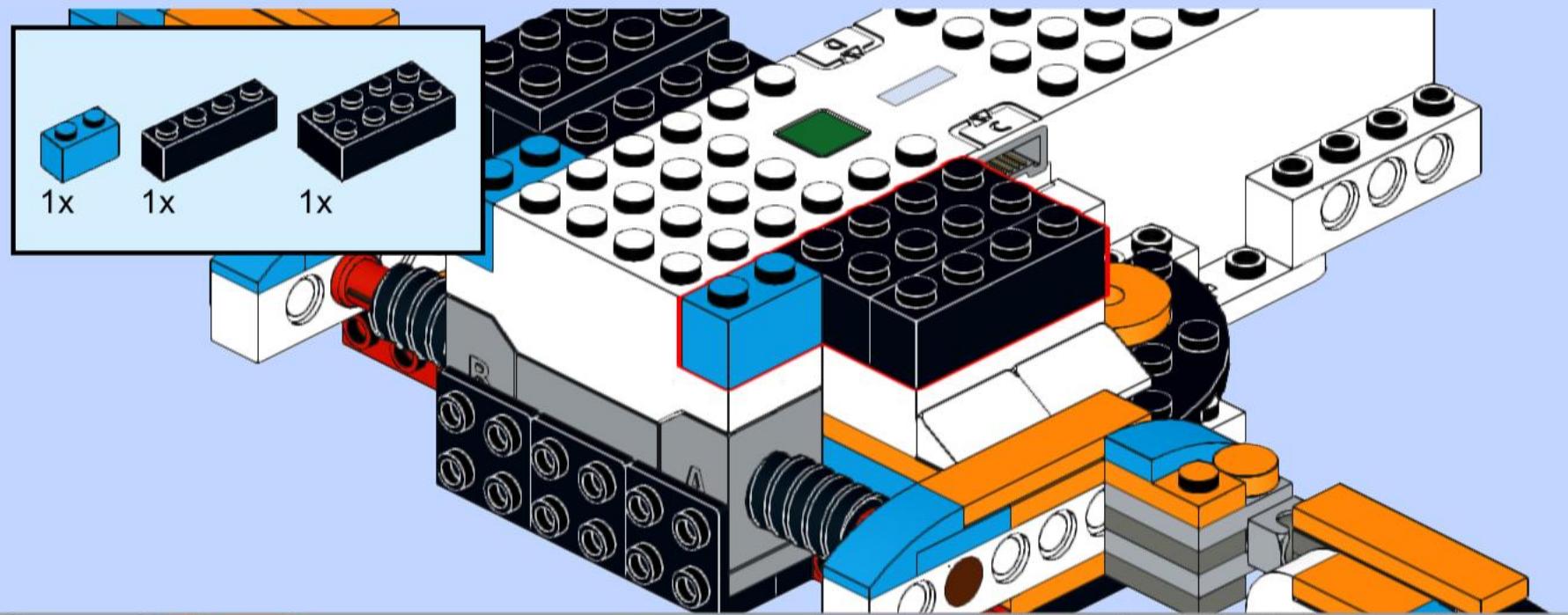
**29**



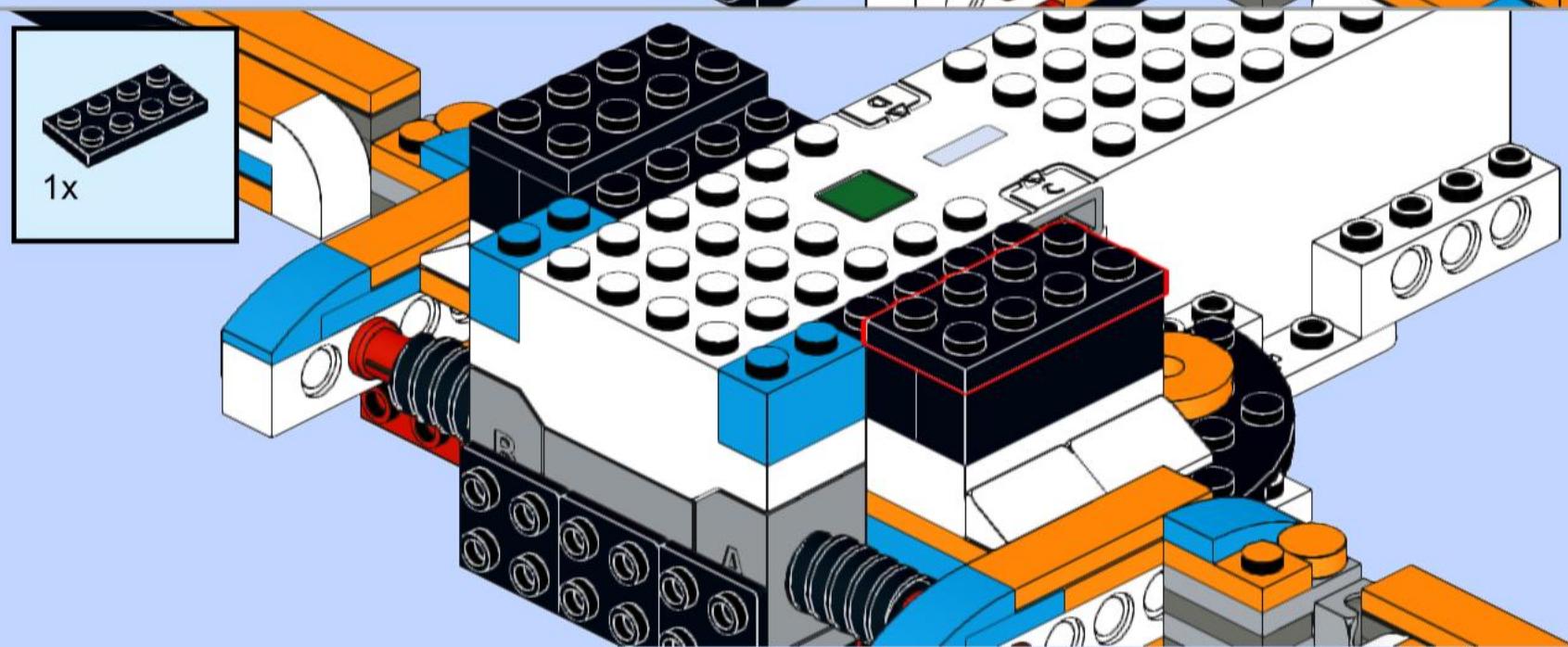
**30**



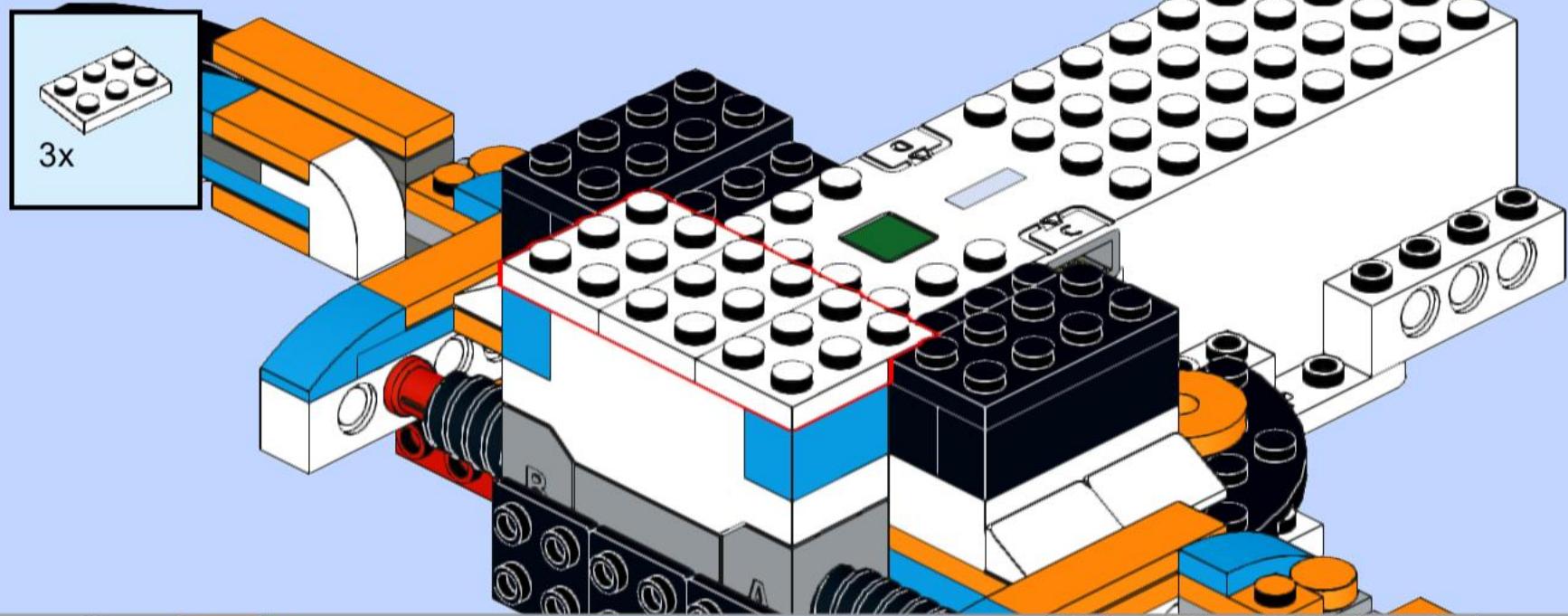
**31**



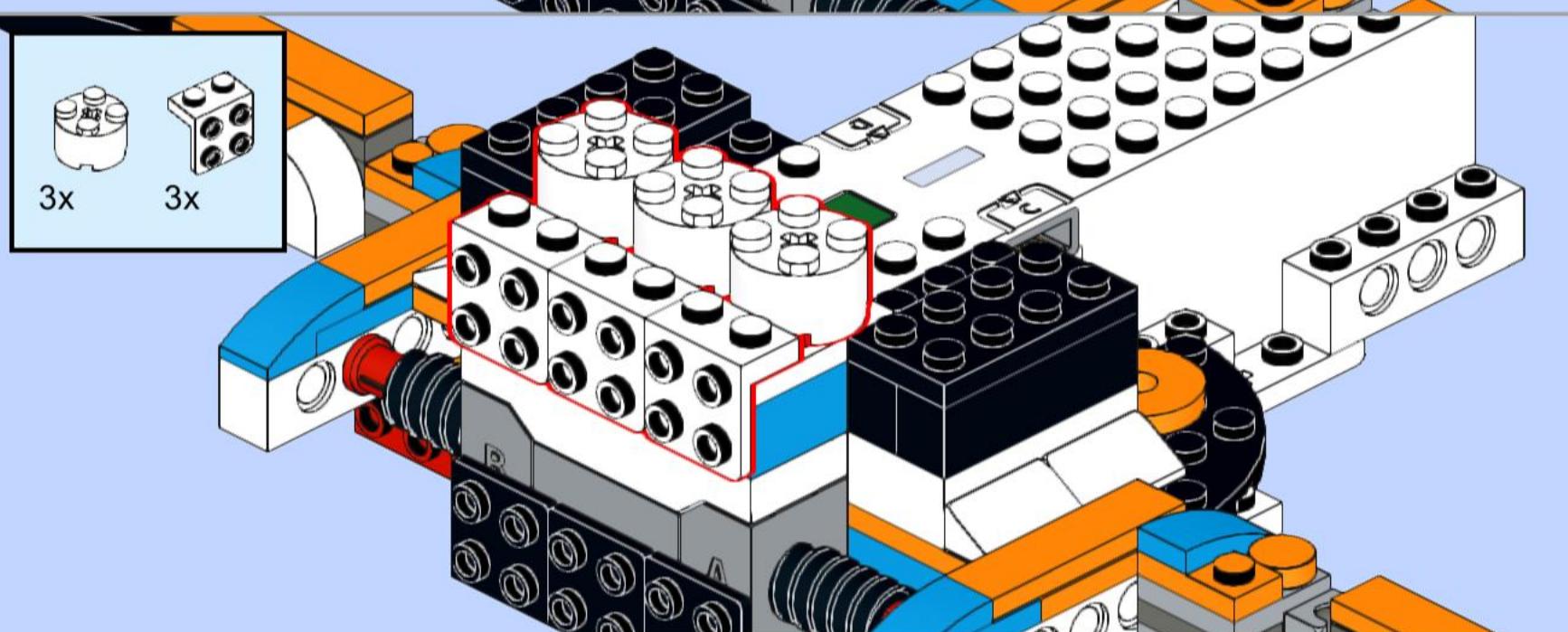
**32**



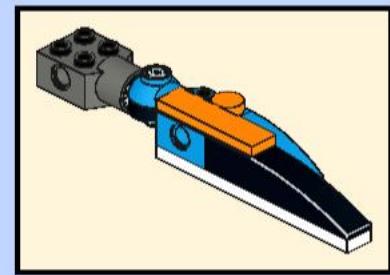
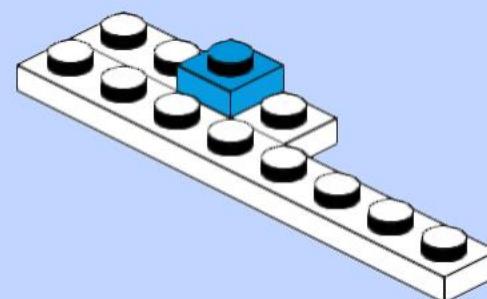
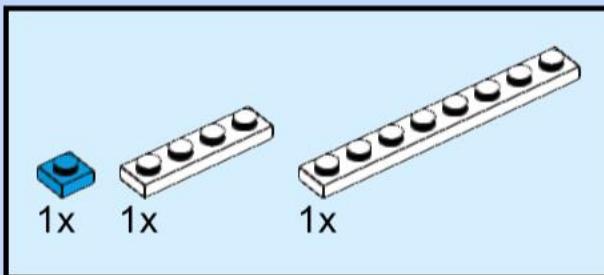
**33**



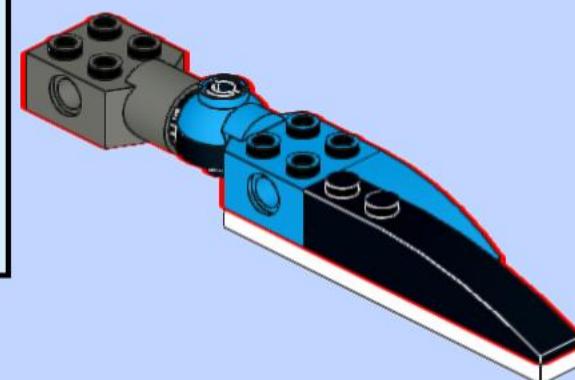
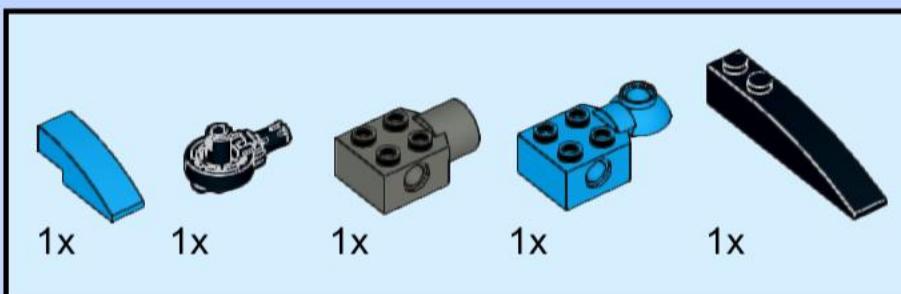
**34**



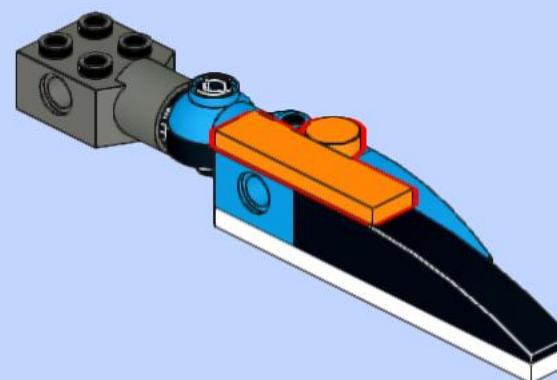
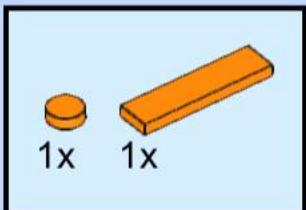
**35**



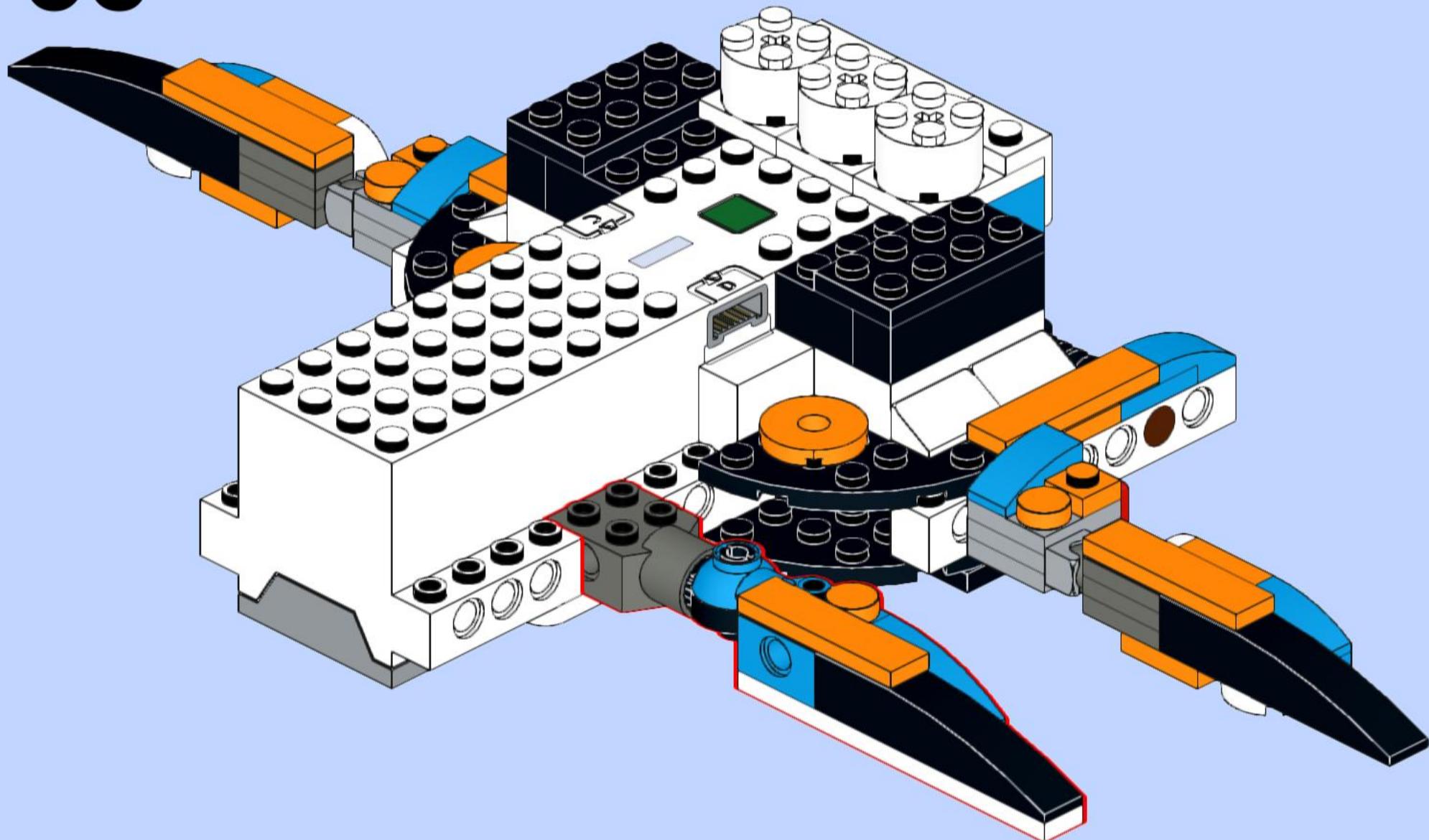
**36**



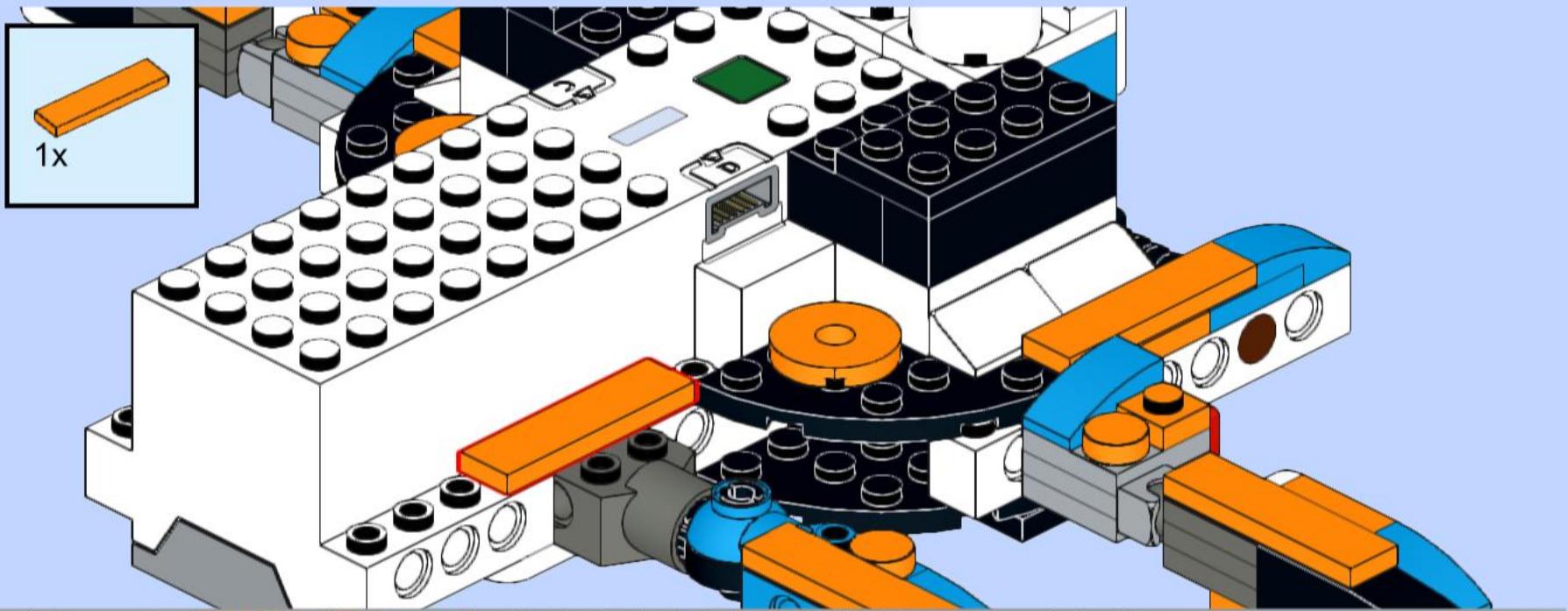
**37**



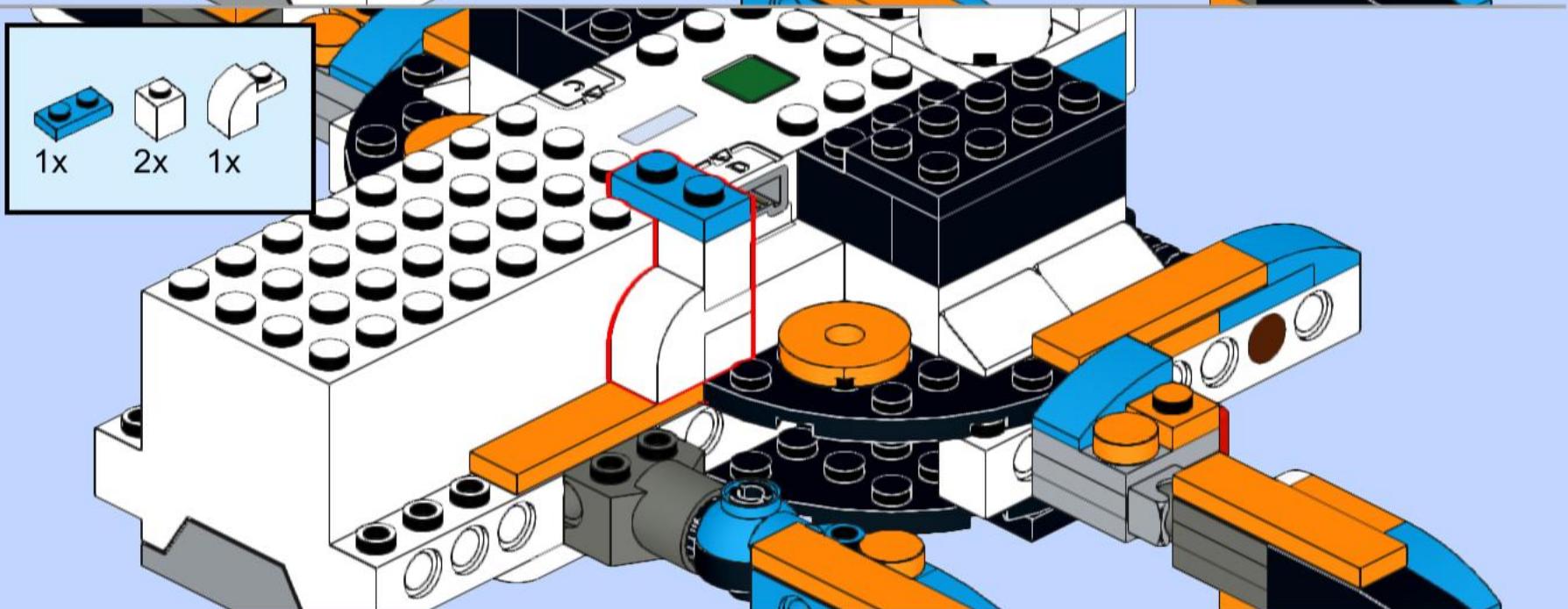
38



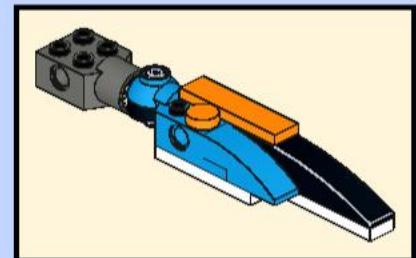
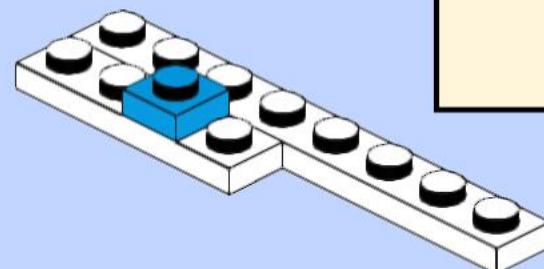
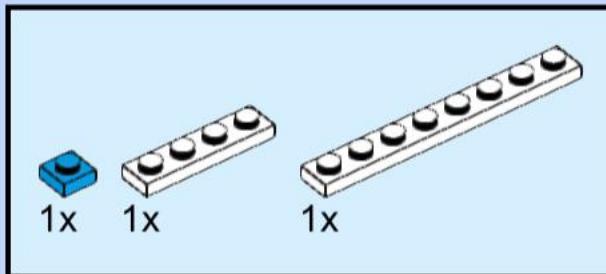
**39**



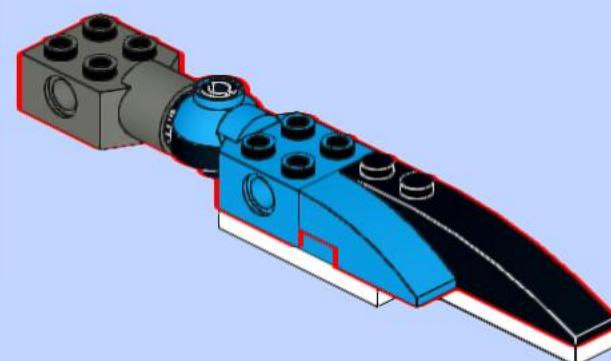
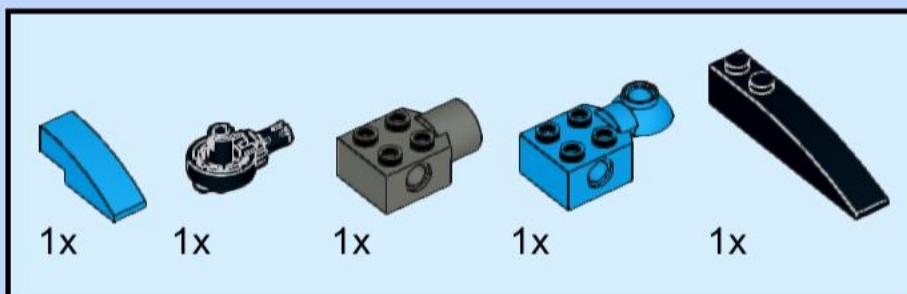
**40**



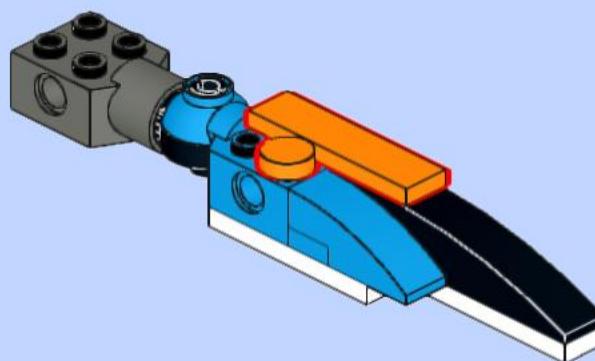
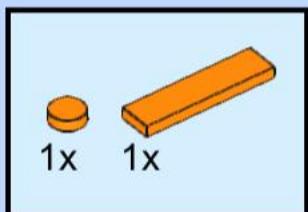
**41**



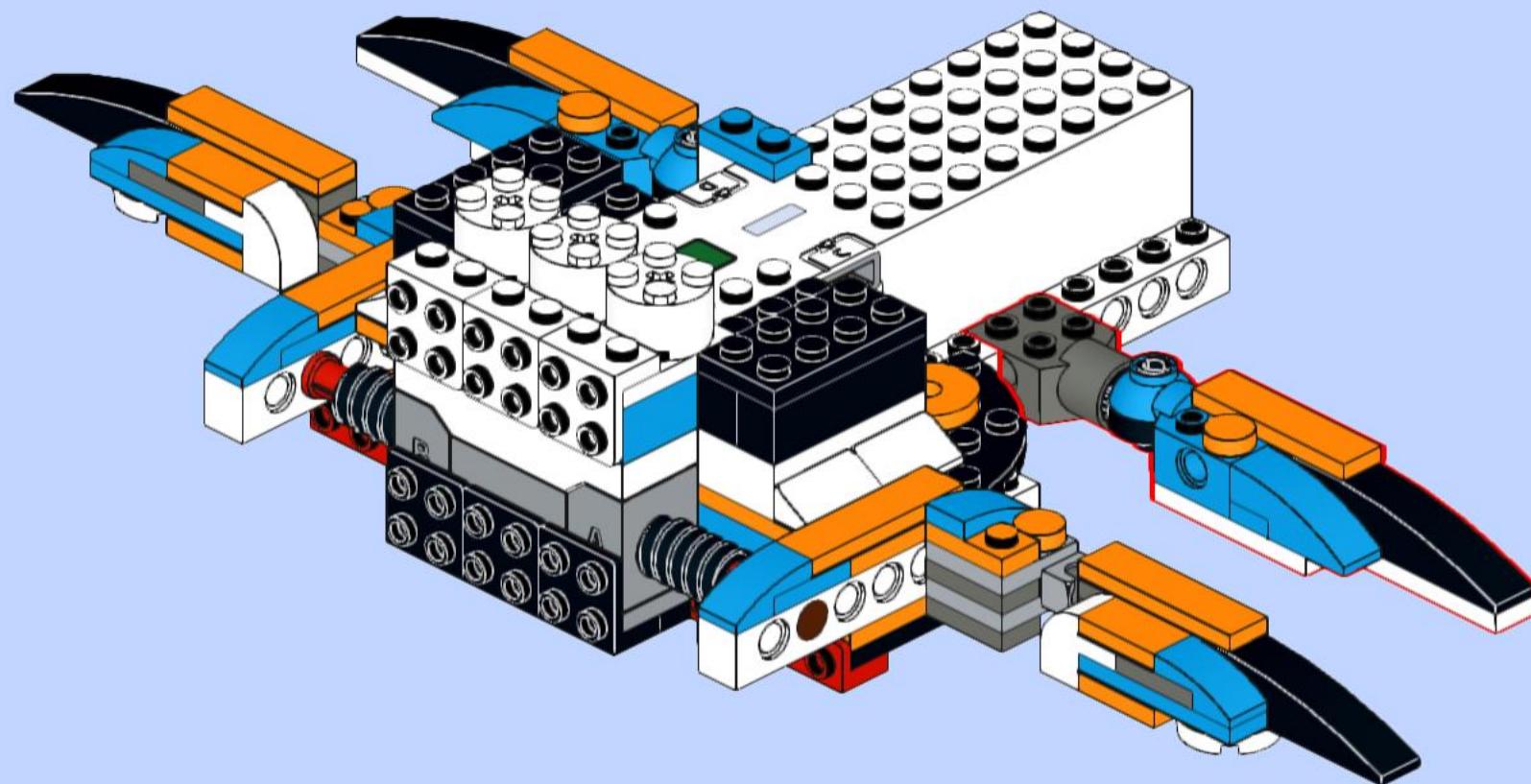
**42**



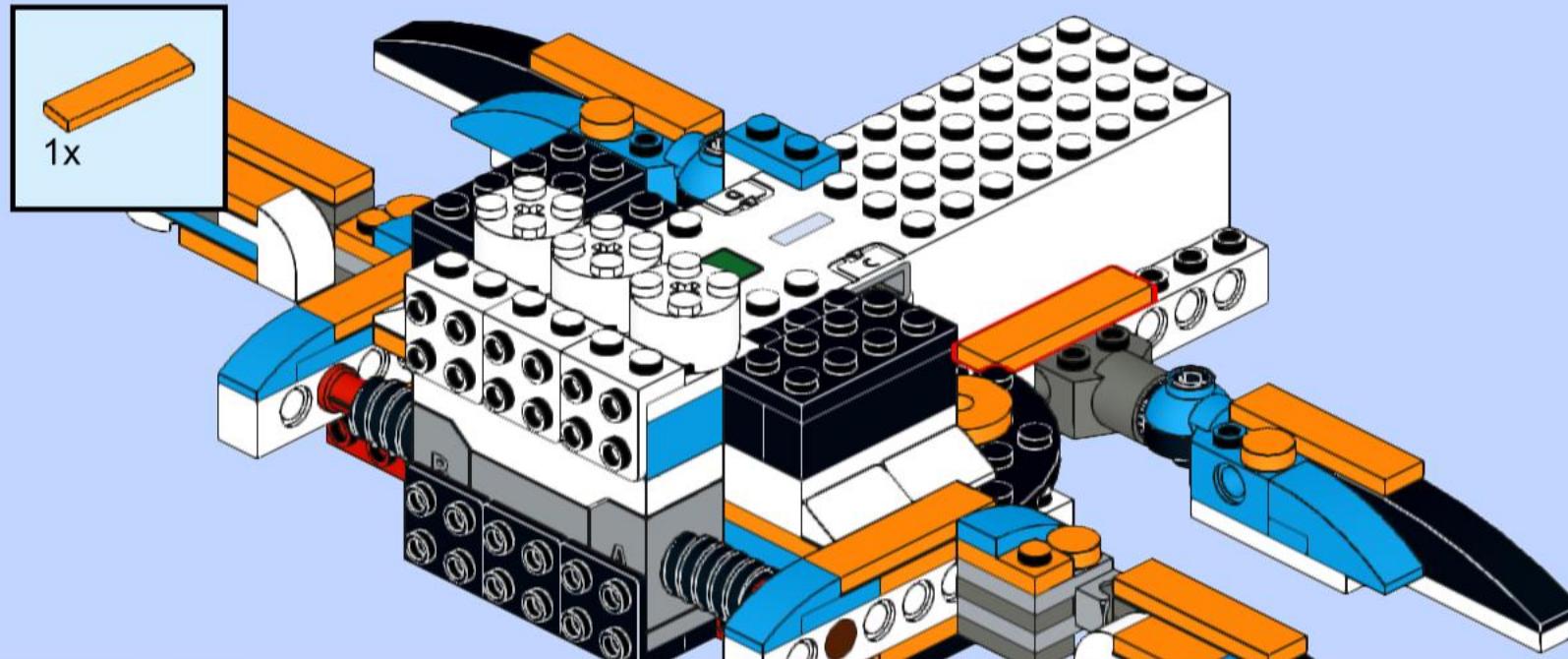
**43**



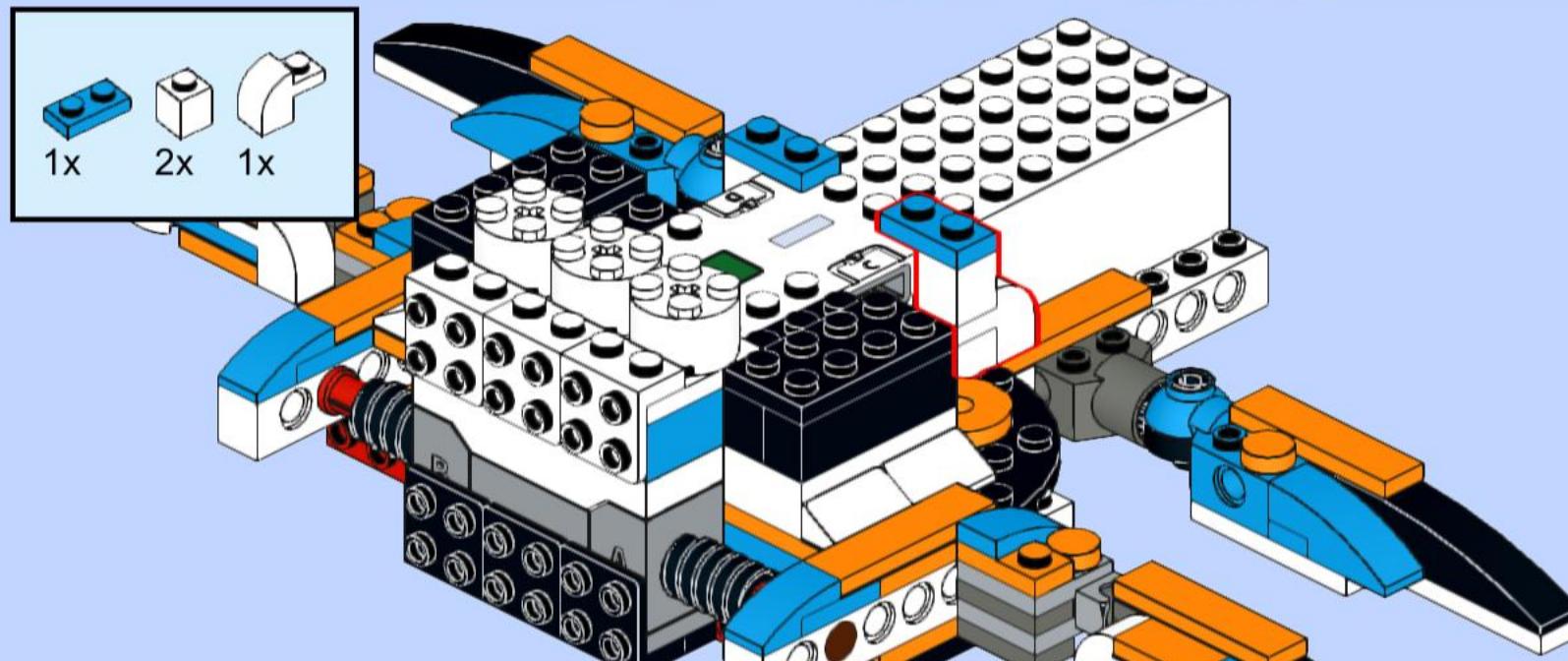
44



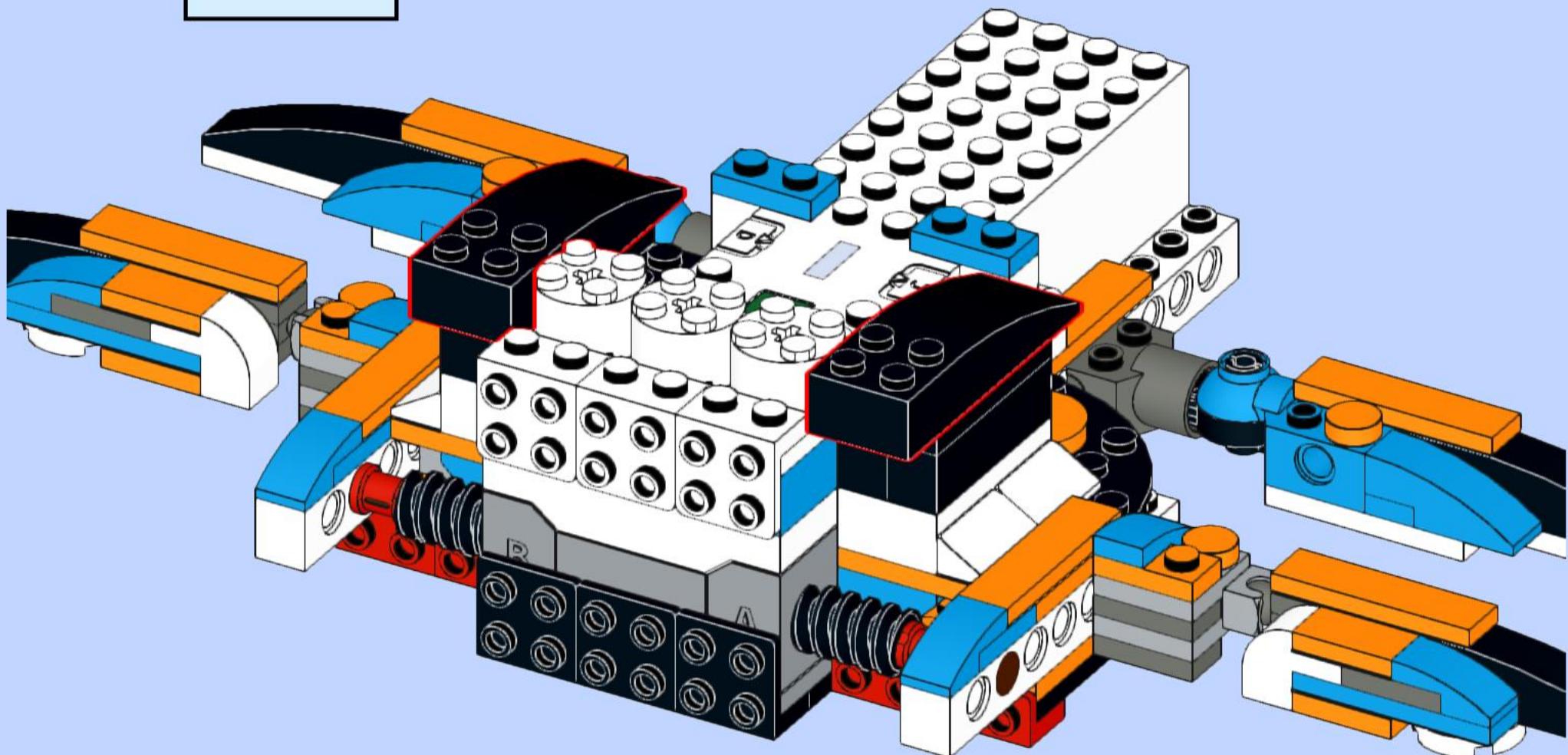
**45**



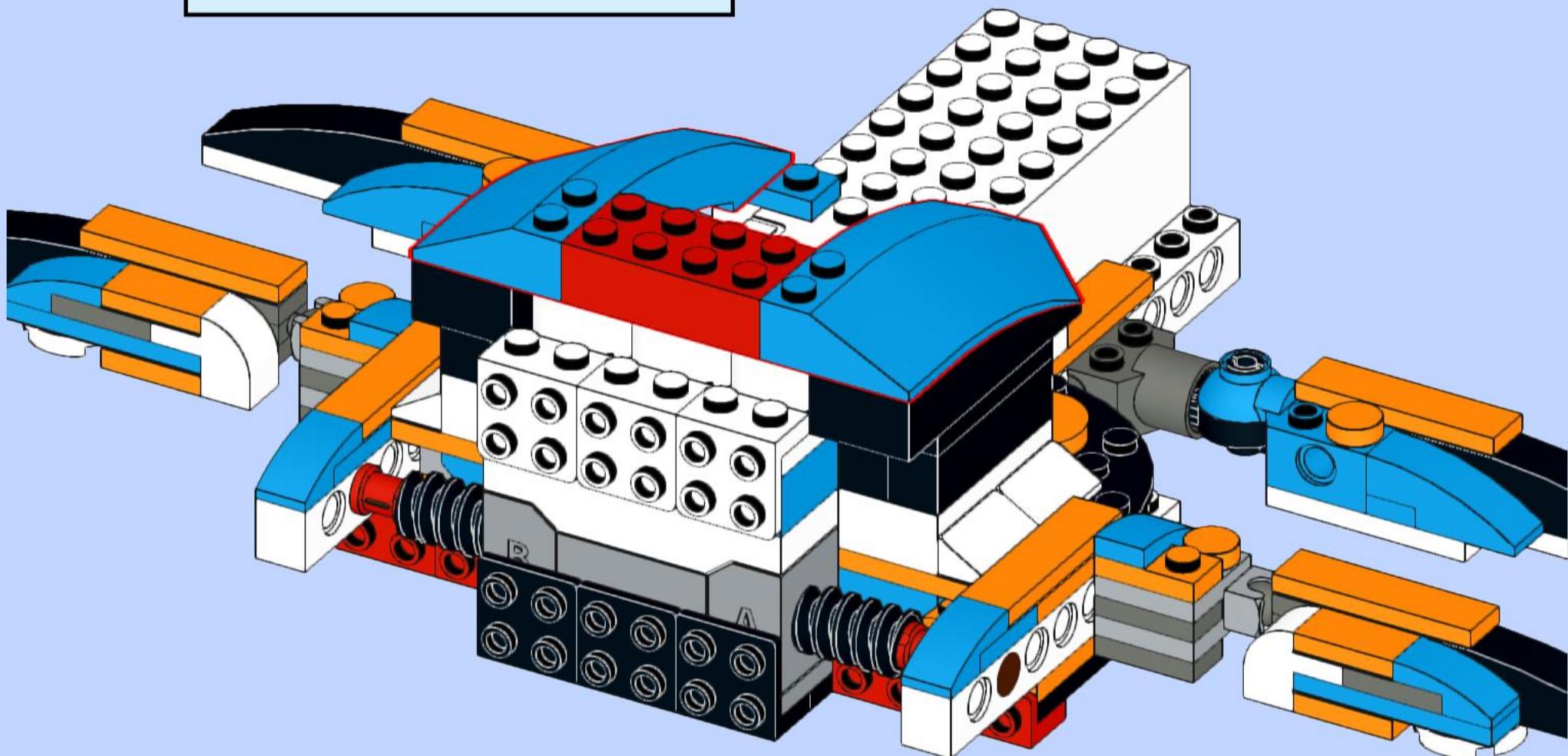
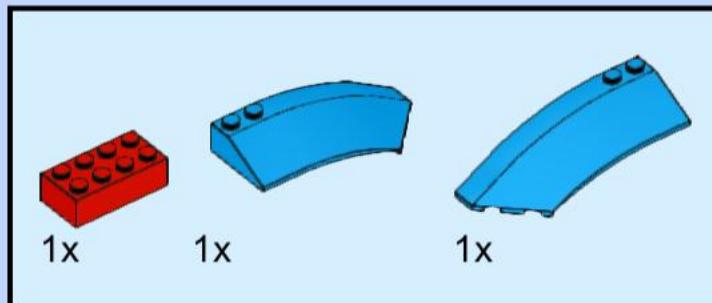
**46**



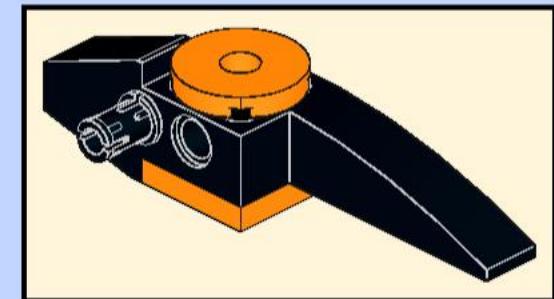
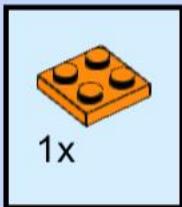
47



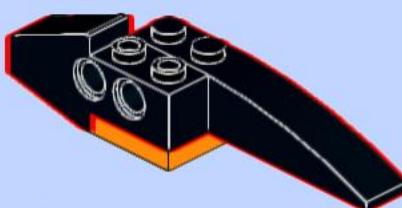
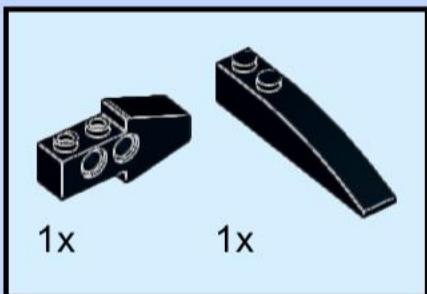
**48**



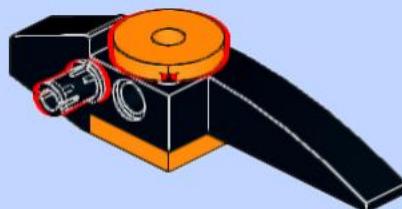
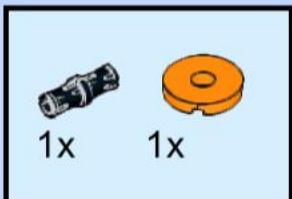
**49**



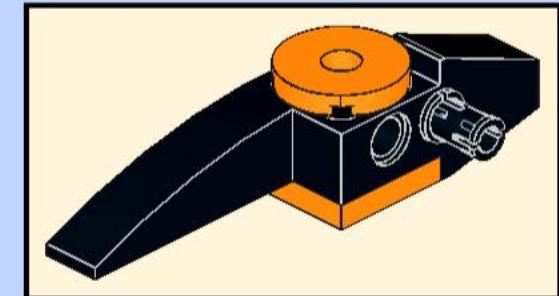
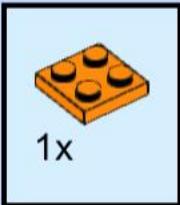
**50**



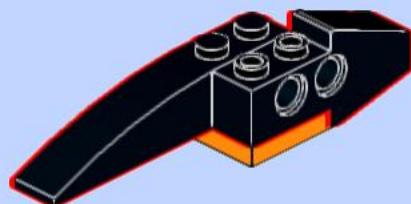
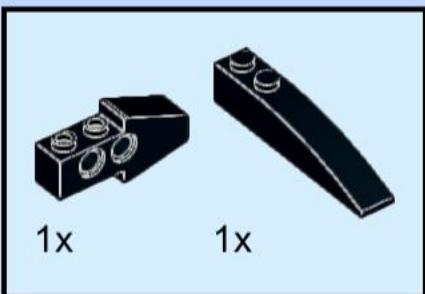
**51**



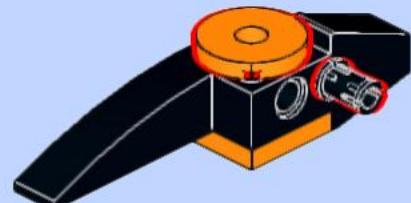
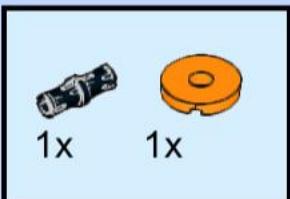
**52**



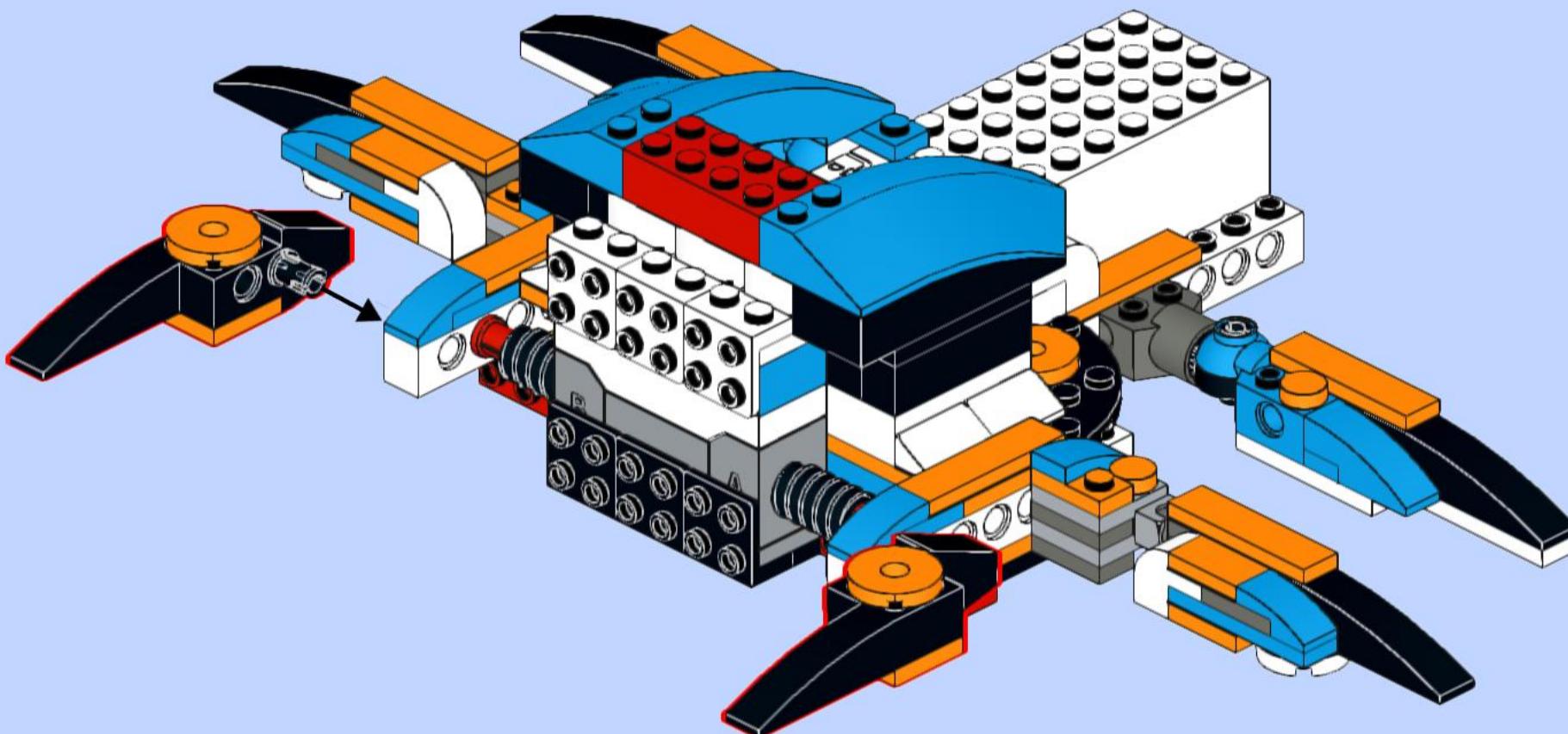
**53**



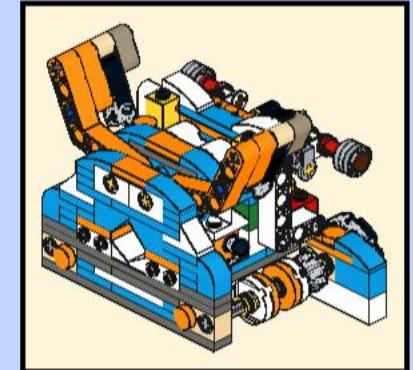
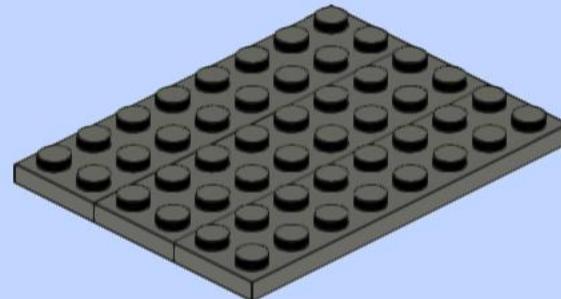
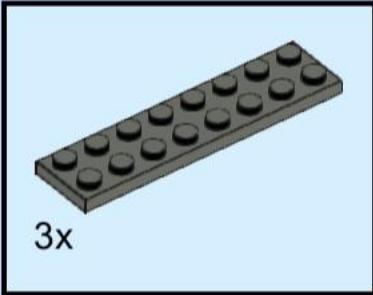
**54**



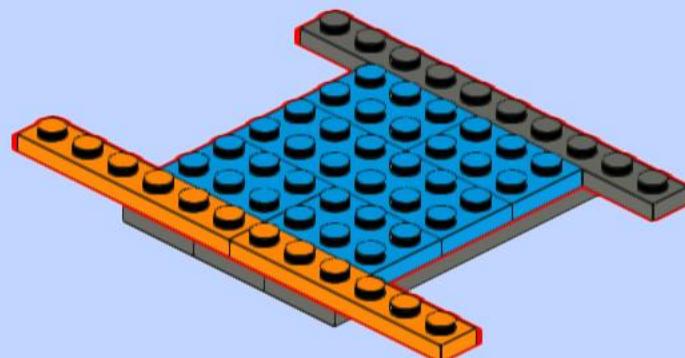
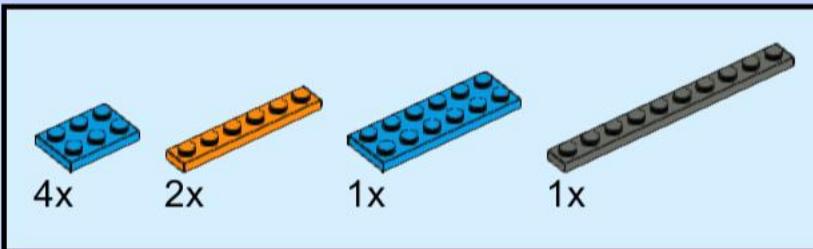
55



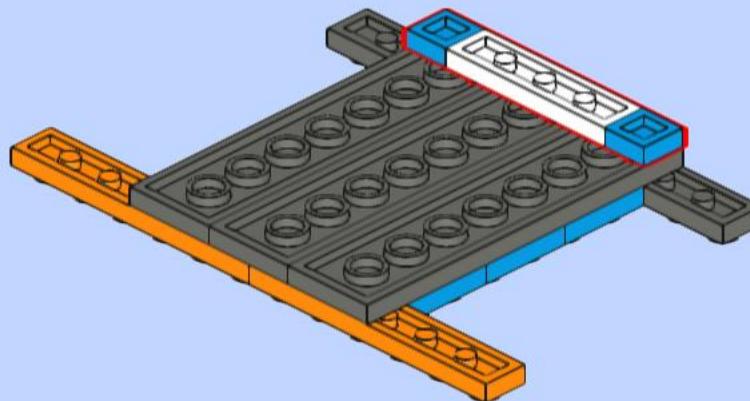
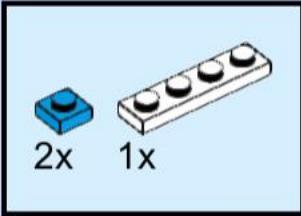
**56**



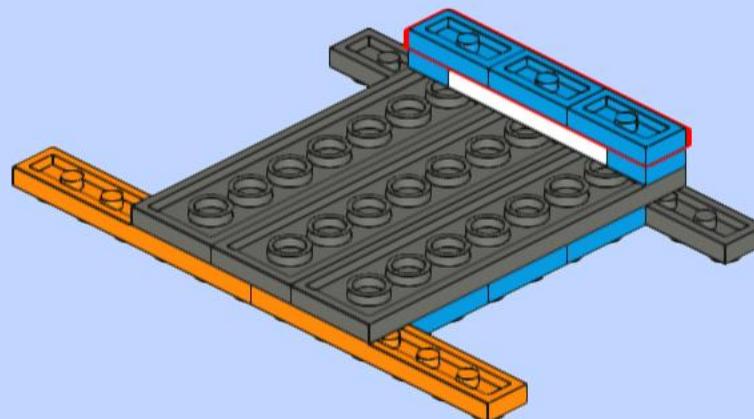
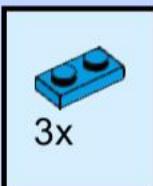
**57**



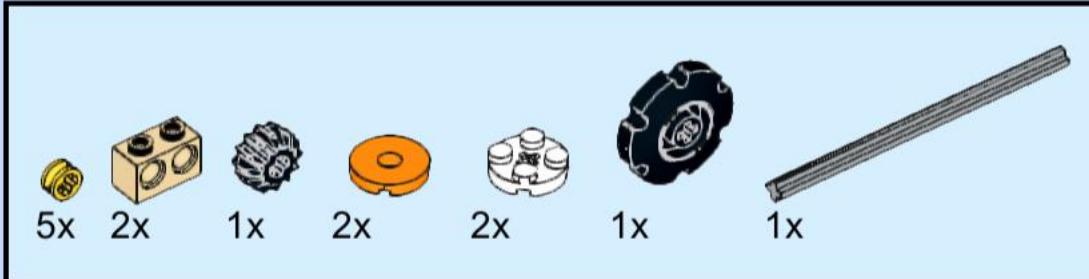
**58**



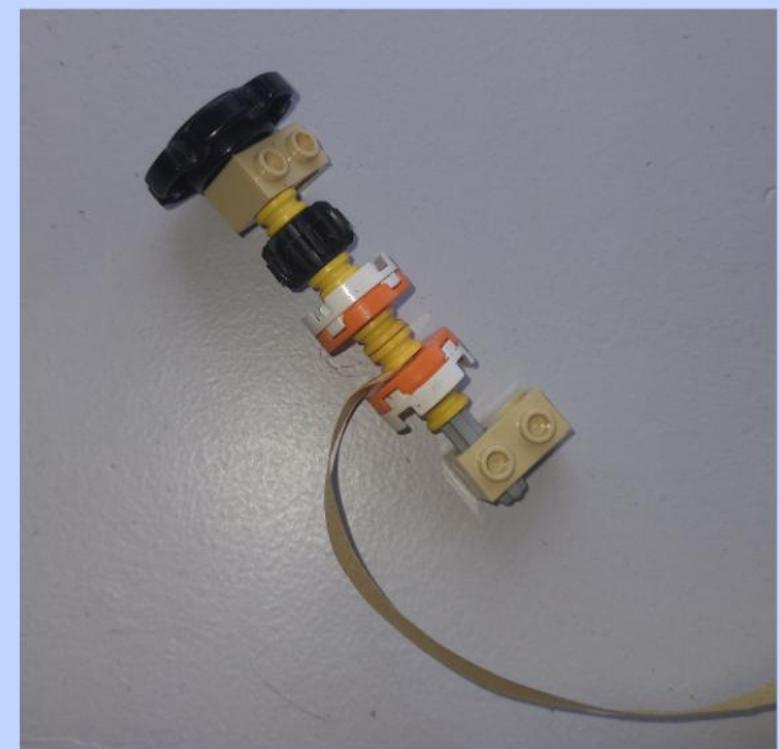
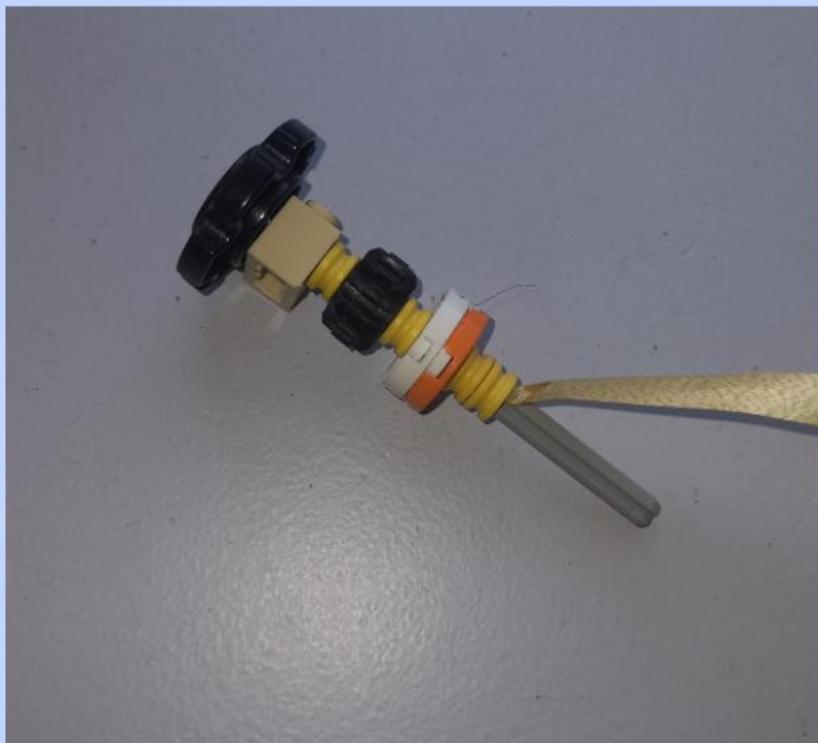
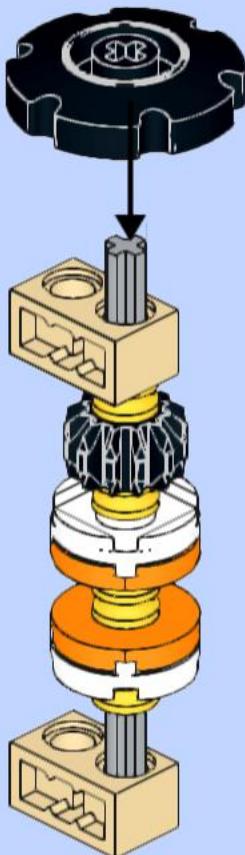
**59**



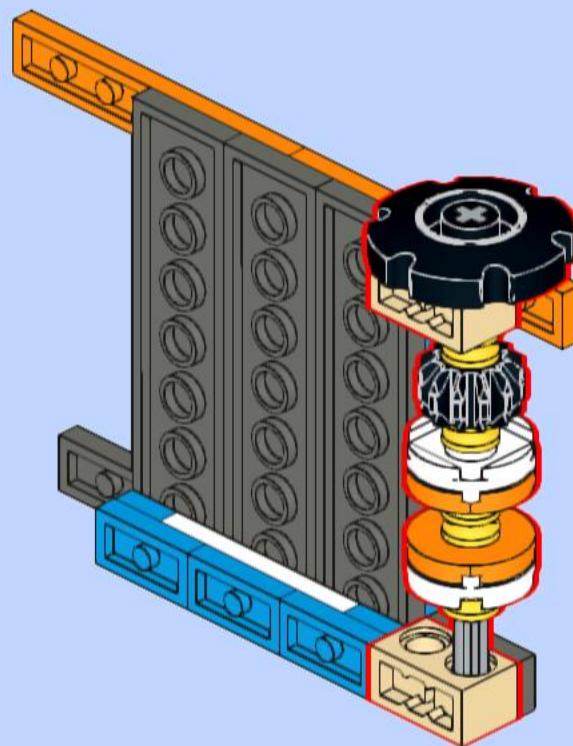
**60**



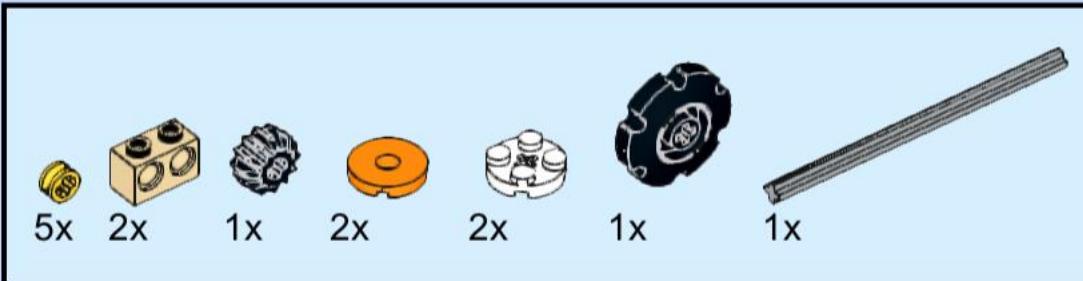
Tie a 1.5m length of ribbon as shown in the photo.



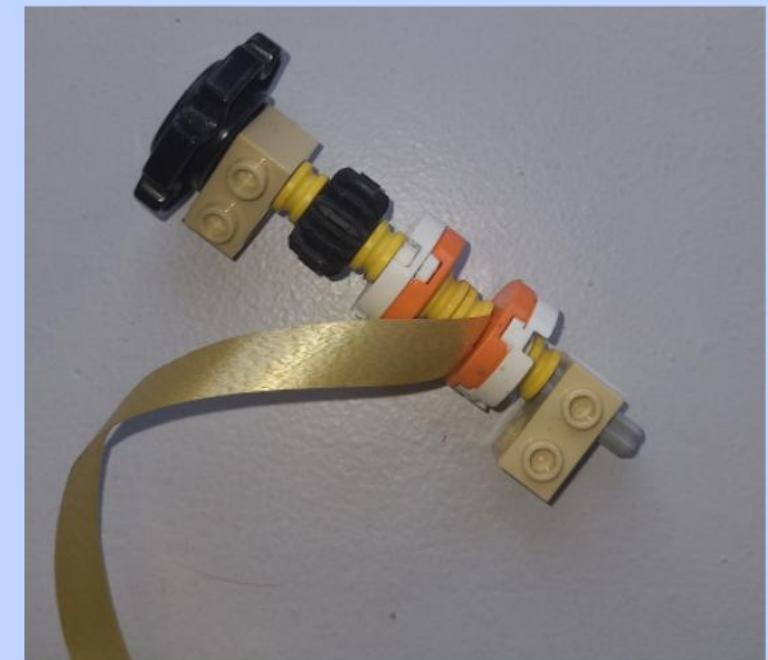
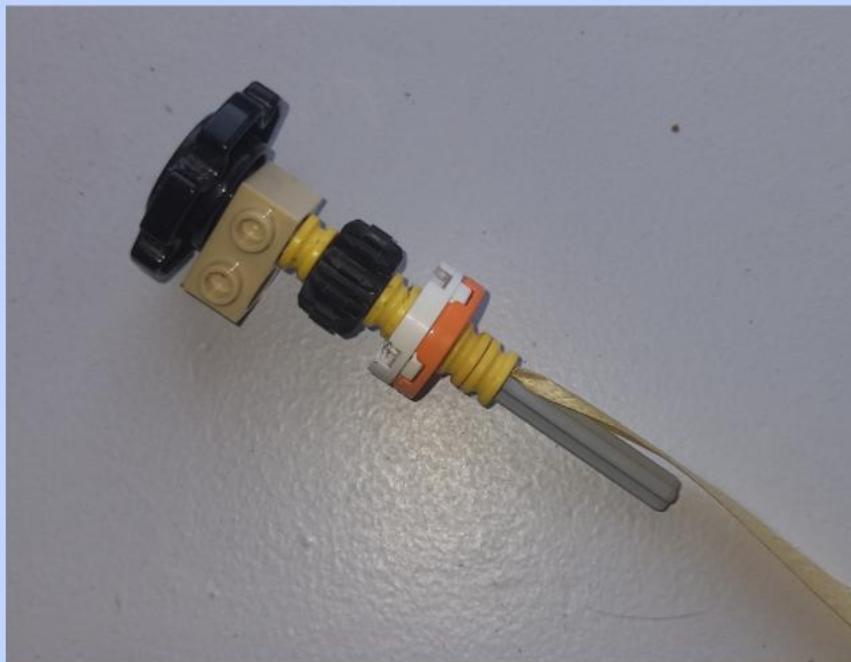
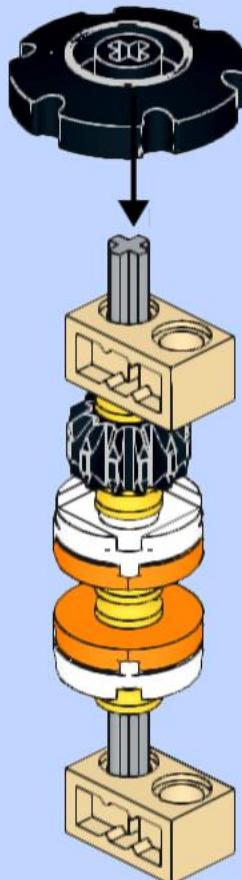
61



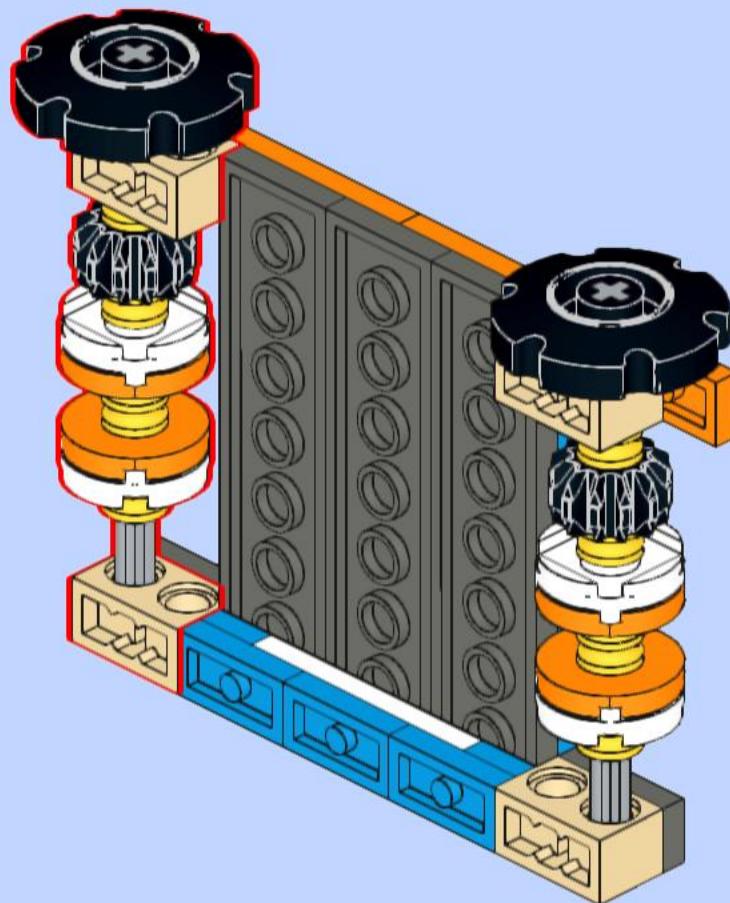
# 62



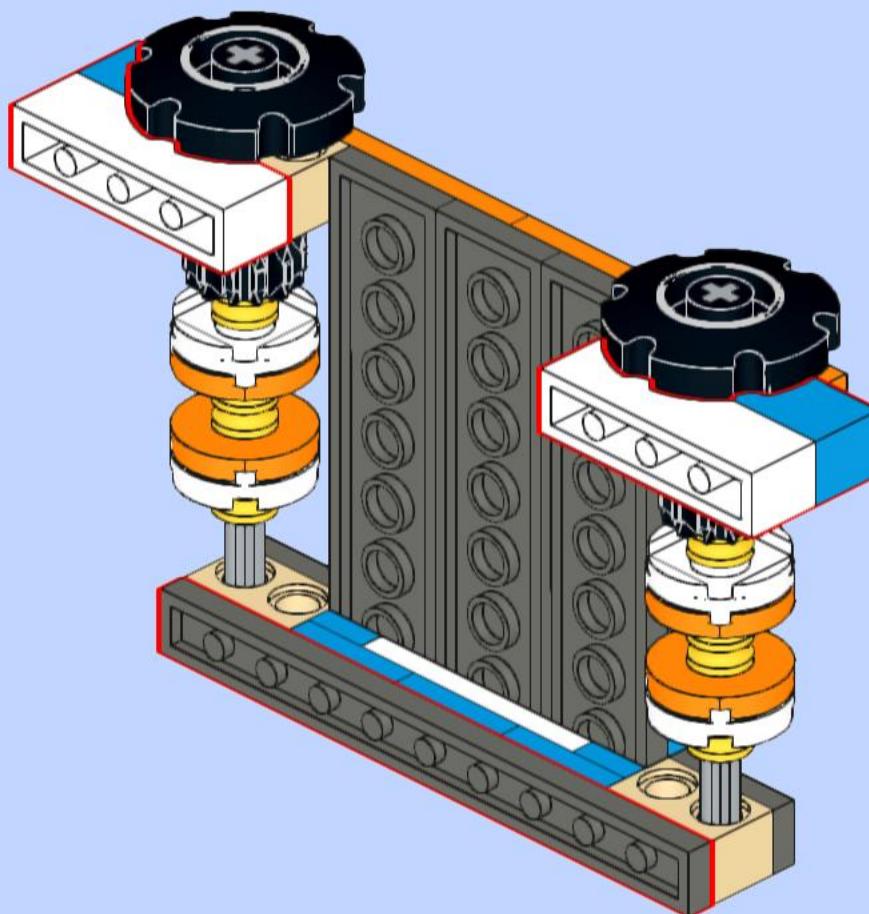
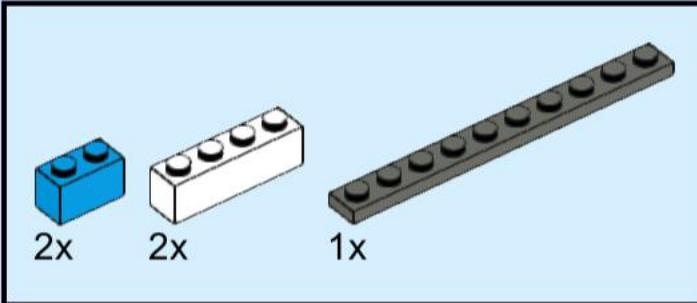
Tie a 1.5m length of ribbon as shown in the photo.



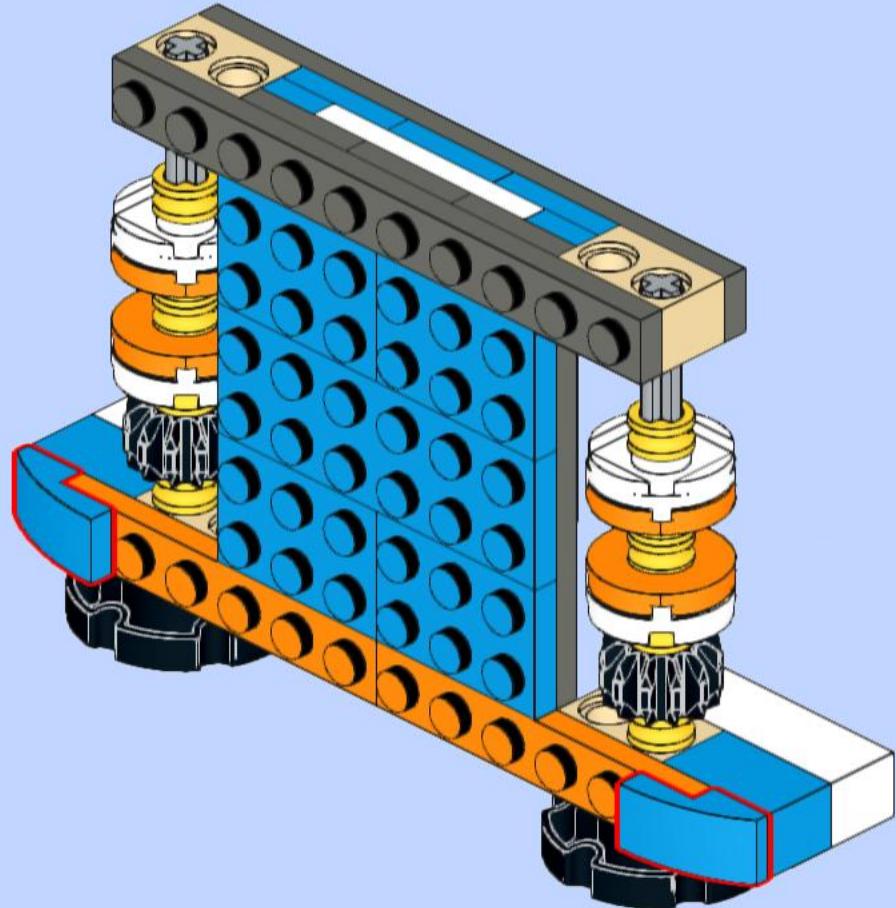
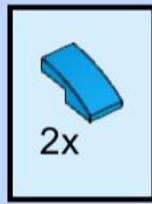
63



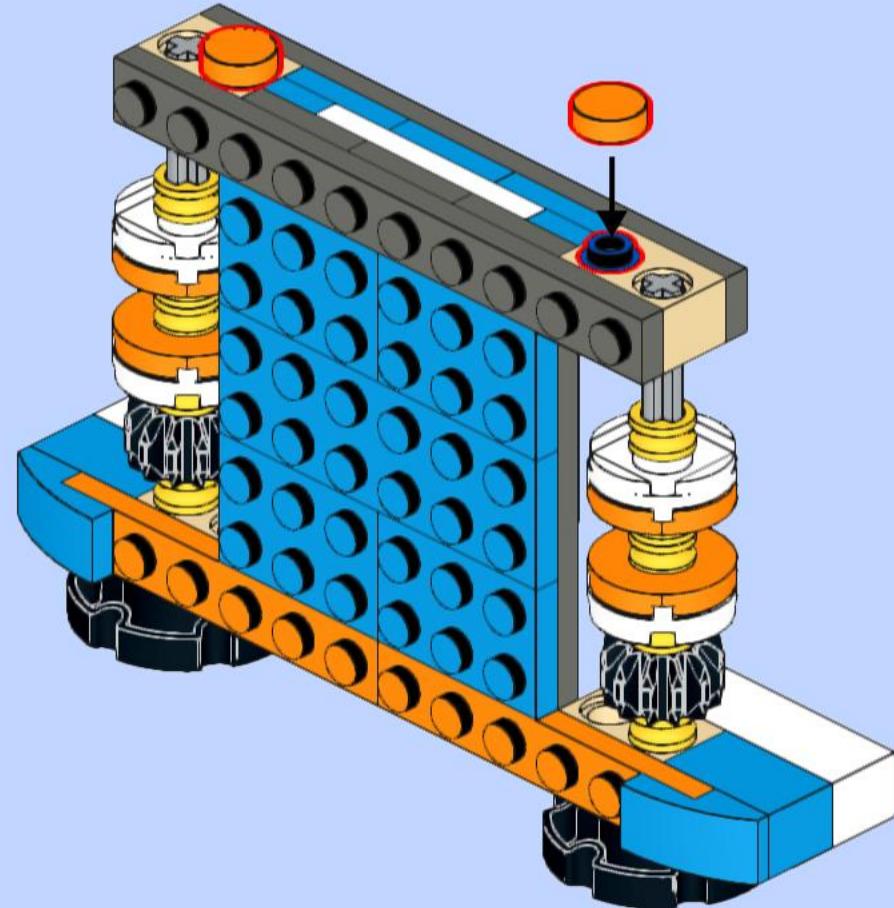
**64**



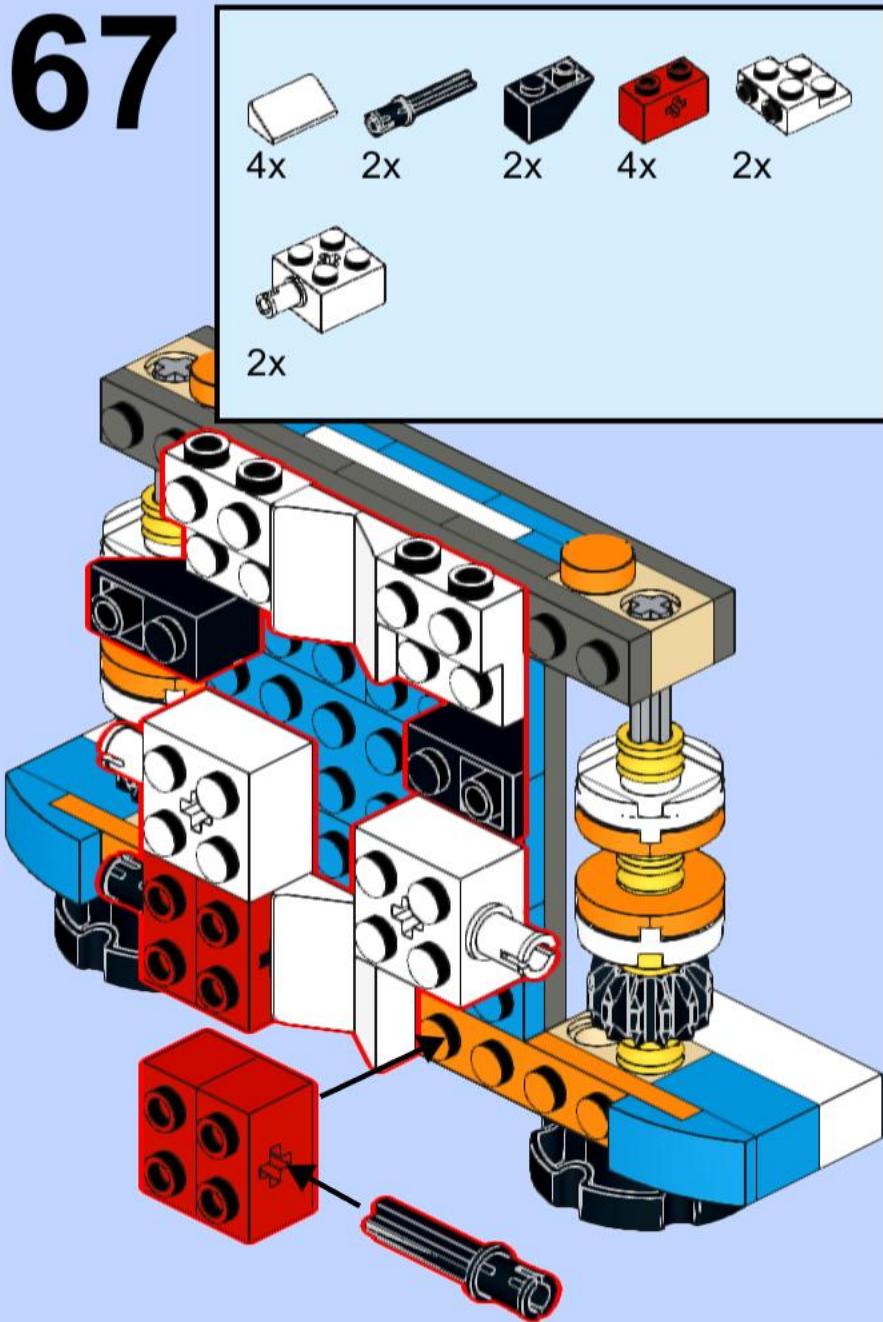
**65**



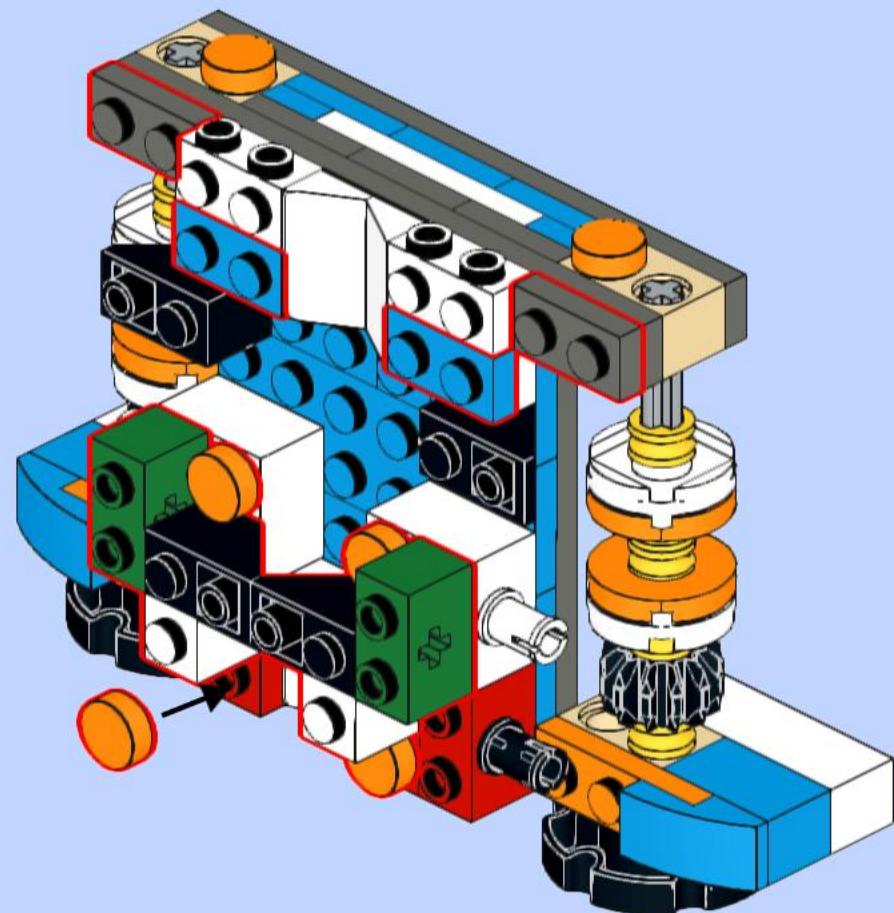
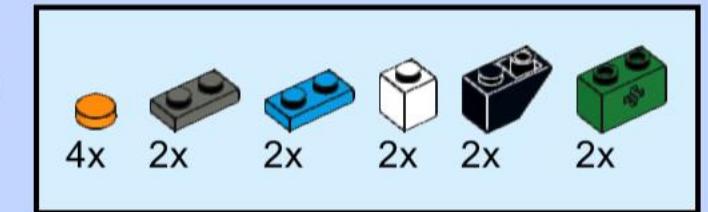
**66**



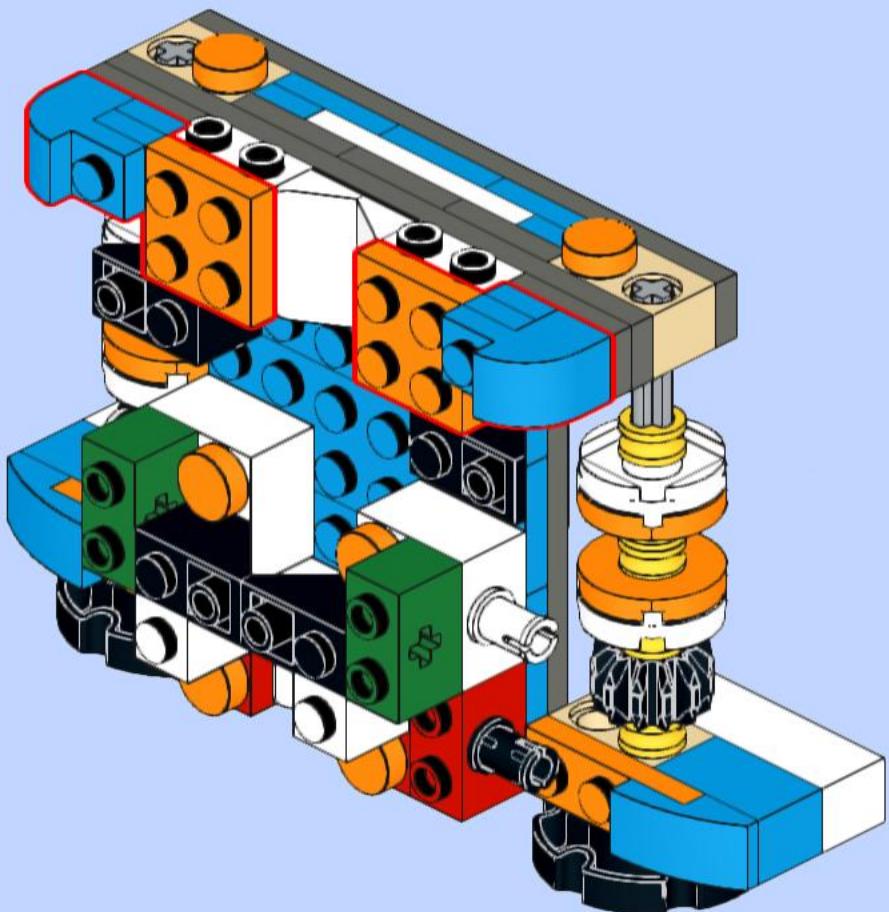
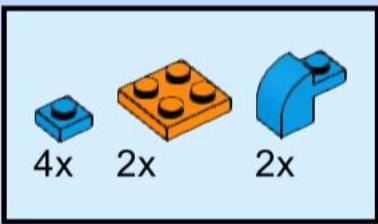
# 67



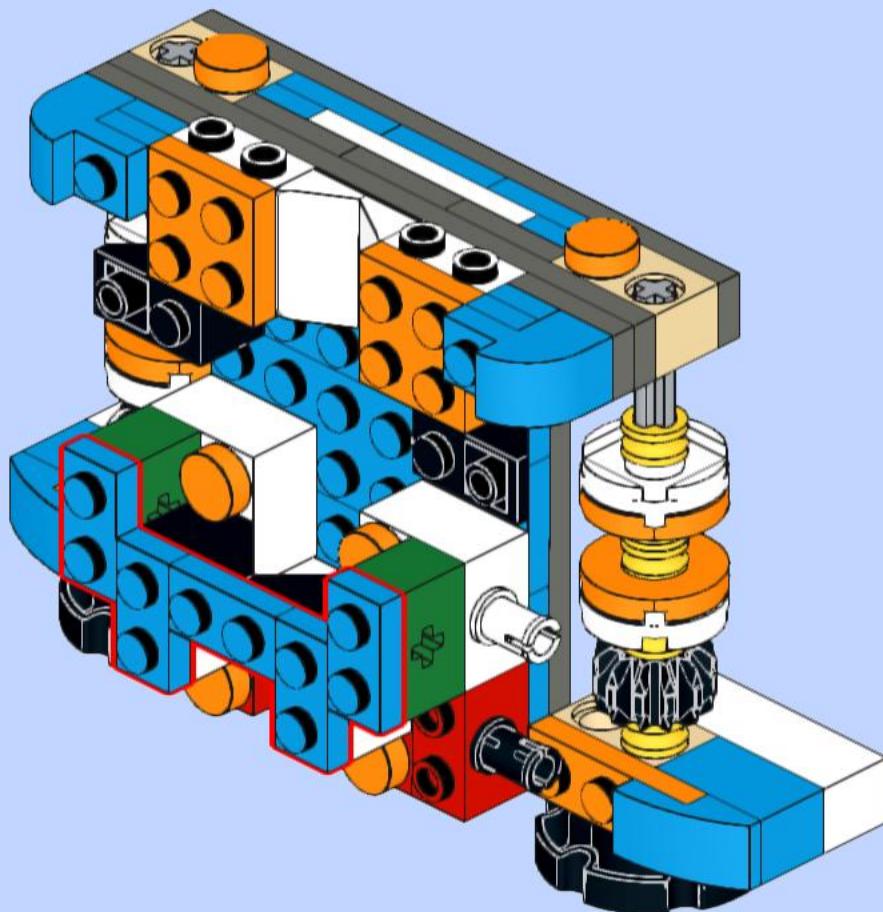
# 68



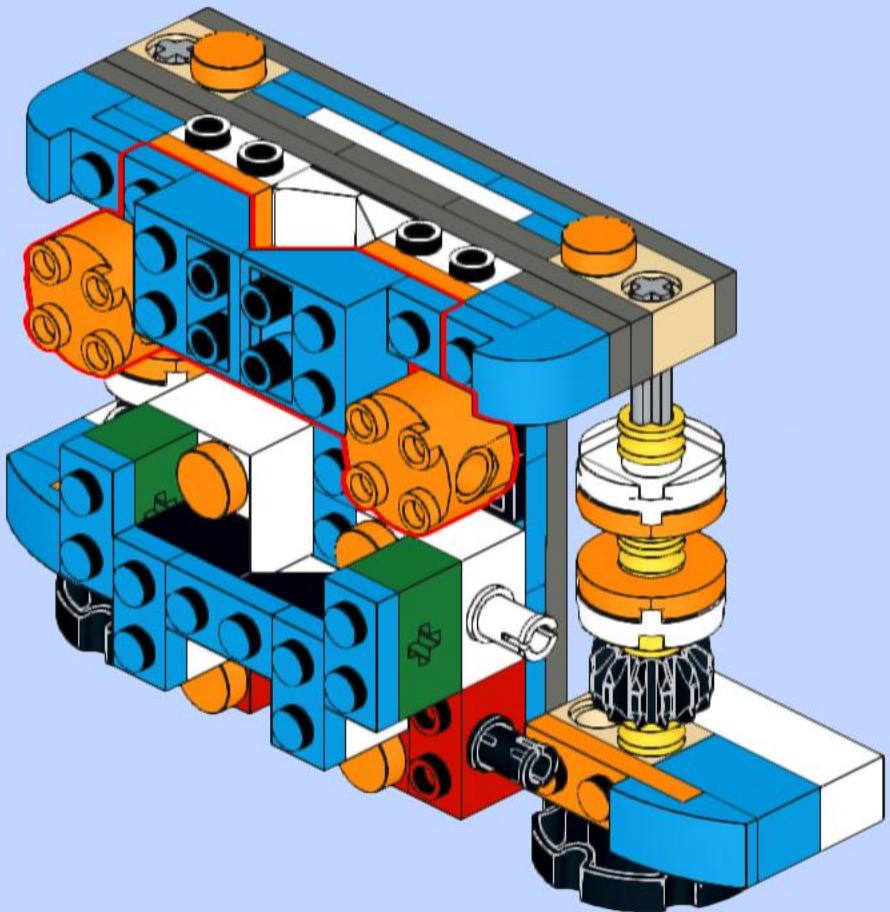
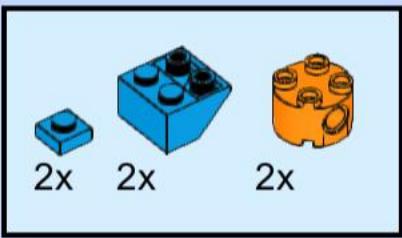
**69**



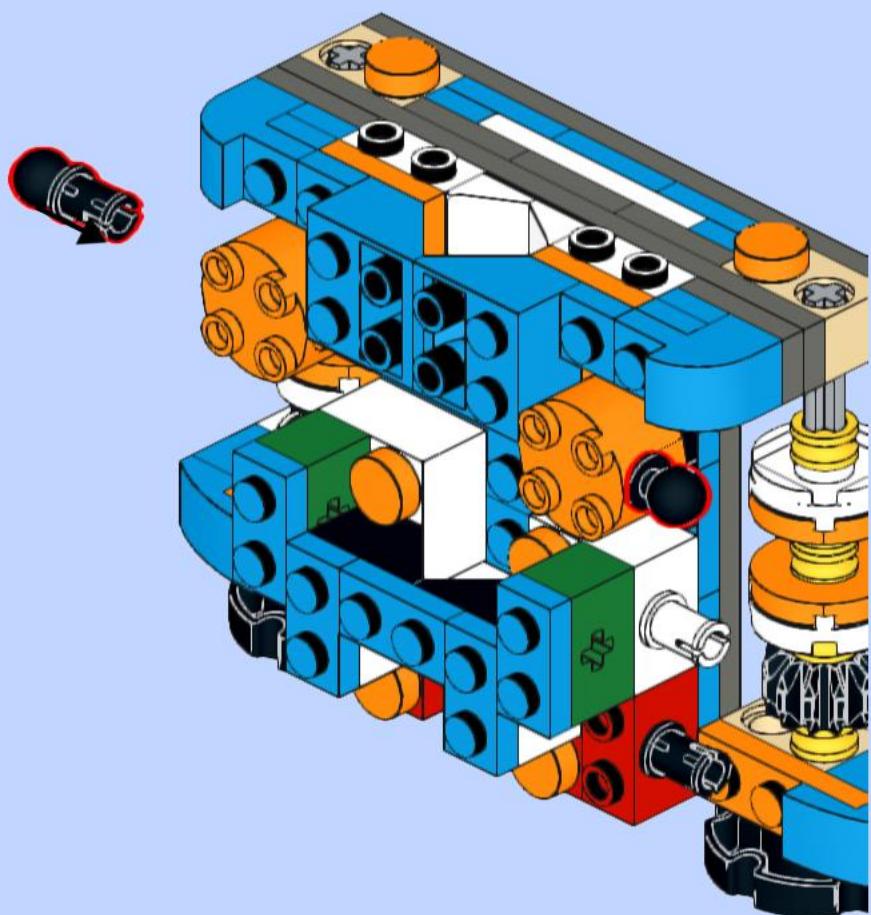
**70**



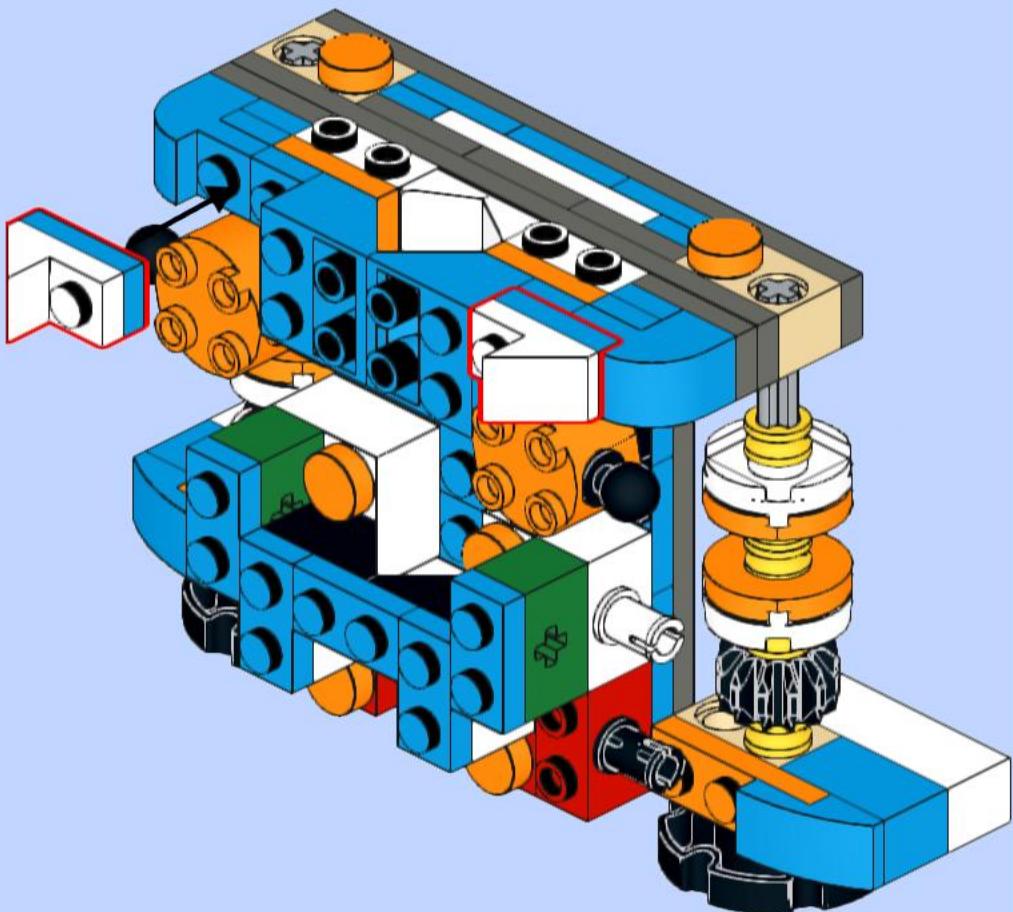
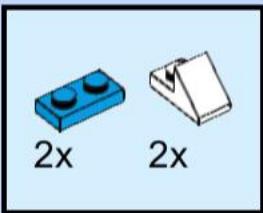
**71**



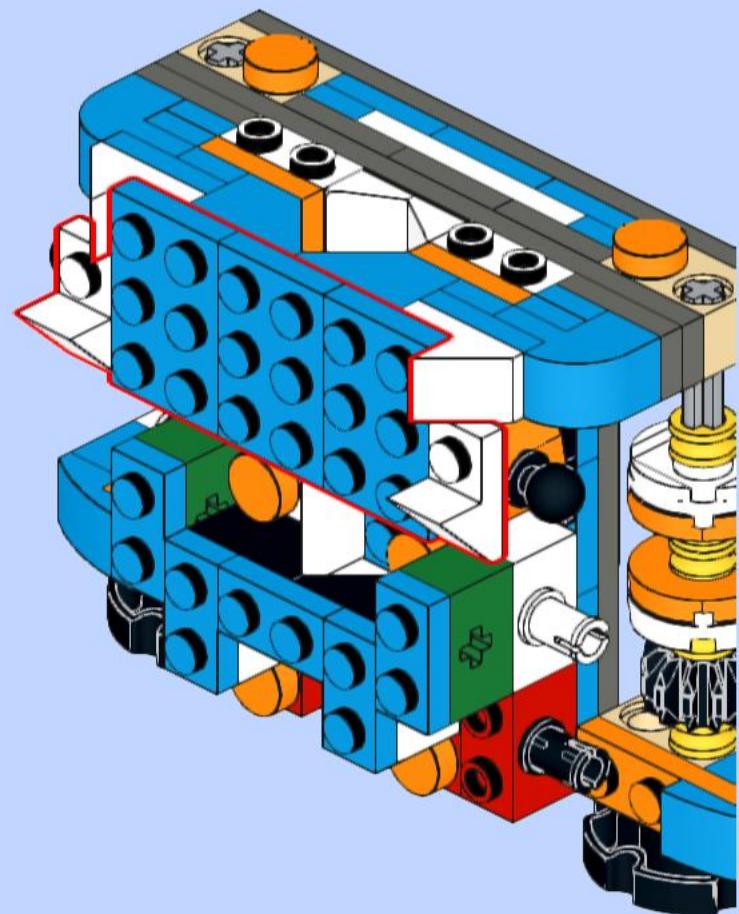
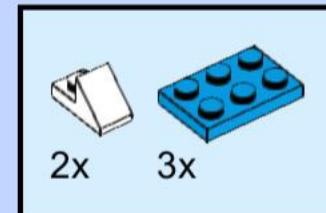
**72**



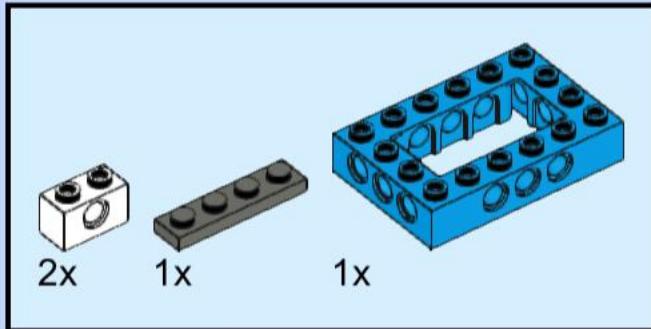
**73**



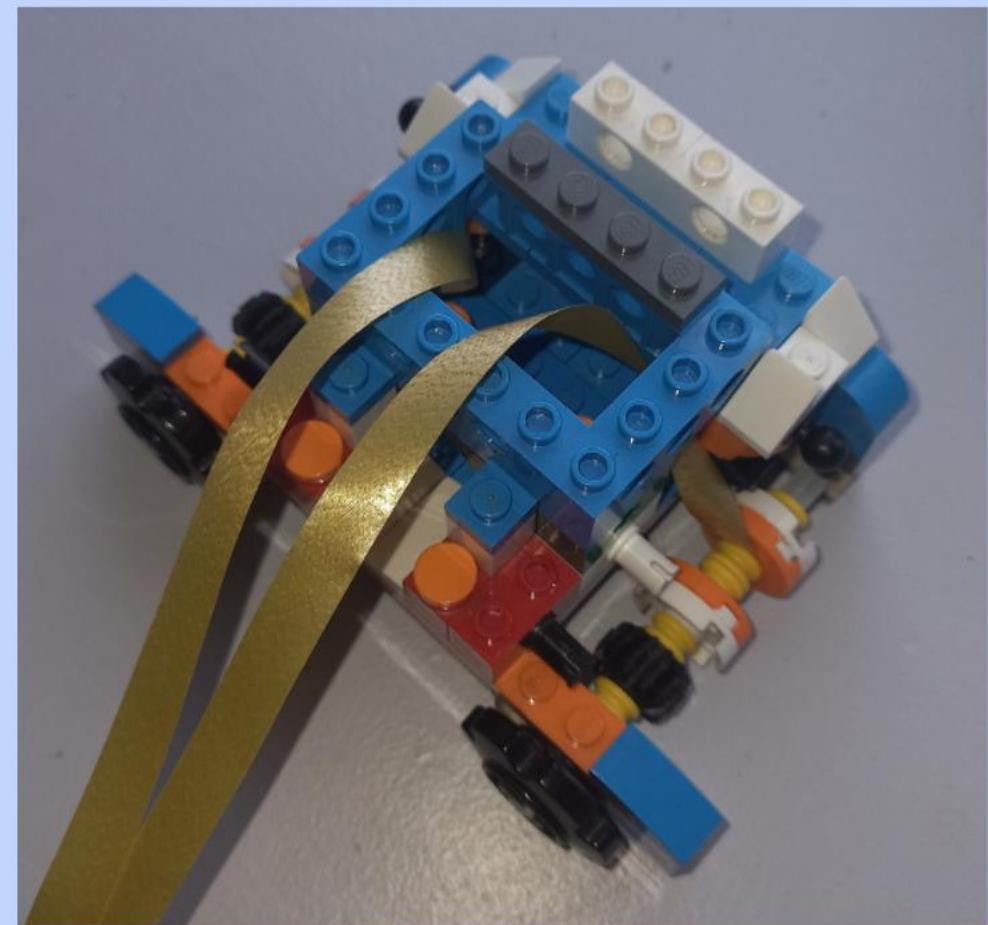
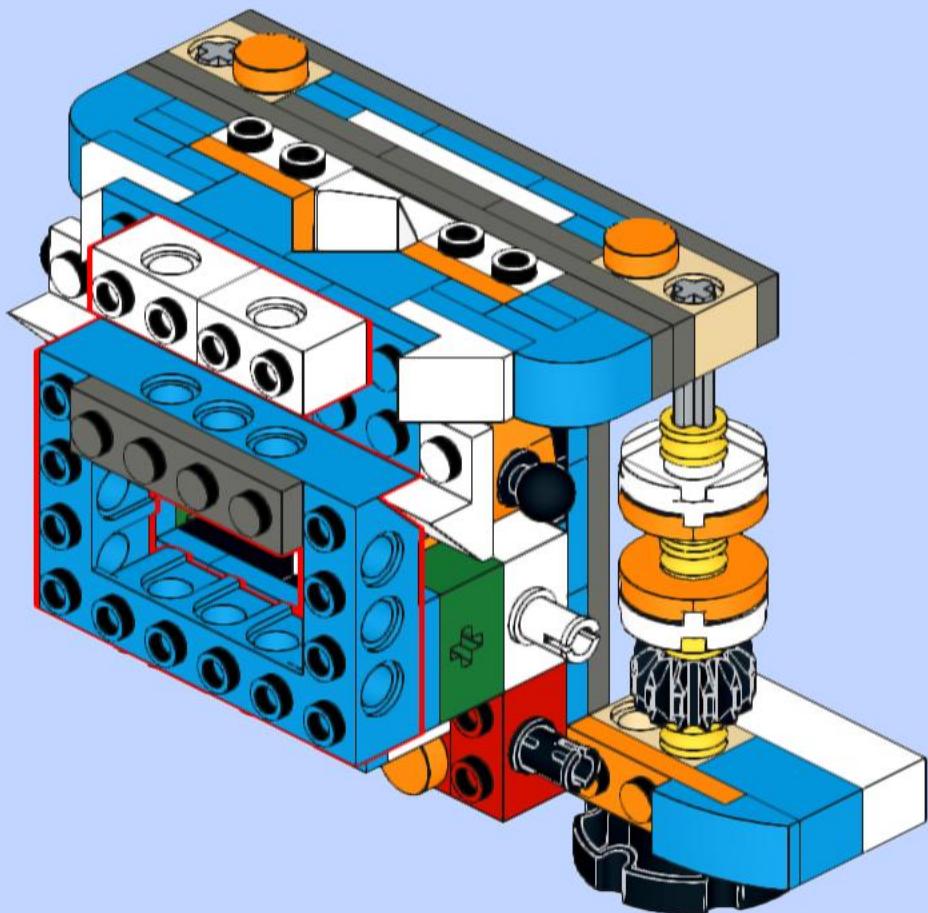
**74**



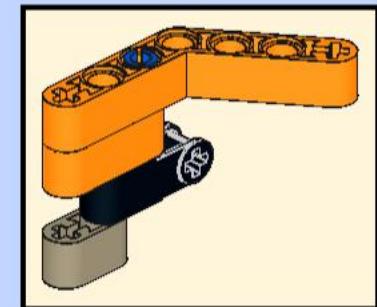
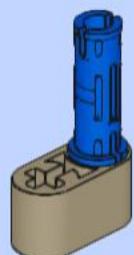
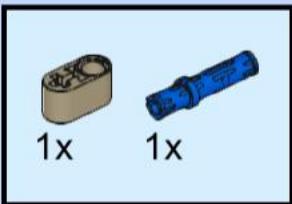
**75**



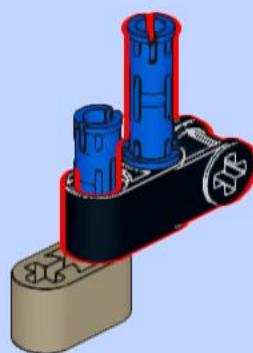
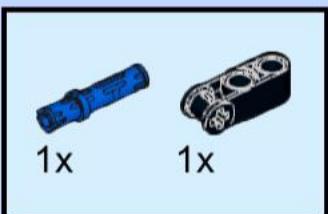
Pass the ribbons through the rectangular piece.



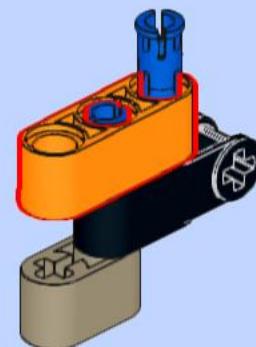
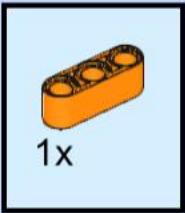
**76**



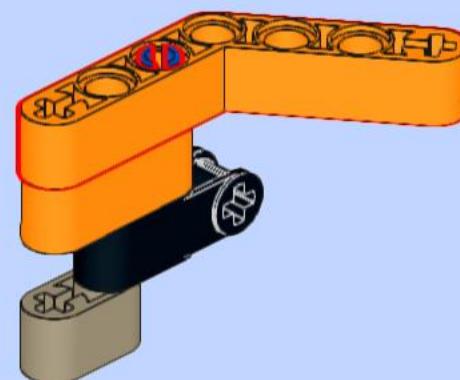
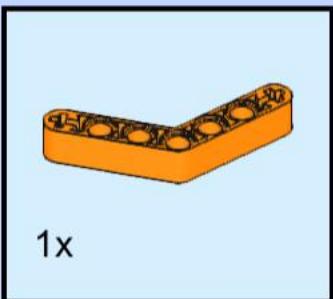
**77**



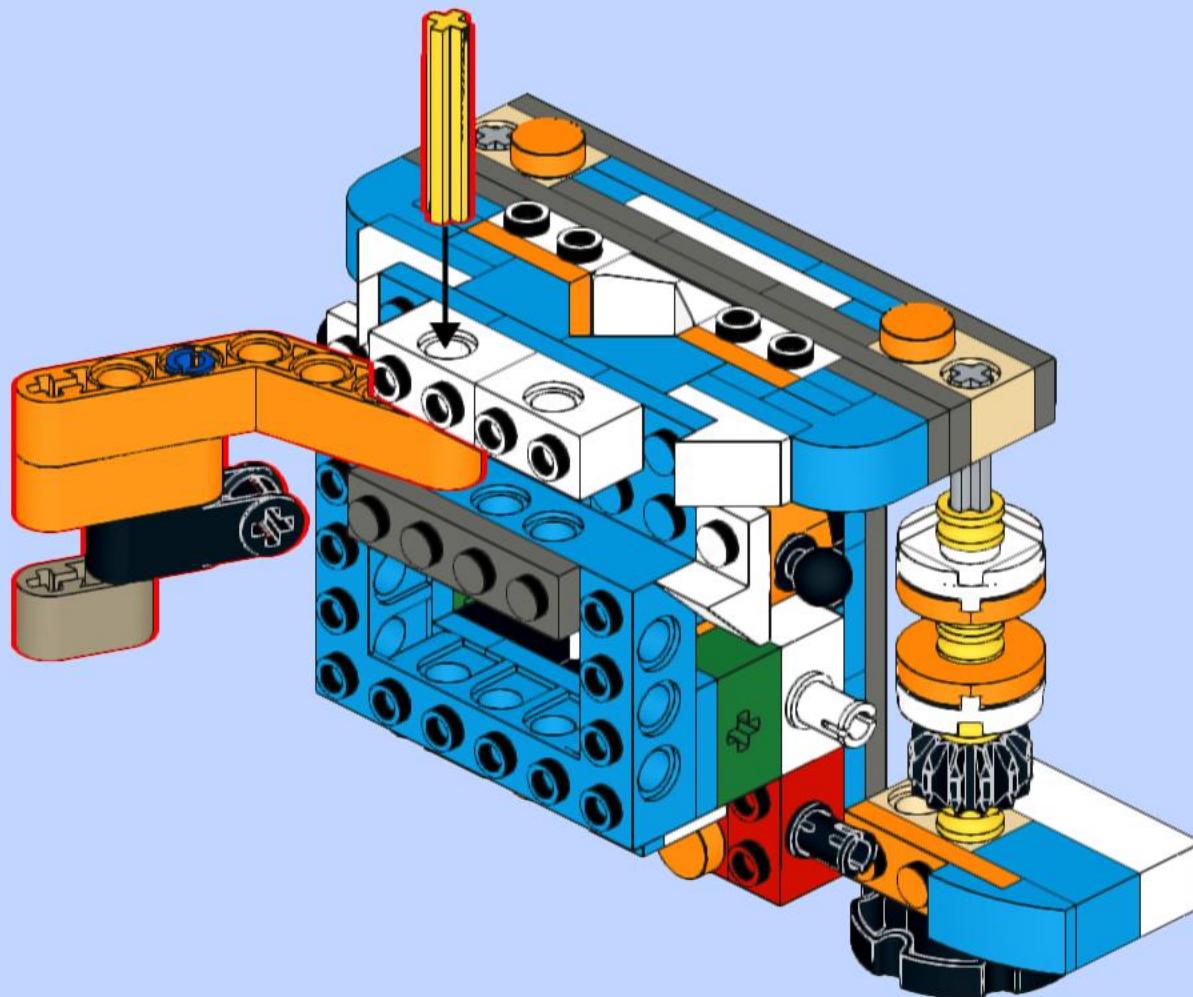
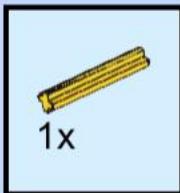
**78**



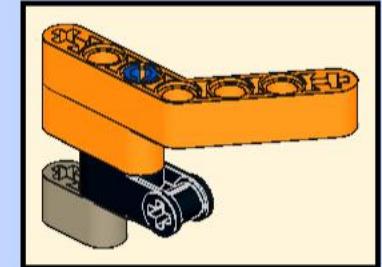
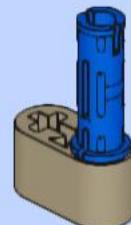
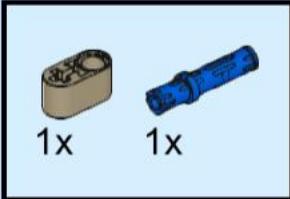
**79**



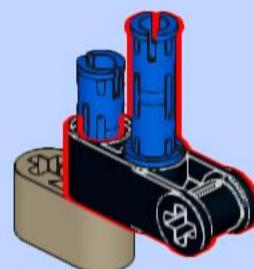
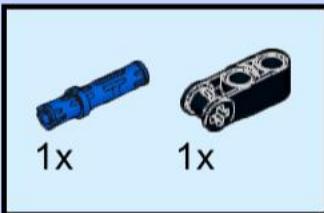
**80**



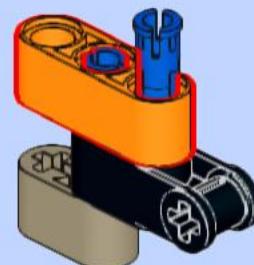
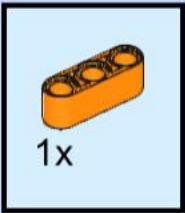
**81**



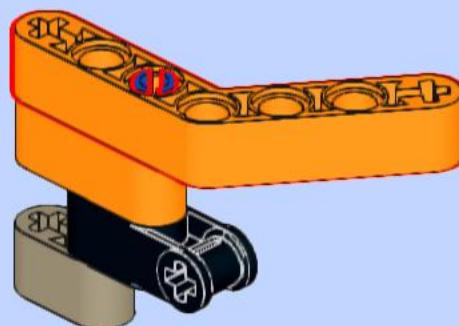
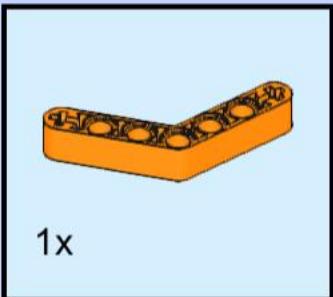
**82**



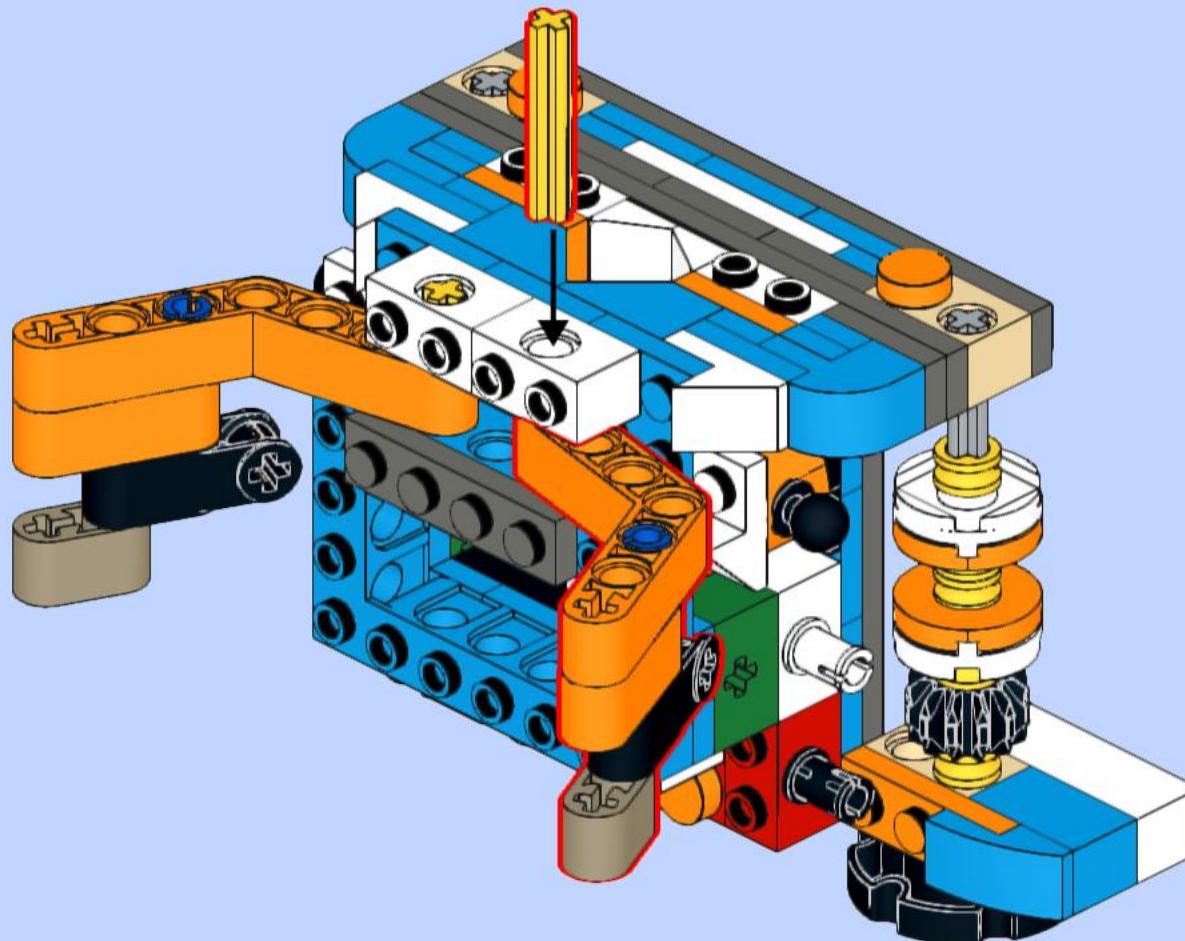
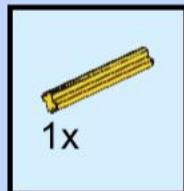
**83**



**84**



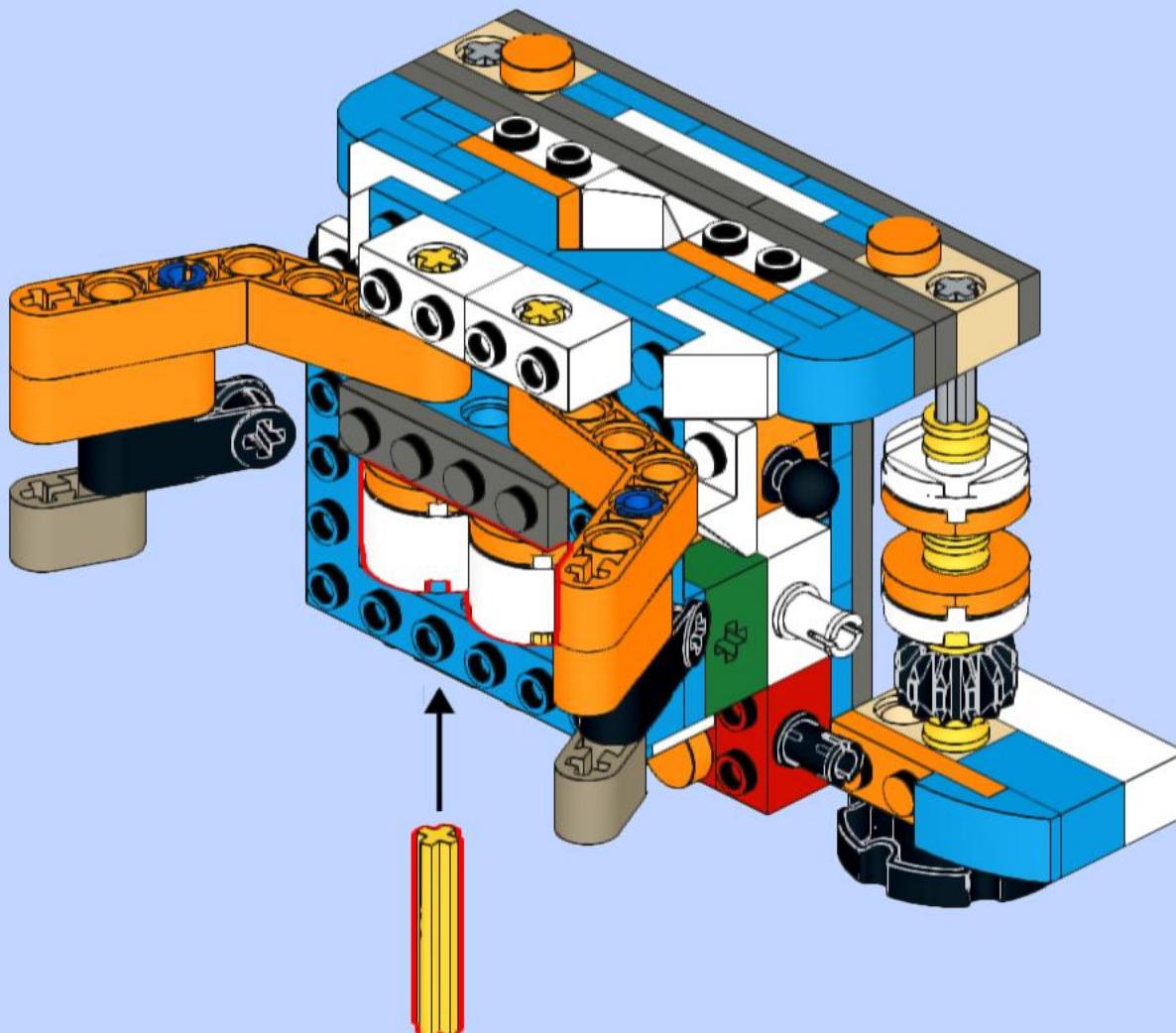
**85**



**86**

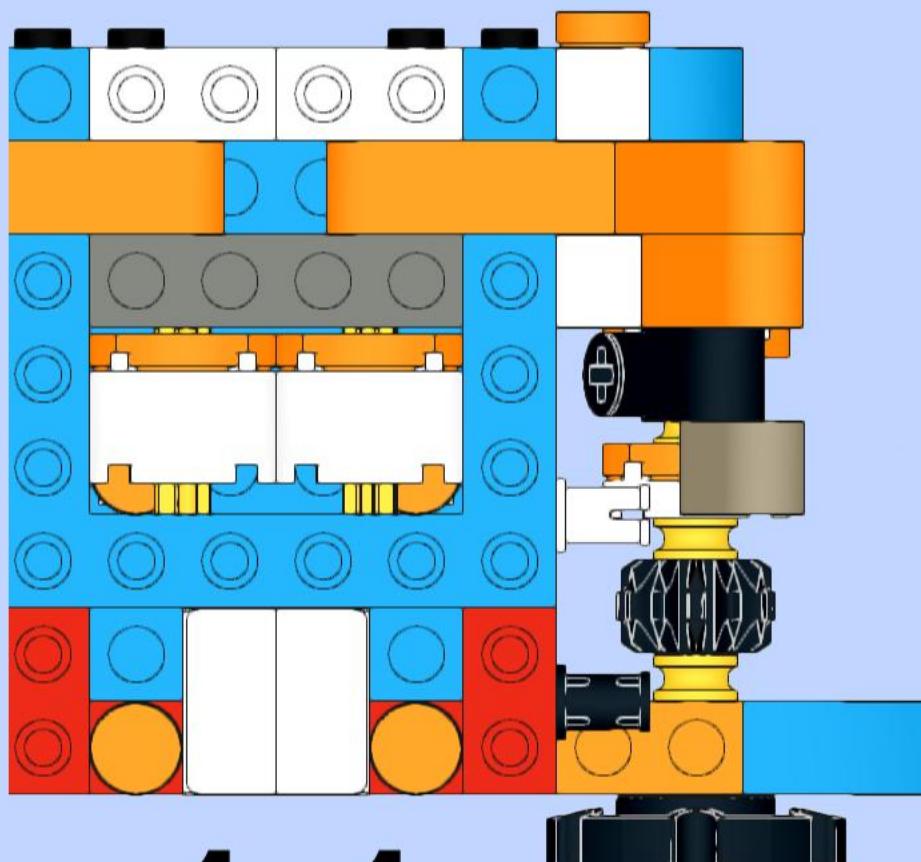


Pass the ribbons between the rolls as shown in the next step.

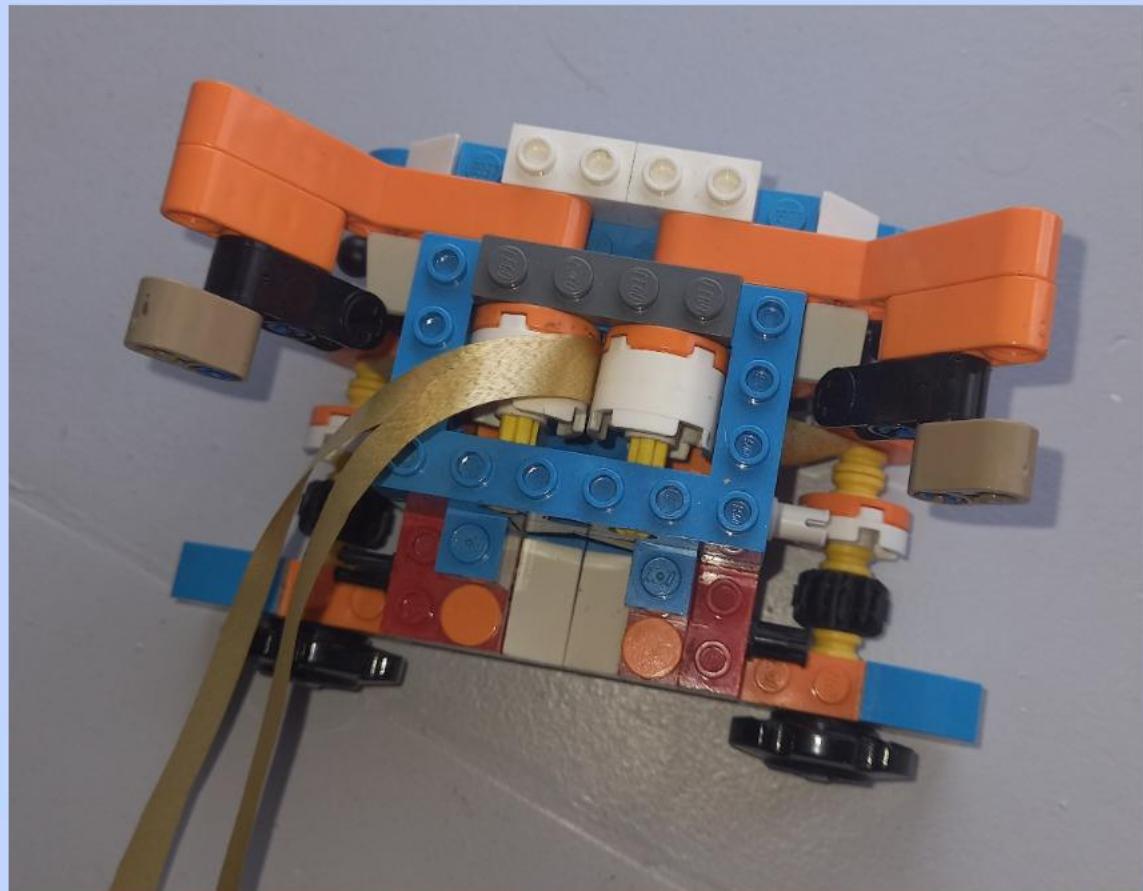


**87**

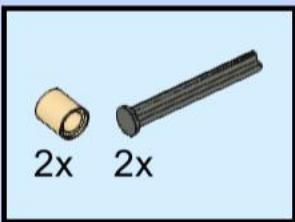
The ribbons must not be bent.



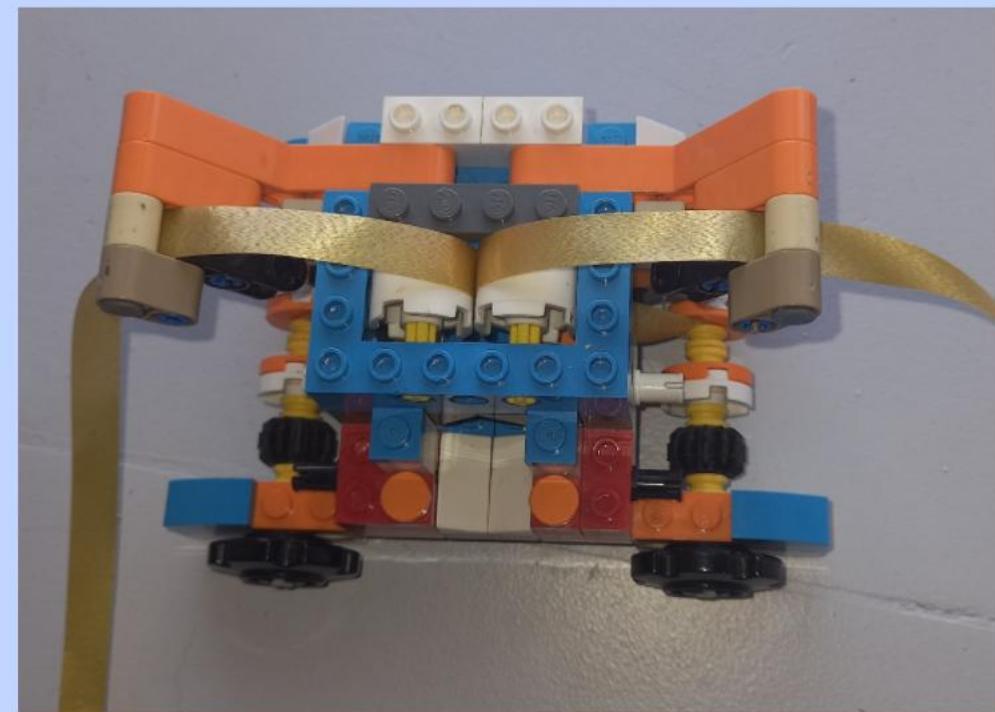
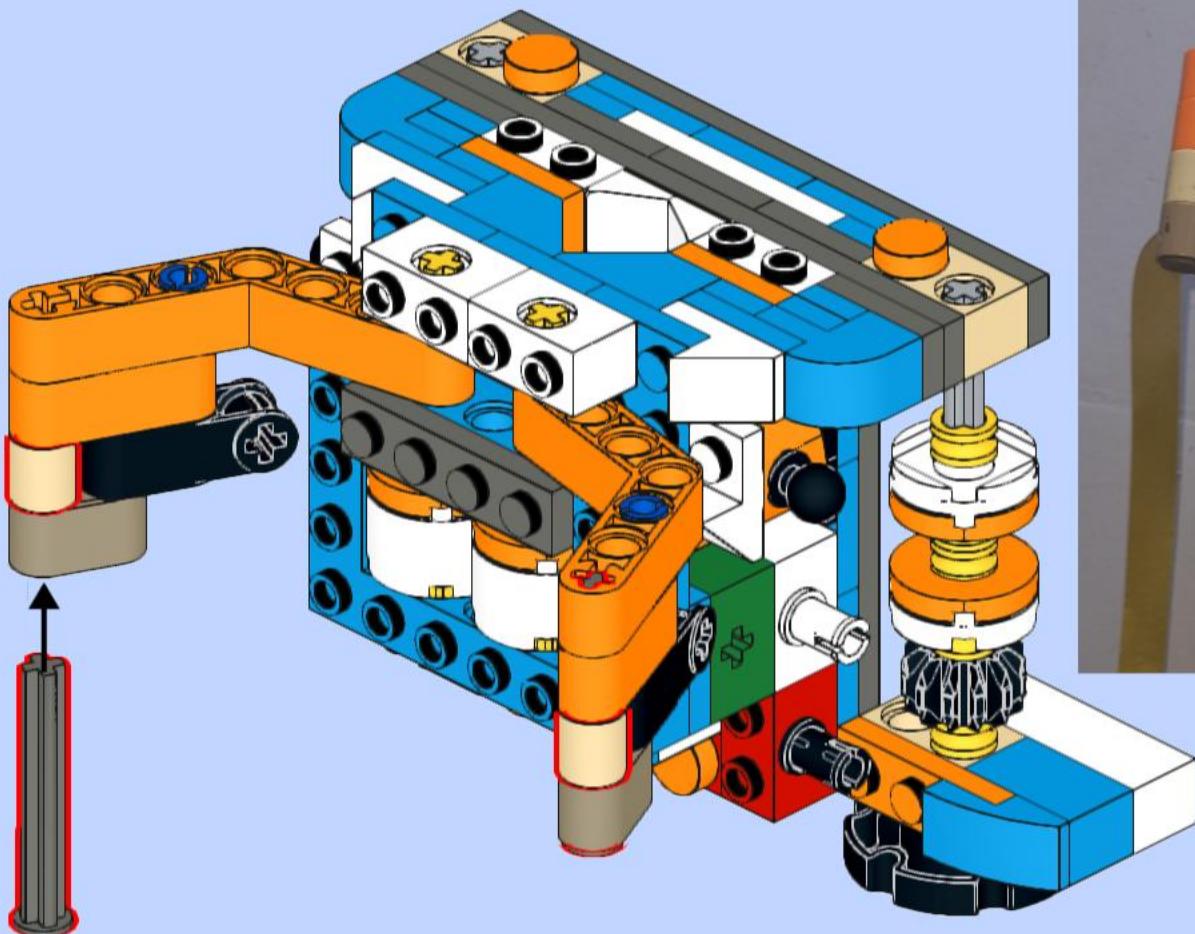
**1:1**



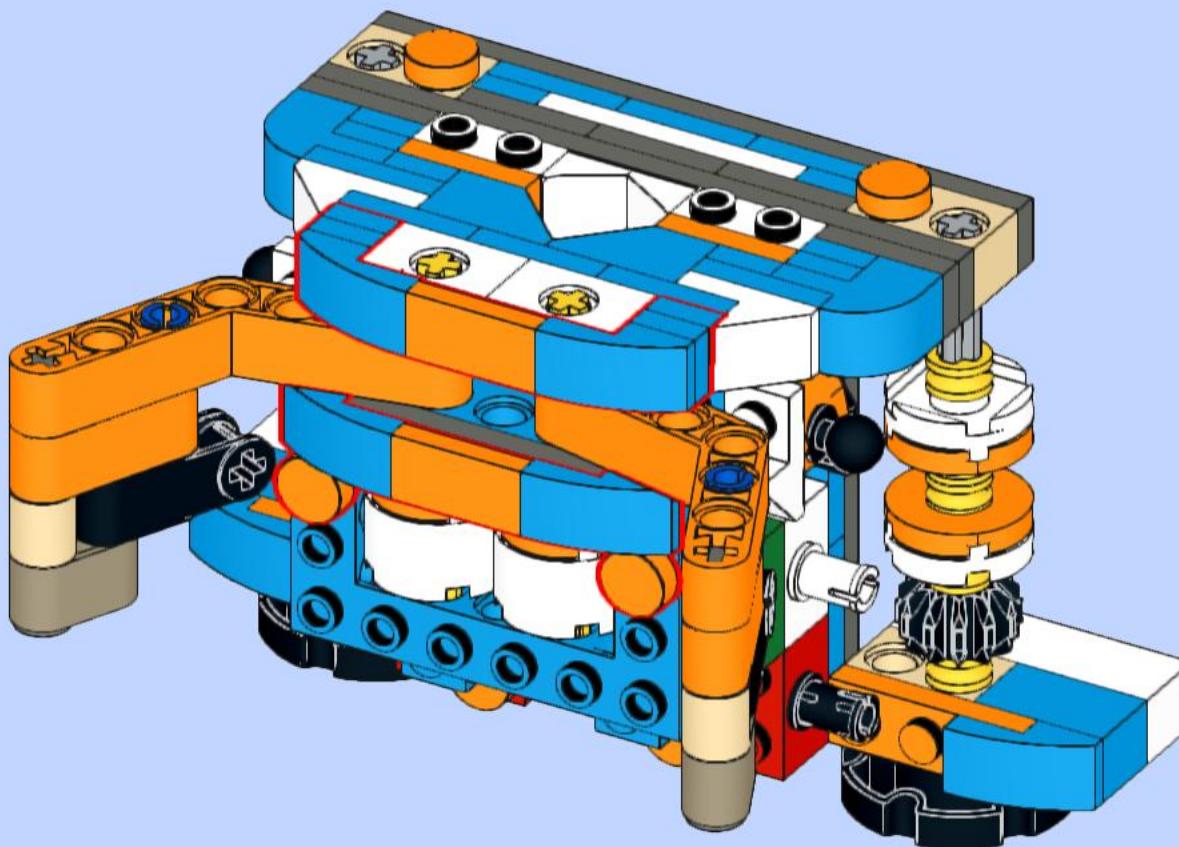
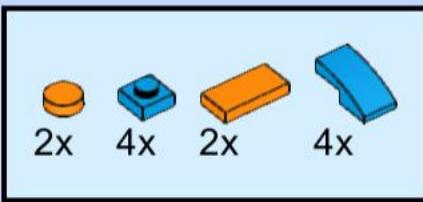
**88**



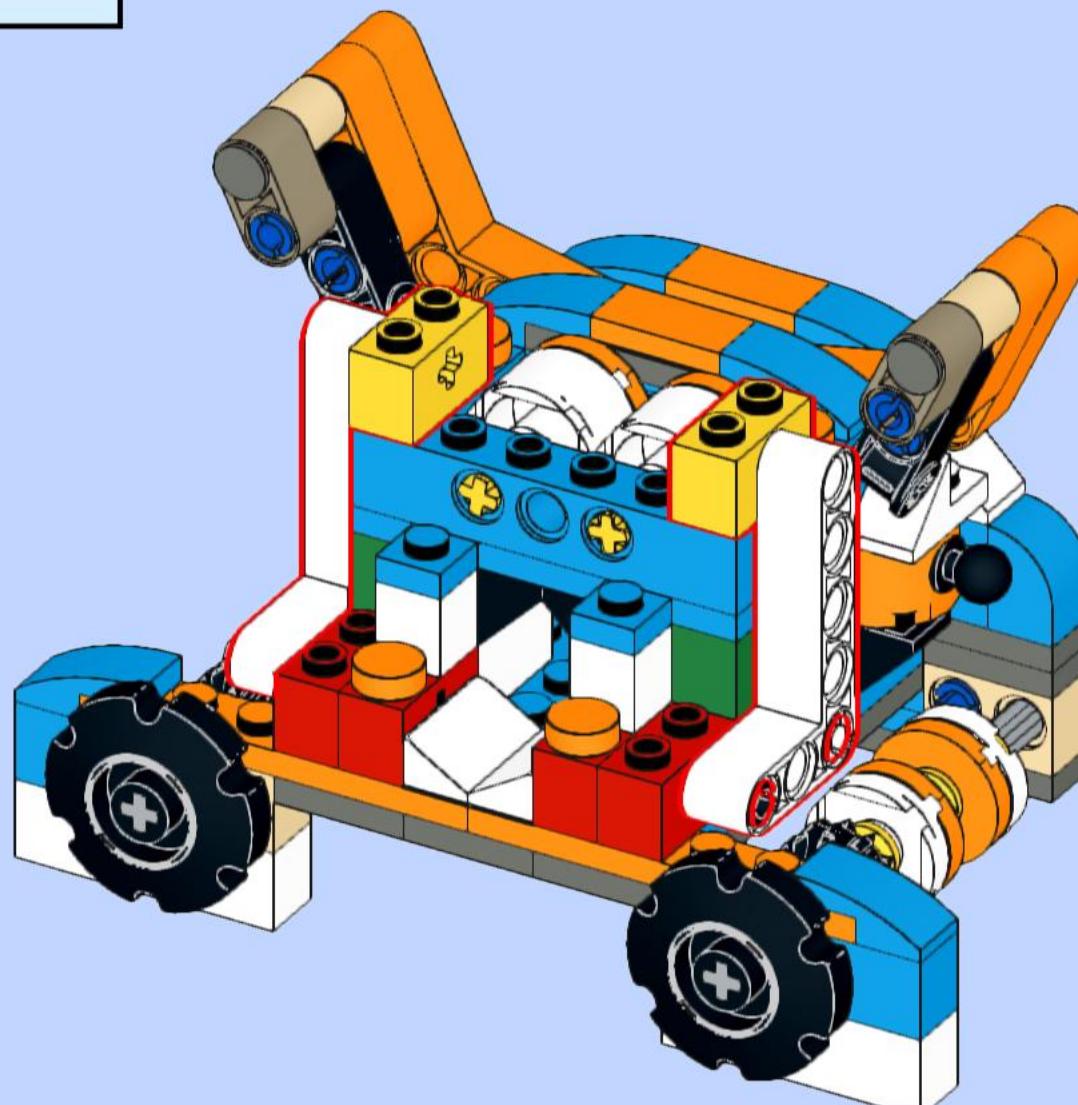
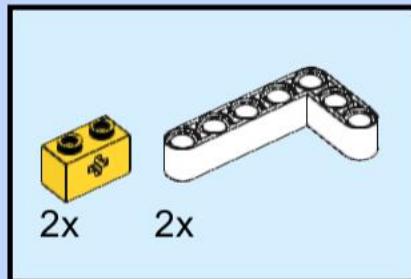
Pass the ribbons through the clips.



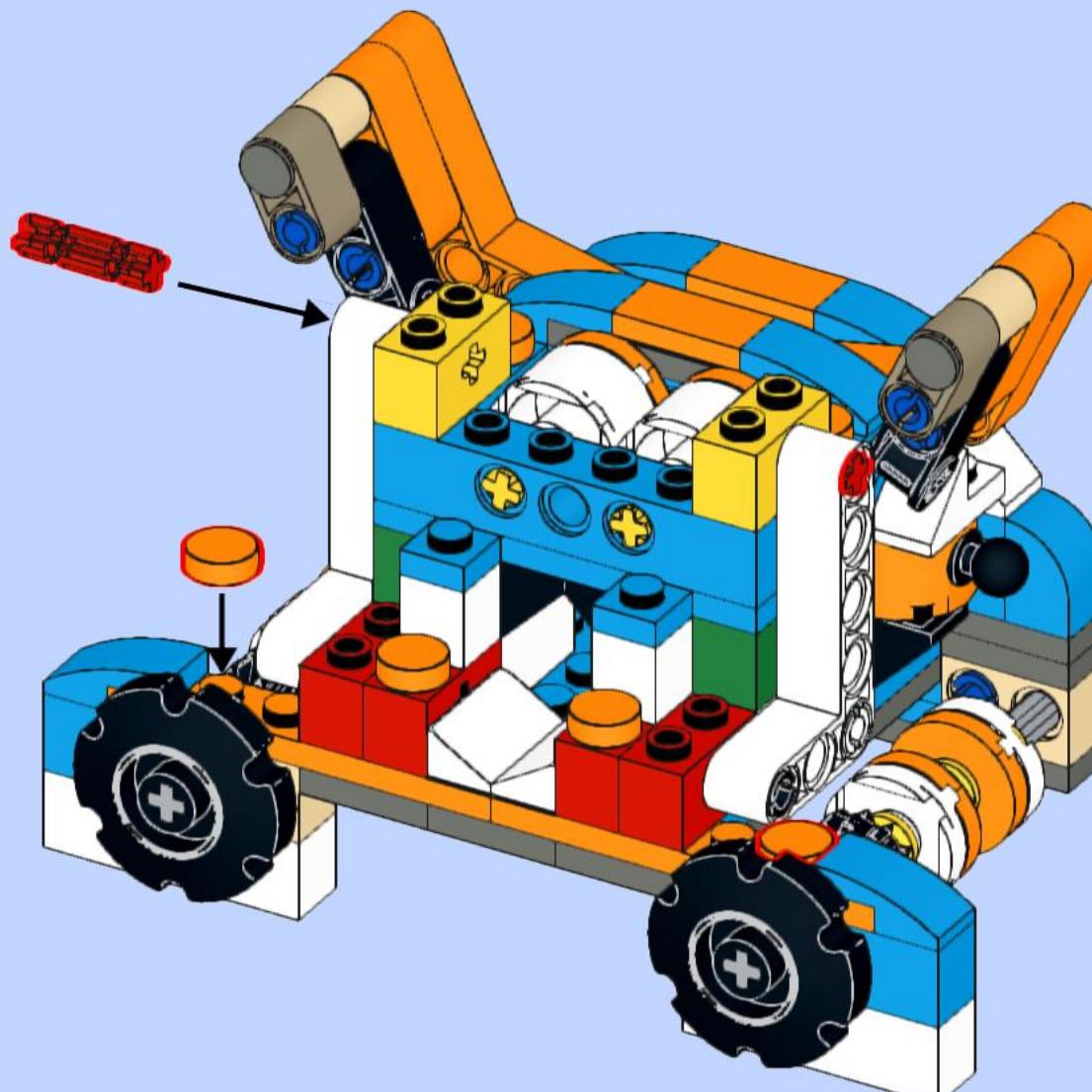
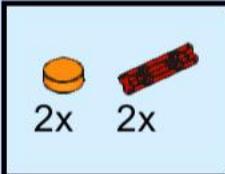
**89**



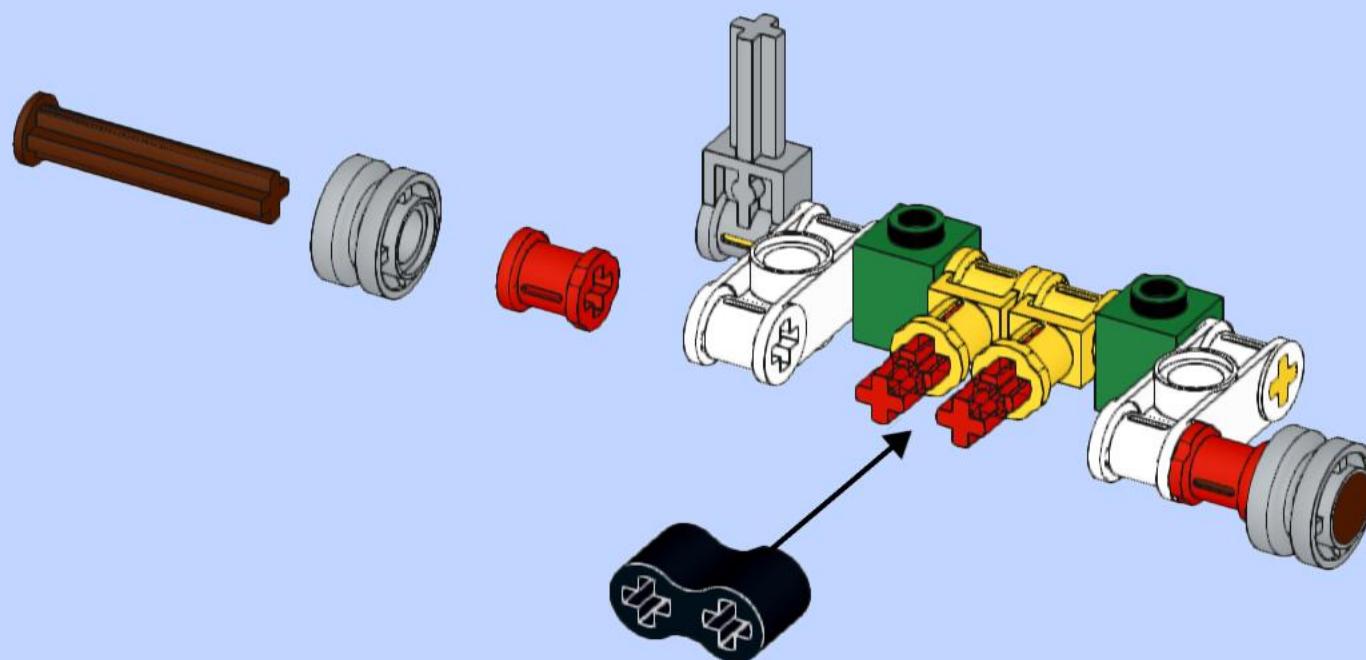
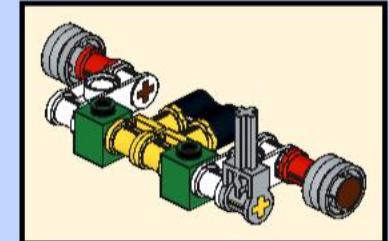
**90**



**91**

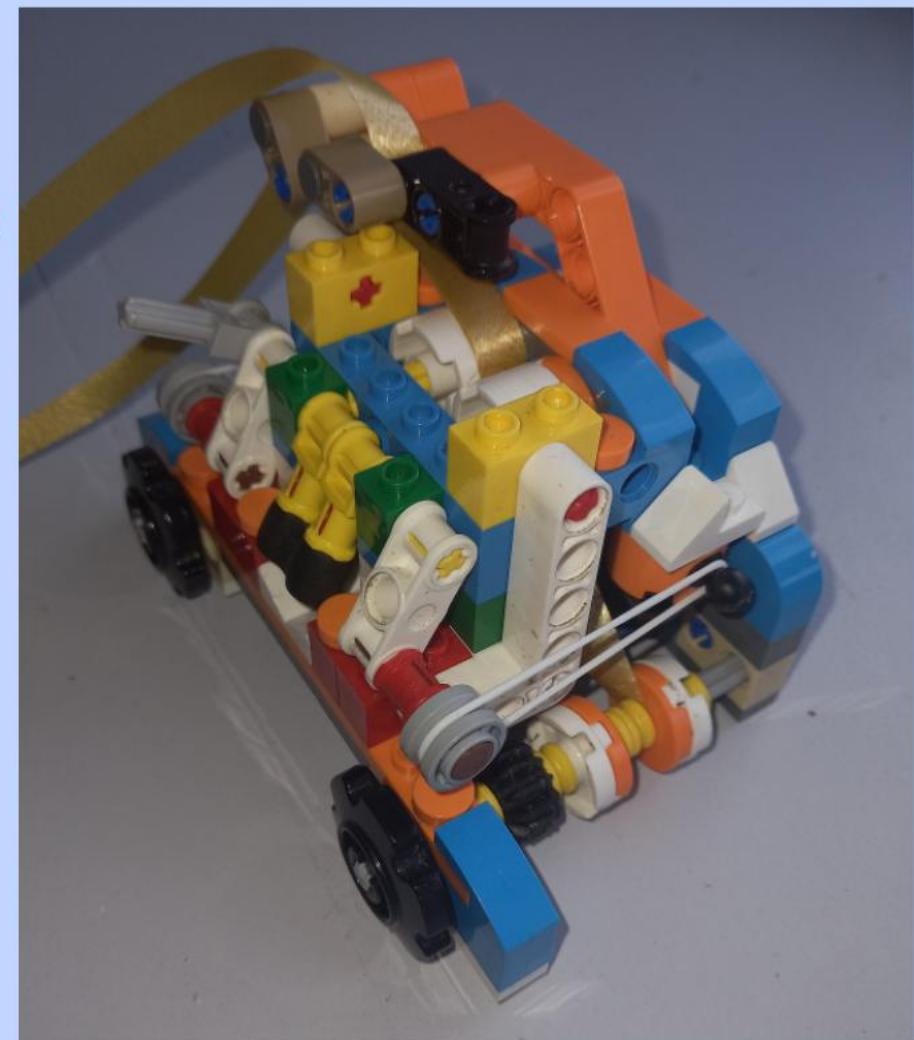
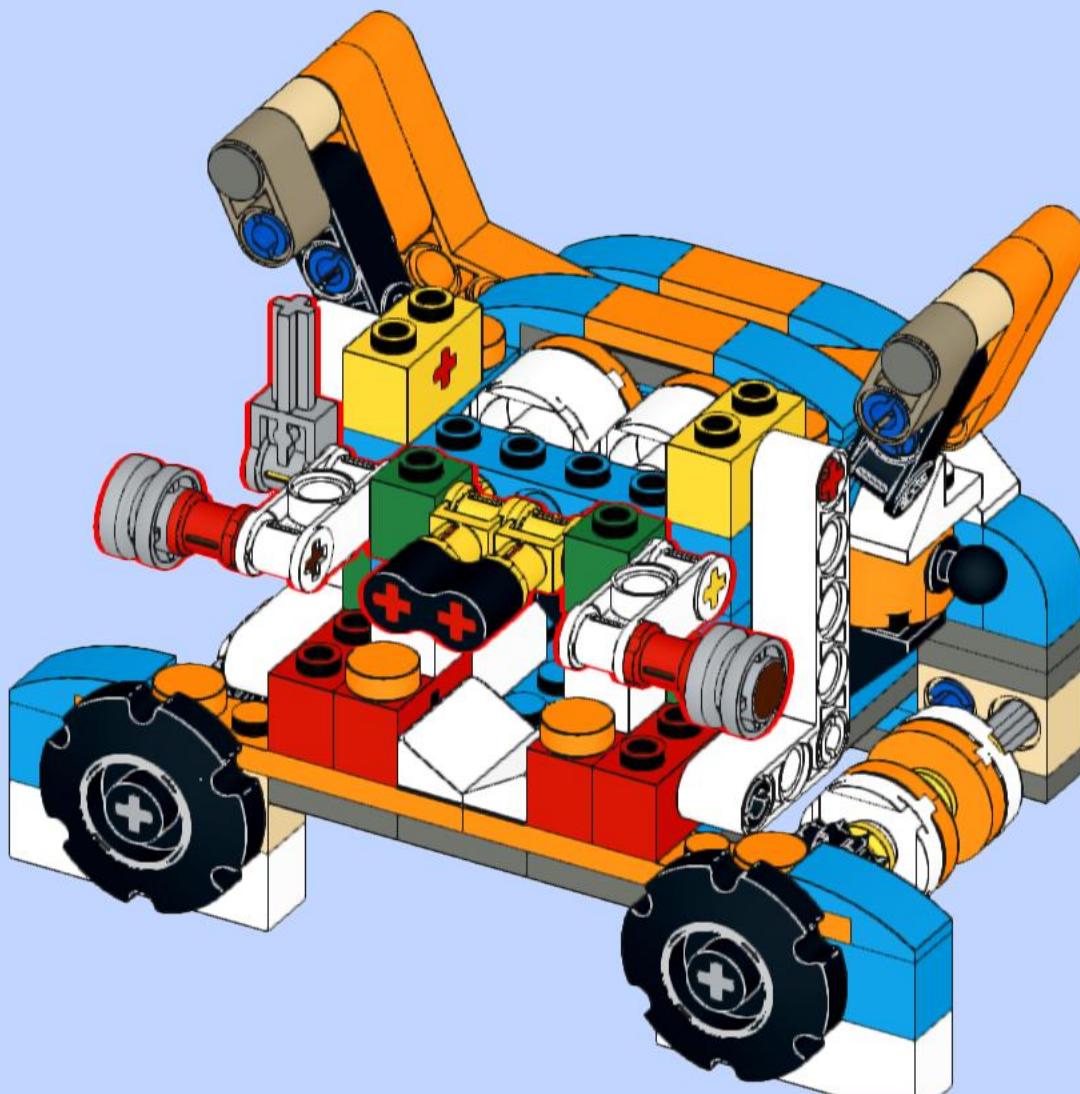


# 92

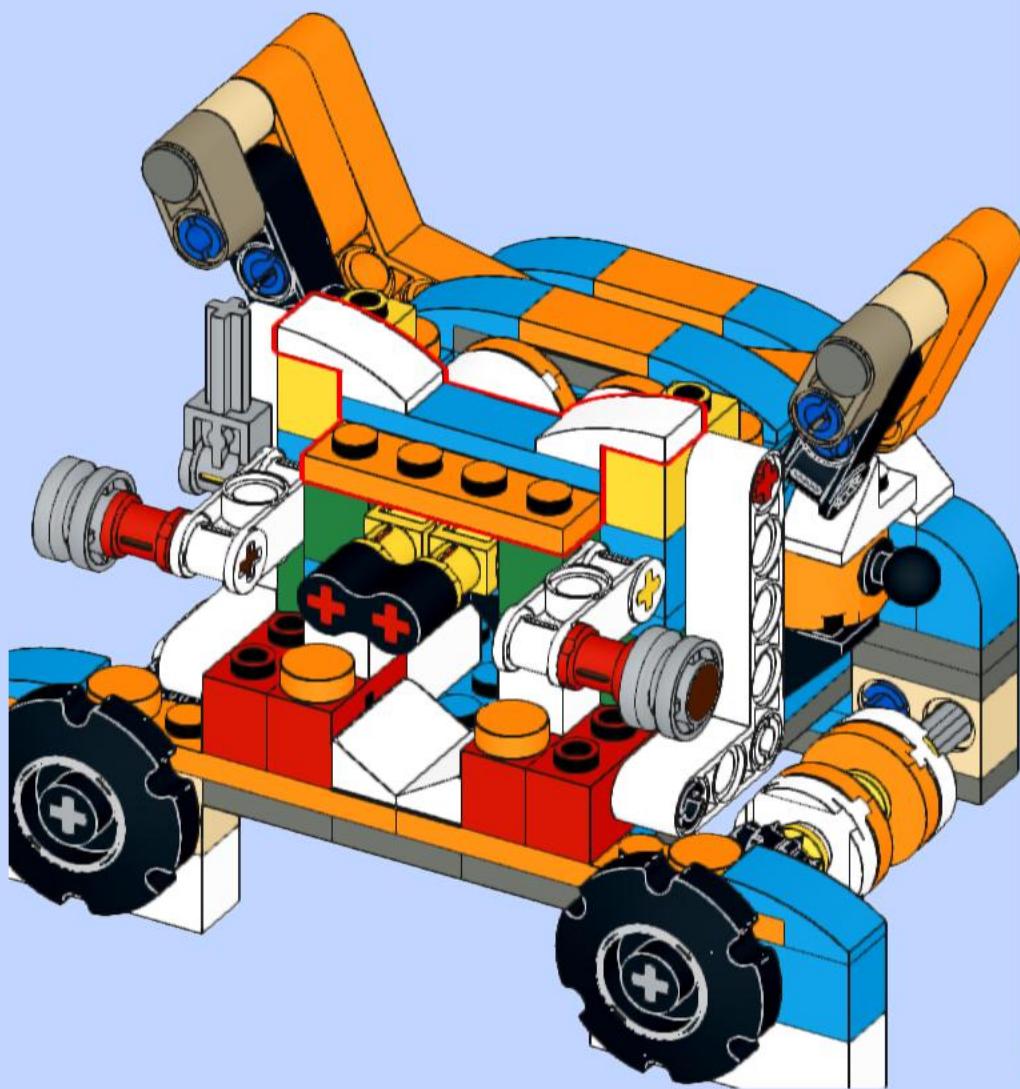
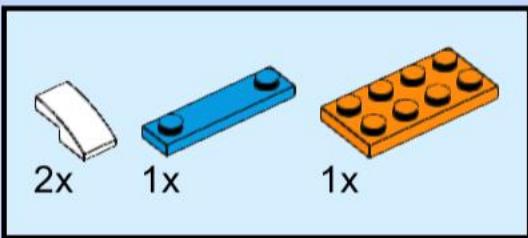


**93**

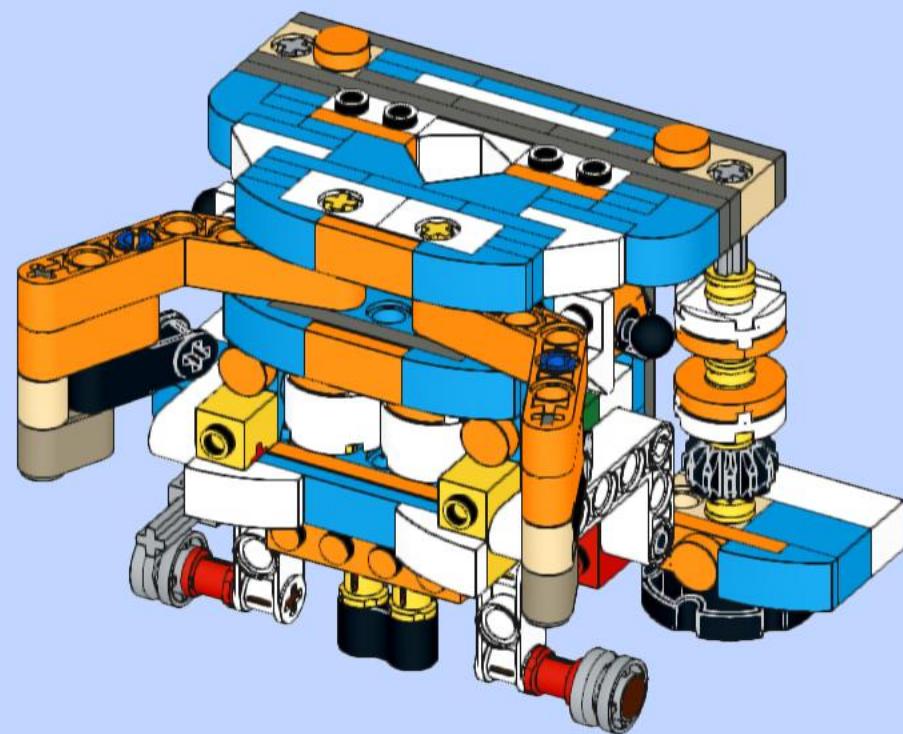
Put the rubber bands on each side as shown in the photo.



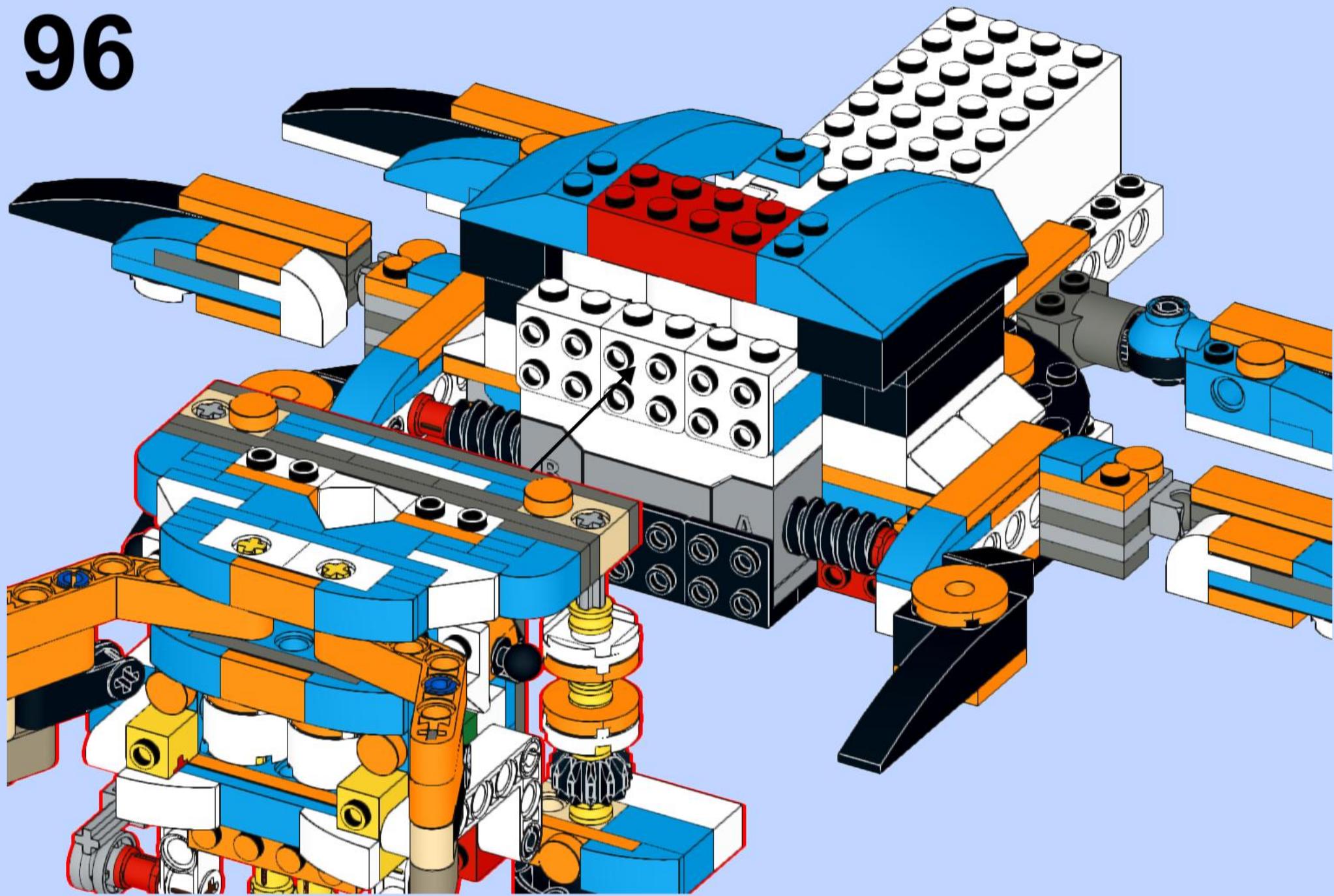
**94**



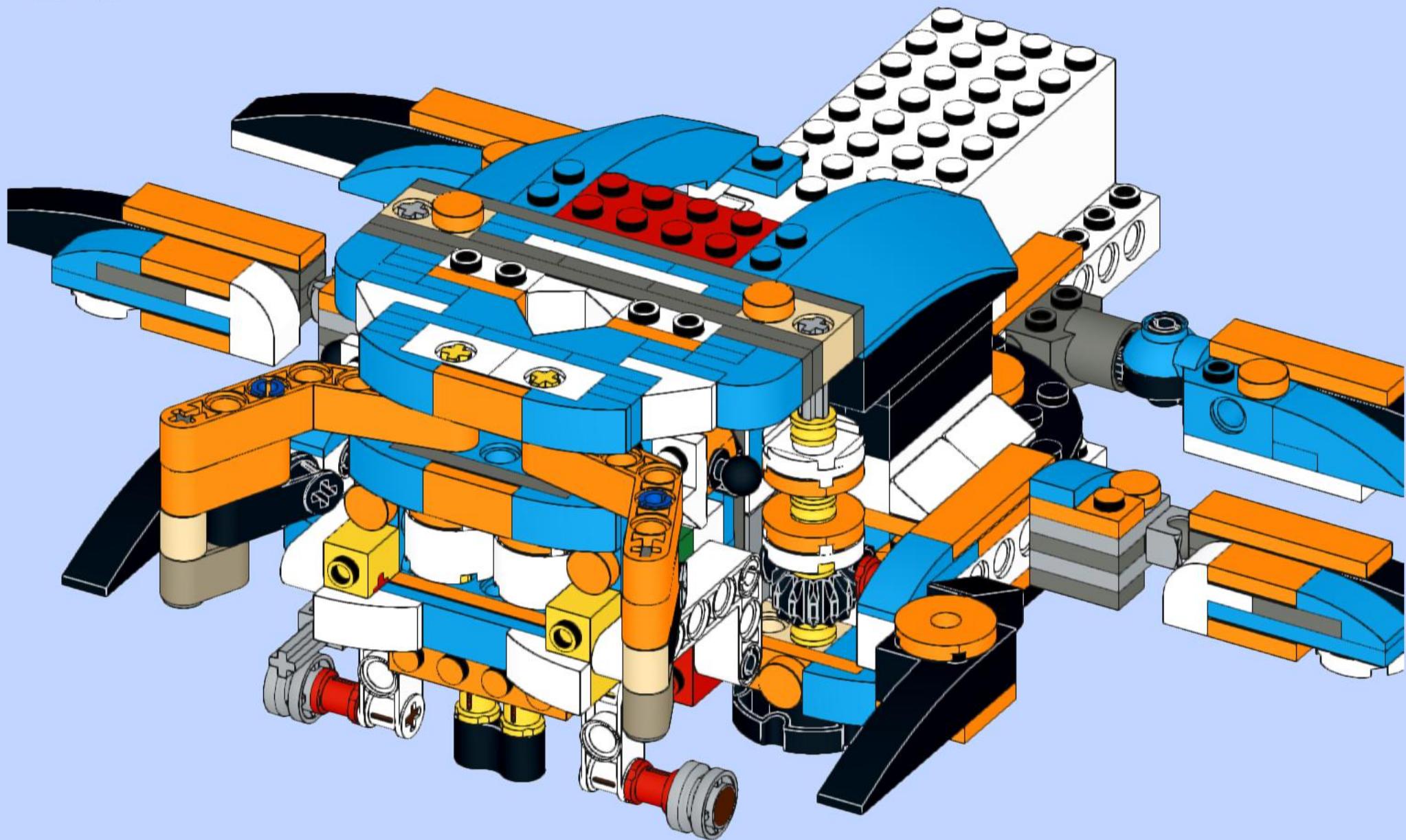
**95**



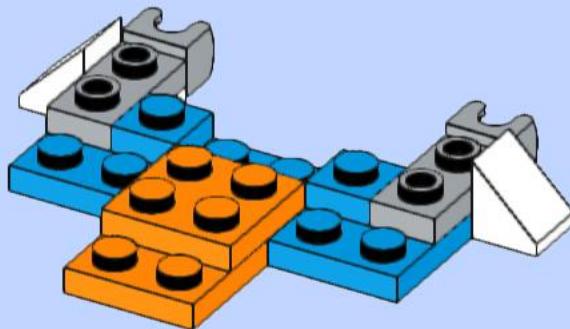
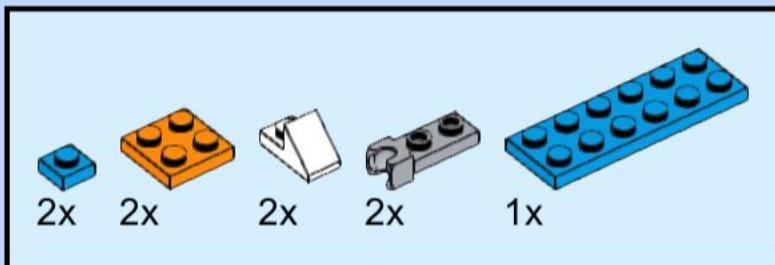
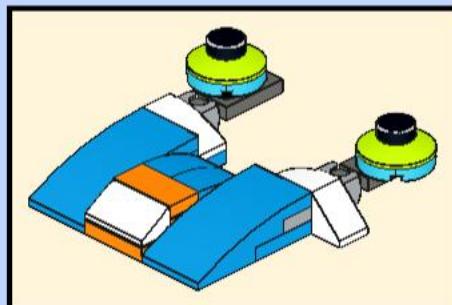
96



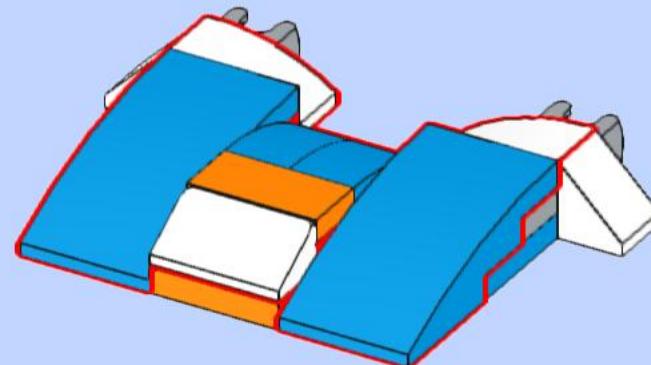
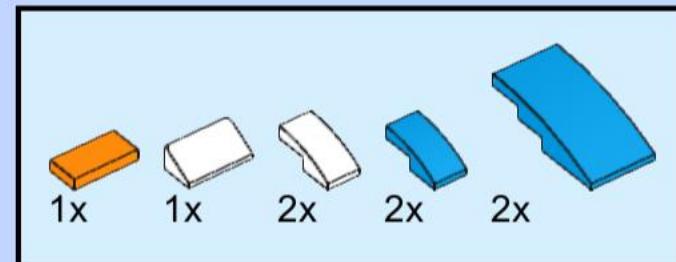
97



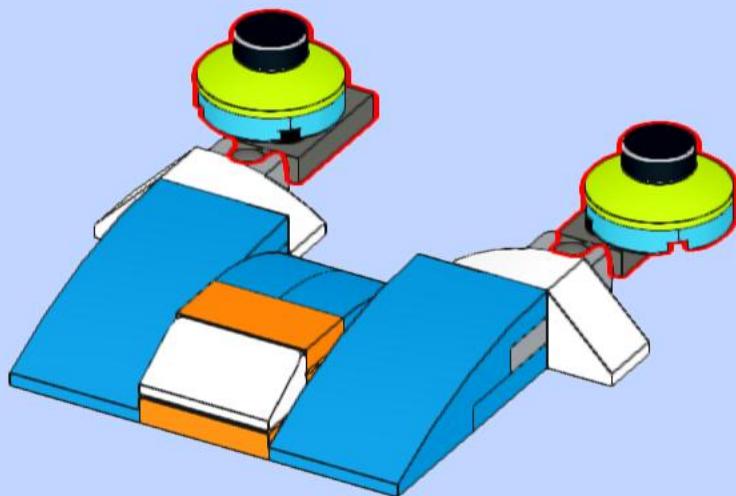
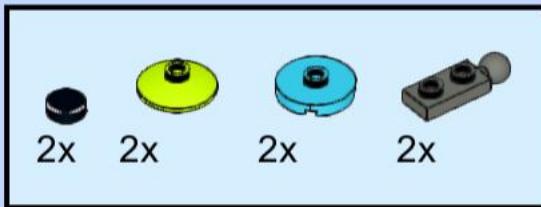
**98**



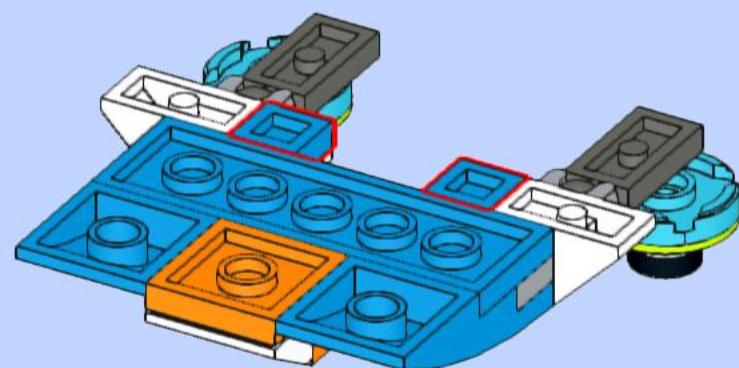
**99**



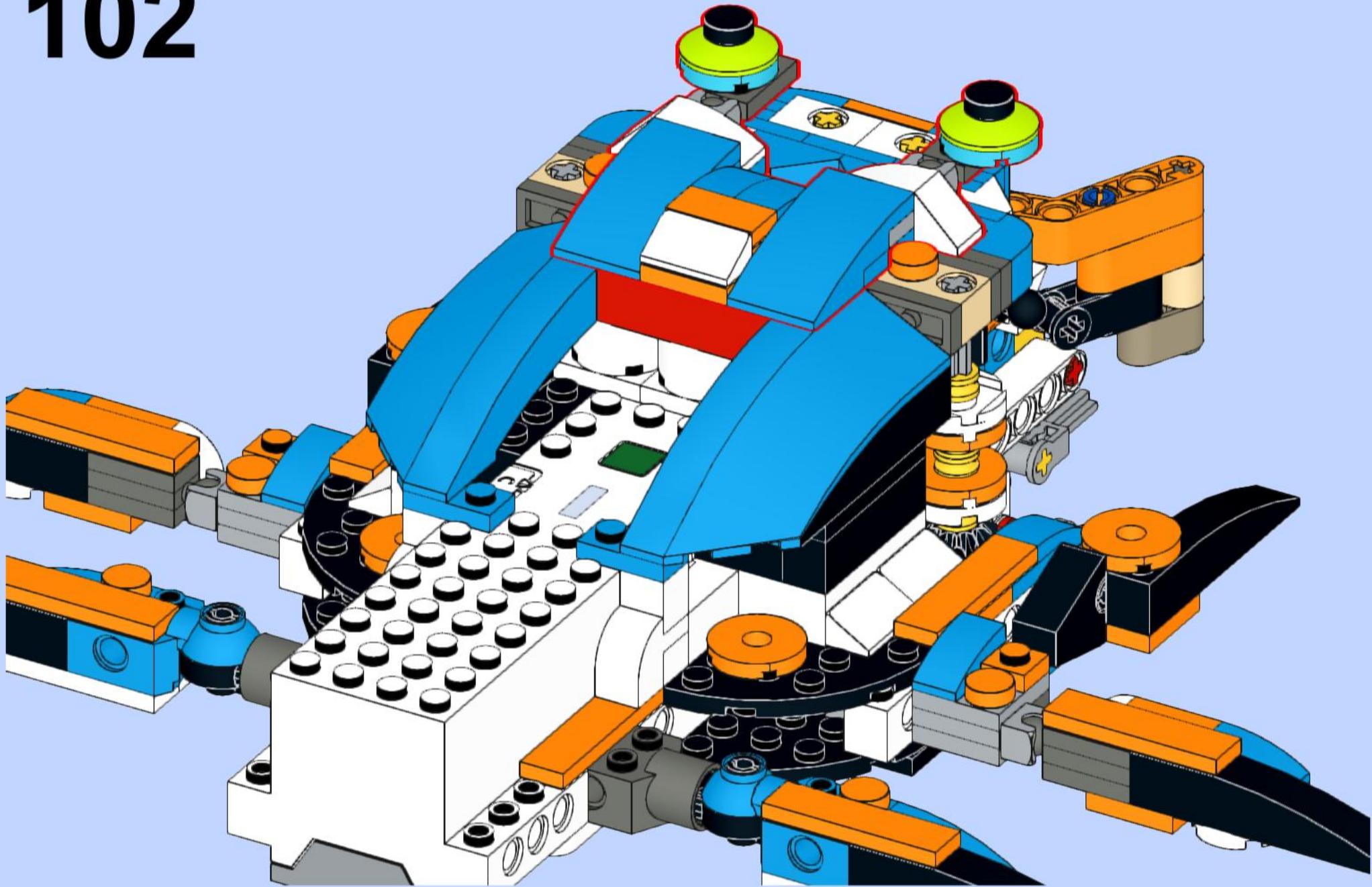
# 100



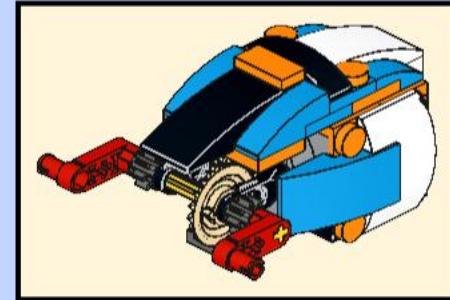
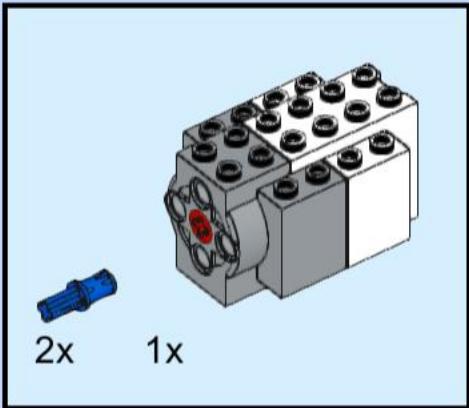
# 101



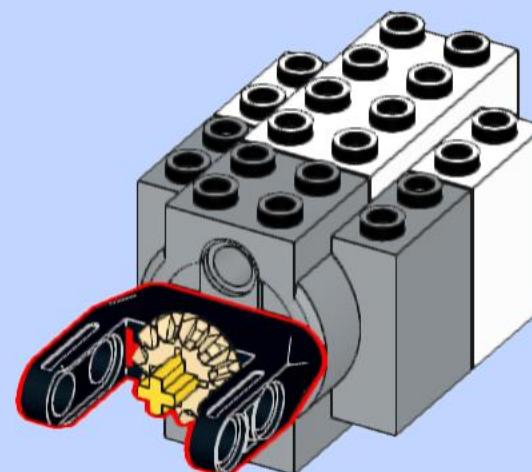
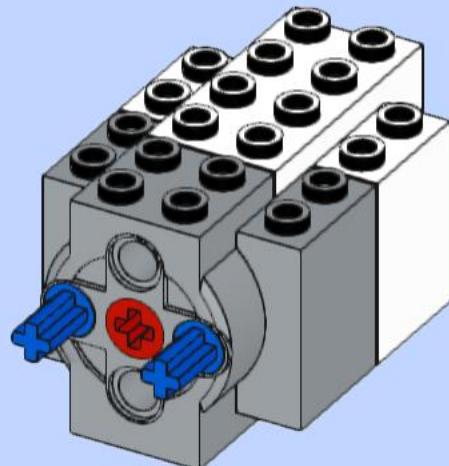
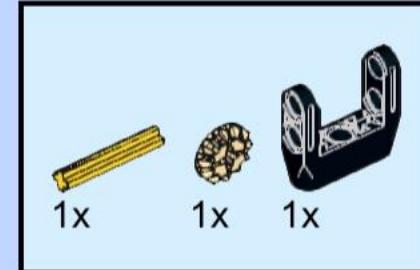
# 102



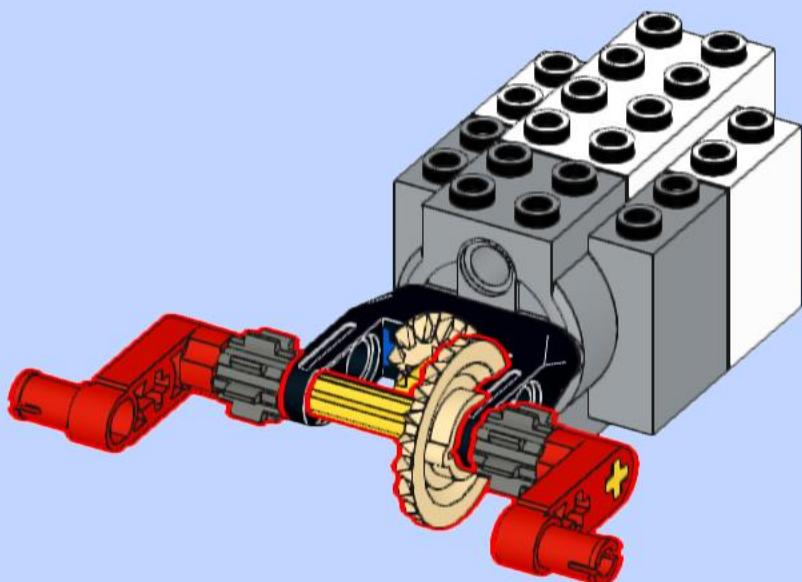
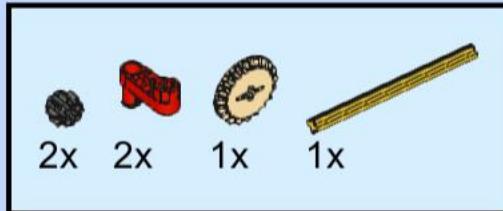
# 103



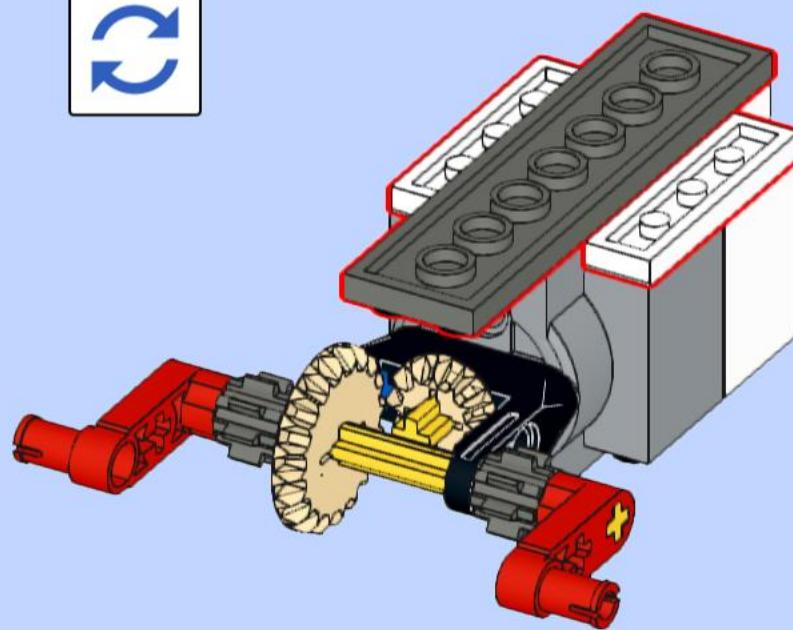
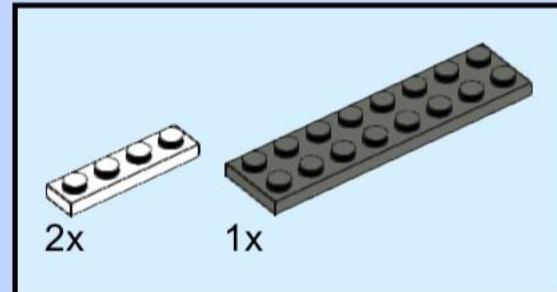
# 104



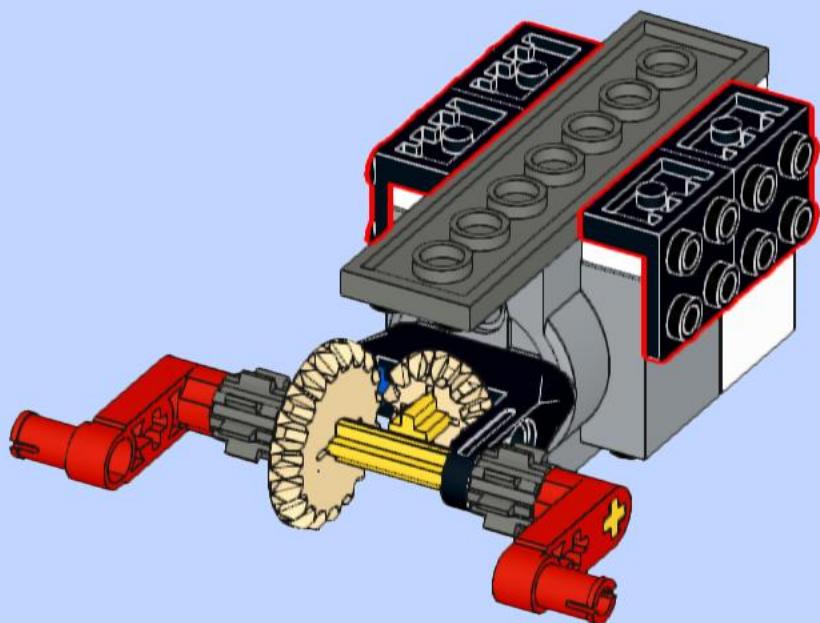
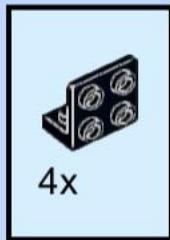
# 105



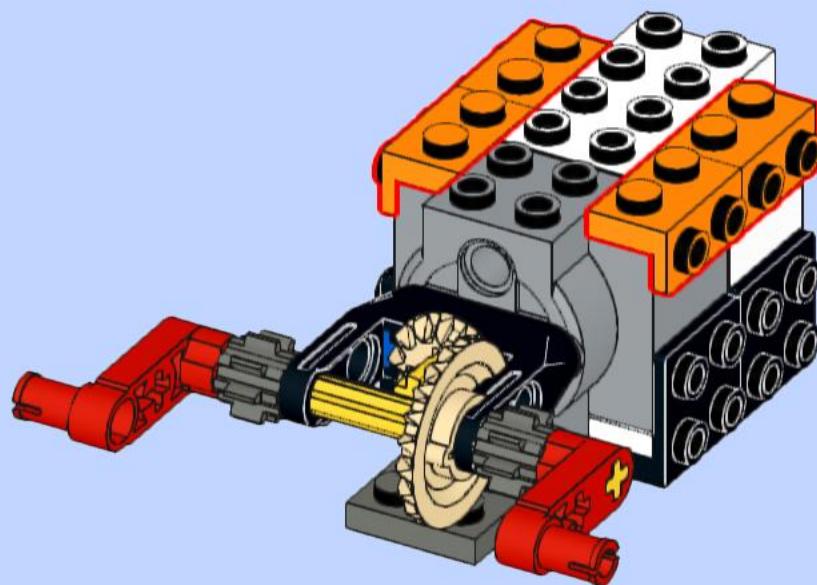
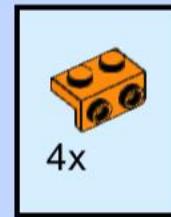
# 106



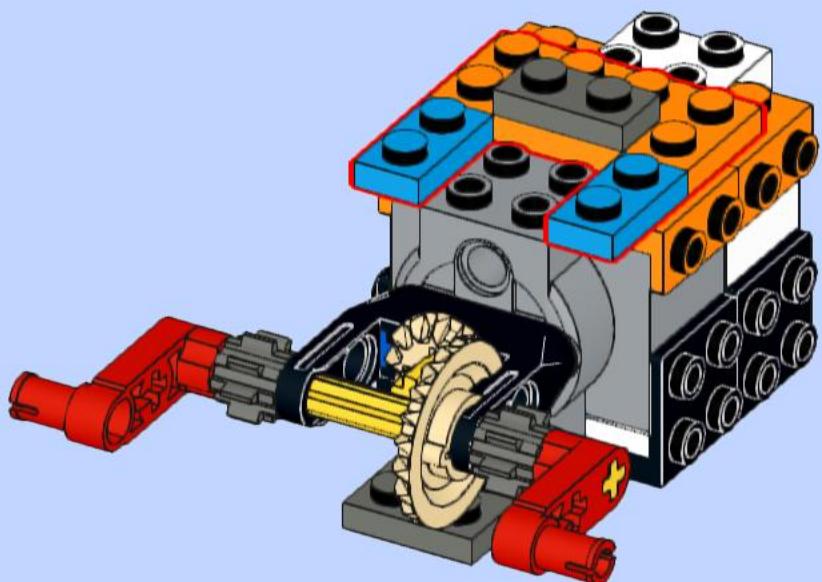
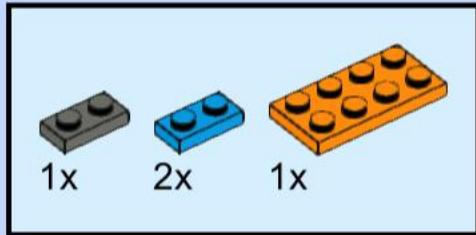
**107**



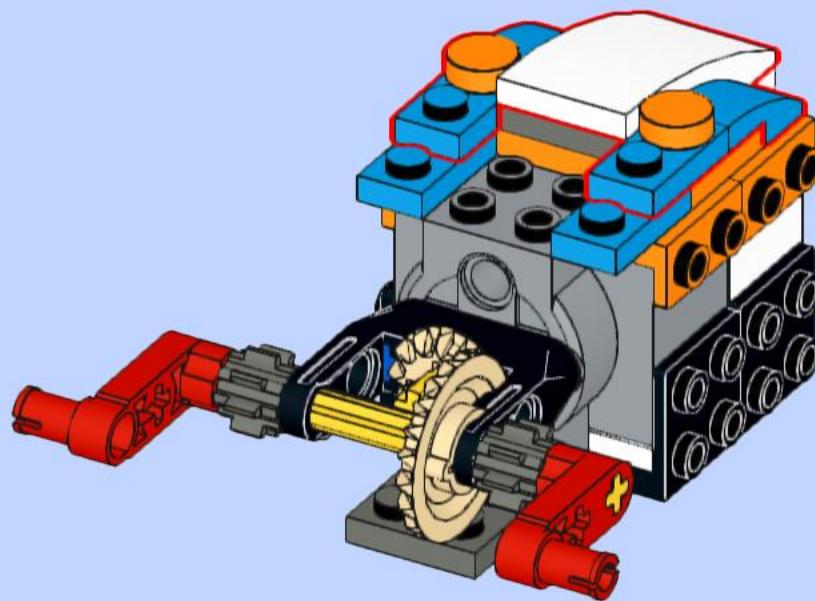
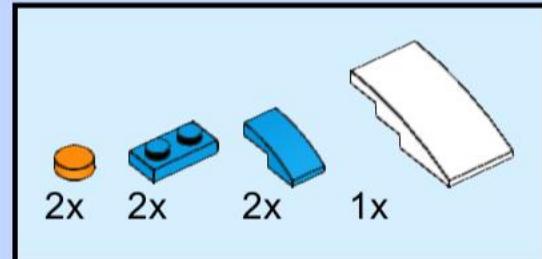
**108**



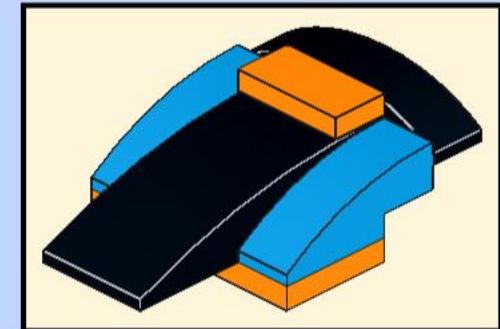
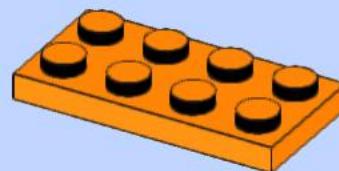
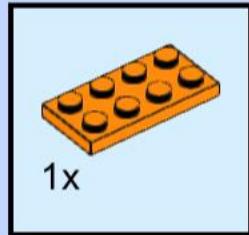
# 109



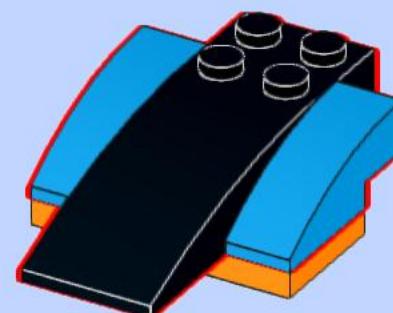
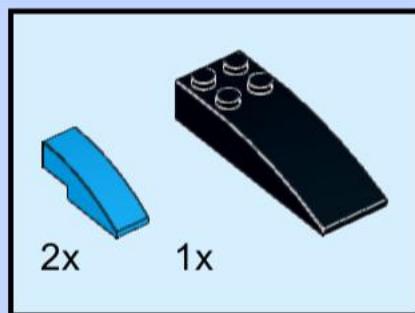
# 110



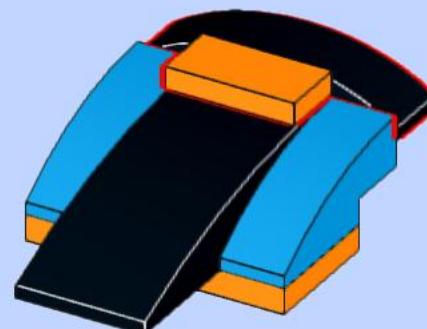
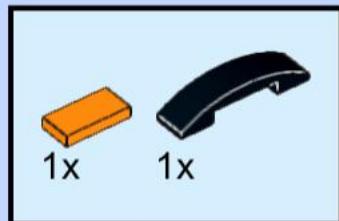
**111**



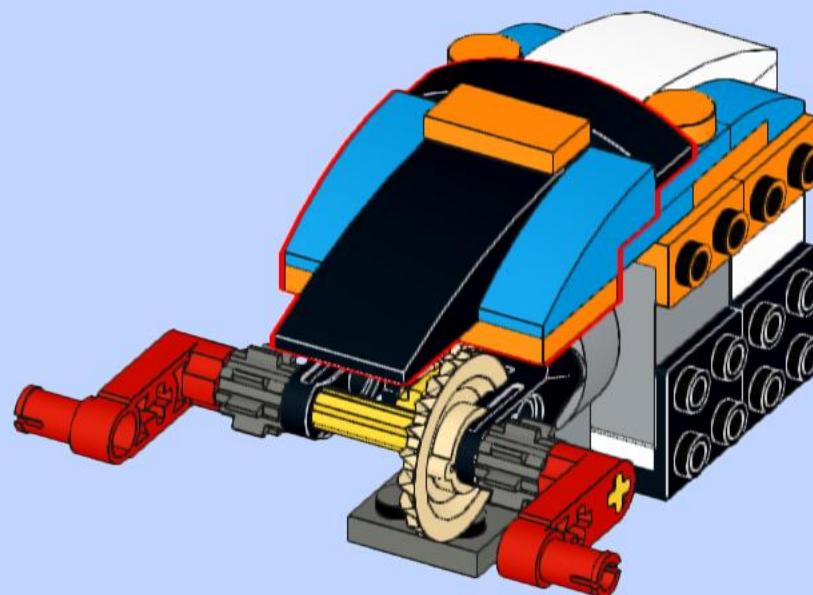
**112**



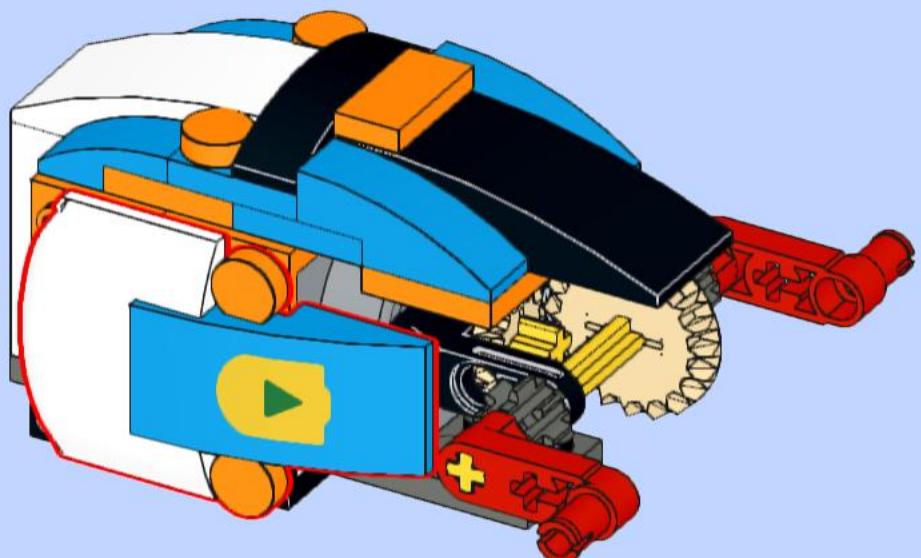
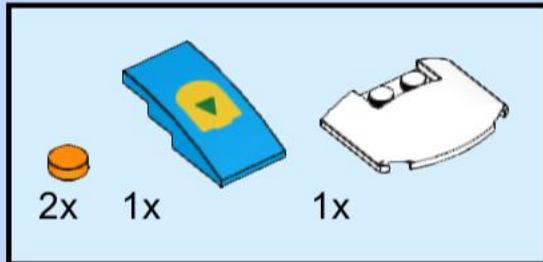
**113**



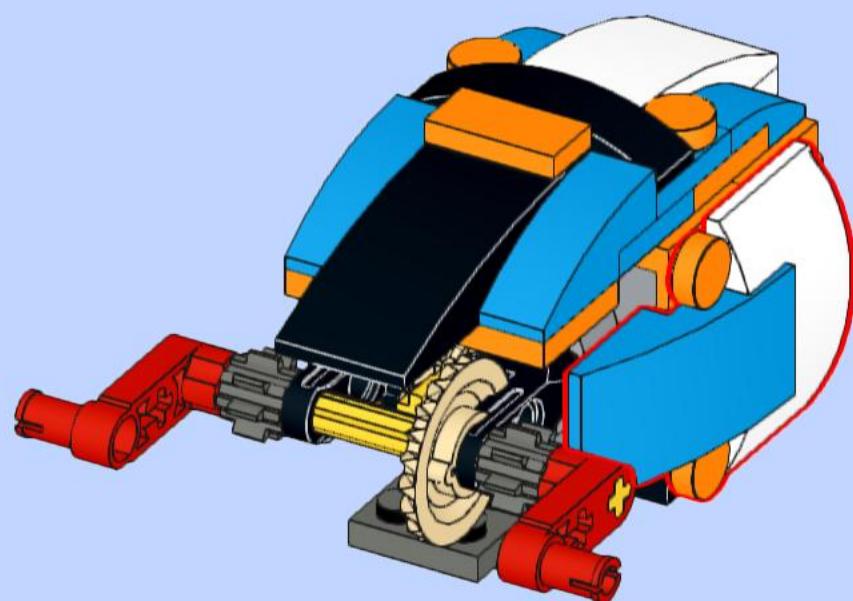
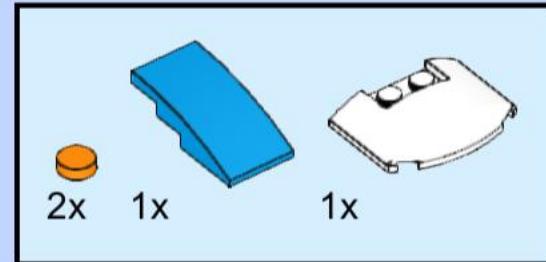
114



**115**

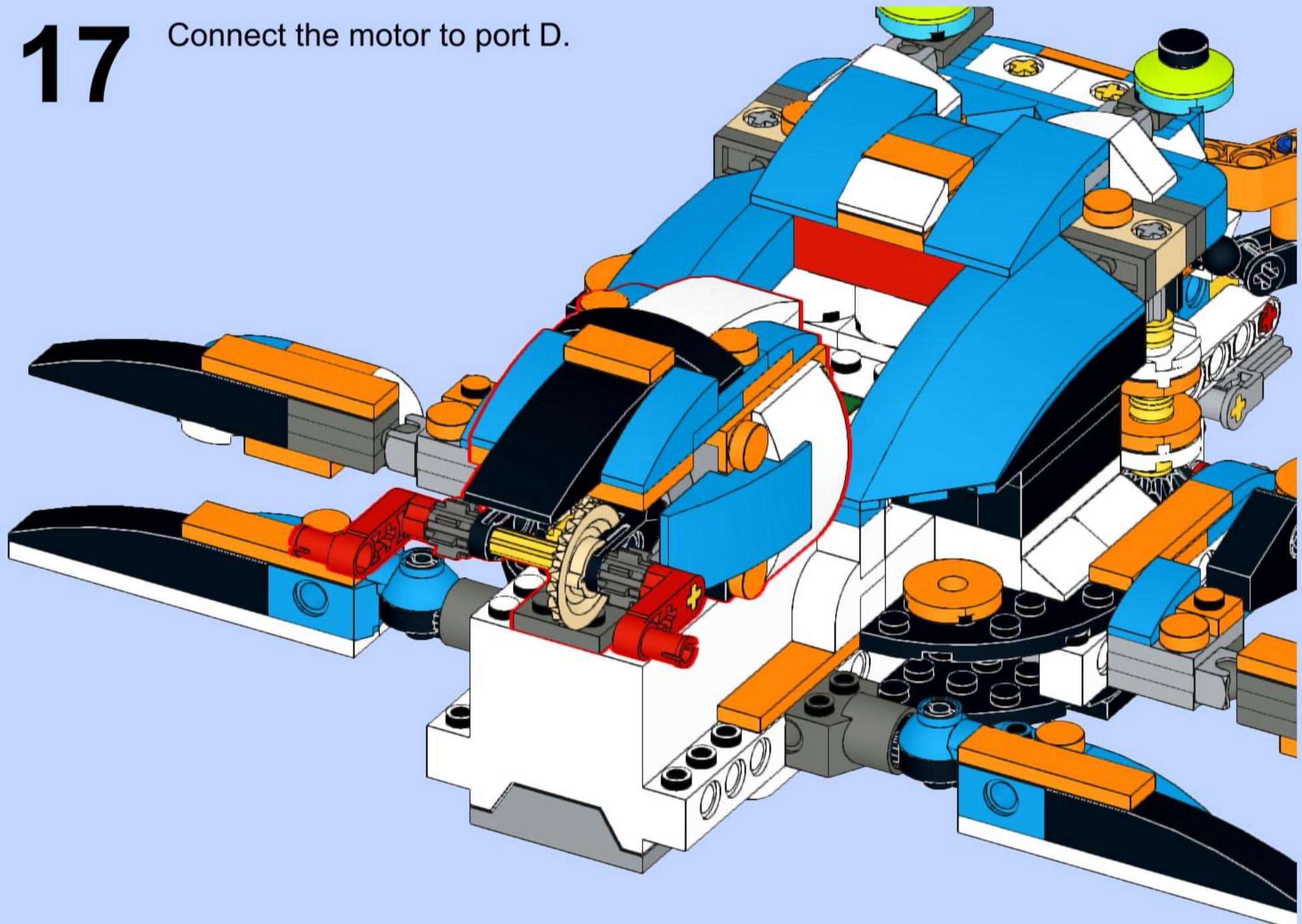


**116**

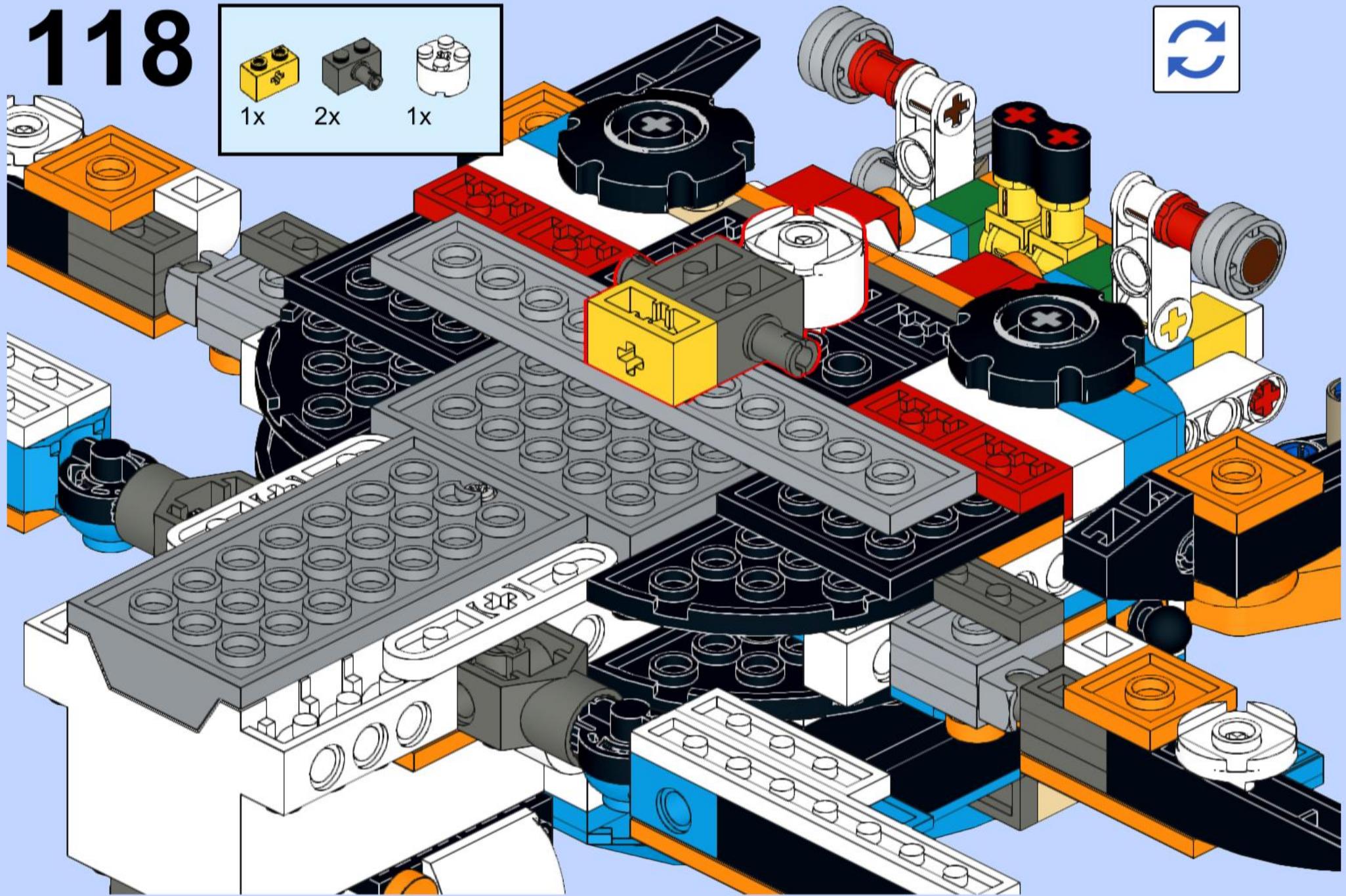
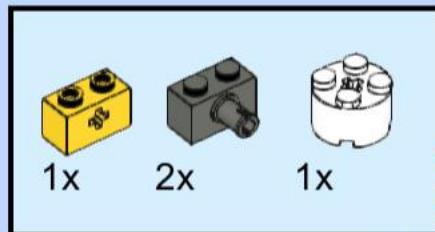


**117**

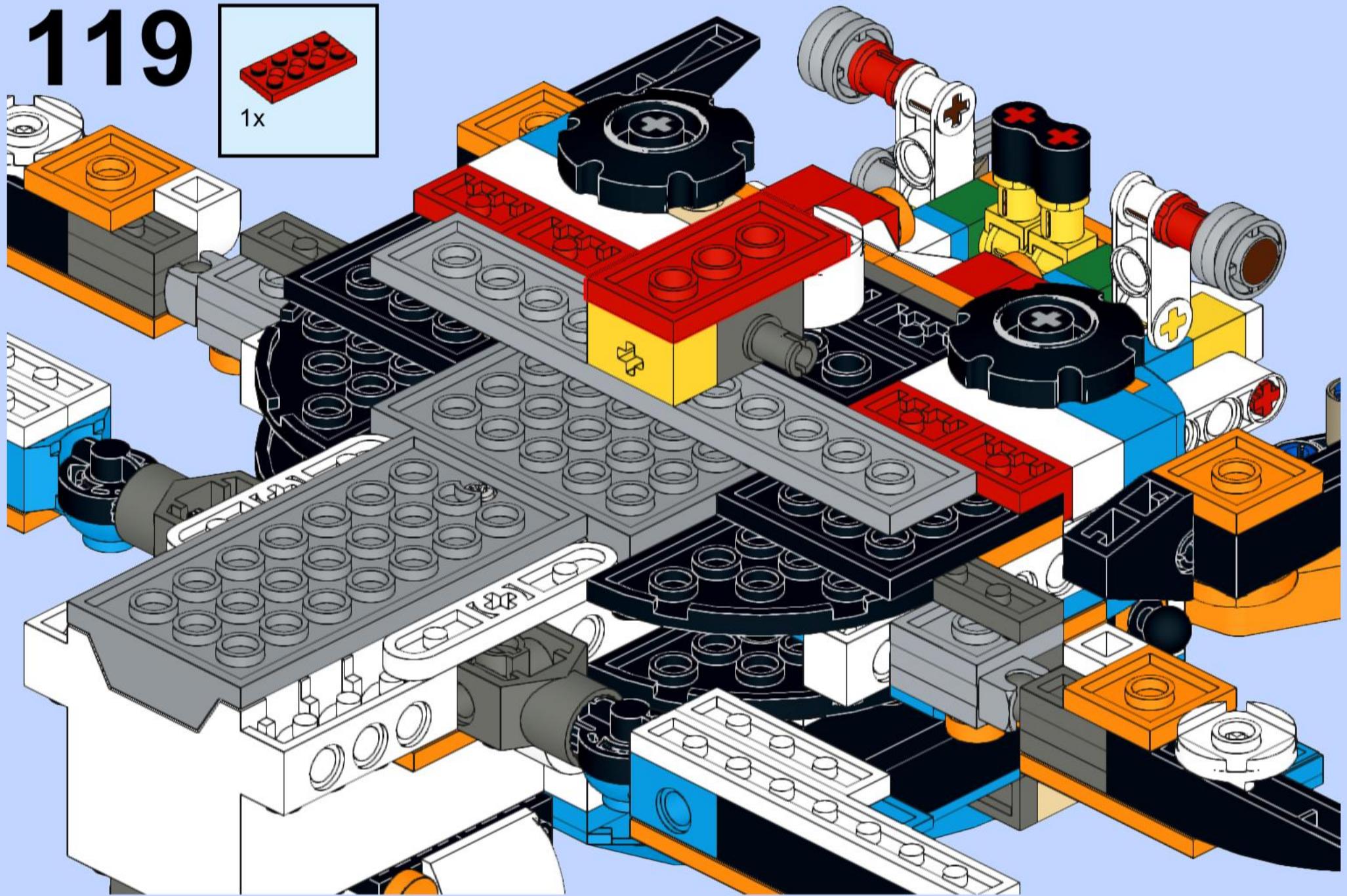
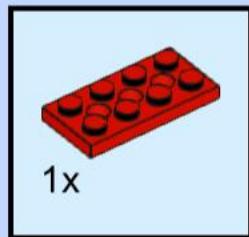
Connect the motor to port D.



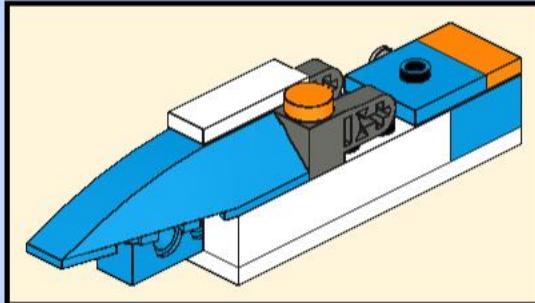
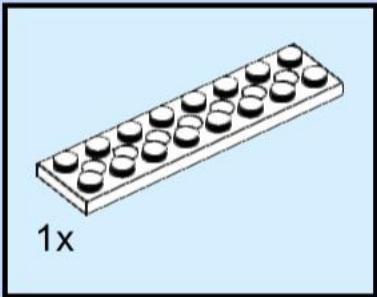
# 118



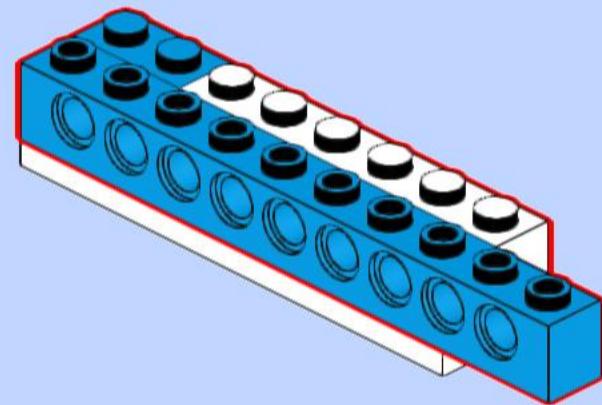
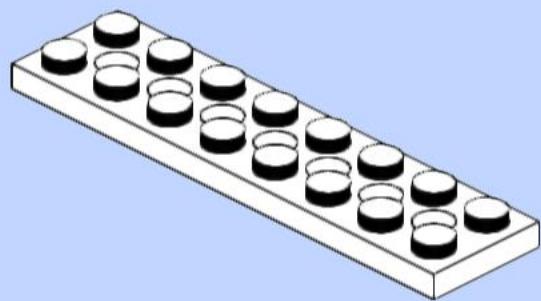
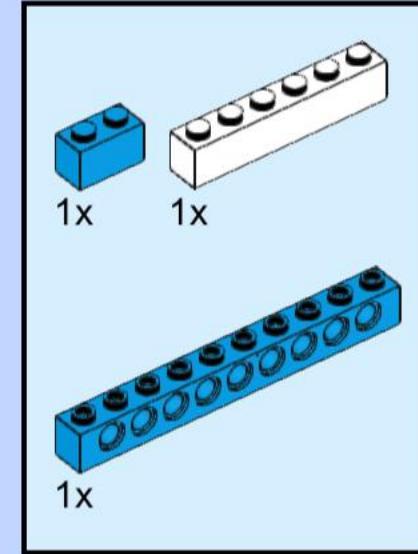
**119**



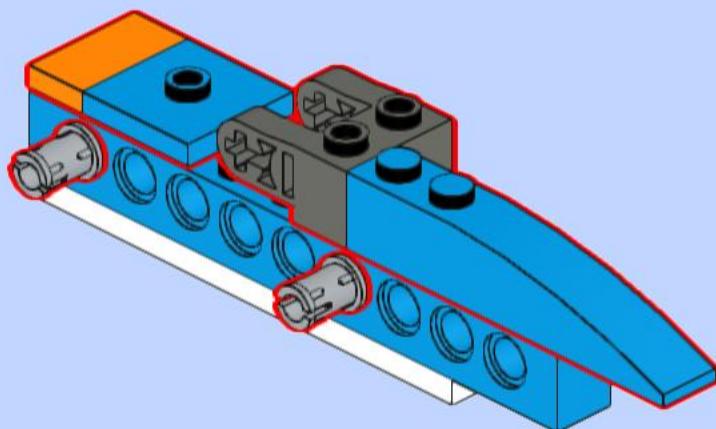
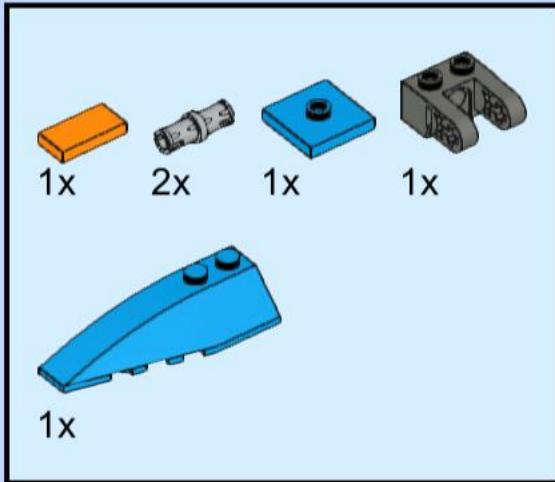
**120**



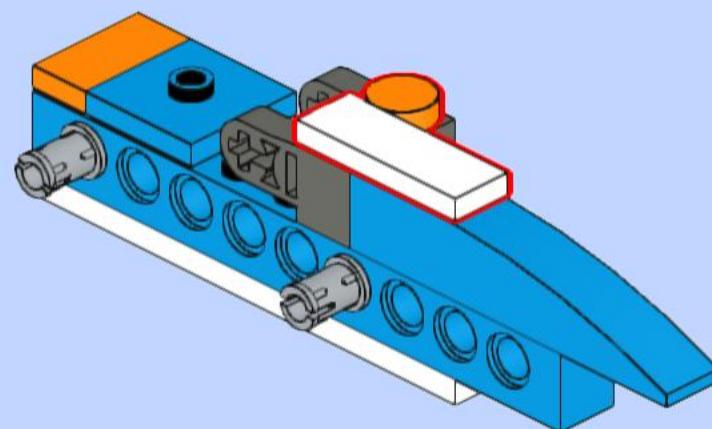
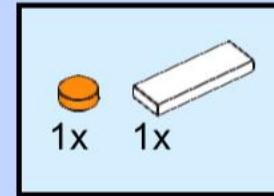
**121**



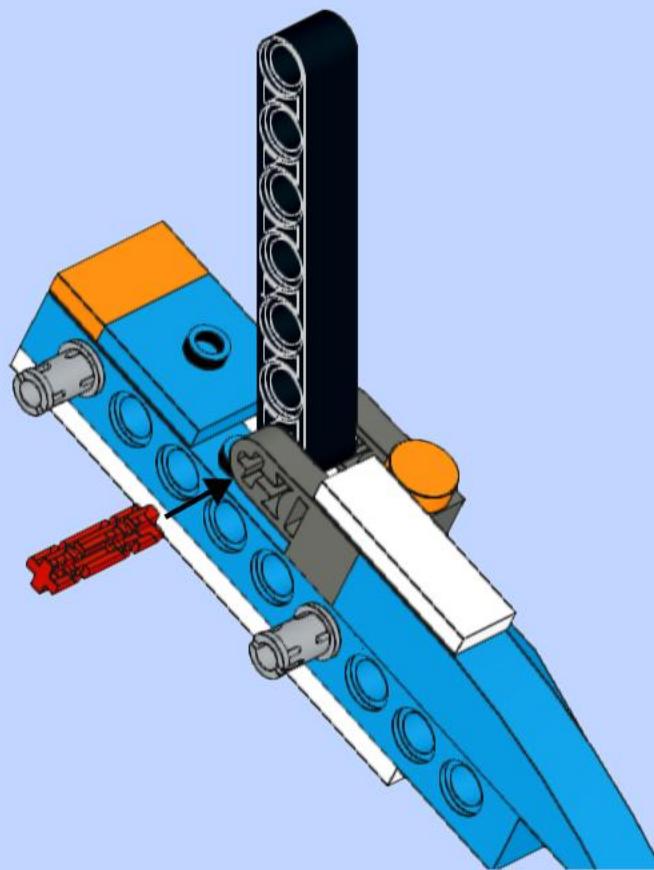
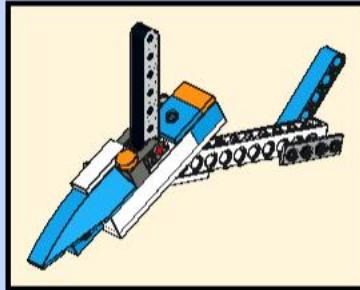
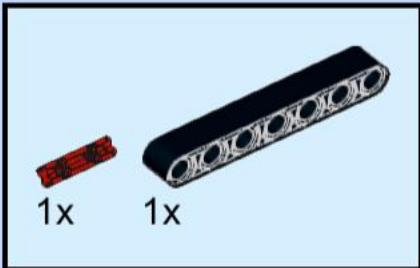
# 122



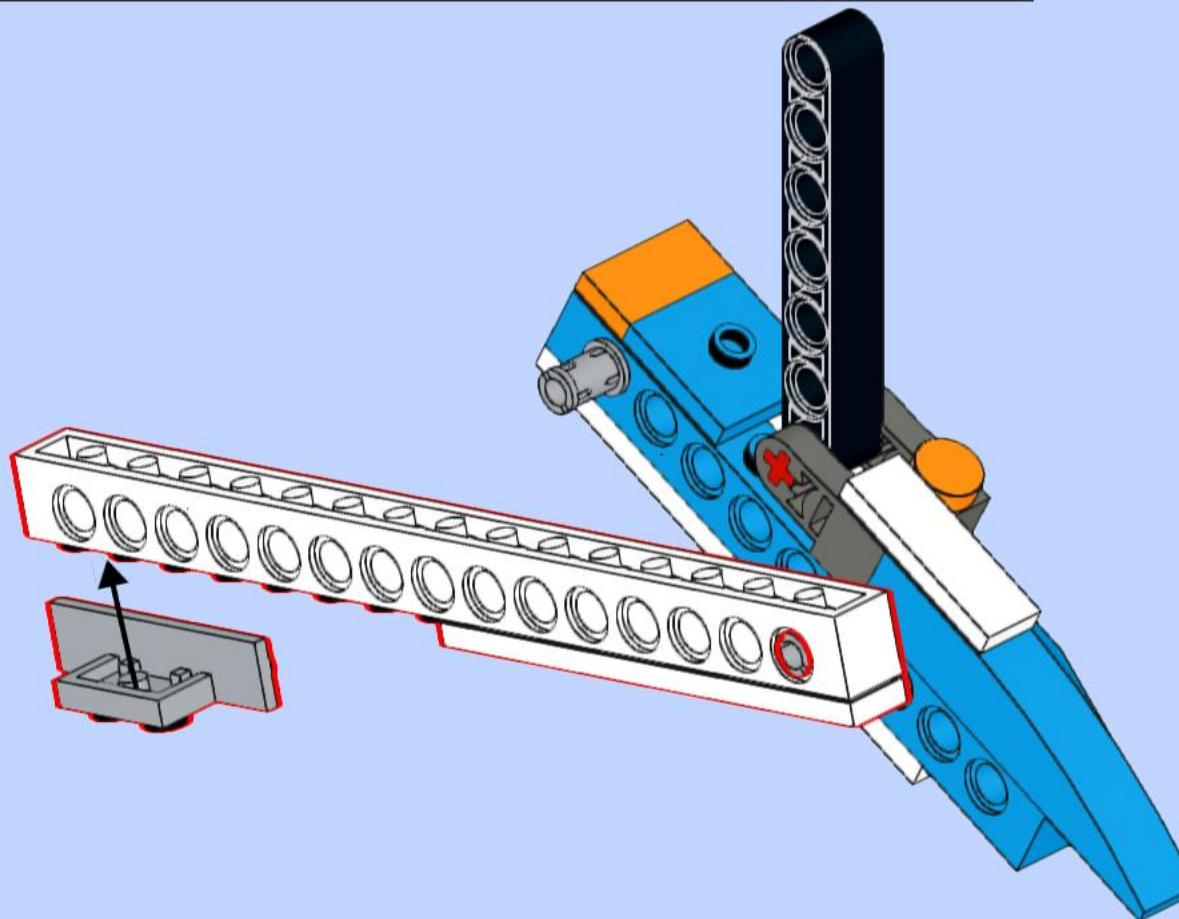
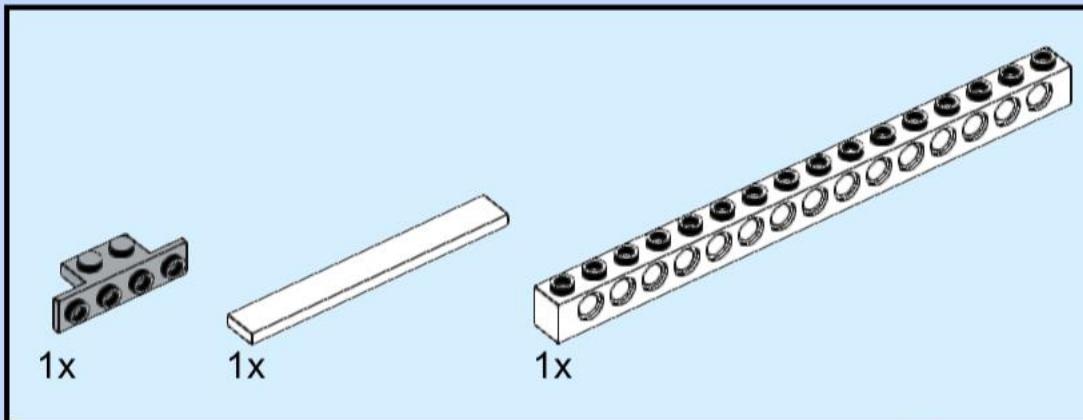
# 123



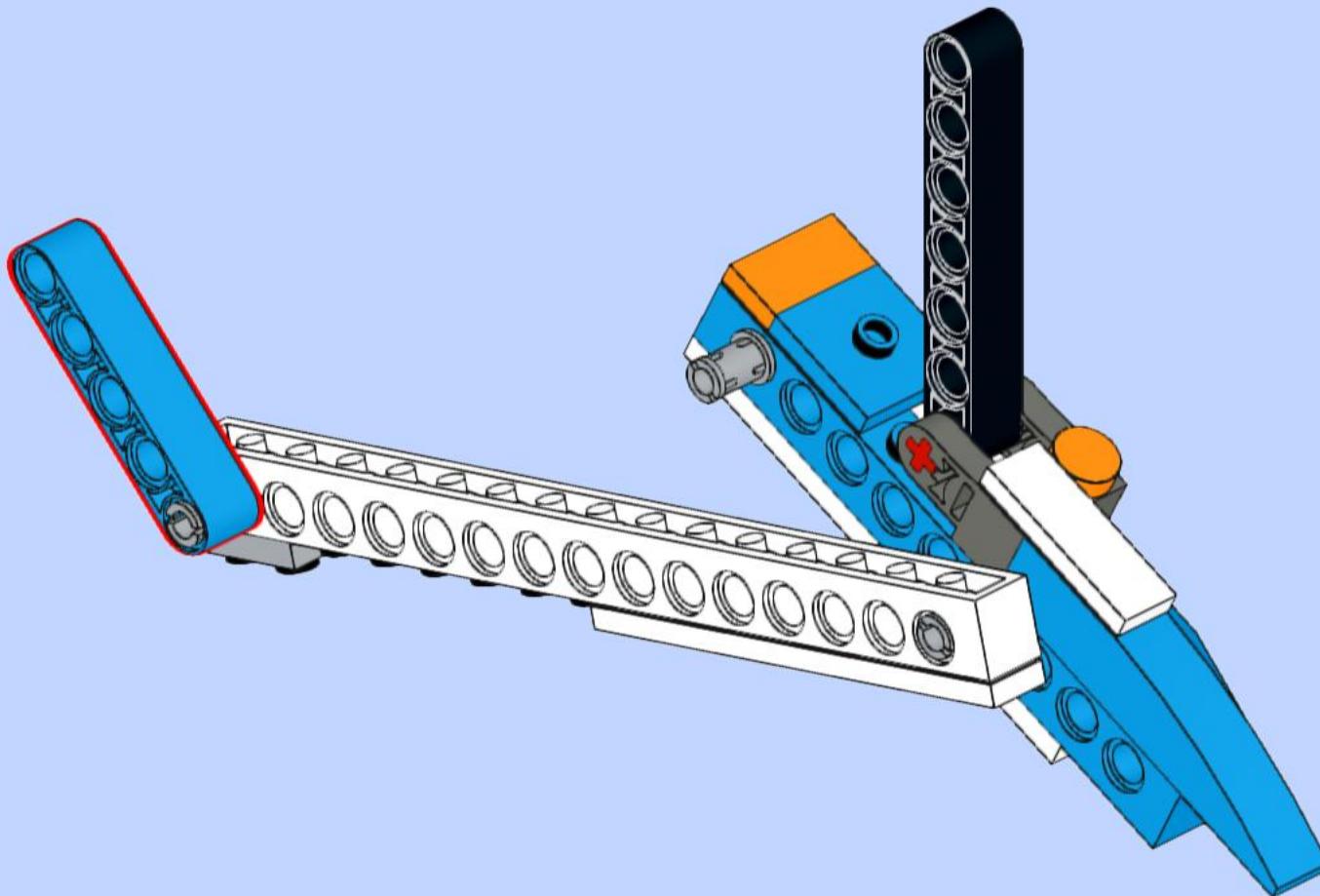
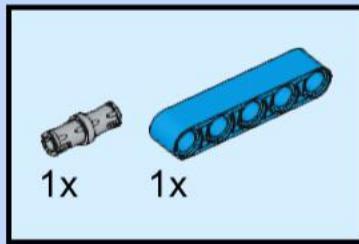
# 124



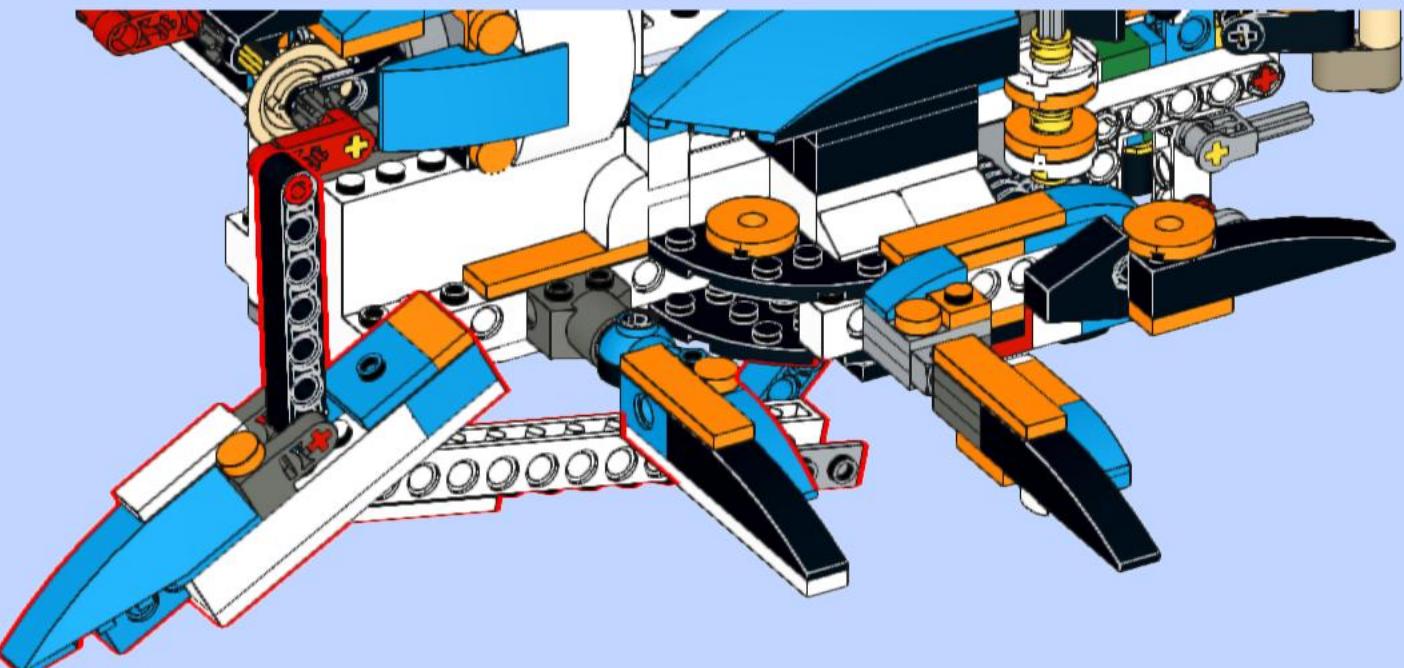
# 125



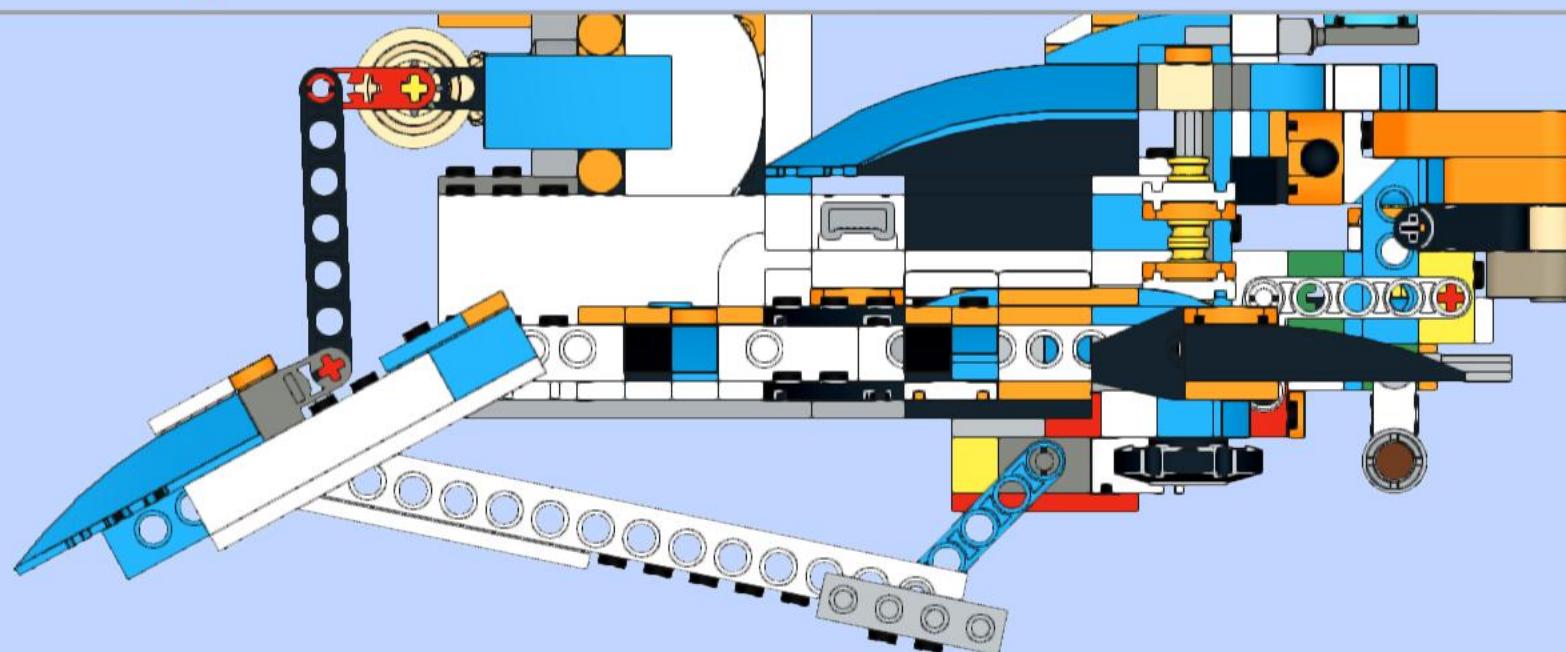
**126**



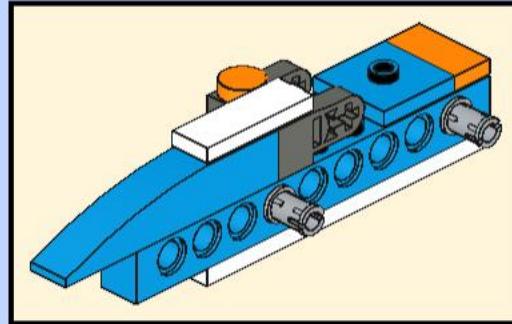
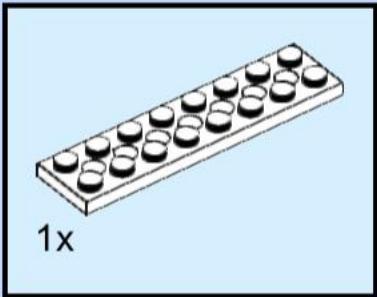
**127**



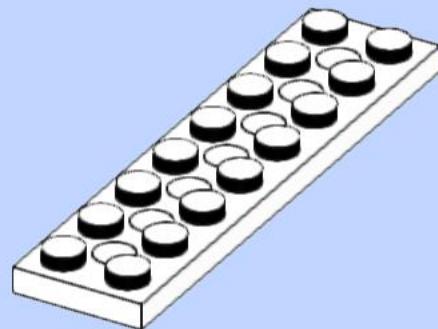
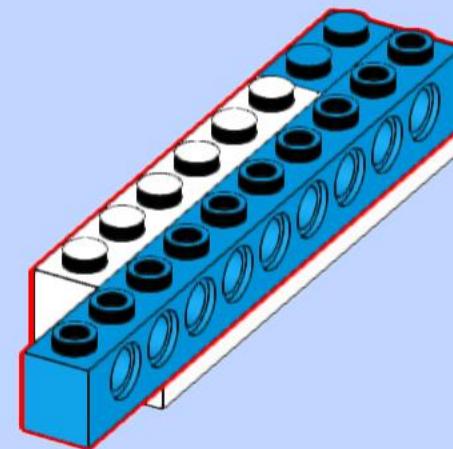
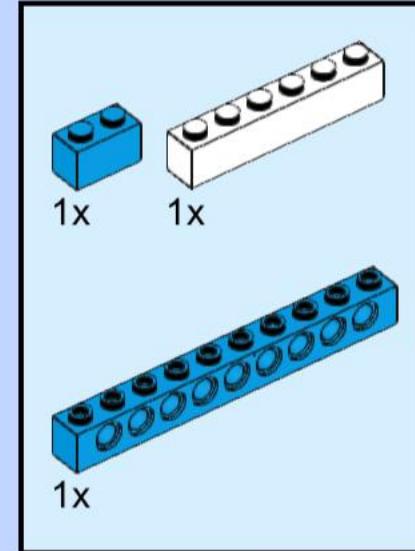
**128**



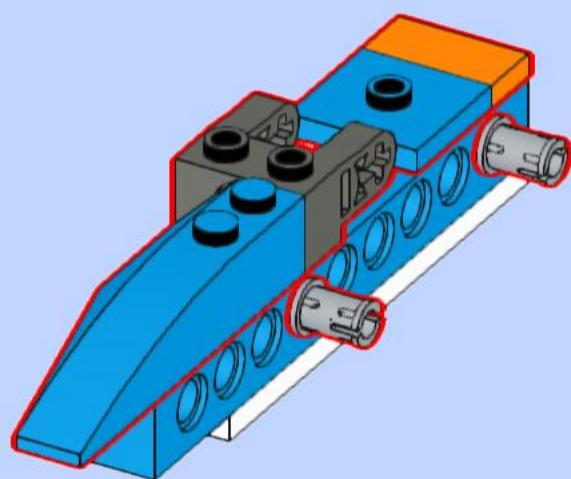
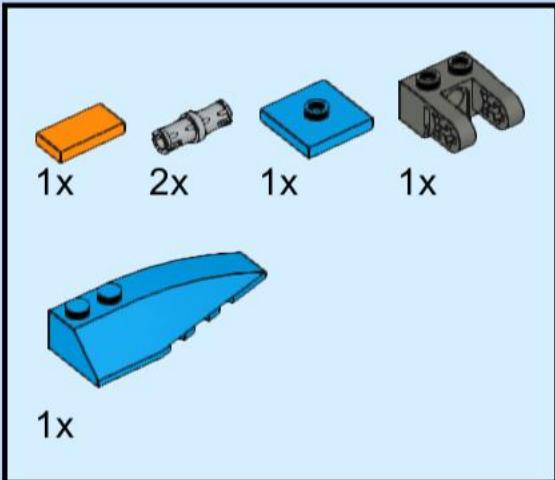
**129**



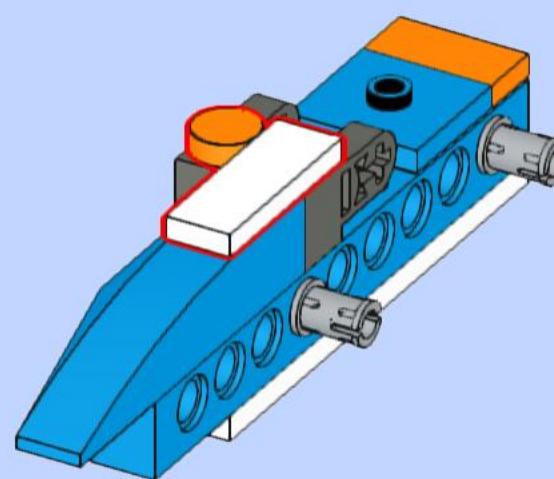
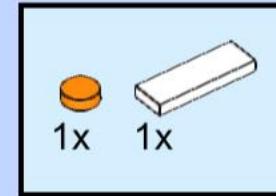
**130**



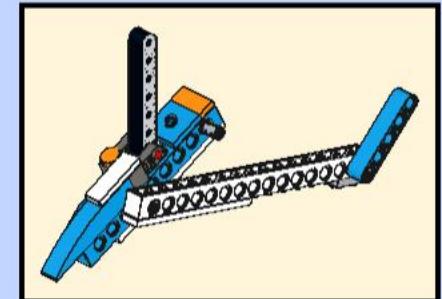
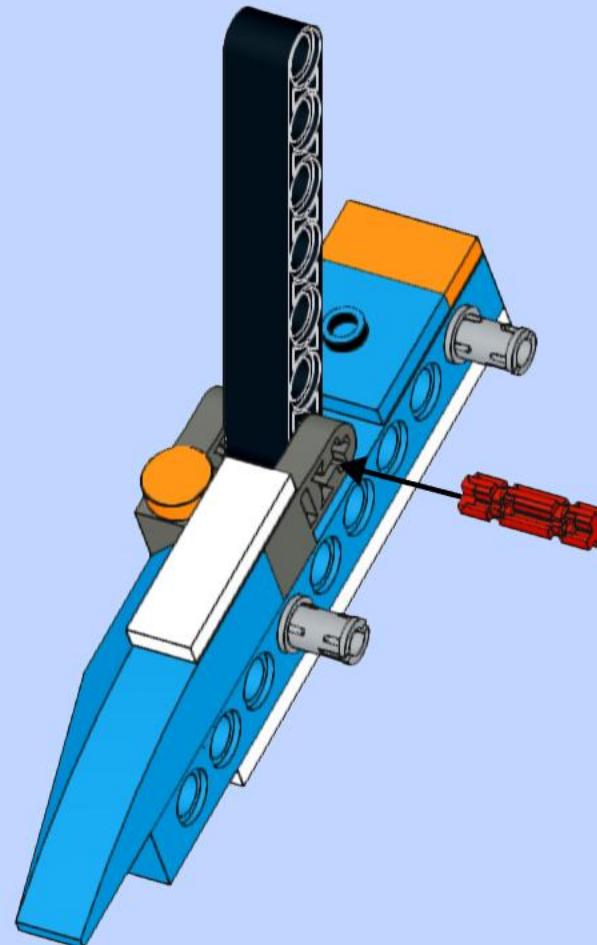
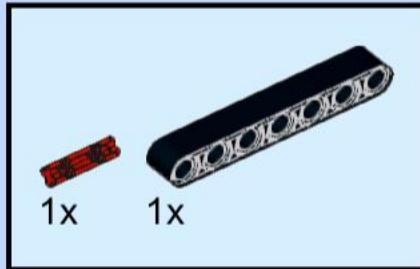
**131**



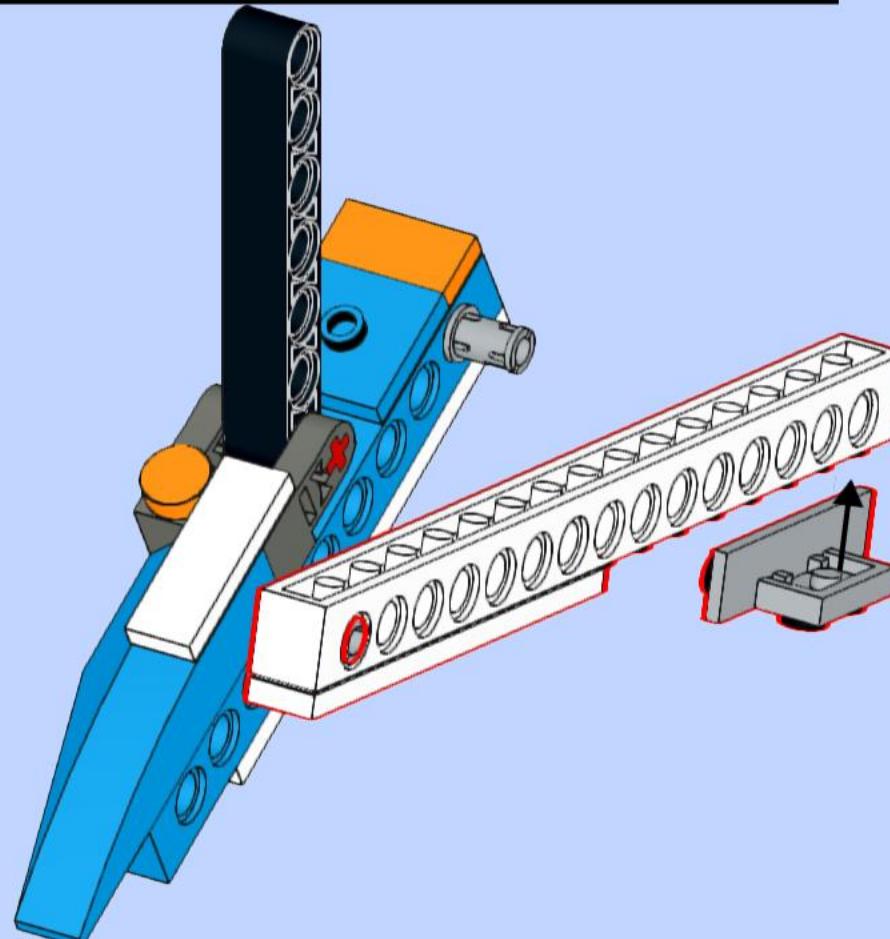
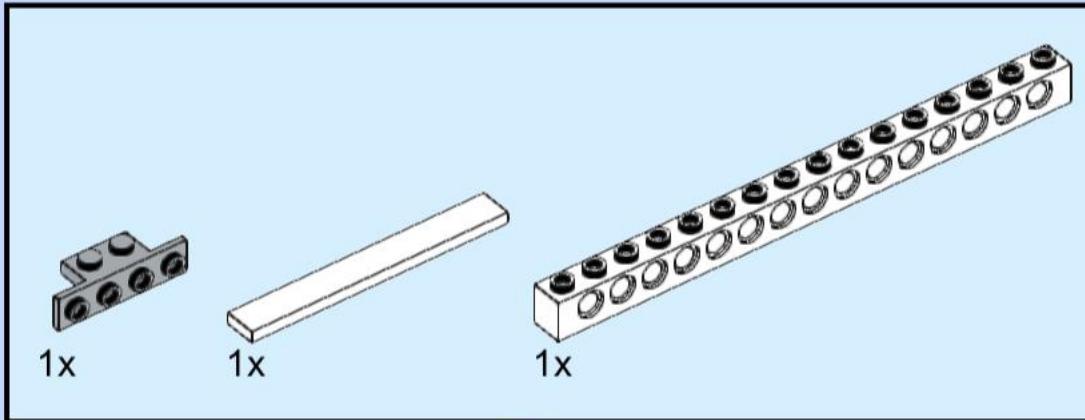
**132**



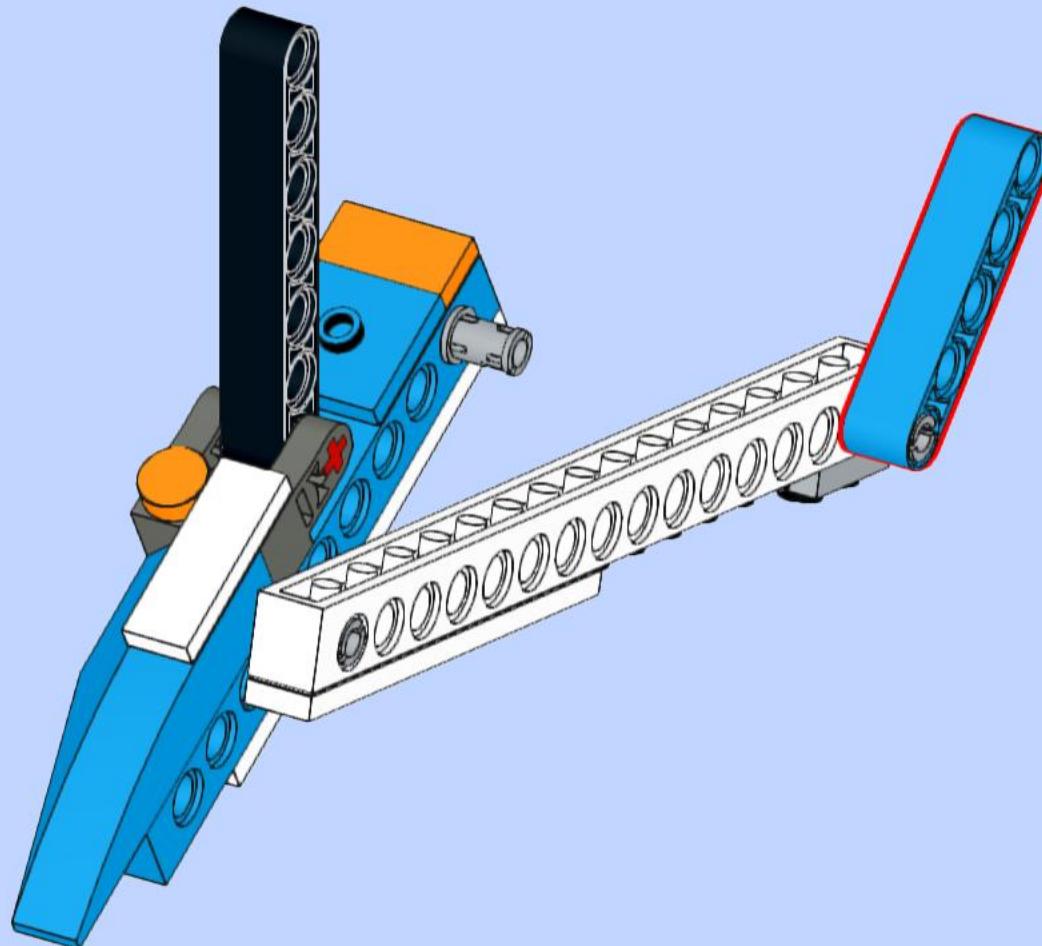
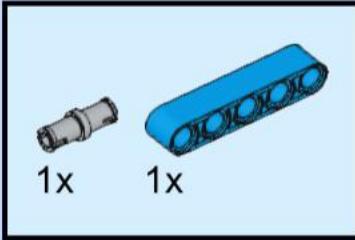
# 133



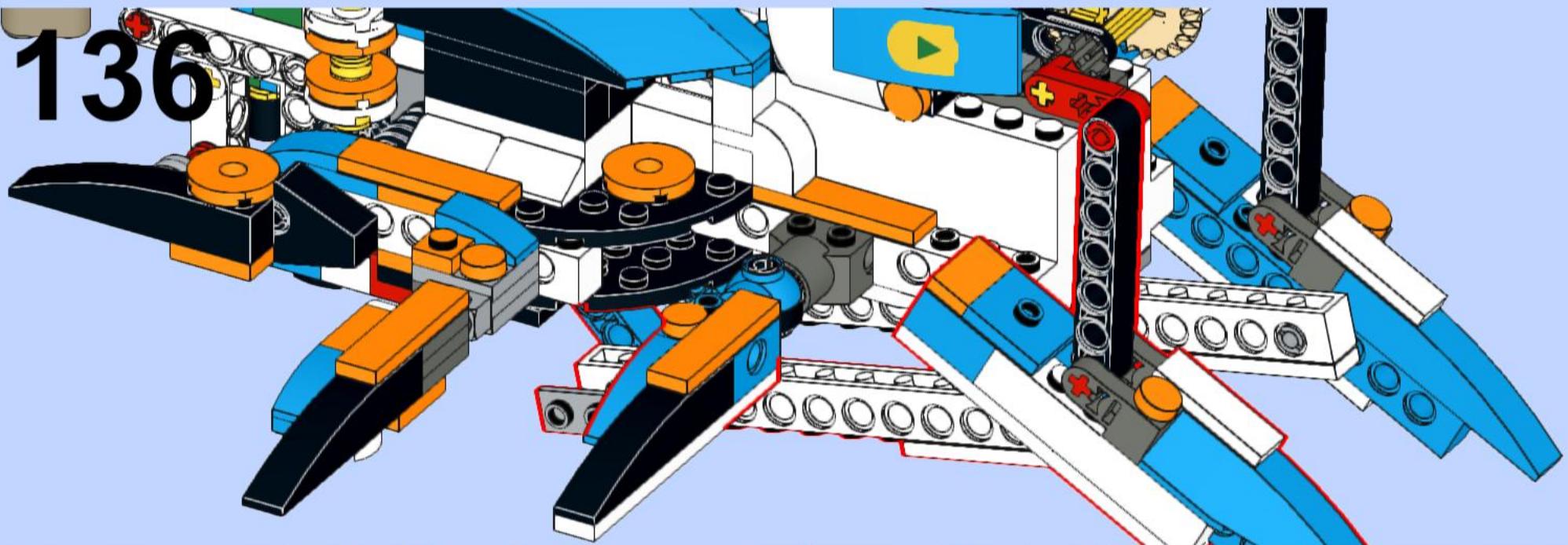
**134**



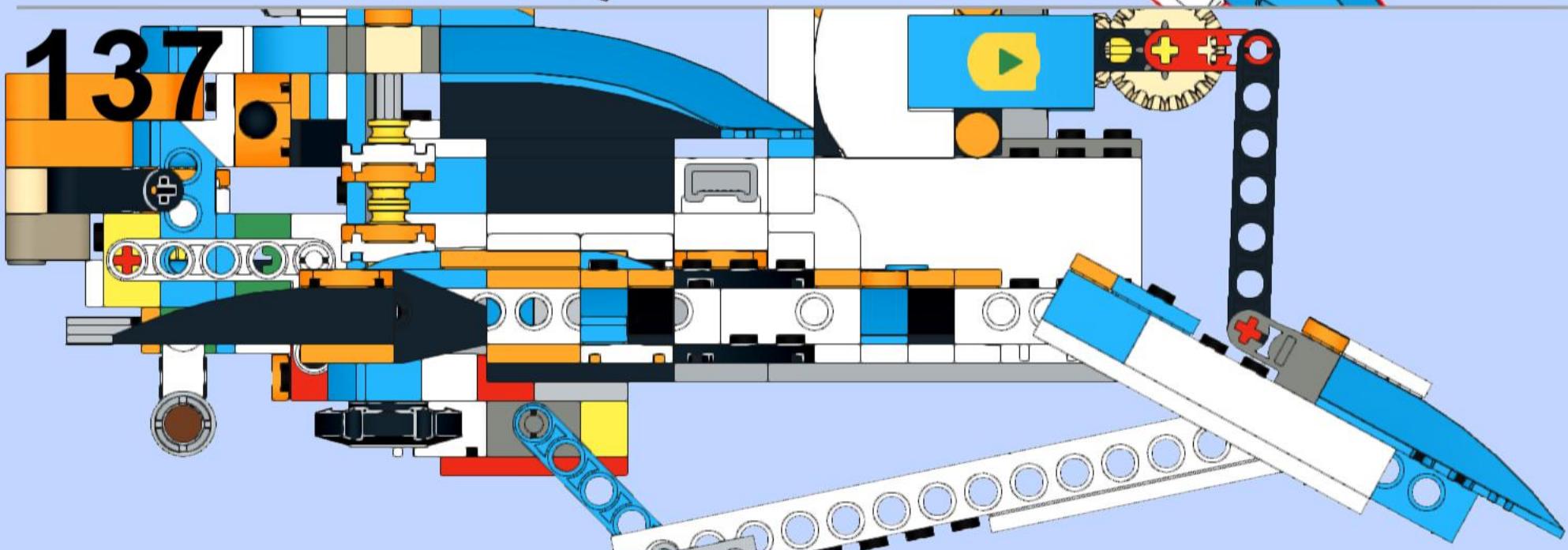
# 135



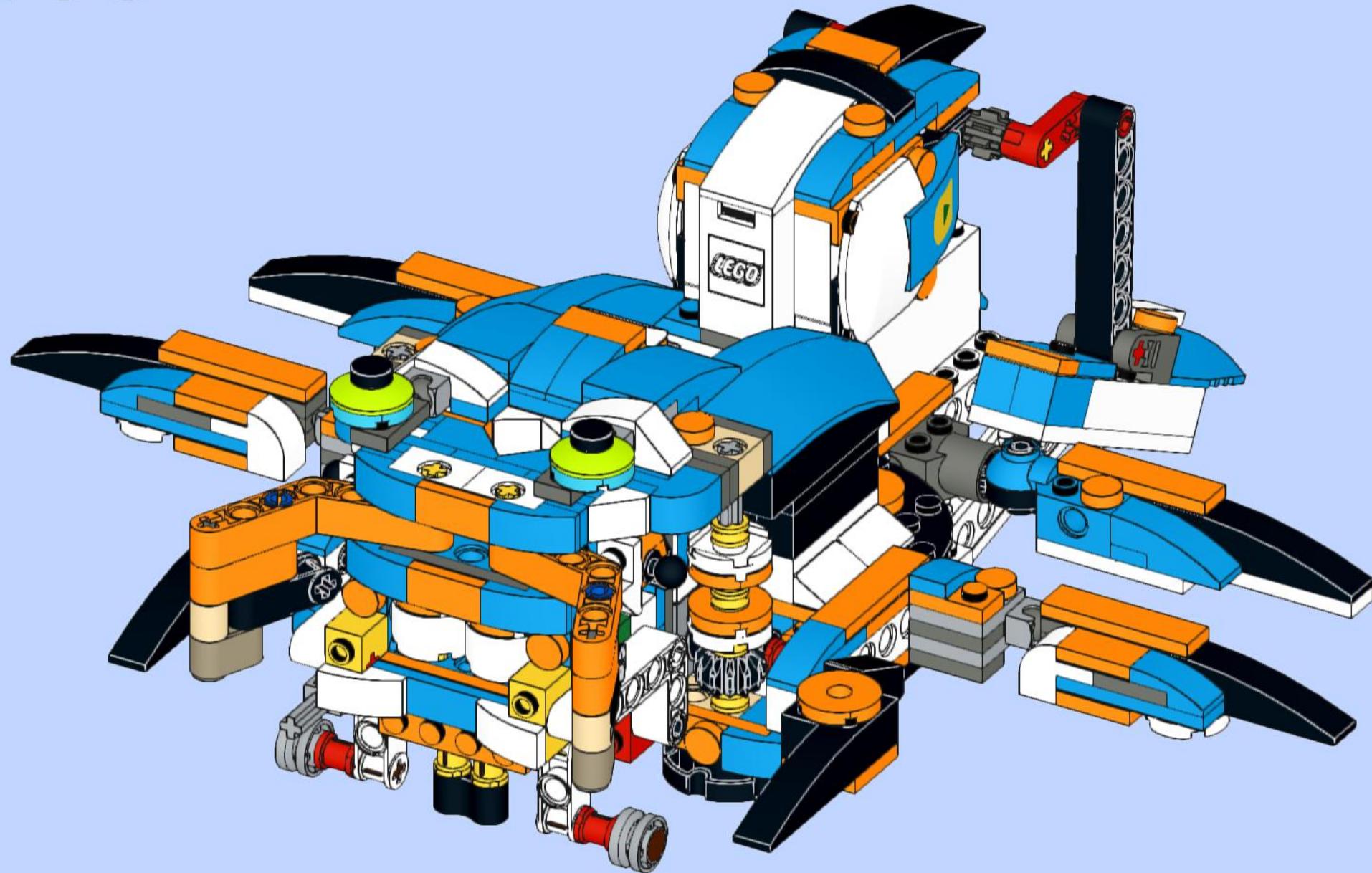
**136**



**137**



# 138







4x  
11477  
White



2x  
99206  
White



2x  
6232  
White



2x  
93604  
White



2x  
4162  
White



9x  
85984  
White



2x  
63864  
White



5x  
3710  
White



2x  
32124  
White



6x  
92946  
White



6x  
3941  
White



2x  
3010  
White



2x  
32526  
White



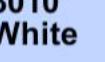
1x  
bb0893c01  
White



2x  
3700  
White



2x  
32184  
White



1x  
93606  
White



2x  
3009  
White



2x  
3702  
White



4x  
6091  
White



3x  
44728  
White



2x  
3001pb119  
White



2x  
3460  
White



2x  
3738  
White



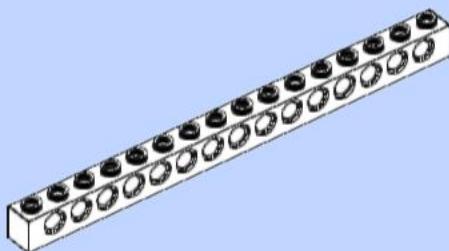
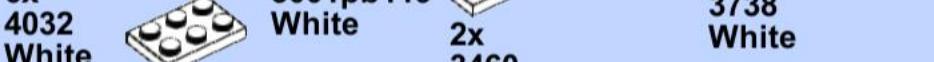
6x  
4032  
White



3x  
3021  
White



2x  
3460  
White



2x  
3703  
White



4x  
99780  
Red



4x  
32064  
Red



2x  
61408  
Red



1x  
3709b  
Red



1x  
3001  
Red



2x  
24316  
Reddish Brown



4x  
3713  
Red



6x  
32062  
Red

 2x 15462 Reddish Brown	 2x 17485 Orange	 2x 60483 Dark Tan	 3x 32064 Yellow	 18x 3024 Dark Azure	 6x 3660 Dark Azure	 3x 93606 Dark Azure	 1x 32531 Dark Azure	 2x 18674 Medium Azure
 22x 98138 Orange	 2x 32523 Orange	 2x 18654 Tan	 6x 4519 Yellow	 20x 3023 Dark Azure	 4x 50950 Dark Azure	 2x 32316 Dark Azure	 2x 4274 Blue	
 8x 3069b Orange	 8x 2431 Orange	 1x 6589 Tan	 2x 44294 Yellow	 16x 11477 Dark Azure	 7x 3021 Dark Azure	 2x 3795 Dark Azure	 2x 43093 Blue	
 4x 99781 Orange	 7x 3020 Orange	 4x 32000 Tan	 2x 4740 Lime	 6x 3004 Dark Azure	 3x 41740 Dark Azure	 1x 41748 Dark Azure	 4x 6558 Blue	
 8x 3022 Orange		 1x 32198 Tan	 2x 6541 Green	 2x 6091 Dark Azure	 1x 93606pb069 Dark Azure	 1x 41750 Dark Azure		
 10x 15535 Orange	 4x 3666 Orange	 10x 4265c Yellow	 2x 32064 Green	 2x 87580 Dark Azure	 2x 48170 Dark Azure	 1x 41747 Dark Azure	 2x 2730 Dark Azure	
	 2x 32348 Orange		 2x 32039 Yellow					