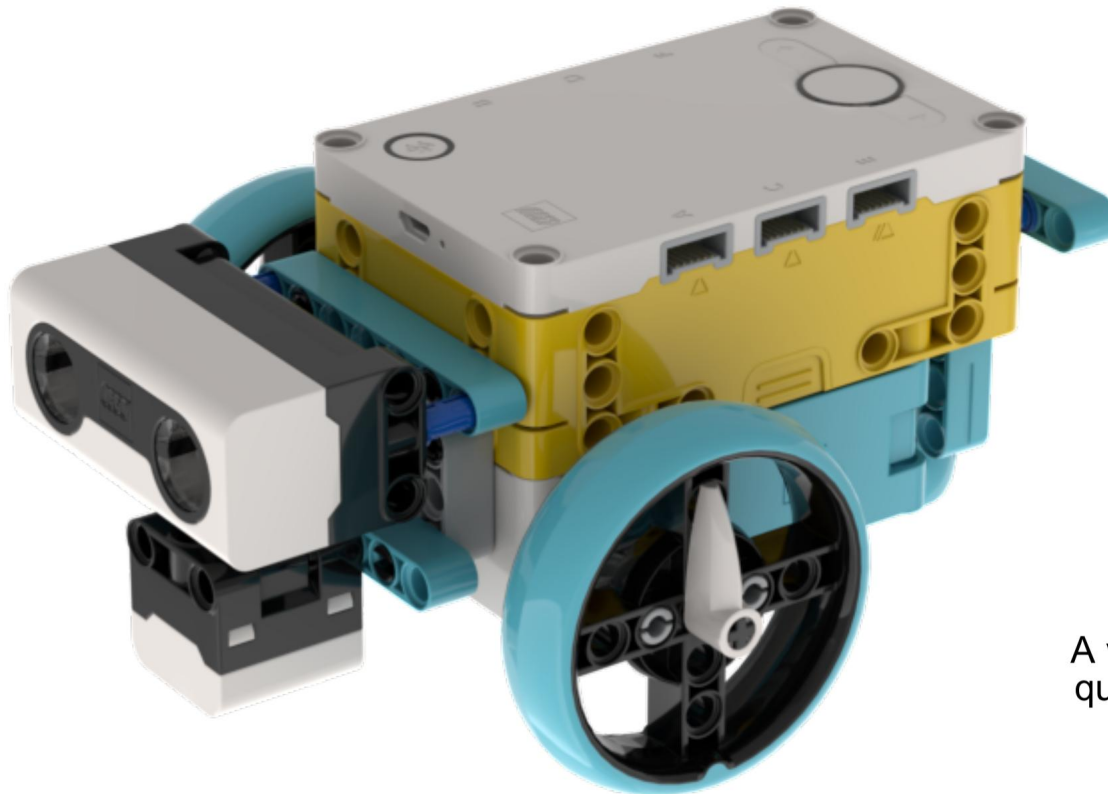




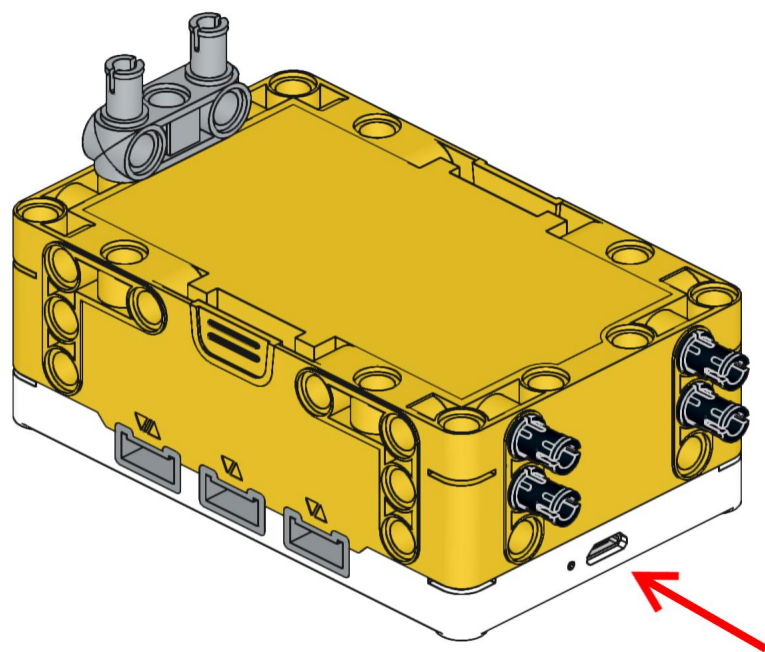
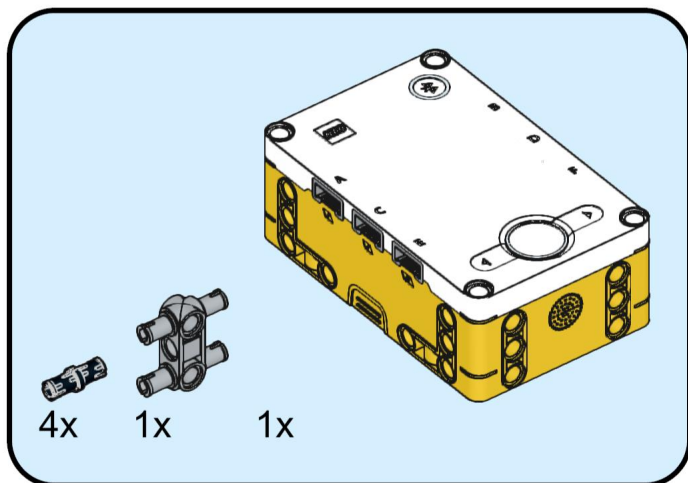
**modern  
teaching aids**



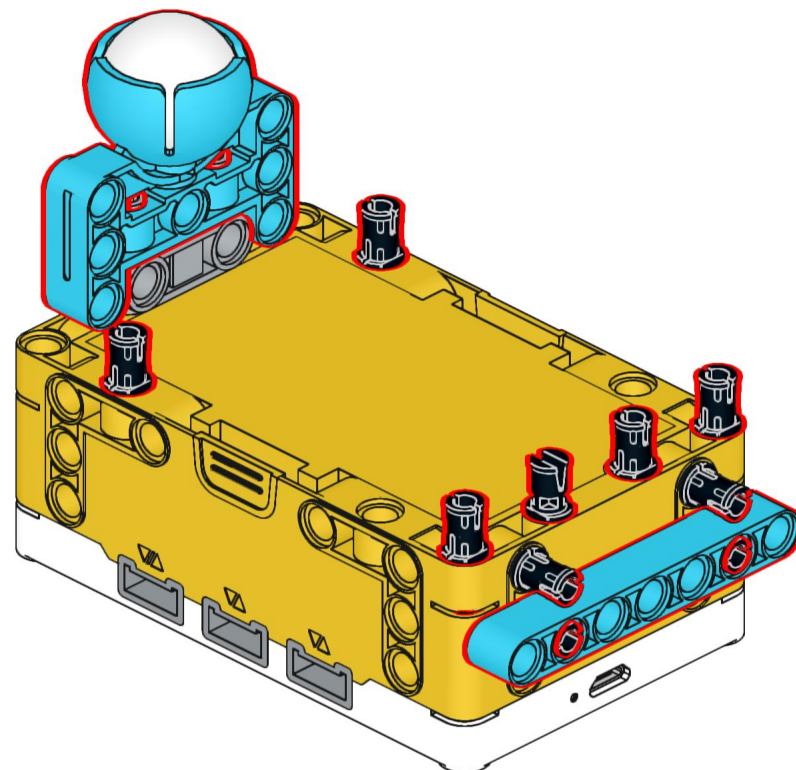
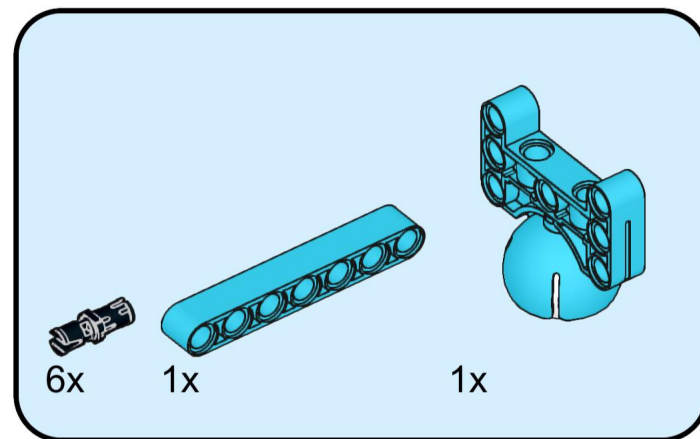
## **MTA-Bot**

A versatile and multi-purpose robot that is quick and easy to build and program. It is commonly used in our SPIKE Prime workshops.

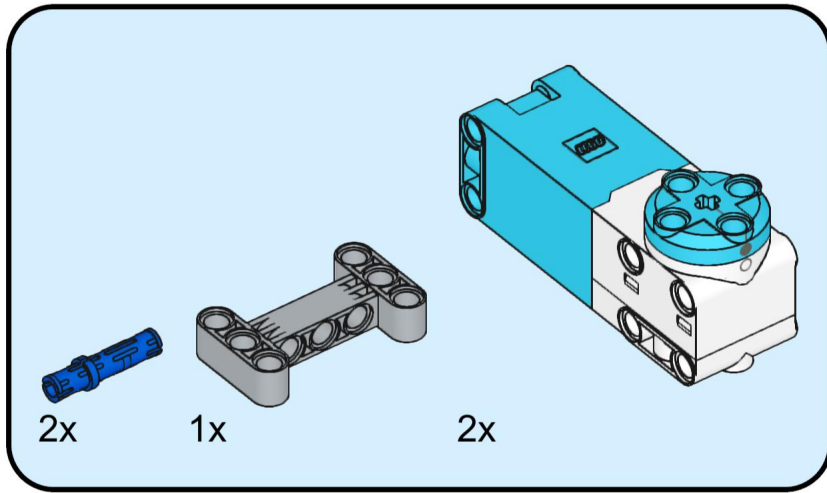
# 1



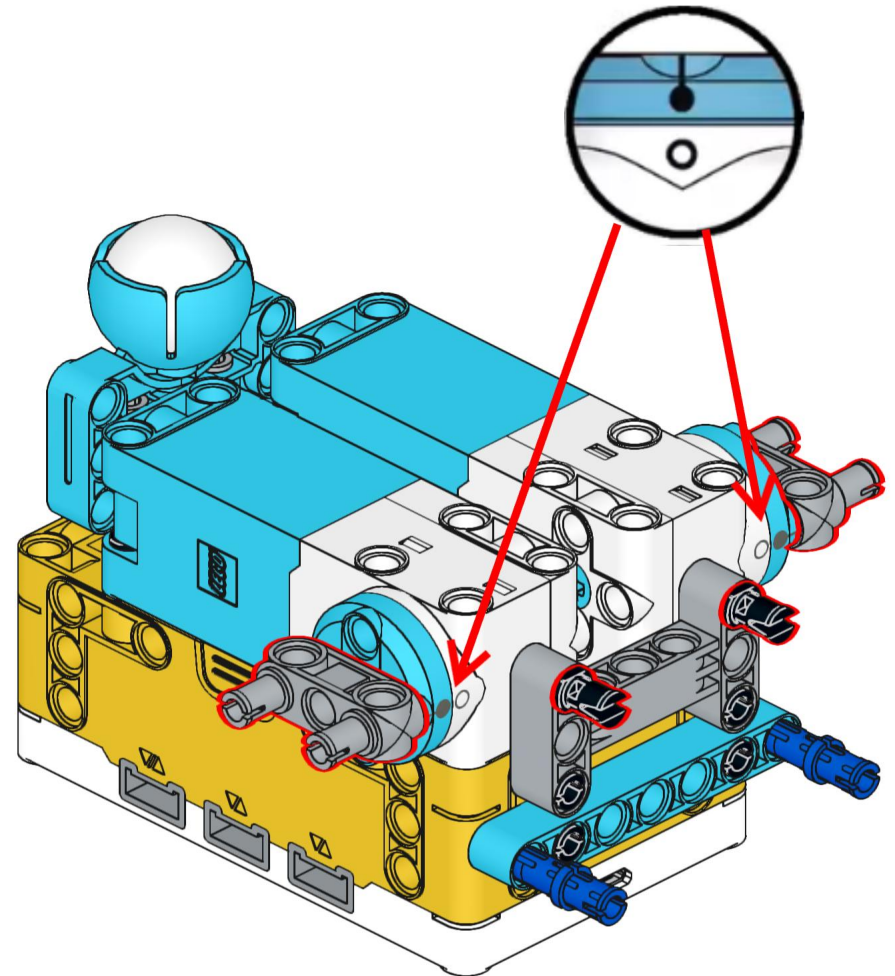
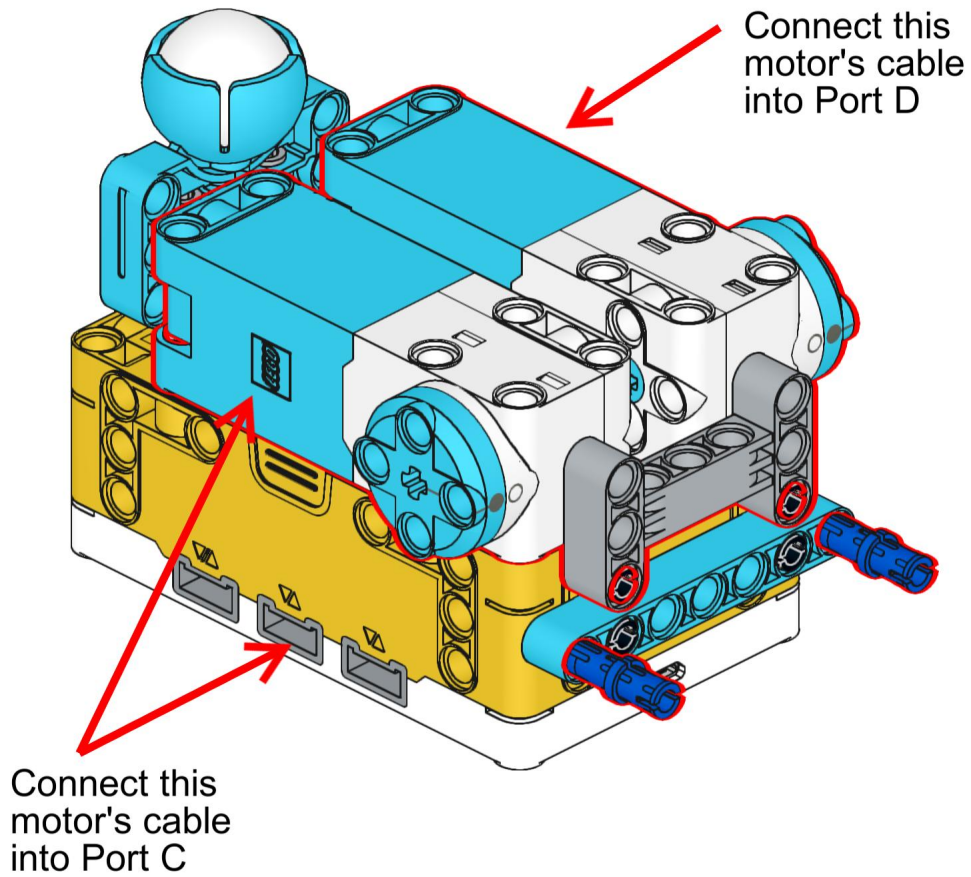
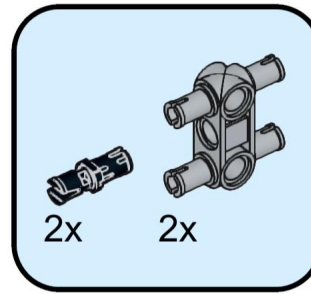
# 2



# 3

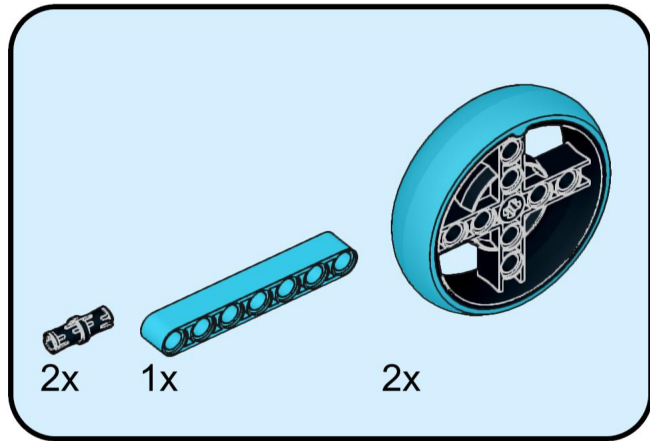


# 4

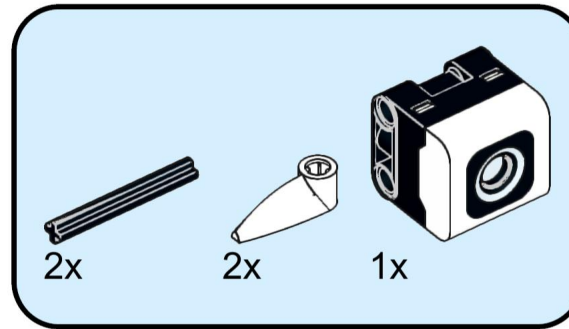




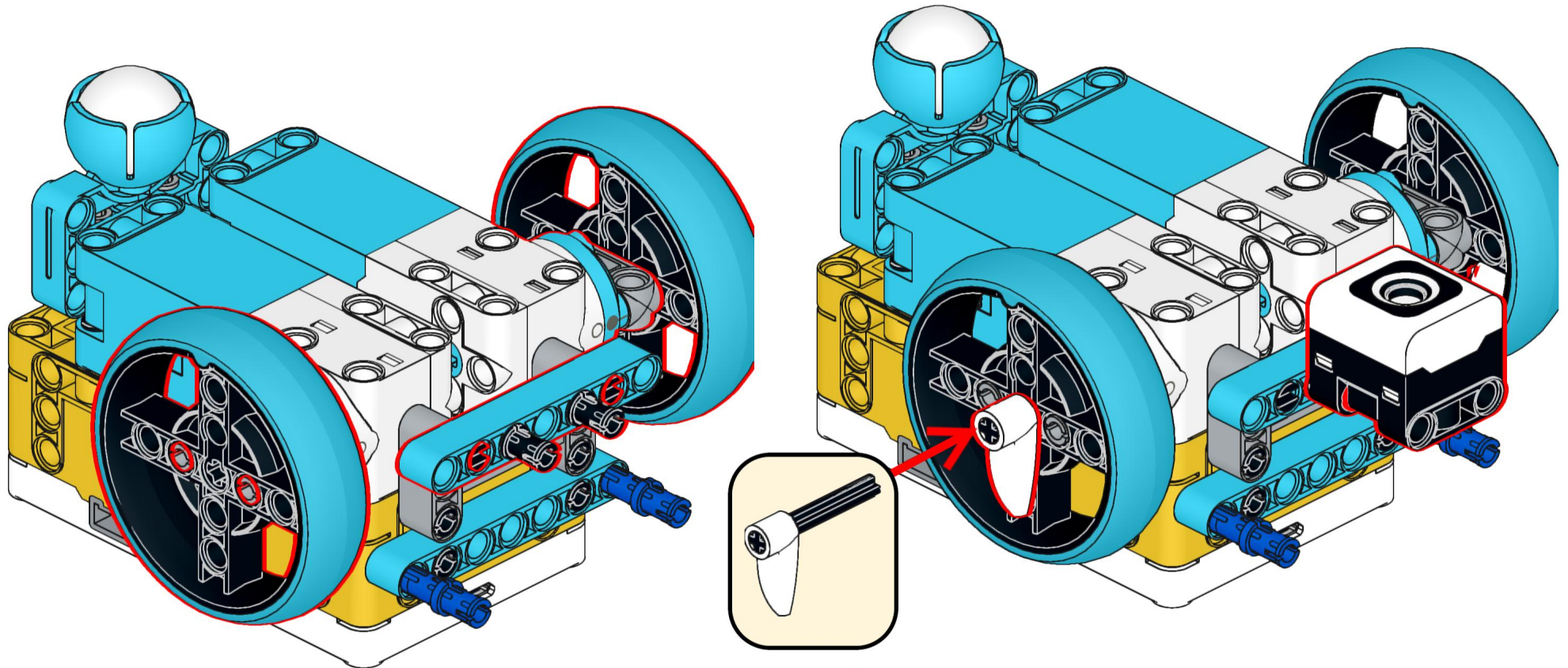
# 5



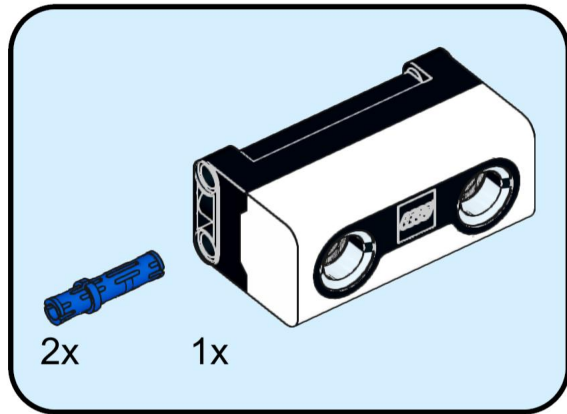
# 6



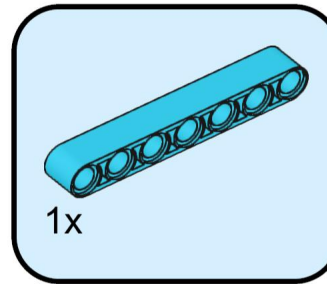
Connect the  
Colour Sensor  
to Port B



7



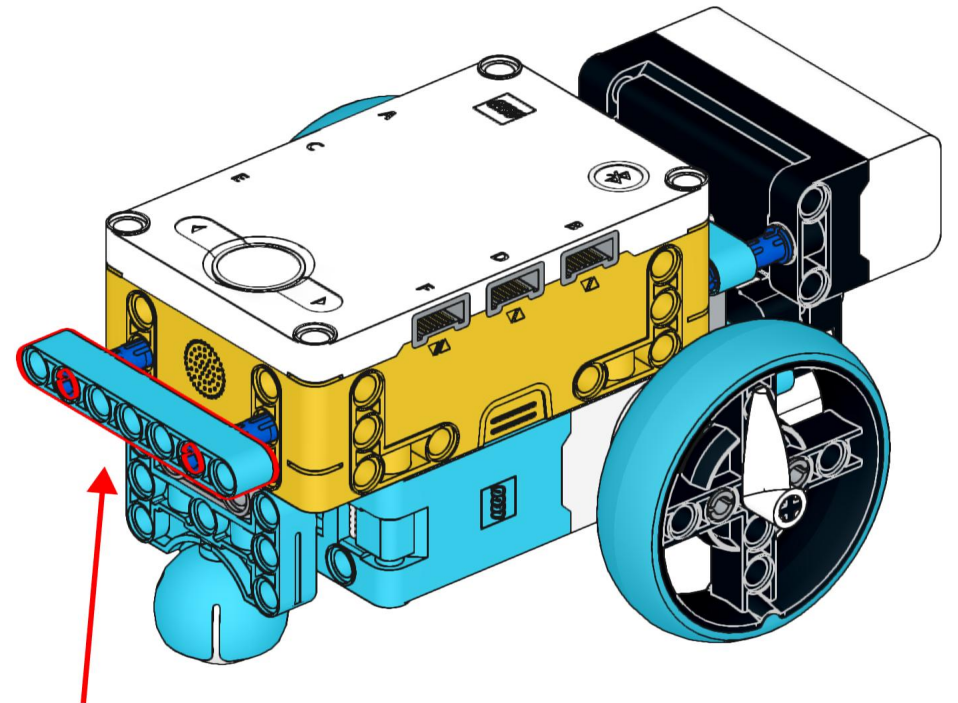
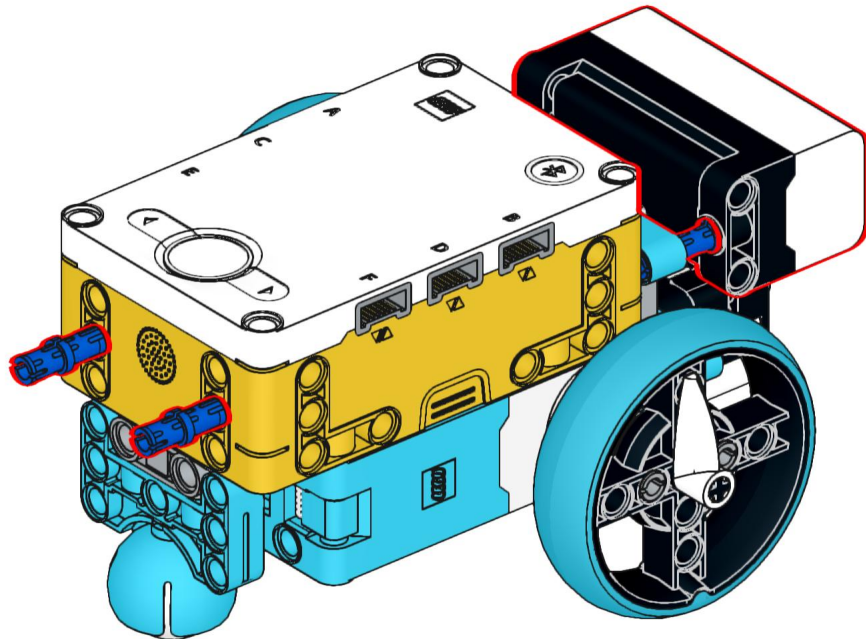
8



Optional: Cable ties for cable management



Connect the Distance Sensor to Port F



To assist with motor cable management

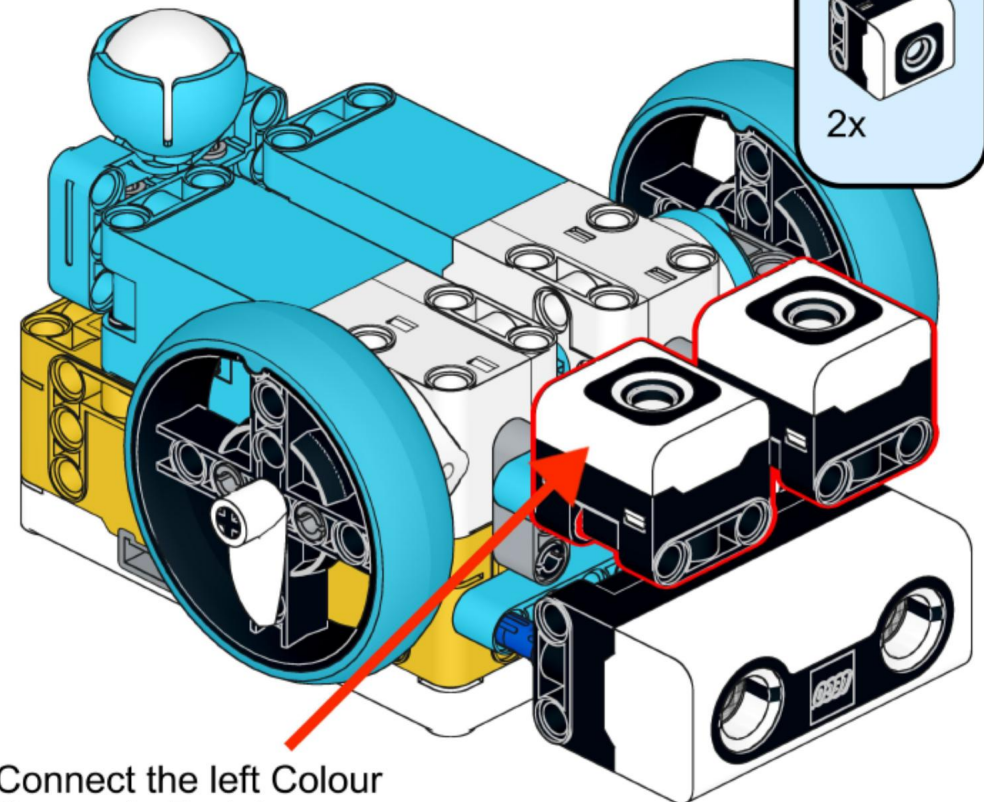
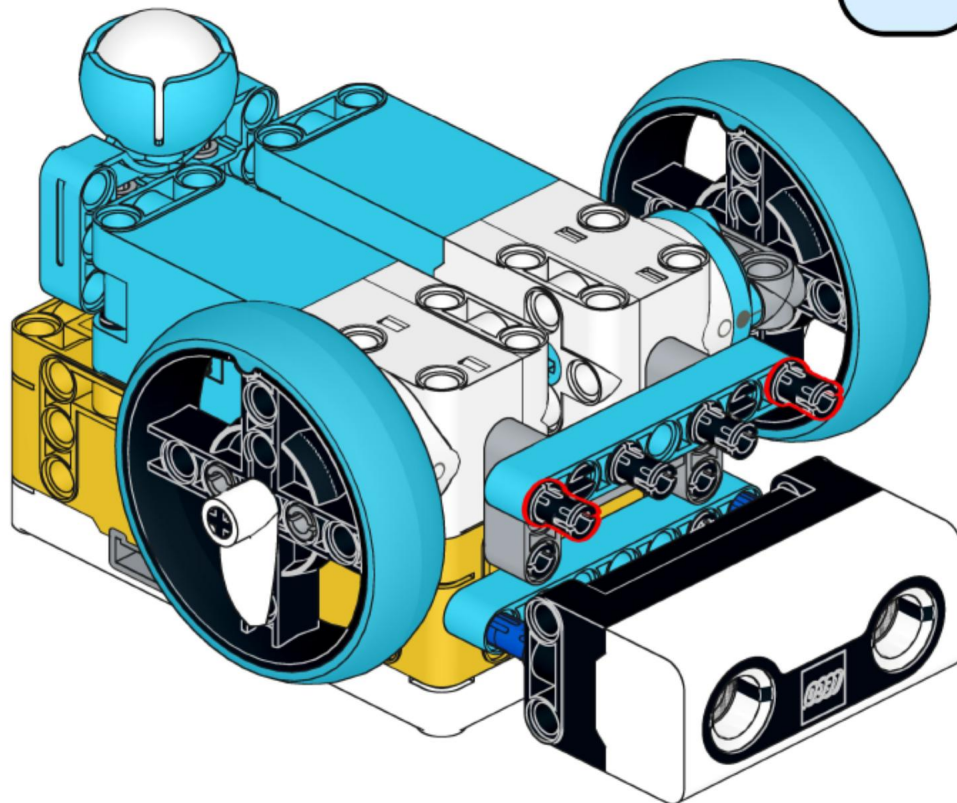
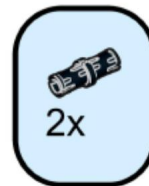


## General Tips:

- \* Do not pick the robot up by the cables.
- \* Use the plastic plugs to connect and detach the motors and sensors.
- \* Never yank motors and sensors out by the cables.
- \* To stop a runaway robot, pick it up rather than push it down.
- \* Change one thing in you program at a time and before running the program, make a prediction about what it will change.
- \* Have fun and learn lots.

# Optional Variation to convert robot into a Two Colour Sensor Line Follower

Invert the robot, remove the single Colour Sensor & add two pins as shown



Connect the left Colour Sensor to Port A  
(the other Colour Sensor to Port B)