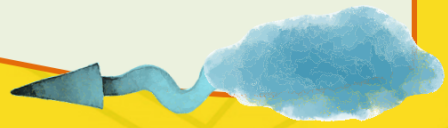
Get the vehicle moving

Target

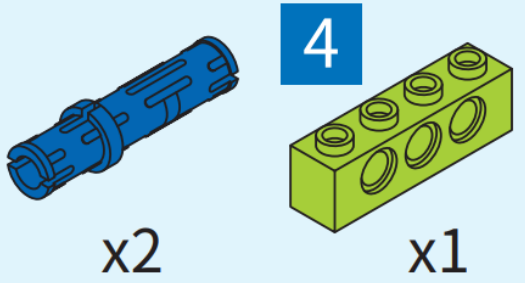
- Complete the assembly of the basic vehicle and understand the precautions during the setup, as well as the use of the splitter.
- Understand the software installation.
- Learn the methods for defining devices (motor)

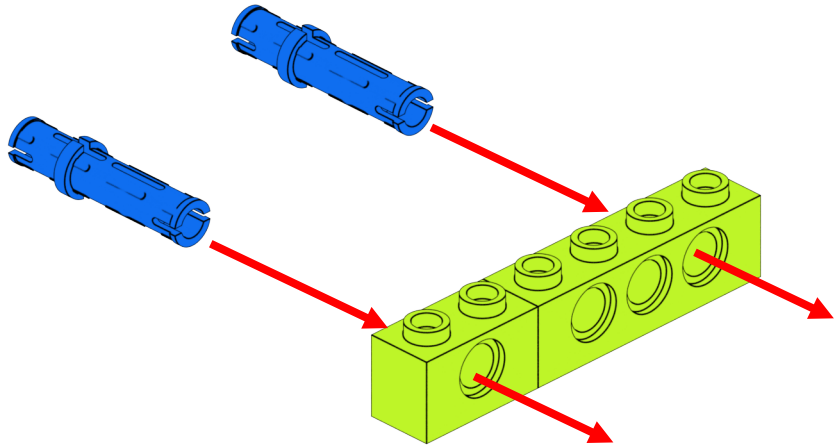
01 Assembly



Assembly

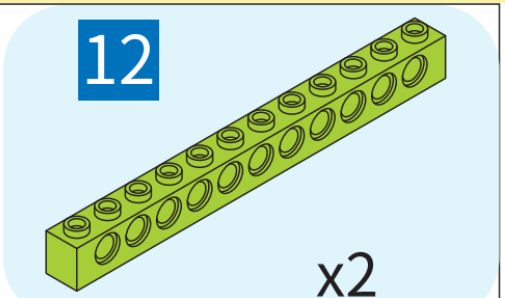
1

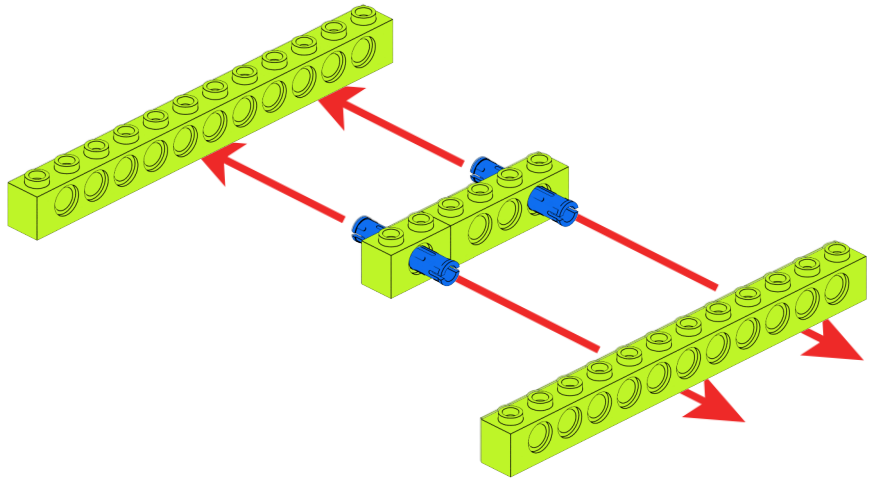




Assembly

2



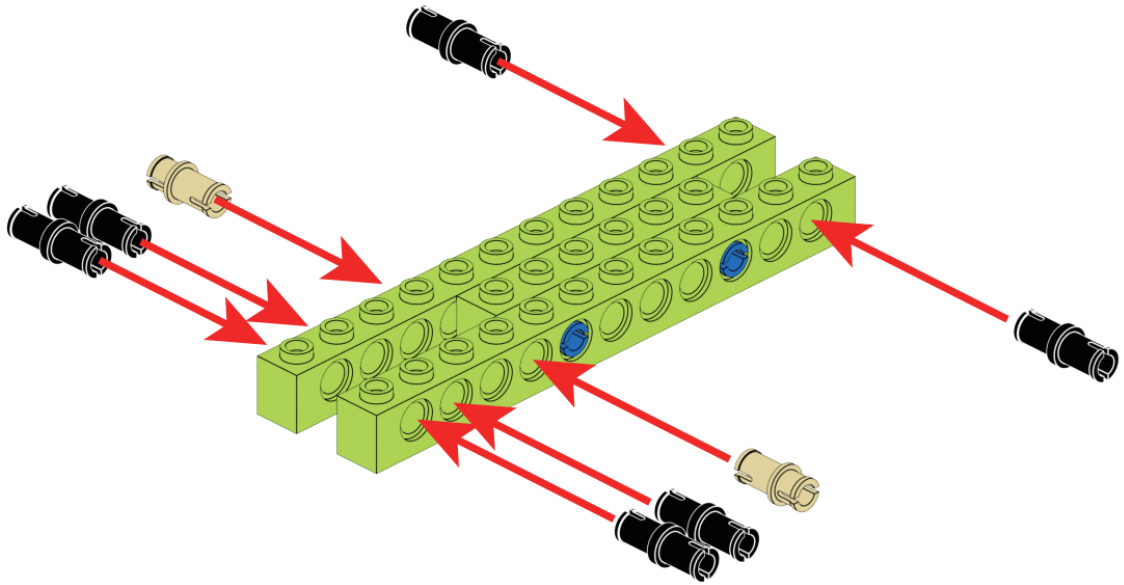


Assembly

3

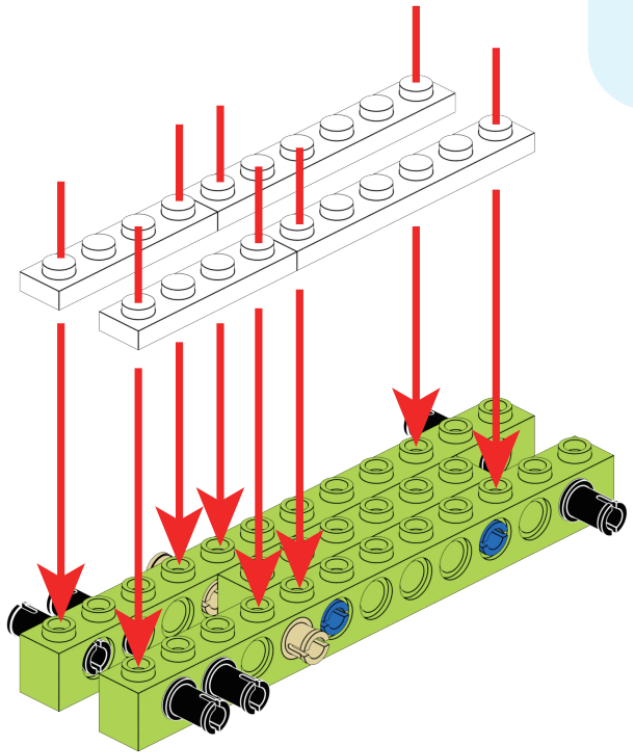
x2

x6

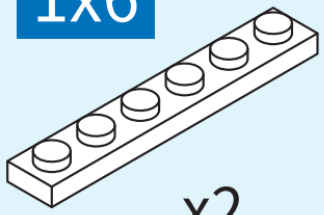


Assembly

4

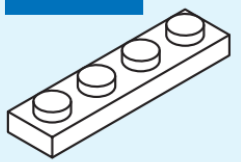


1x6



x2

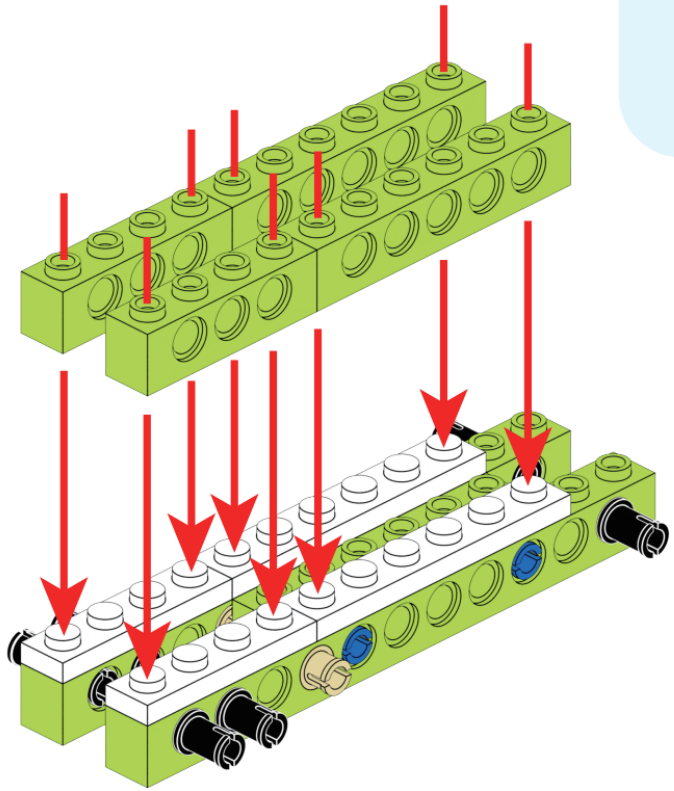
1x4

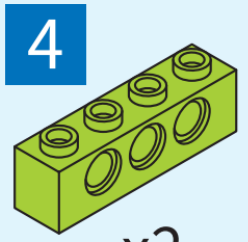


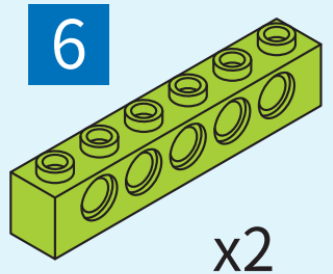
x2

Assembly

5







Assembly

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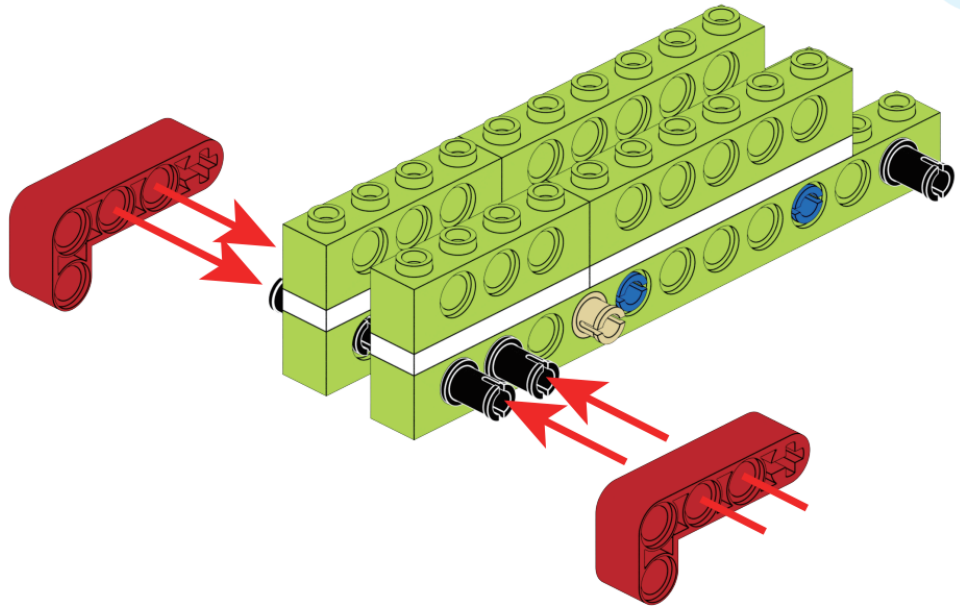
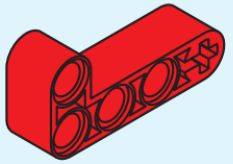
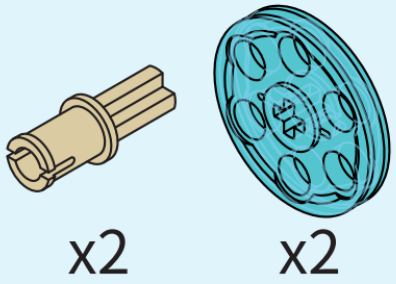




x2

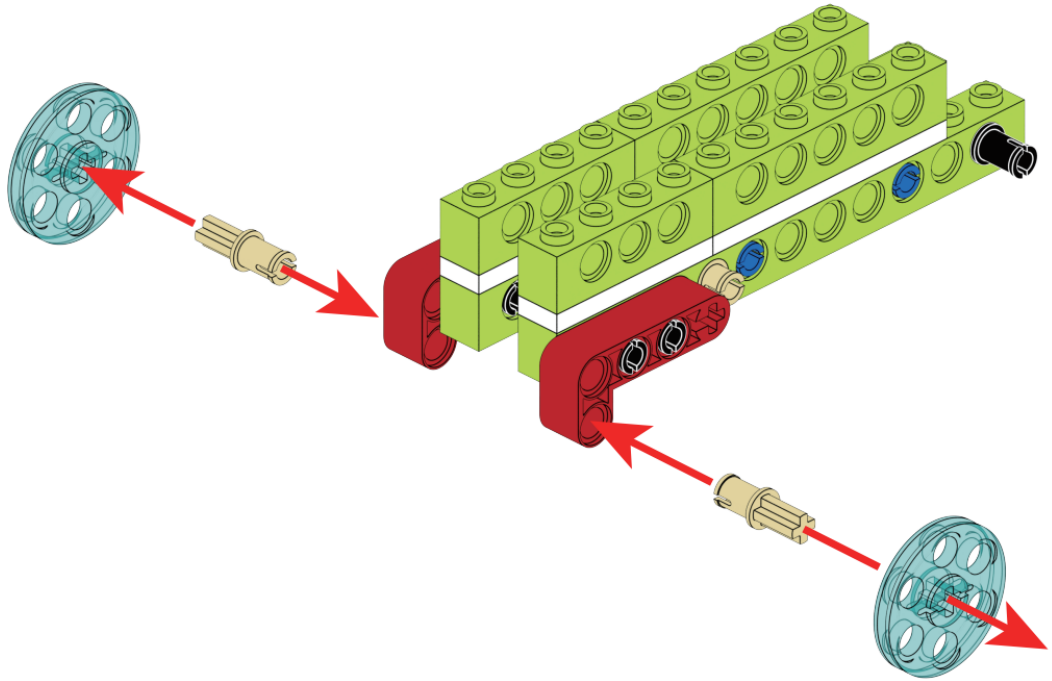
Assembly

7



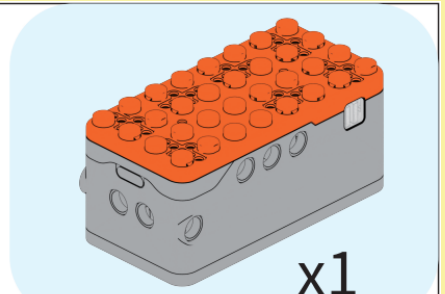
x2

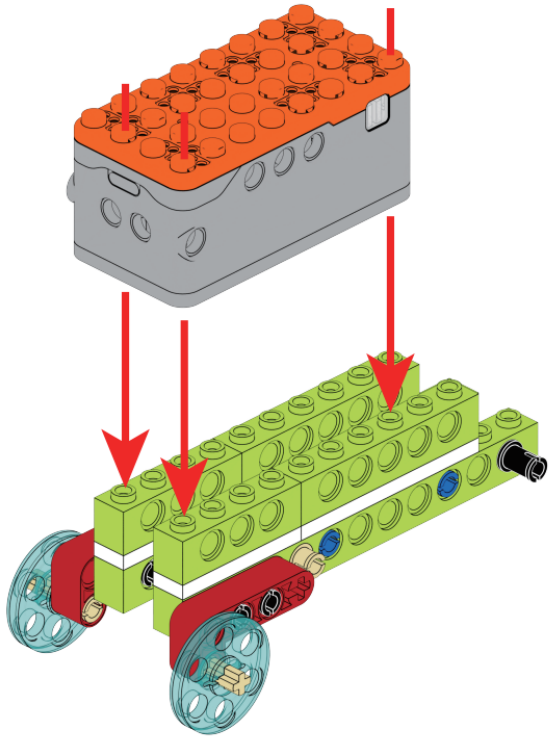
x2



Assembly

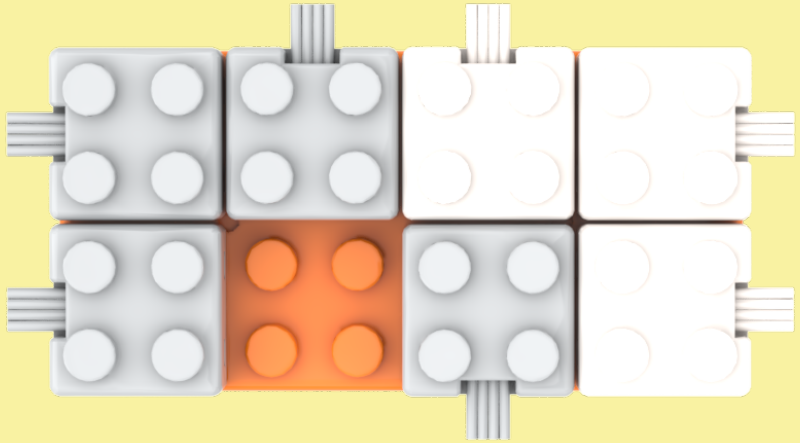
8

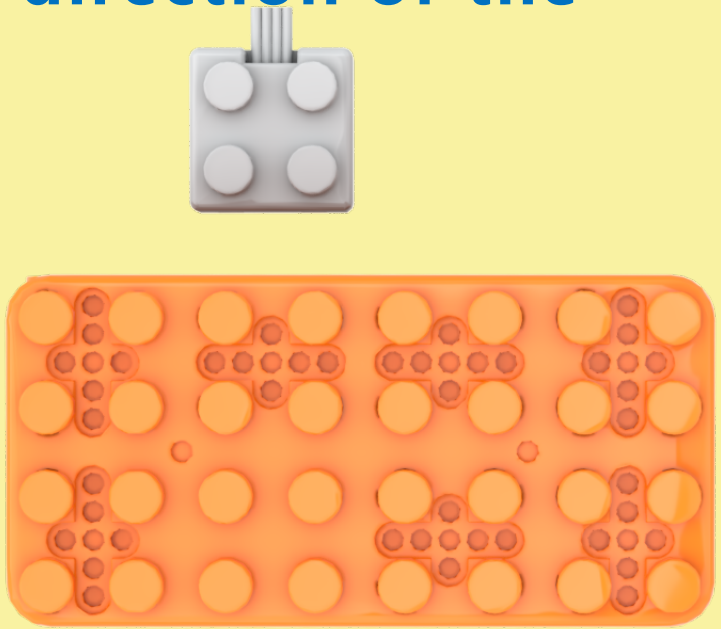




Precautions

- **Pay attention to the orientation of the interfaces. Observe the position of the wires and the direction of the interfaces**

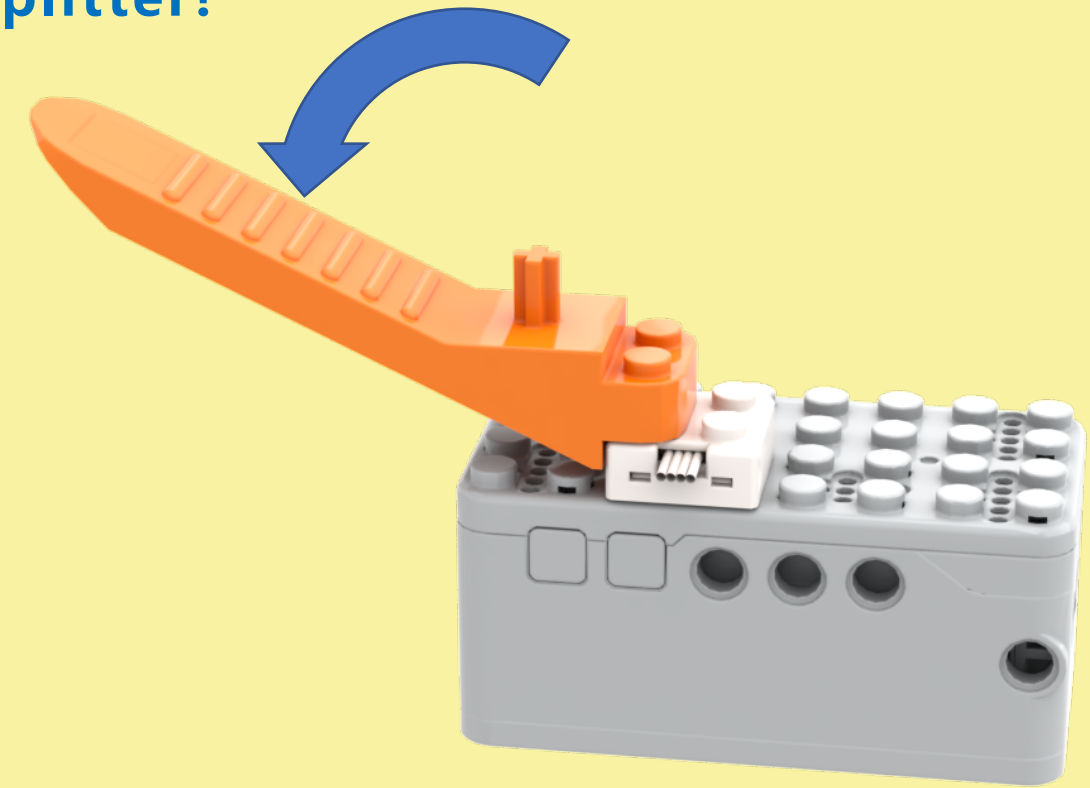




(Old Hub)(Please refer to the new hub)

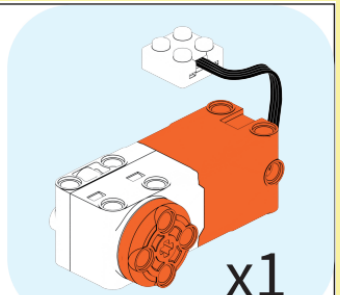
Precautions

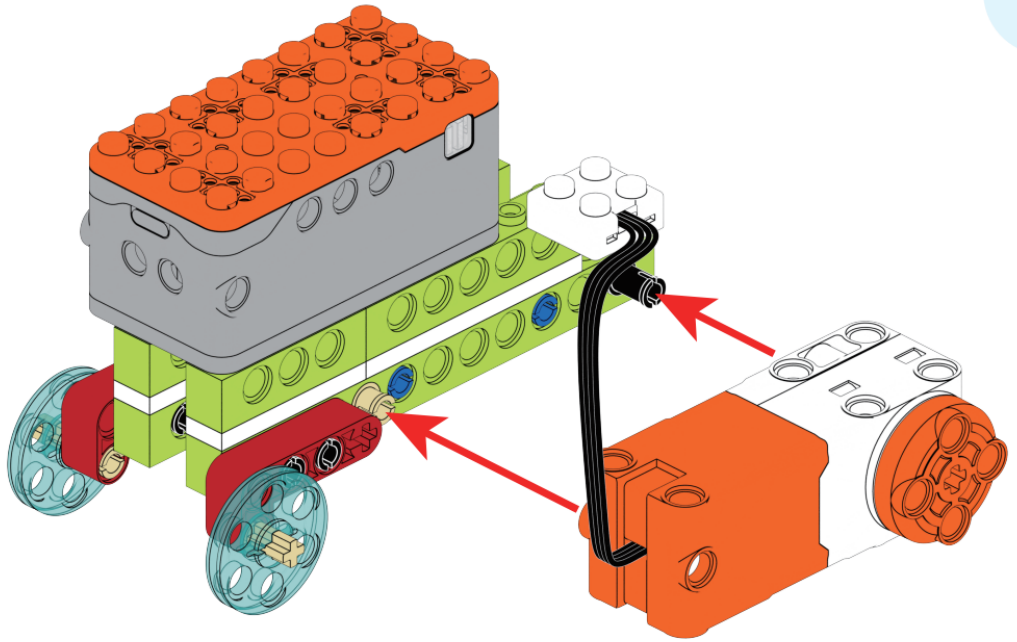
- **IMPORTANT:** When removing the motors or sensors from the interfaces, **be sure to use the splitter**. Let's give it a try with how to use the splitter!



Assembly

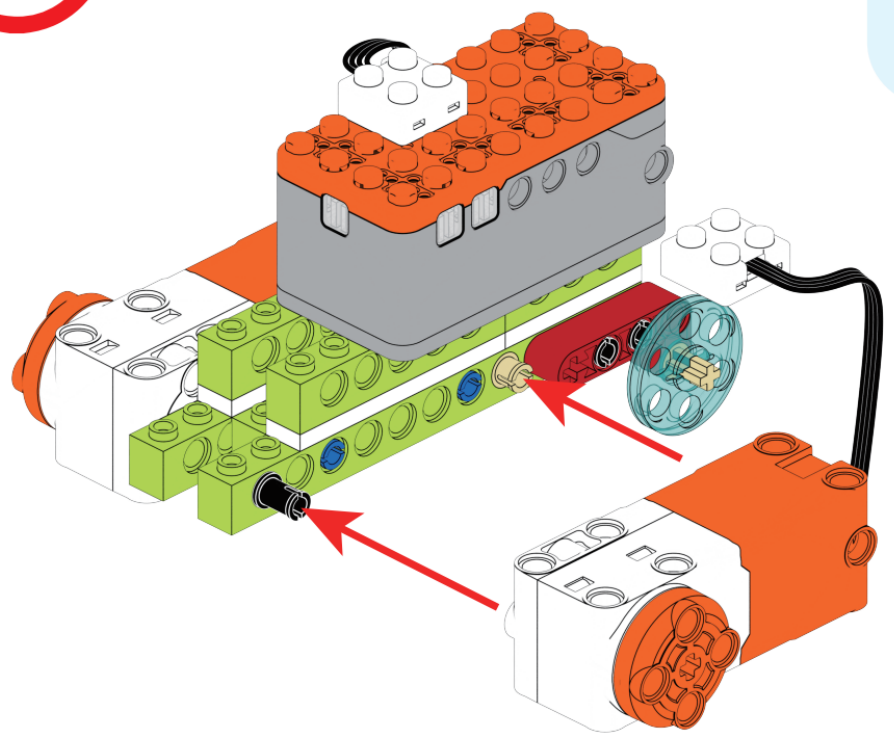
9

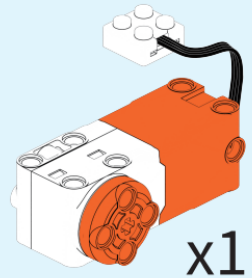




Assembly

10

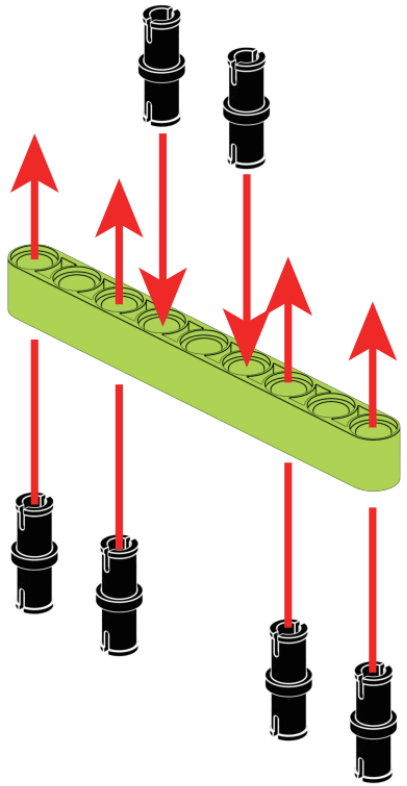




x1

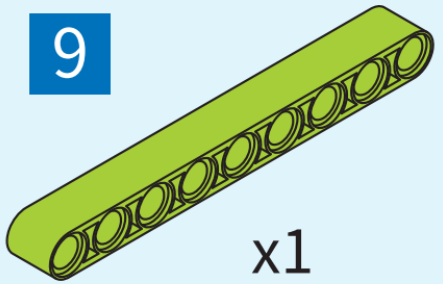
Assembly

11



9

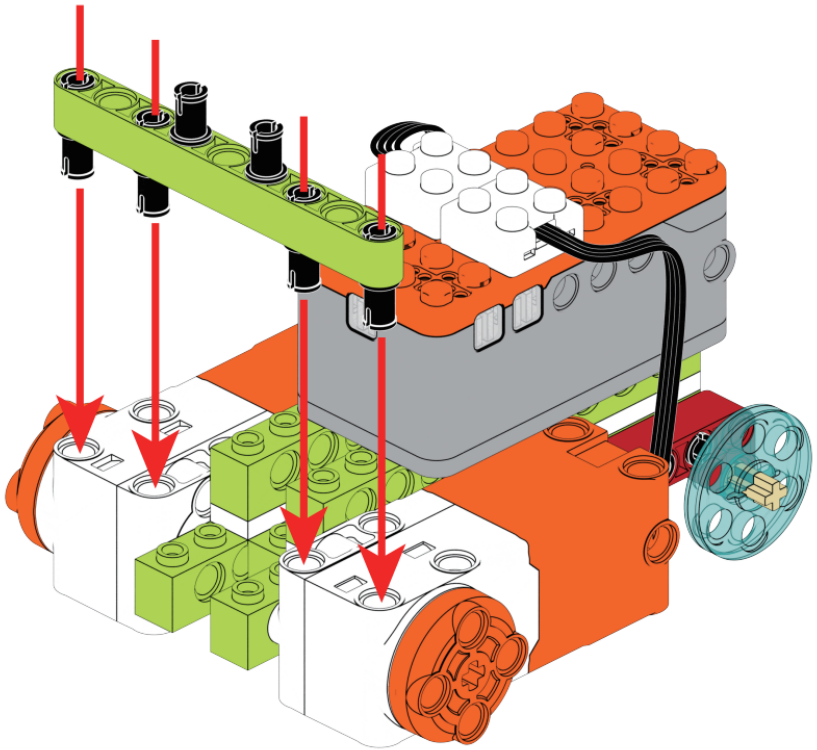
x6



x1

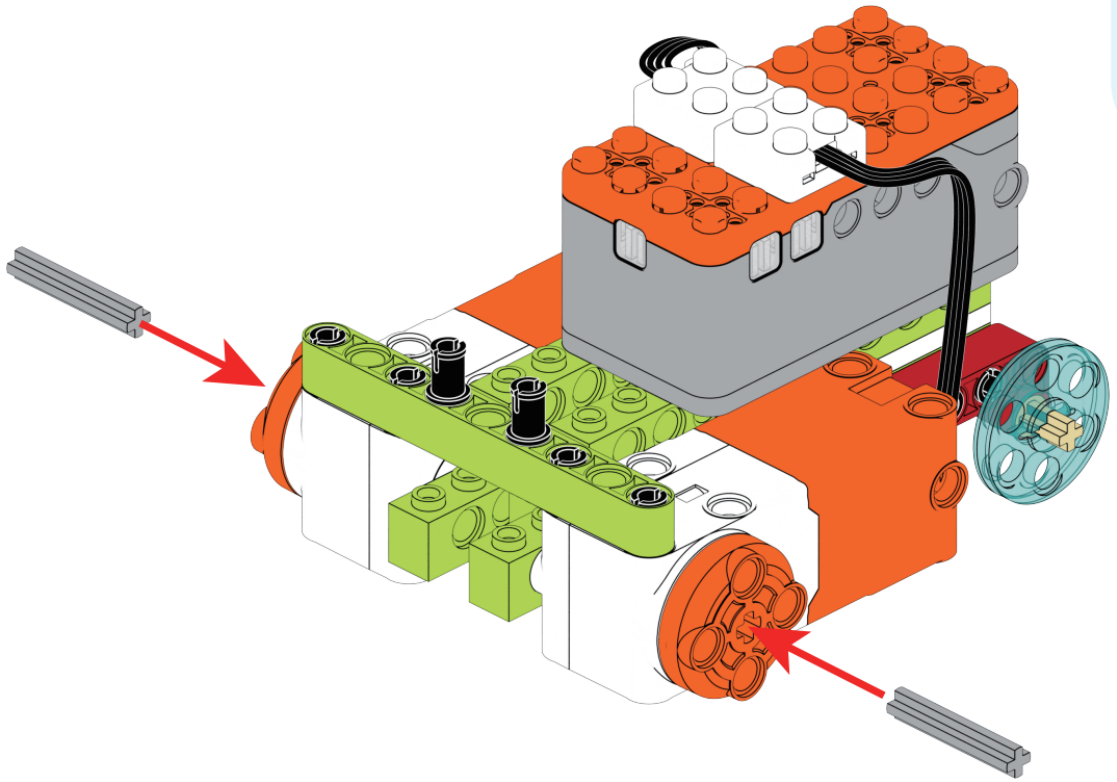
Assembly

12



Assembly

13

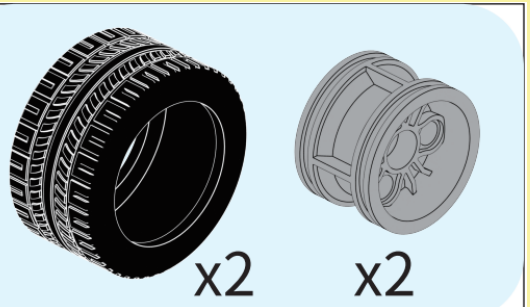


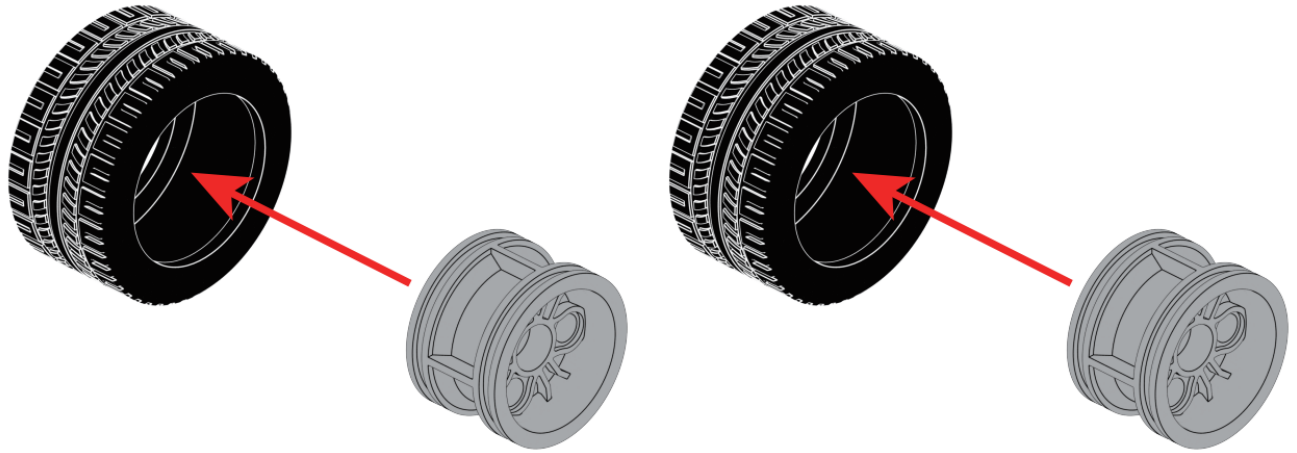
3

x2

Assembly

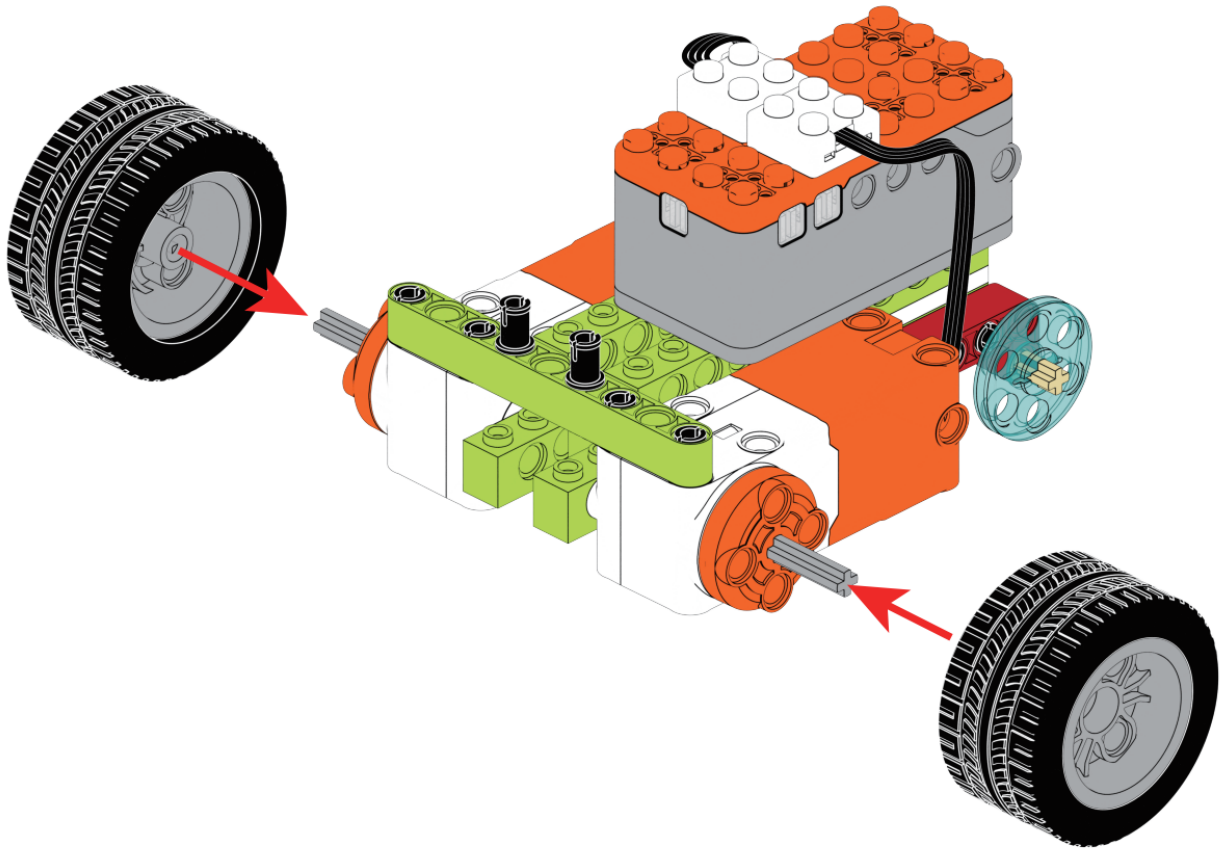
14





Assembly

15



02 Practice

APP Instructions (Android)

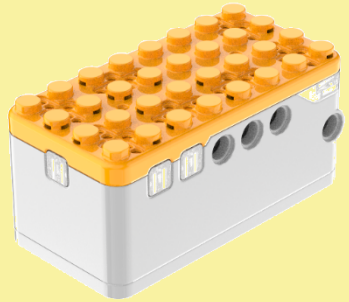
A. Connect to the host control unit

1. Download the makerzoid app

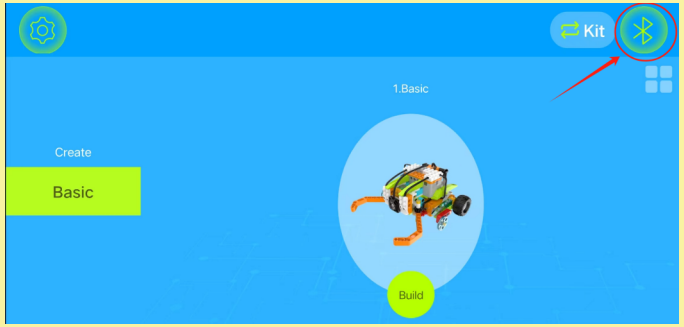
*Please enable Bluetooth and agree to use the “Location” services

APP Instructions (Android)

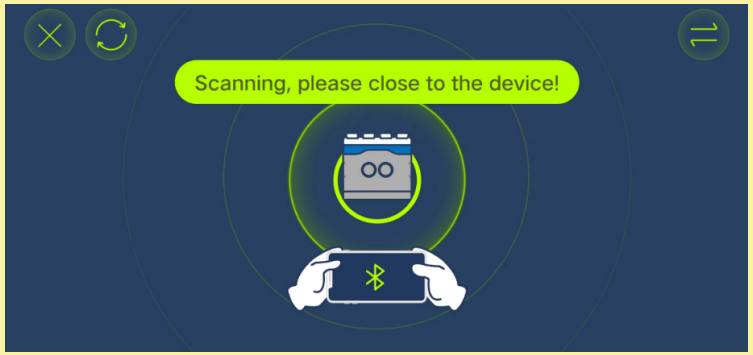
2. Connect to the control unit



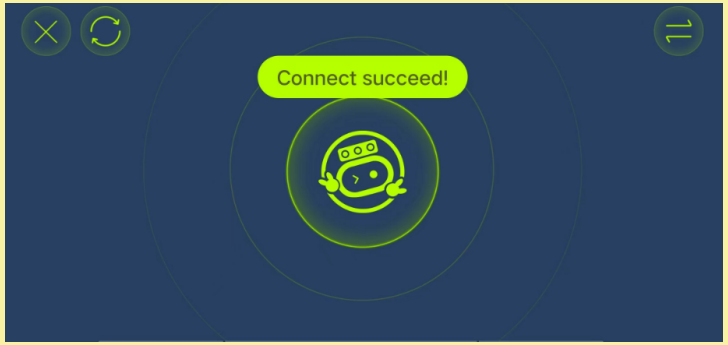
(1) Press the power button, the light will flash.



(2) Click the Bluetooth icon.



(3) Put the device close to the control unit.



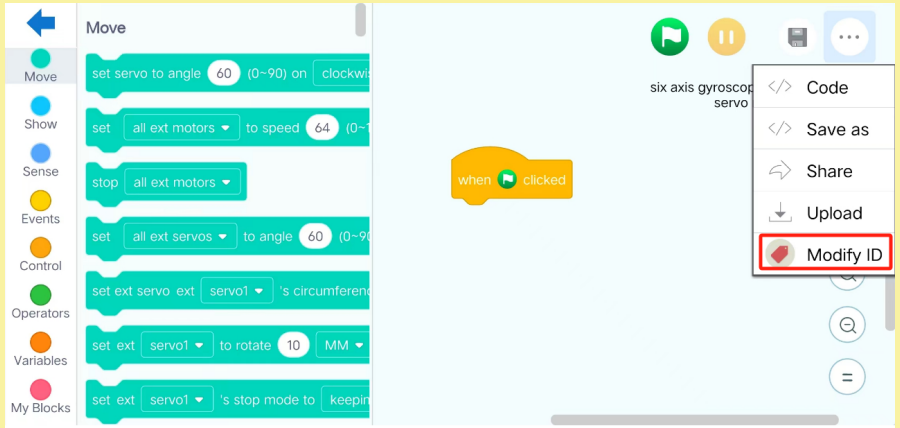
(4) Connected succeed.

APP Instructions (Android)

B. Connect to the electronic components(motors, sensors)

Modify the ID

The default port for the servo motor, color sensor, and grayscale sensor is 1. We can change the port through the setting. After modifying the port, each device will remember its assigned ID.



When modifying the ID (e.g., for the servo motor), only one device (servo motor) can be connected at a time. You cannot connect two identical devices (servo motors) simultaneously.

Modify the desired ID, ensuring it is not duplicated.

Makerzoid Lab Instructions (PC)

A. Use the on-line webpage to programme

1. Open the online coding webpage and download page. (Google Chrome browser is preferred.)

https://software.makerzoid.com/makerzoidlab/index.html

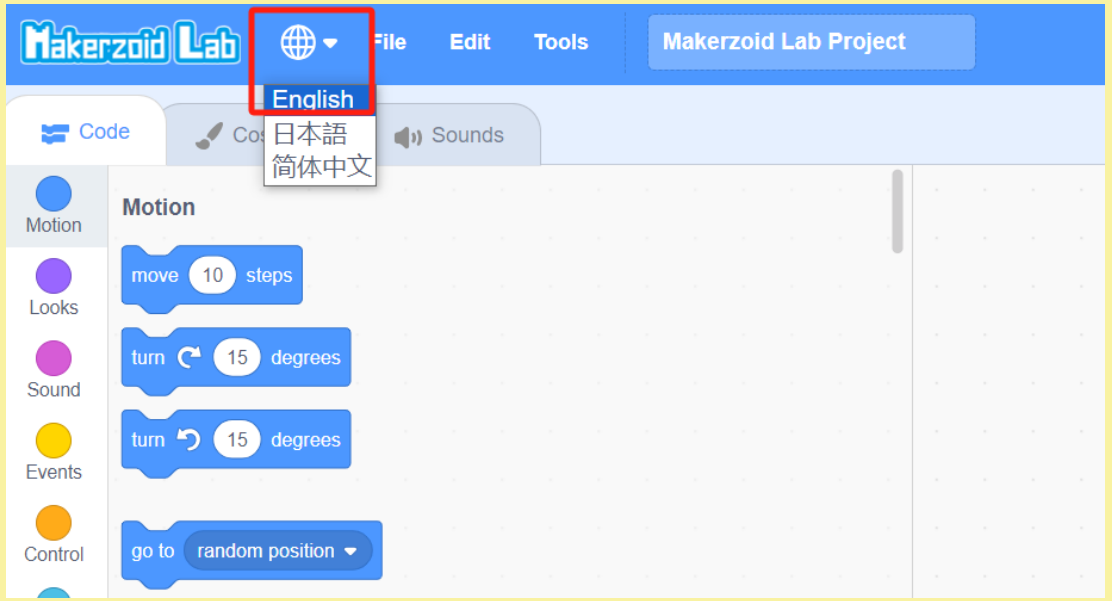
Makerzoid Lab Instructions (PC)

B. Click “Let’ s start programming”

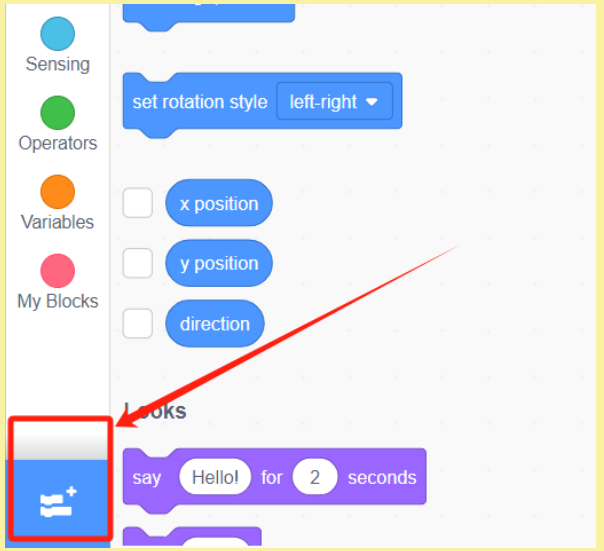
IMPORTANT: Make sure the **Bluetooth** on the PC/laptop is enabled.

Makerzoid Lab Instructions (PC)

C. Connect to the control unit

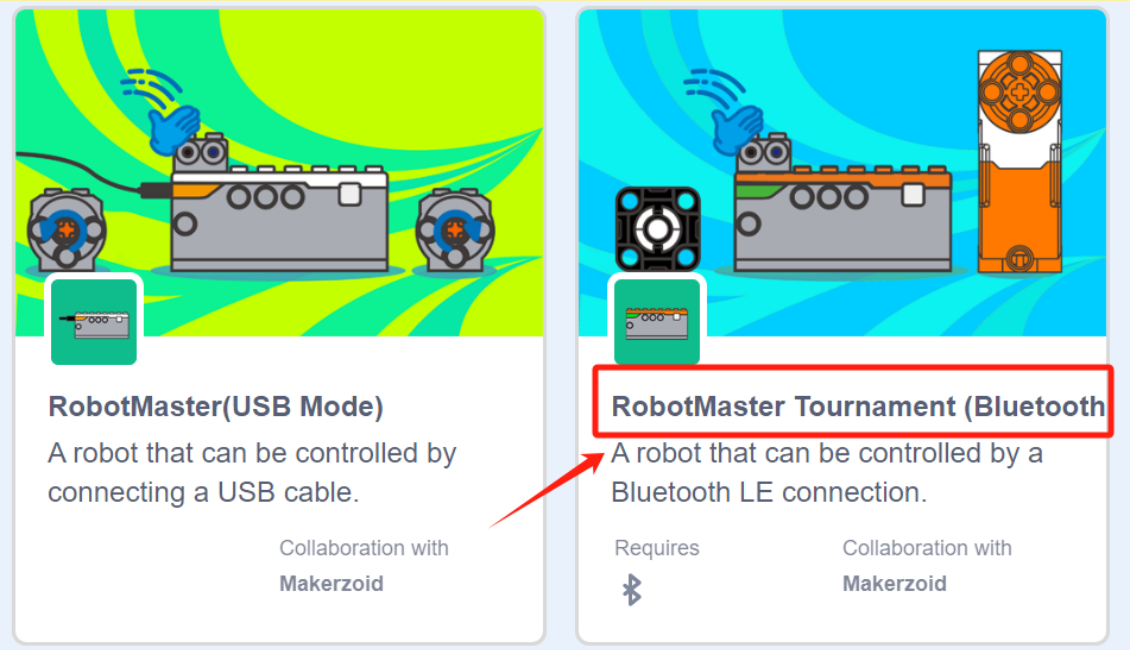


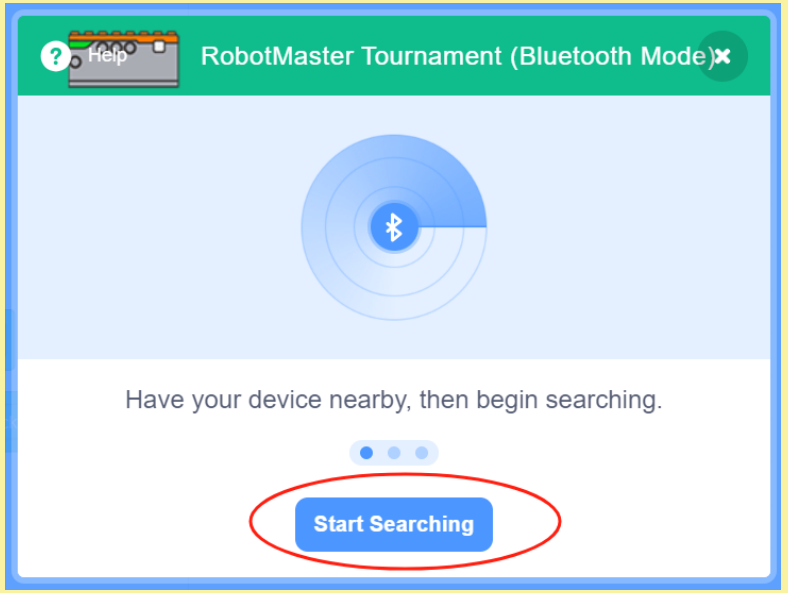
Change language to English



Choose Add Extension

Makerzoid Lab Instructions (PC)

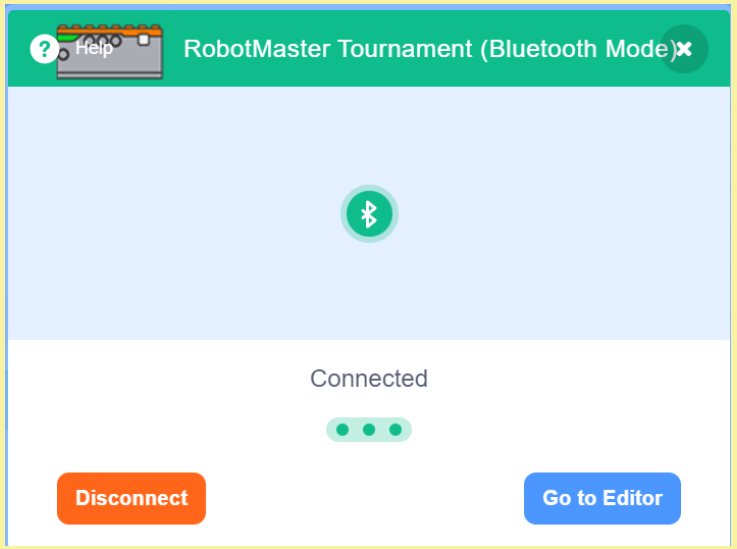




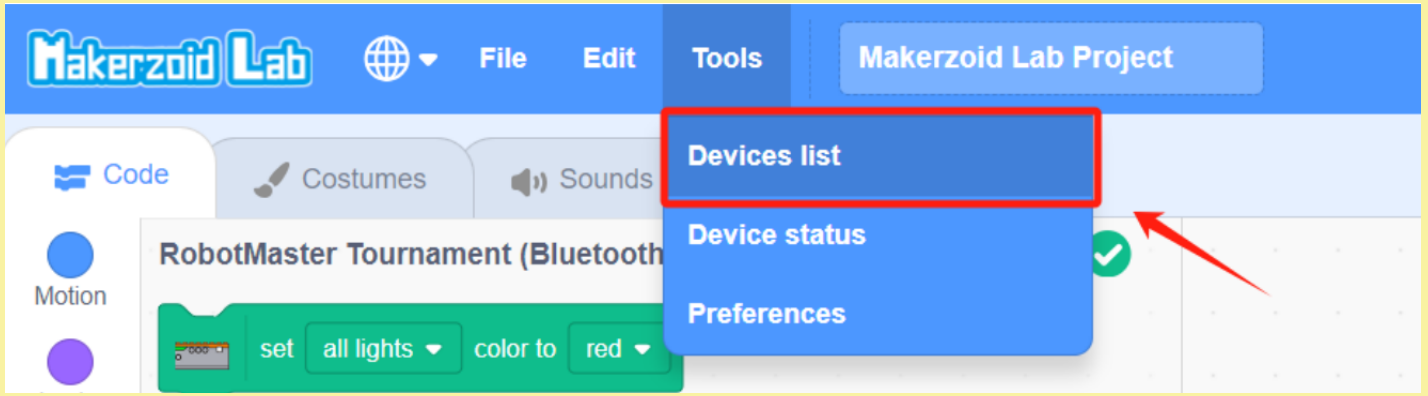
Choose "RobotMaster Tournament(Bluetooth)"

Turn on the control unit, click "Start Searching"

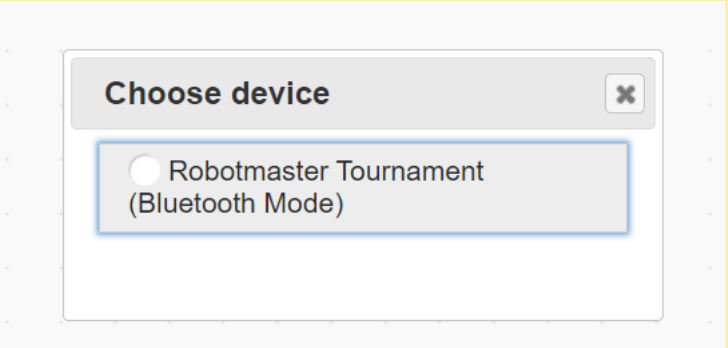
Makerzoid Lab Instructions (PC)



Choose the ID of the control unit and Connect.

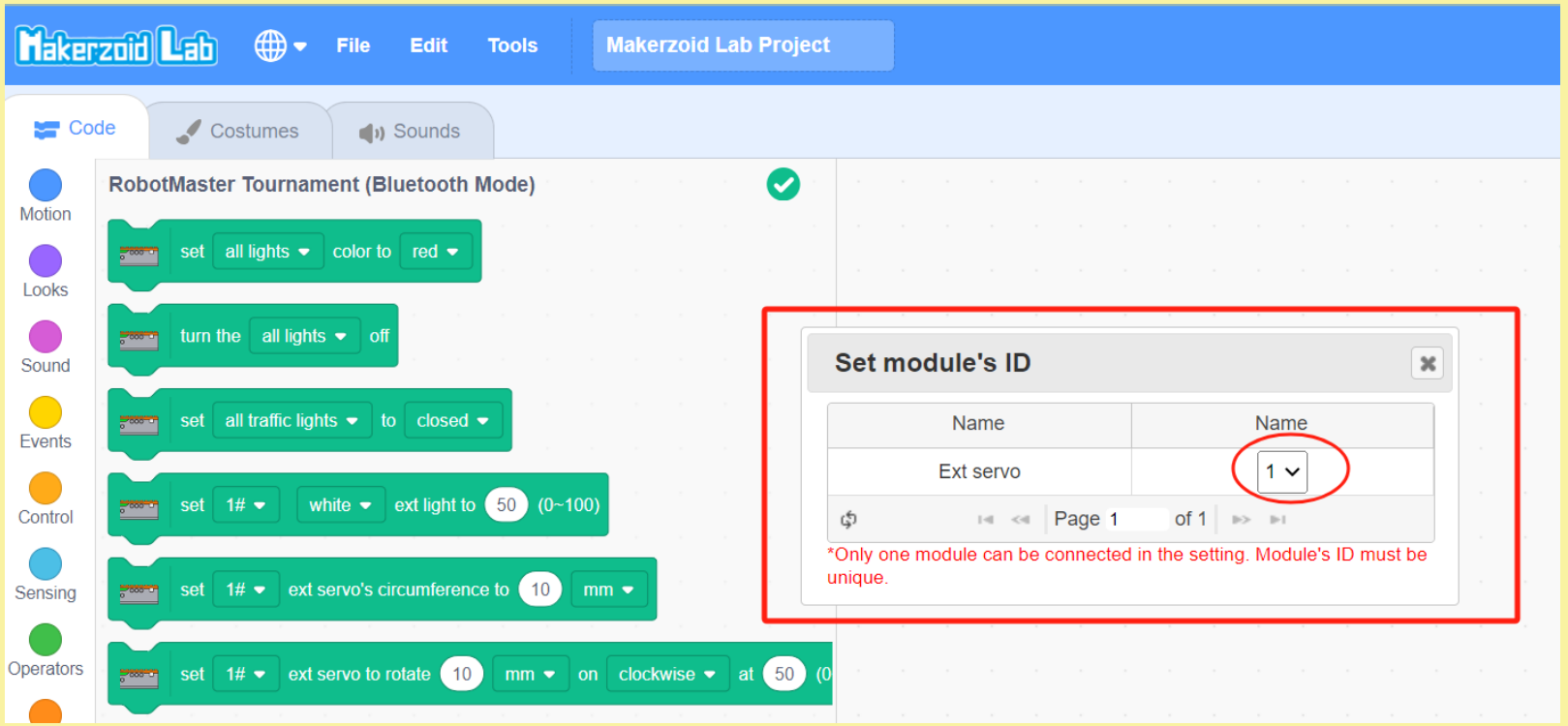


Select "Tools-Devices list"



Check the box, and wait for a few seconds.

Makerzoid Lab Instructions (PC)

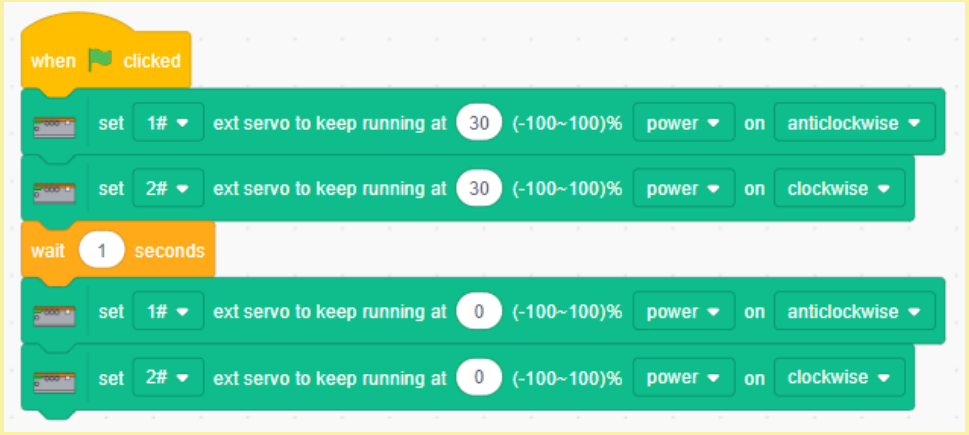


After a few seconds, "Set module" s ID will pop up. This is where you modify the device ID, such as servo motors, grayscale sensors.

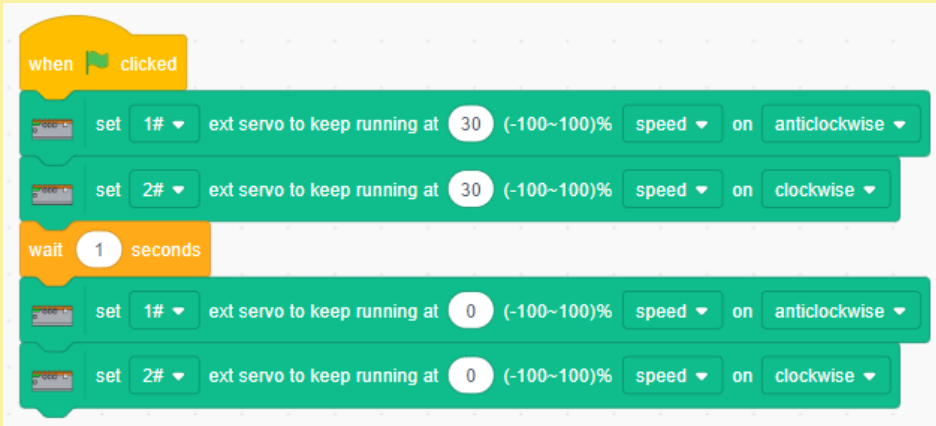
Practice

Set the vehicle to go forward

Option 1 : by setting the time to control it to go forward



When you choose the **Power** and the power is too low, the motor will stall.



When you choose the **Speed**, the vehicle can go more straight.