Arm_Handle_Control

In this lesson we will learn to use the Handle to remotely control the building blocks.

1. Programming method:

Mode 1 online programming: First, we need to connect the micro:bit to the computer by USB cable. The computer will pop up a USB flash drive and click on the URL in the USB flash drive: **http://microbit.org/** to enter the programming interface. Add the Yahboom package https://github.com/lzty634158/SuperBit to program.

Mode 2 offline programming: We need to open the offline programming software. After the installation is complete, enter the programming interface, click【New Project】, add Yahboom package: https://github.com/lzty634158/SuperBit, you can program.

2. About spider code:

Please refer to the **Arm code** file of this experiment.

Please refer to the **Handle code** file of this experiment.

3.Assembly steps

Please refer to the **Assembly instructions** folder for building blocks assembly steps.

4.About wiring:

As shown below,

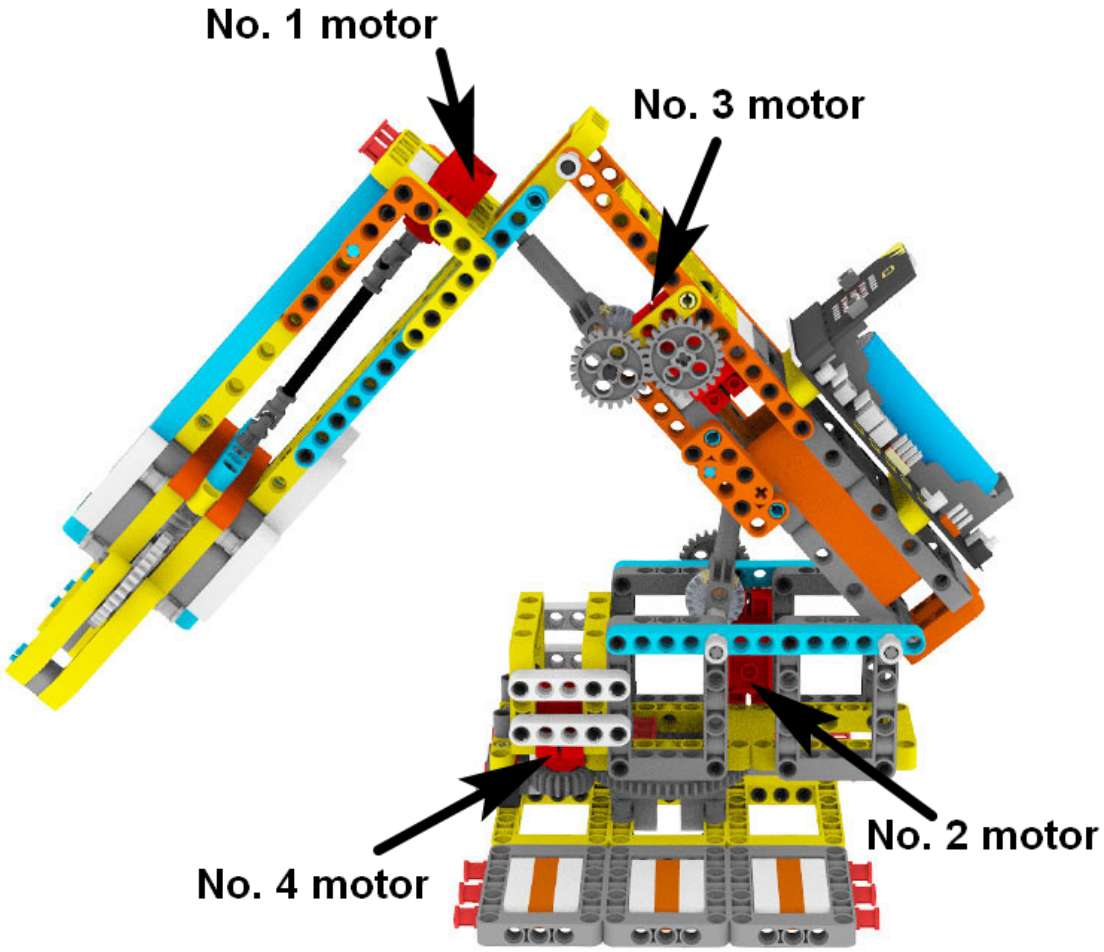
NO.1 motor connect to M1 interface of super:bit,

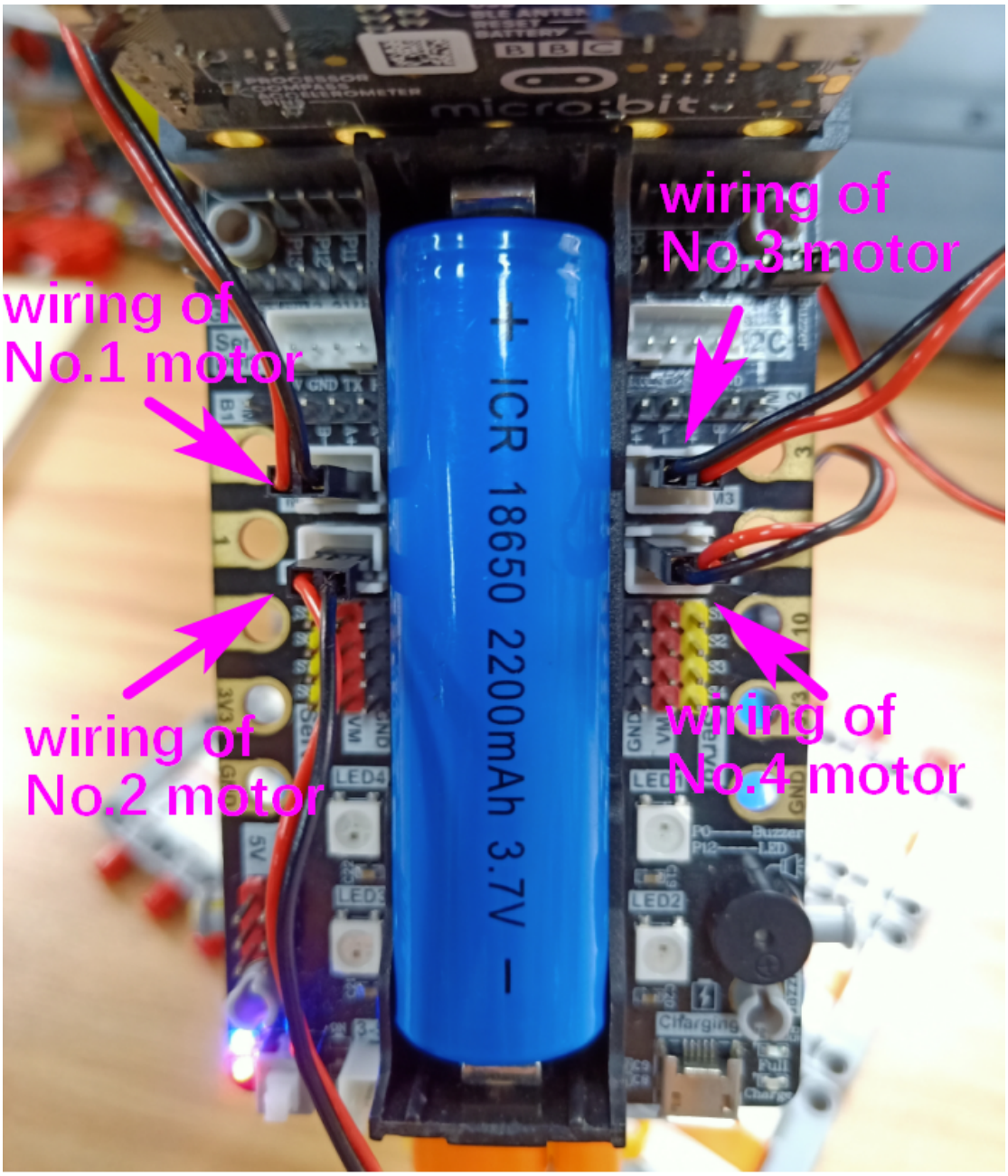
NO.2 motor connect to M2 interface of super:bit,

NO.3 motor connect to M3 interface of super:bit,

NO.4 motor connect to M4 interface of super:bit.

The black wiring of the motor is near the battery side. As shown below.


No. 1 motor
No. 3 motor
No. 2 motor
No. 4 motor



3. Steps:

First, we need to download the **microbit-Arm-Handle-control.hex** to micro:bit of Spider, you can see that the micro:bit dot matrix shows an “heart”, as shown in Figure 1.1.

we need to download the **microbit-Arm-handle-code.hex** to micro:bit of Handle, you can see that the micro:bit dot matrix shows an “heart” as shown in Figure 1.1.

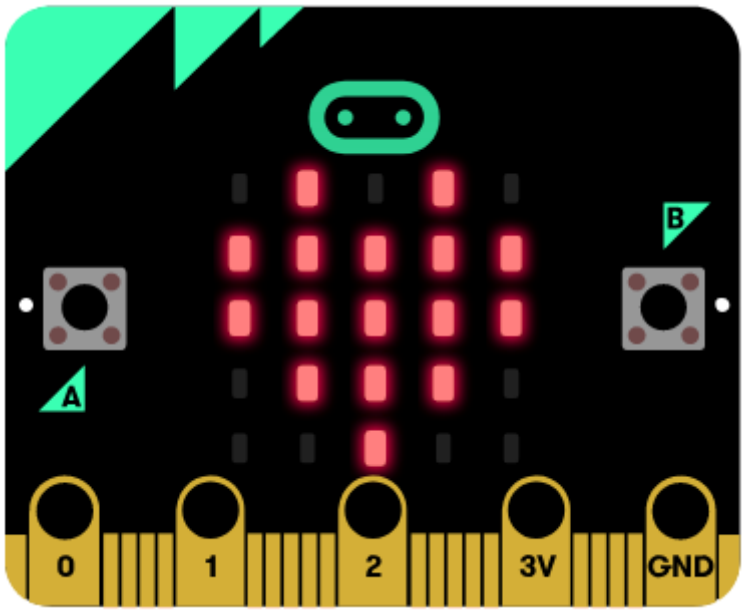
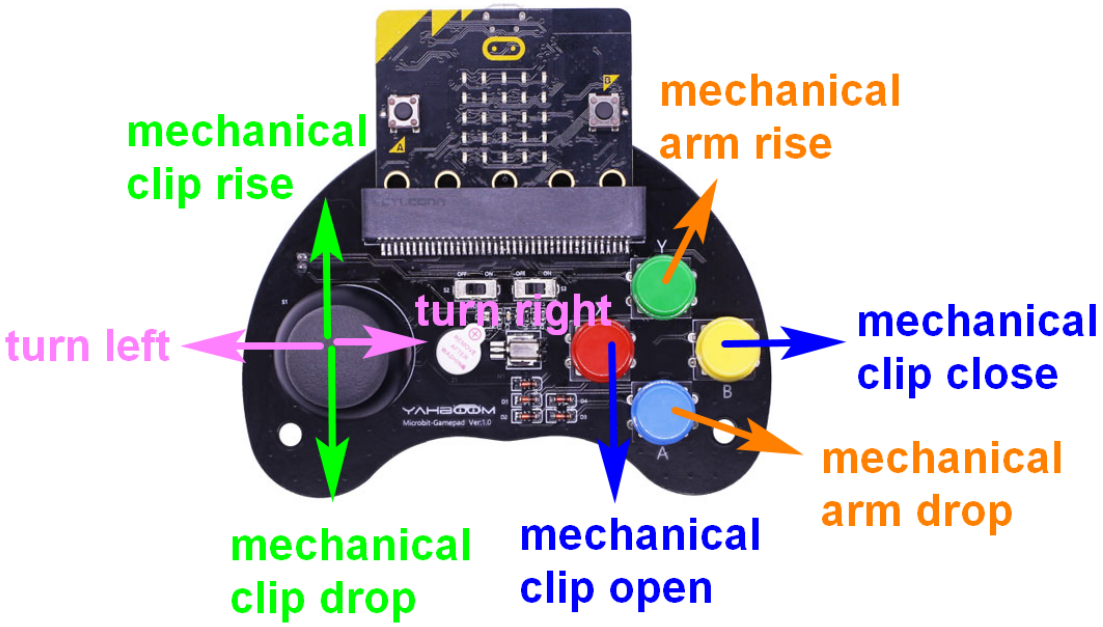


Figure 1.1

Then, open the micro:bit handle. After the handle is connected with the micro:bit building block Arm:bit, you can control it by handle.



Note: Do not over-stretch at the joint of the mechanical arm to avoid unnecessary wear and affect the internal structure of the push rod.