

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:

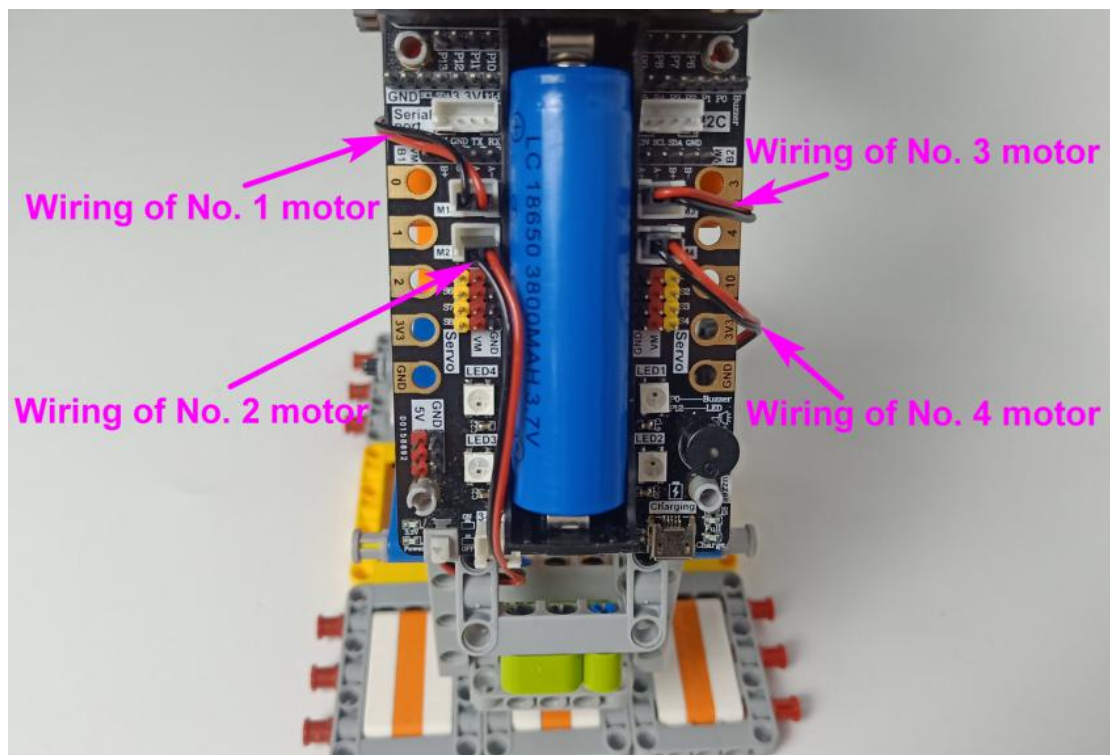
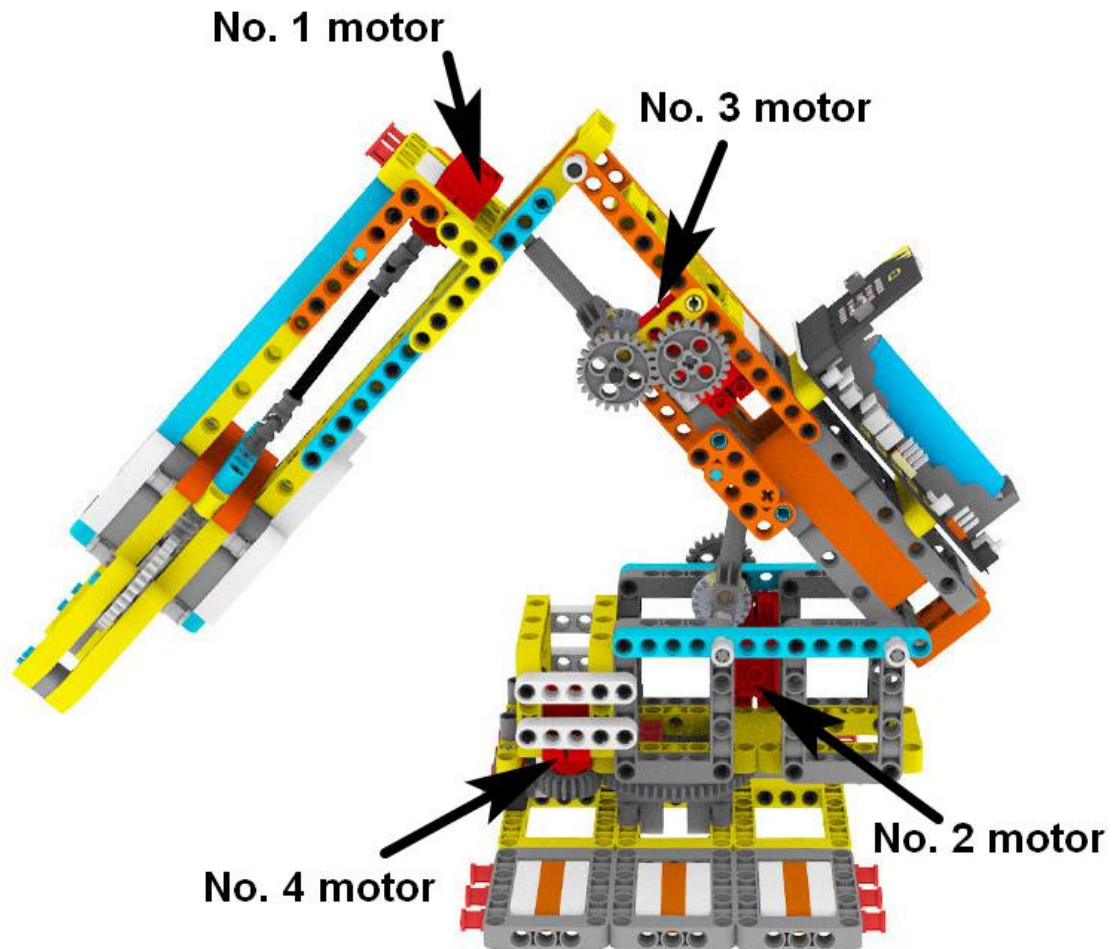
As shown below,

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.



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.

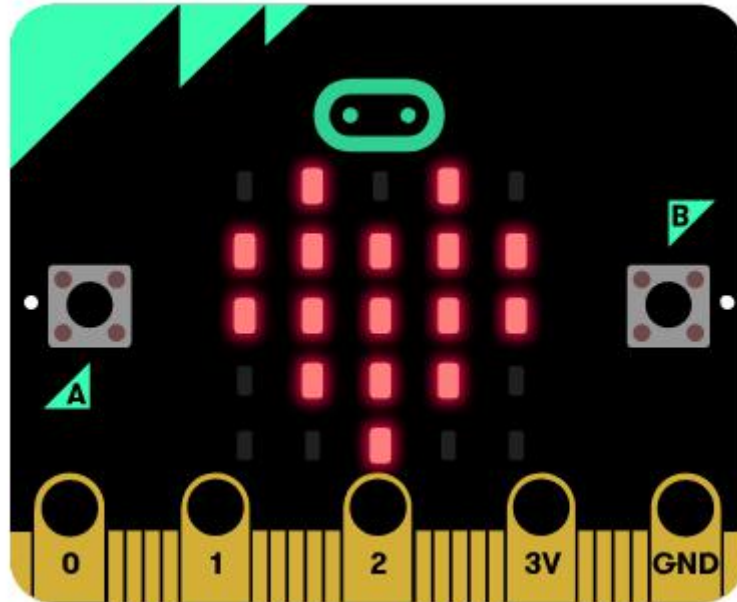
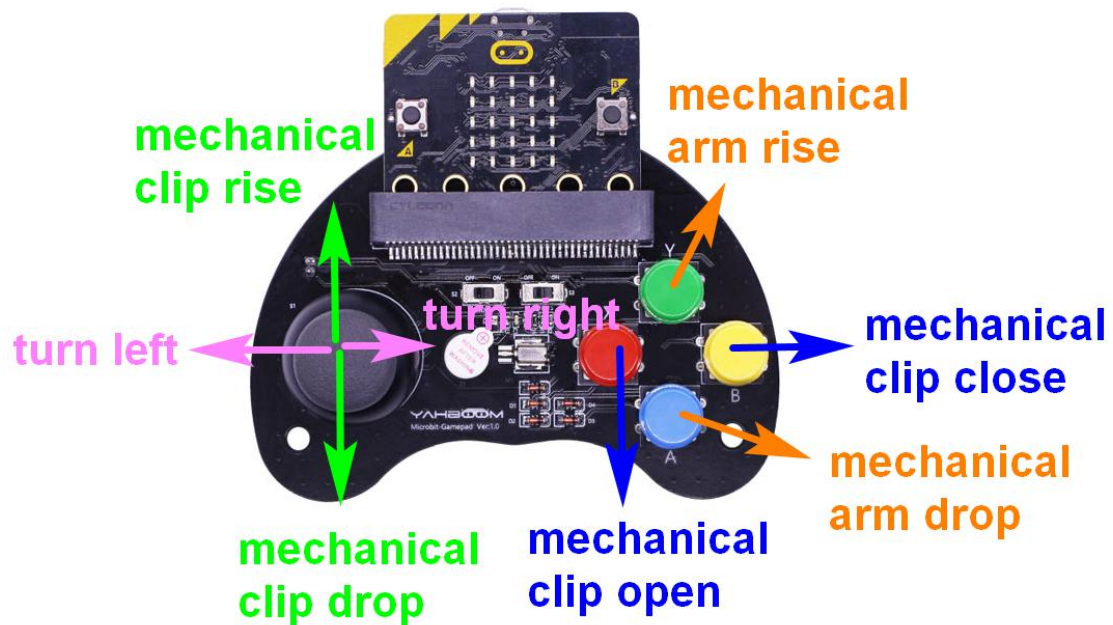


Figure 1.1

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.