

## Spider\_handle\_remote\_control

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

### 1.Programming method:

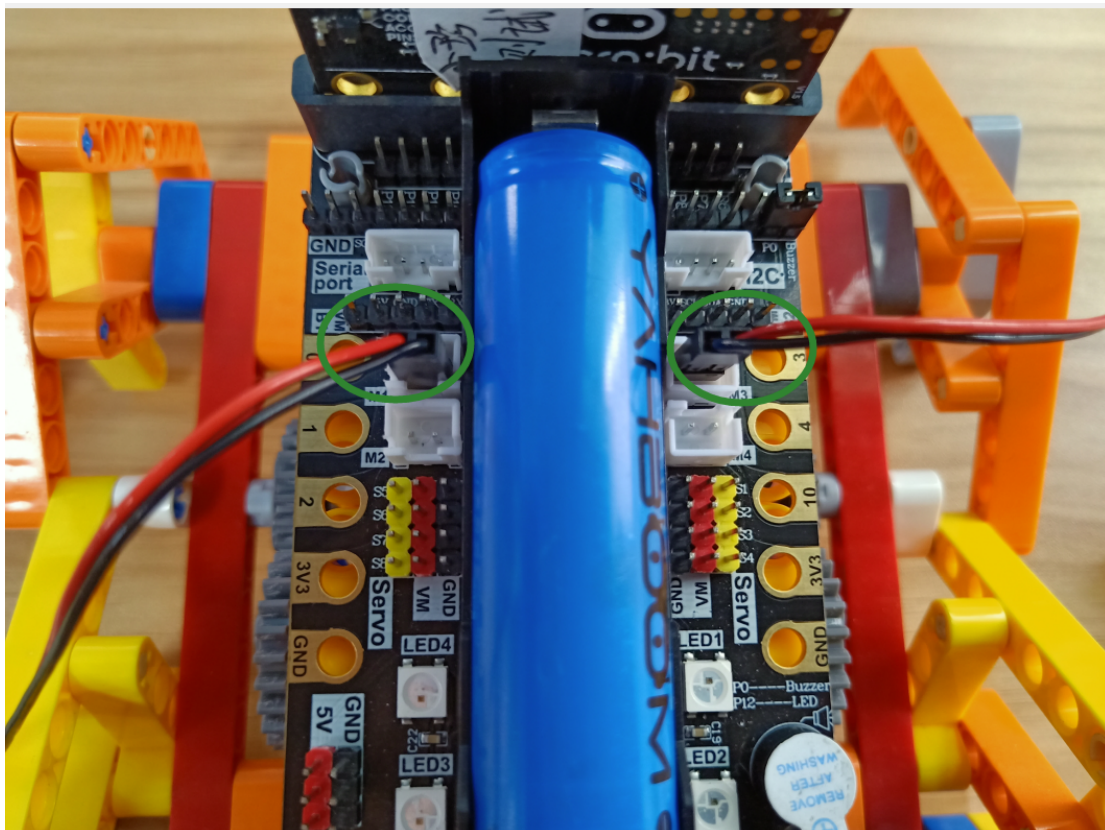
**Mode 1 online programming:** First, we need to connect the micro:bit to the computer by USB cable. The computer will pop up a USB flash drive and click on the URL in the USB flash drive: <http://microbit.org/> to enter the programming interface. Add the Yahboom package <https://github.com/lzty634158/SuperBit>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

We need to connect two building block motors to the M1 and M3 interfaces of the Super:bit expansion board.

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



### 3.About spider code:

Please refer to the [Spider\\_code](#) file of this experiment.

Please refer to the [Handle\\_code](#) file of this experiment.

#### 4.Steps:

##### 4.1 Handle rocker control

First, we need to download the [microbit-Spider-handle-control.hex](#) to micro:bit of Spider, you can see that the micro:bit dot matrix shows an pattern as shown in Figure 1.1.

we need to download the [microbit-Handle\\_rocker\\_control.hex](#) to micro:bit of Handle, you can see that the micro:bit dot matrix shows an “heart” as shown in Figure 1.2.

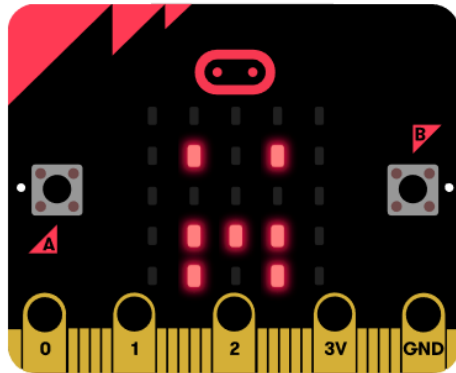


Figure 1.1

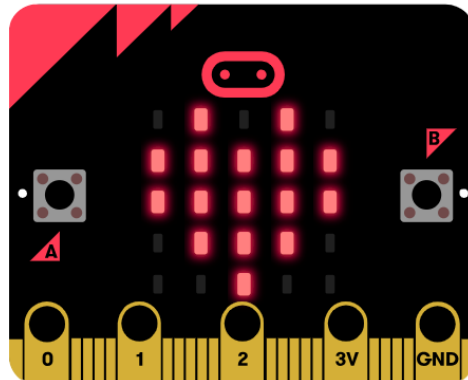


Figure 1.2

Then, open the micro:bit handle. After the handle is connected with the micro:bit building block spider, you can use the joystick to control the forward, backward, turn left, and turn right .

And use the handle button to switch the Color of RGB light. Press the rocker to turn off the RGB light.

##### 4.2 Handle gravity control

First, we need to download the [microbit-Spider-handle-control.hex](#) to micro:bit of Spider, you can see that the micro:bit dot matrix shows an pattern as shown in Figure 1.3.

we need to download the [microbit-Handle-gravity-control.hex](#) to micro:bit of Handle, you can see that the micro:bit dot matrix shows an “heart” as shown in Figure 1.4.

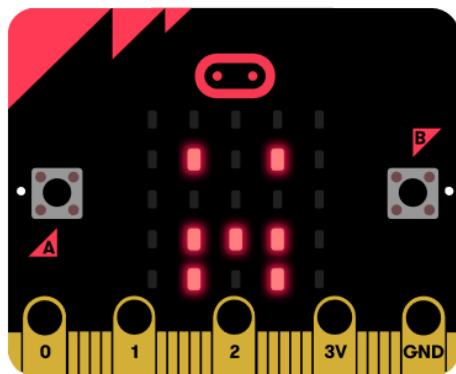


Figure 1.3

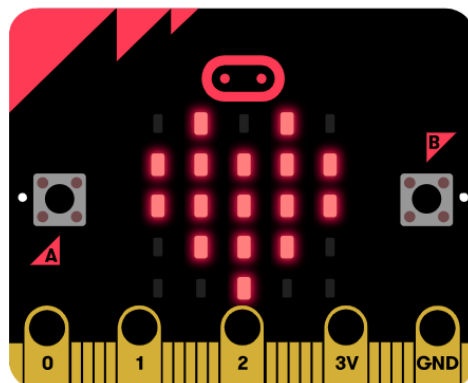


Figure 1.4



Then, open the micro:bit handle. After the handle is connected with the micro:bit building block spider, you can shake handle to control the forward, backward, turn left, and turn right .  
And use the handle button to switch the Color of RGB light. Press the rocker to turn off the RGB light.