



Omni:bit micro:bit Handle control

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

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/OmniBit> and
<https://github.com/lzty634158/GHBit> 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/OmniBit> and
<https://github.com/lzty634158/GHBit>, you can program.

2. About code:

Please refer to the [microbit-Omnibit-code.hex](#) file and [microbit-Omnibit-Handle-code.hex](#) of this experiment.

3. Assembly steps

Please refer to the [1.Omnibit installation steps](#) in the [1.Assembly steps](#) folder for building blocks assembly steps.

4. About wiring

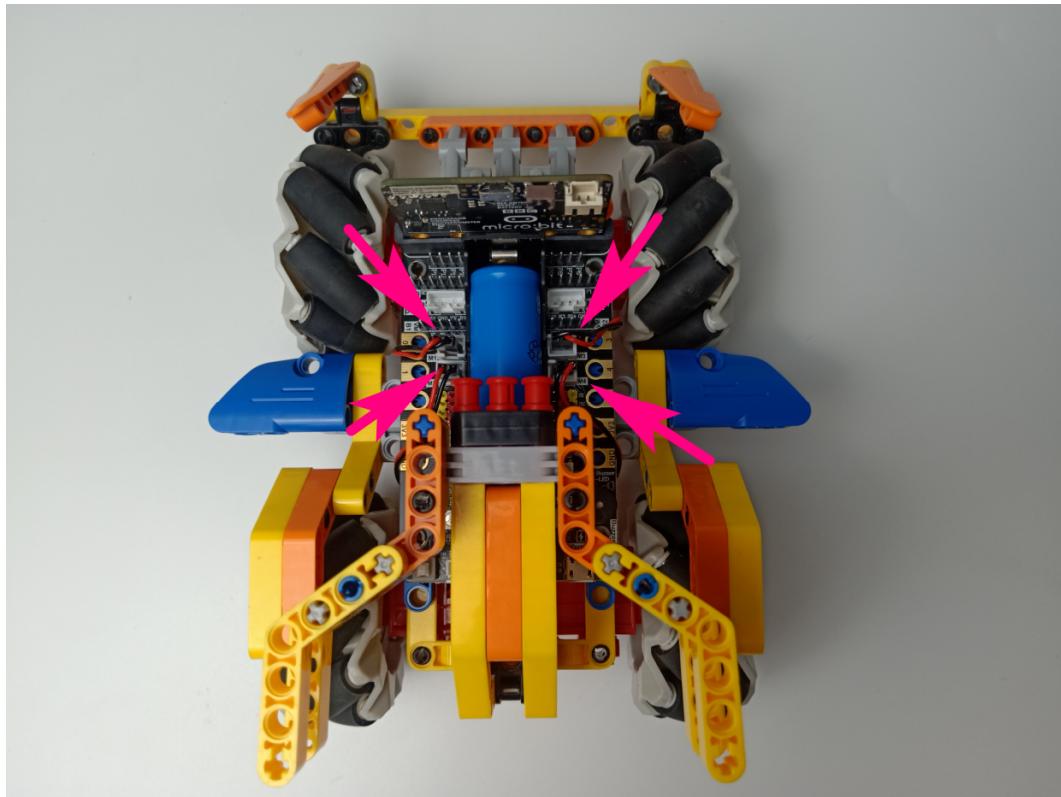
The left front motor is connected to the M1 interface of the Super:bit expansion board. The black line is on the battery side;

The left rear motor is connected to the M2 interface of the Super:bit expansion board, The black line is on the battery side;

The right front motor is connected to the M3 interface of the Super:bit expansion board, The black line is on the battery side;

The right rear motor is connected to the M4 interface of the Super:bit expansion board, The black line is on the battery side.

As shown below.



5. Steps:

5.1 Handle rocker control

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

we need to download the [microbit-Omnibit-Handle-code.hex](#) to micro:bit of micro:bit handle, you can see that the micro:bit dot matrix shows an pattern as shown in Figure 1.2.

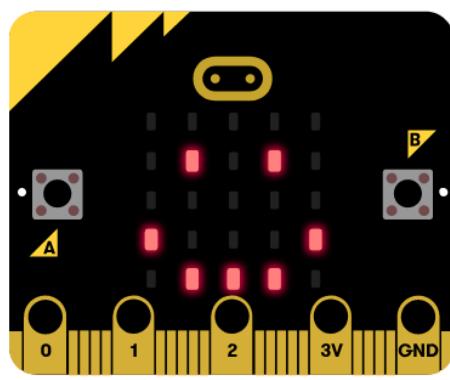


Figure 1.1

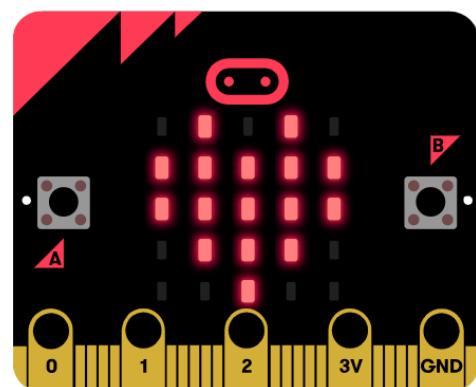


Figure 1.2

5.2 Handle rocker control

