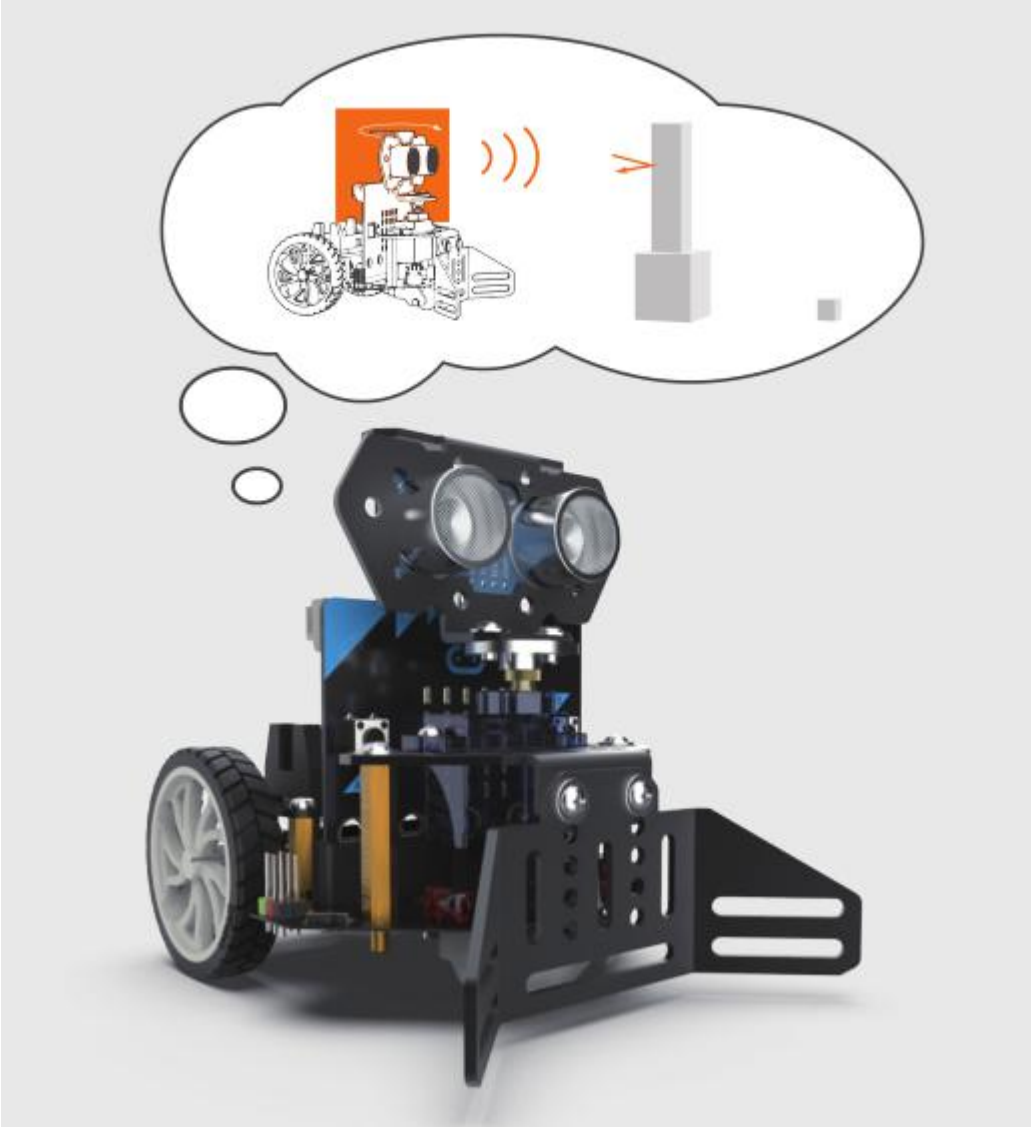
Tutorial of

Maqueen Mechanic-Push

[ROB0156-P]



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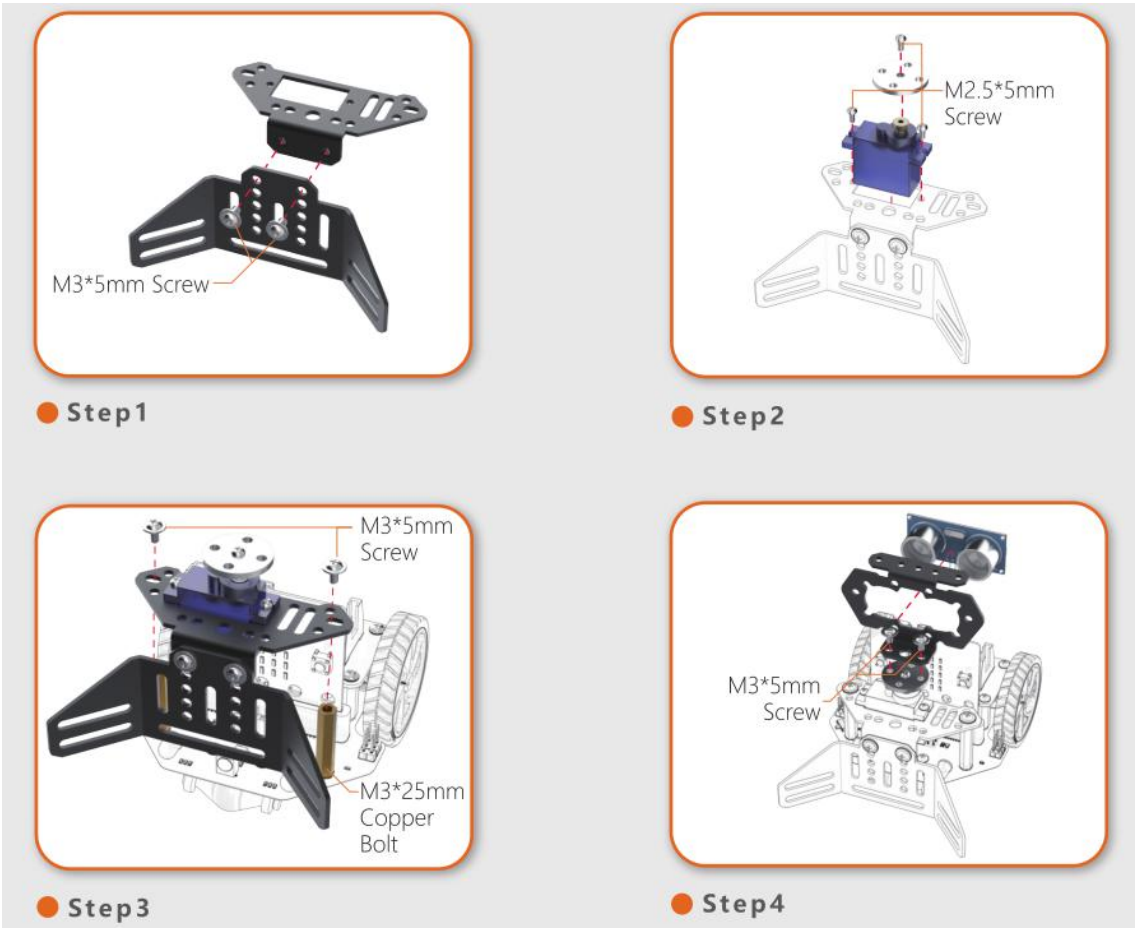
Installation Diagram

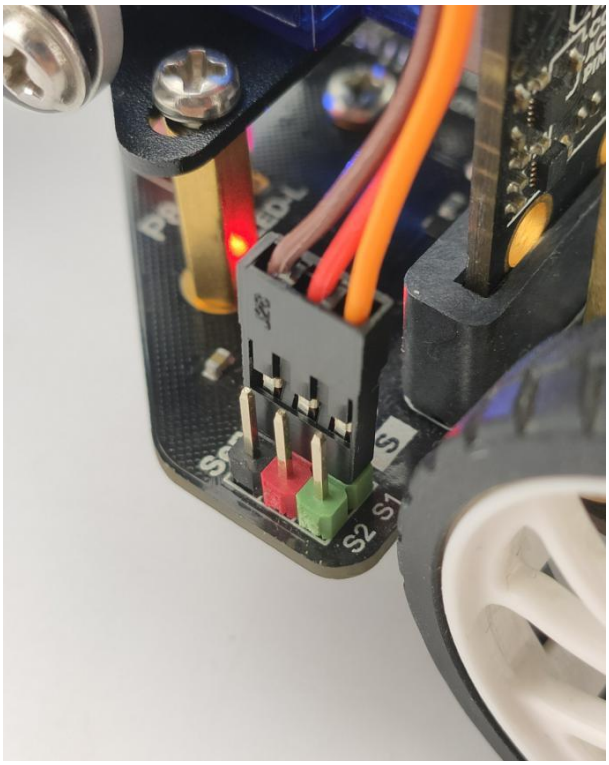


Method to Control

1. wiring

Plug the 3pin servo wire into port S1 or S2 of Maqueen, shown as below:

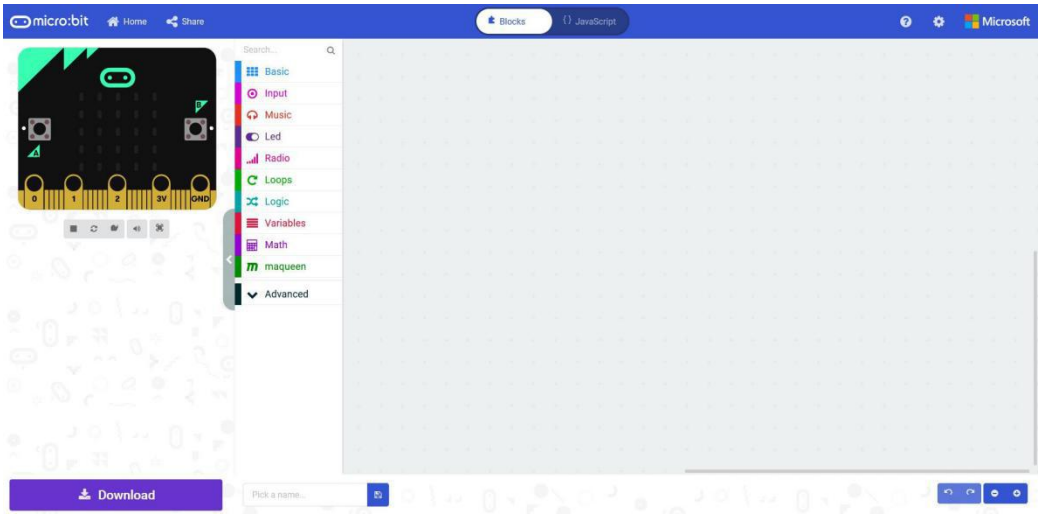
- Brown wire to Black pin
- Red wire to Red pin
- Orange wire to Green pin



2.Makecode Tutorial

1. **Click to open the Makecode programming web :**

   https://makecode.microbit.org/#editor



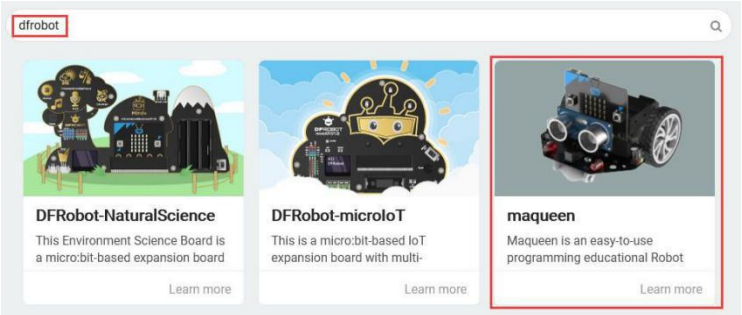
2. Import Extensions for Maqueen:

1) Click **More**

2) Click **Extensions**

3) Search **dfrobot**

4) Click to select **Maqueen**

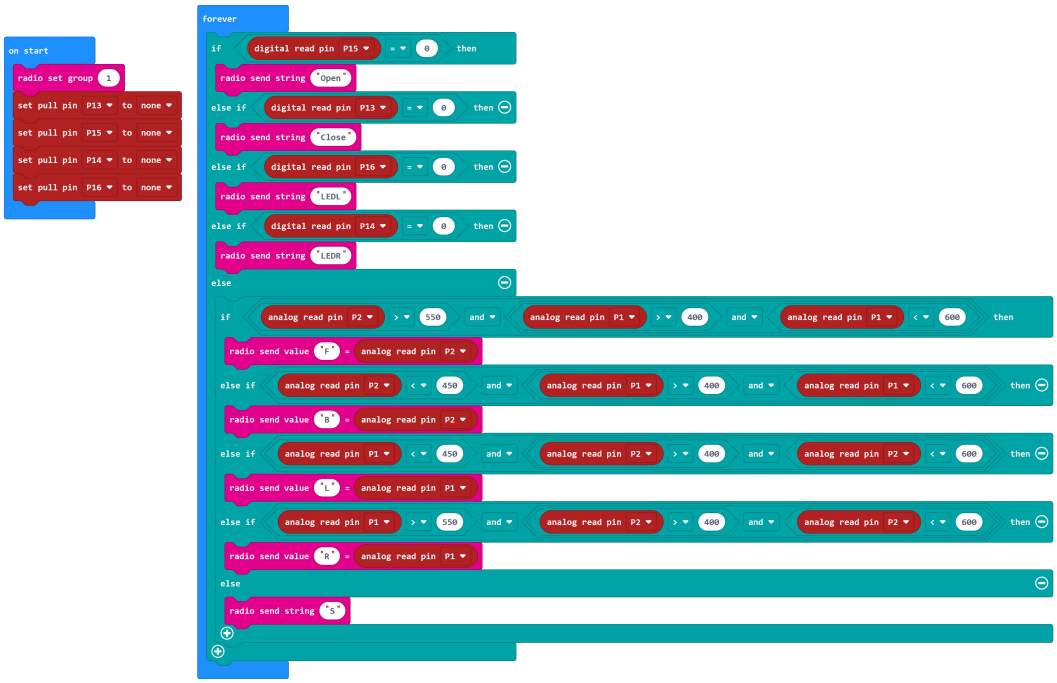


3. Examples

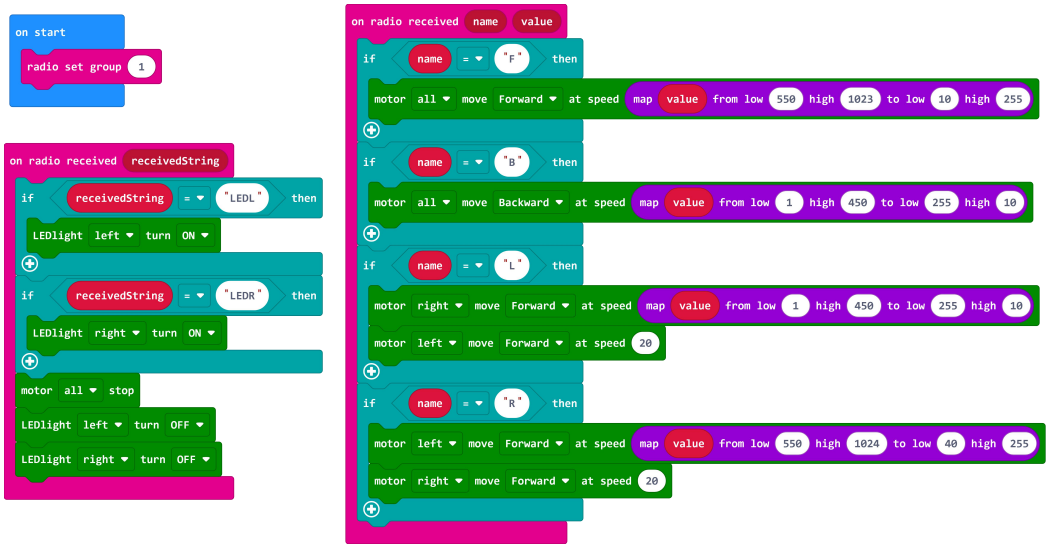
1. GamePad Remote Control Bulldozer

This program uses GamePad to remote control the Maqueen Mechanic-Push by wireless communication of two micro:bit boards. Through remote control, controlled-type Maqueen competition can be organized. In this sample, the joystick is set as an analog quantity while controlling the car' s speed and direction simultaneously. The more the joystick moves, the faster it goes. The left and right buttons control the lights on and off

GamePad End Program: https://makecode.microbit.org/_Wmxd6k2Era7z



Maqueen End Program: https://makecode.microbit.org/_3fiYv2b8zc2y



2. Ultrasonic Obstacle Avoidance Vehicle

In this sample program, the front ultrasonic sensors on Maqueen car will detect the distance between itself and obstacle ahead. If the distance is less than 30cm, the robot car will turn left or right randomly to avoid the obstacle.

Program Link: https://makecode.microbit.org/_FxFPvxDzVR8P

Program Screenshot: