



## How to build your robot

[www.pib.rocks/build](http://www.pib.rocks/build)



instructions for:

### **MOTOR** **CALIBRATION**



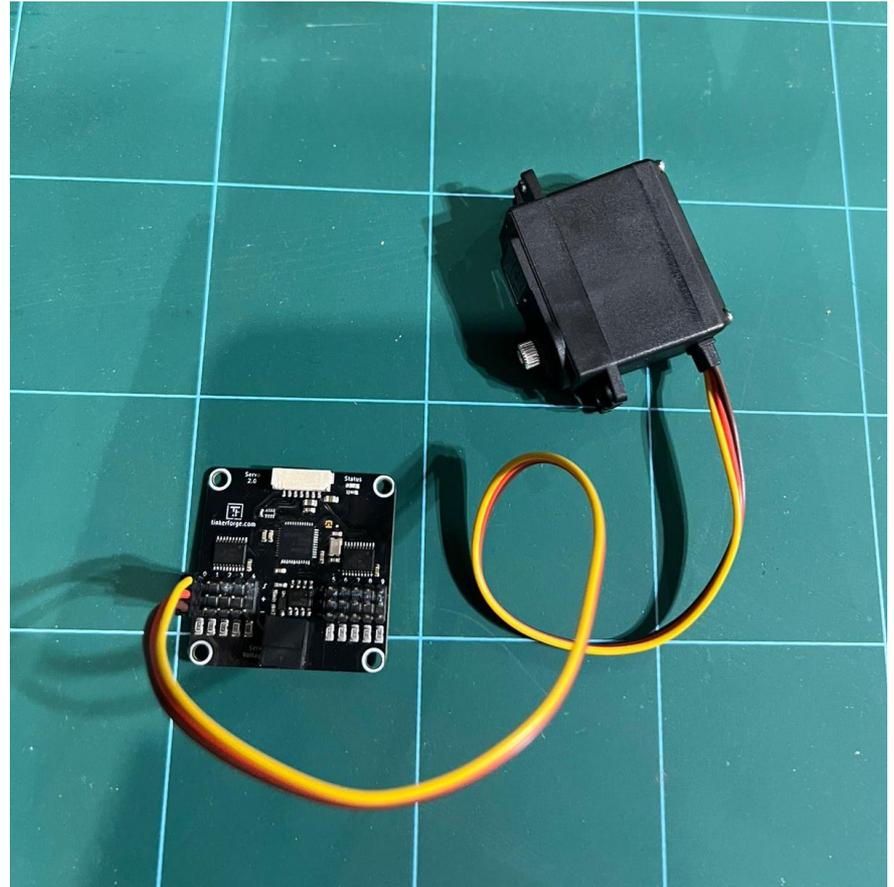
You  
**Print**  
**Build**  
**Develop**

*your own robot!*

## Step 1



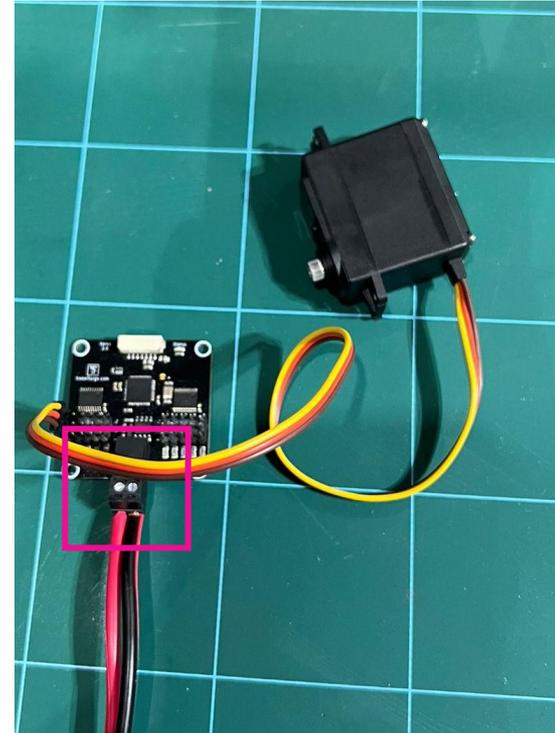
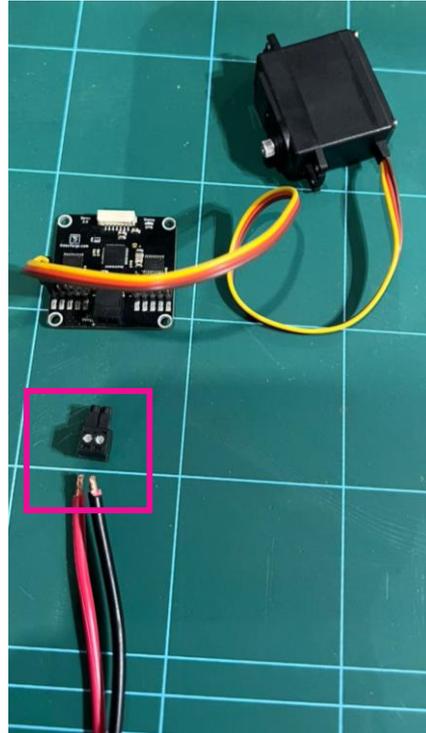
Connect servo motor to be calibrated to E03 Servo\_bricklet.



## Step 2a



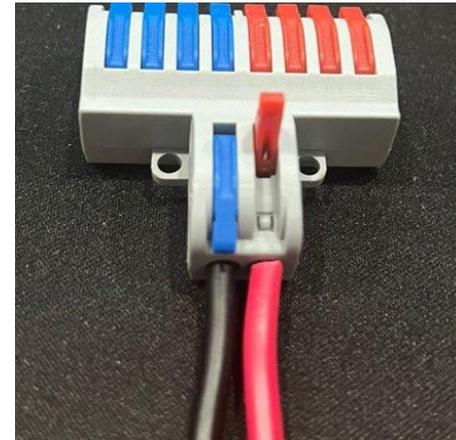
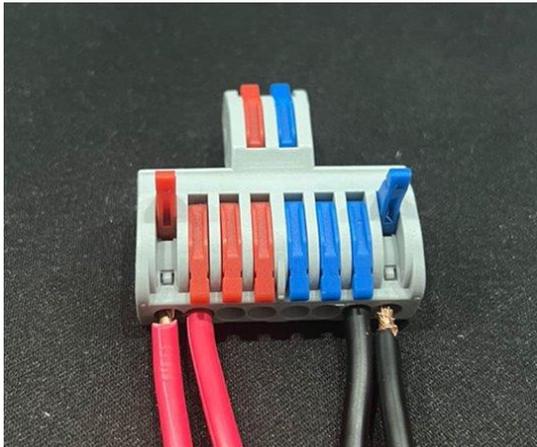
Connect power to E03 Servo\_bricklet using 40cm power cable, input power should be E13 connected to power supply.



## Step 2b



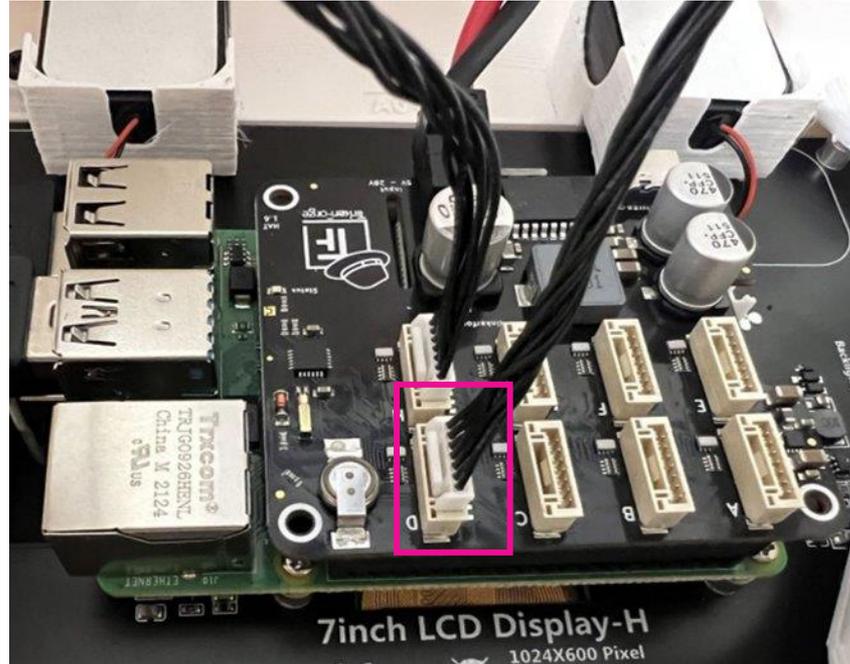
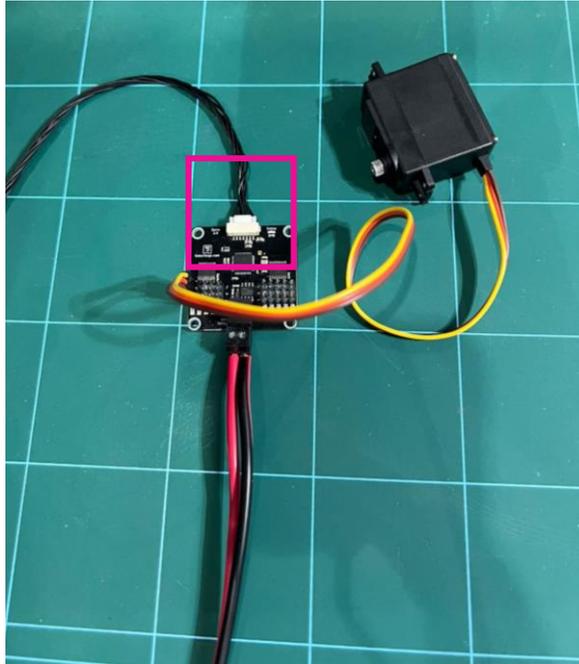
Connect power to E03 Servo\_bricklet using 40cm power cable, input power should be E13 connected to power supply.



## Step 3



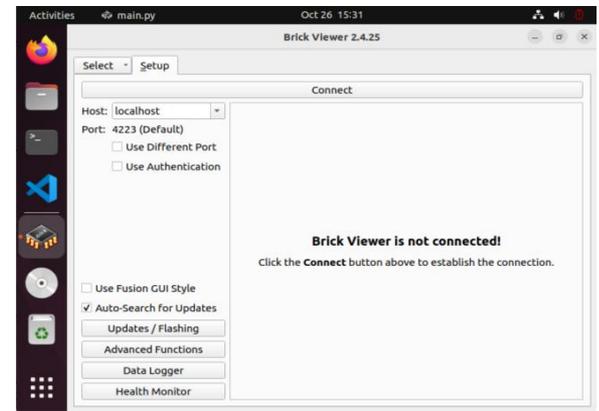
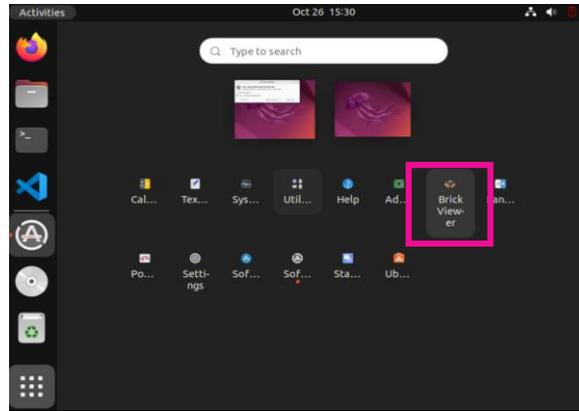
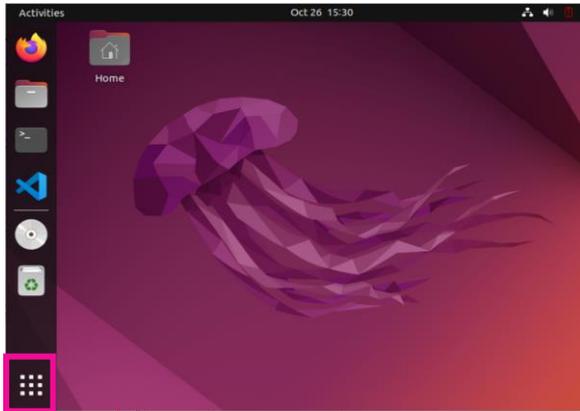
Connect bricklet to E02 Tinkerforge\_hat in head to E03Servo\_bricklet with cable loose from head tutorial.



## Step 4a



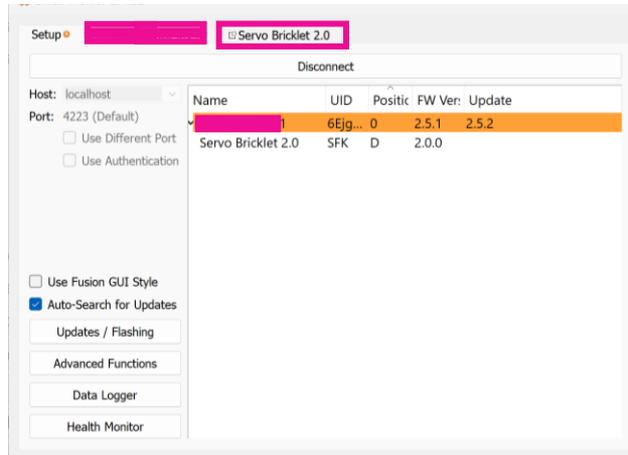
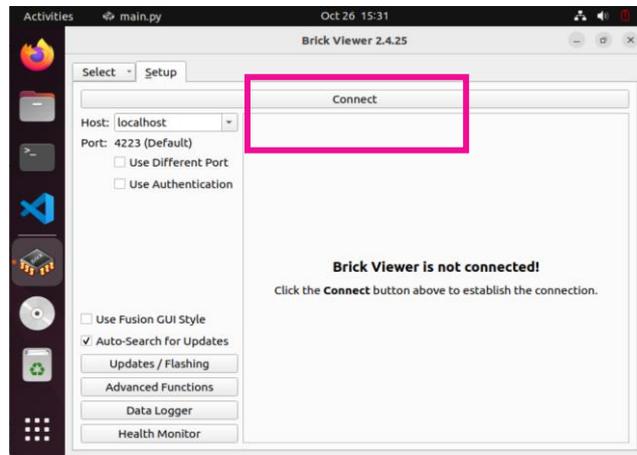
Open Brick viewer application in head.



## Step 4b



Click connect and navigate to servo bricklet 2.0 tab.



## Step 4c

Select all servos from menu and change pulse from 1000 to 700 and 2000 to 2500, and finally type 0 in position then click enter (try to keep servo motor connected until you finish assembling it to prevent shaft from moving).

UID: SFK FW Version: 2.0.0 Timeouts: 0 Status LED: Show Status

Servo 0  Enable

Current Consumption: 0mA

Pulse Width min/max (µs): 1000 / 2000

Degree min/max (°/100): -9000 / 9000

Position (°/100) Velocity (°/100s) Acceleration (°/100s<sup>2</sup>) Deceleration (°/100s<sup>2</sup>) Period (µs)

0 100000 50000 50000 19500

0

Ena Pos Vel Cur

0 Off

1 Off

2 Off

3 Off

4 Off

5 Off

6 Off

7 Off

8 Off

9 Off

UID: SFK FW Version: 2.0.0 Timeouts: 0 Status LED: Show Status

All Servos  Enable

Current Consumption: 0mA

Pulse Width min/max (µs): 700 / 2500

Degree min/max (°/100): -9000 / 9000

Position (°/100) Velocity (°/100s) Acceleration (°/100s<sup>2</sup>) Deceleration (°/100s<sup>2</sup>) Period (µs)

0 100000 50000 50000 19500

0

Ena Pos Vel Cur

0 Off

1 Off

2 Off

3 Off

4 Off

5 Off

6 Off

7 Off

8 Off

9 Off

## Do you need support?



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