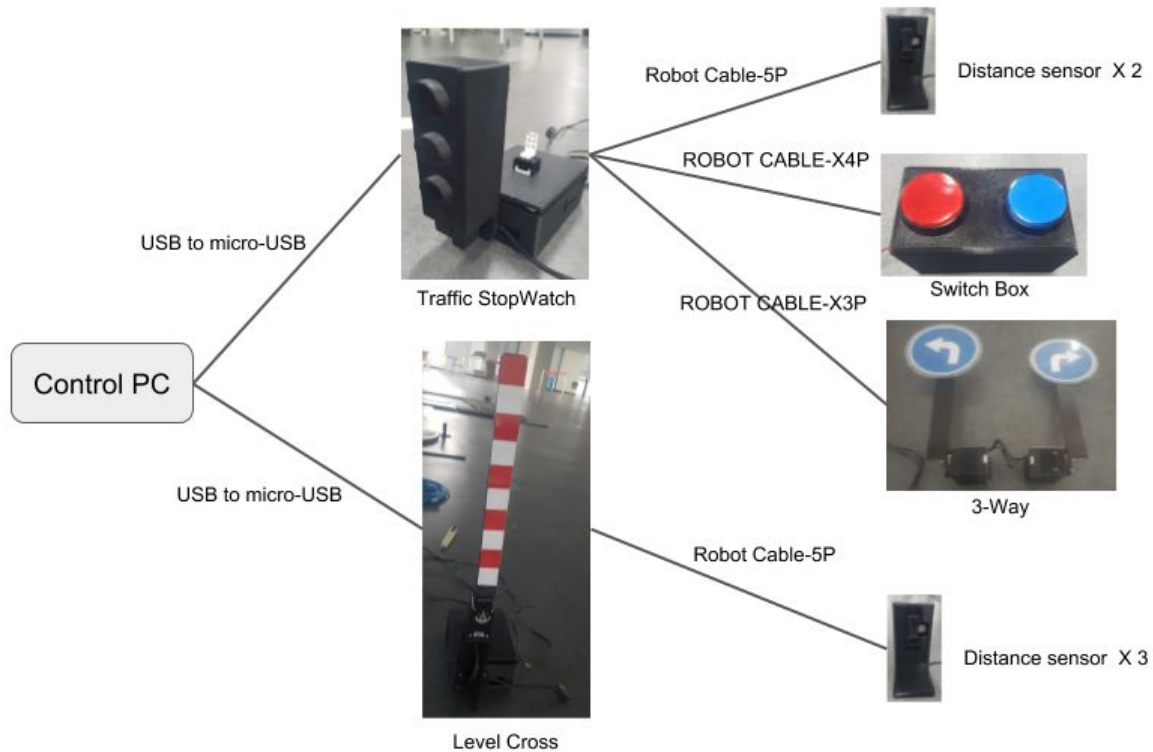


AutoRace Mission Assembly Guide



1. Traffic Stopwatch

- 1) print OpenCR Box and cover. (2 x Rivet(RS-10))



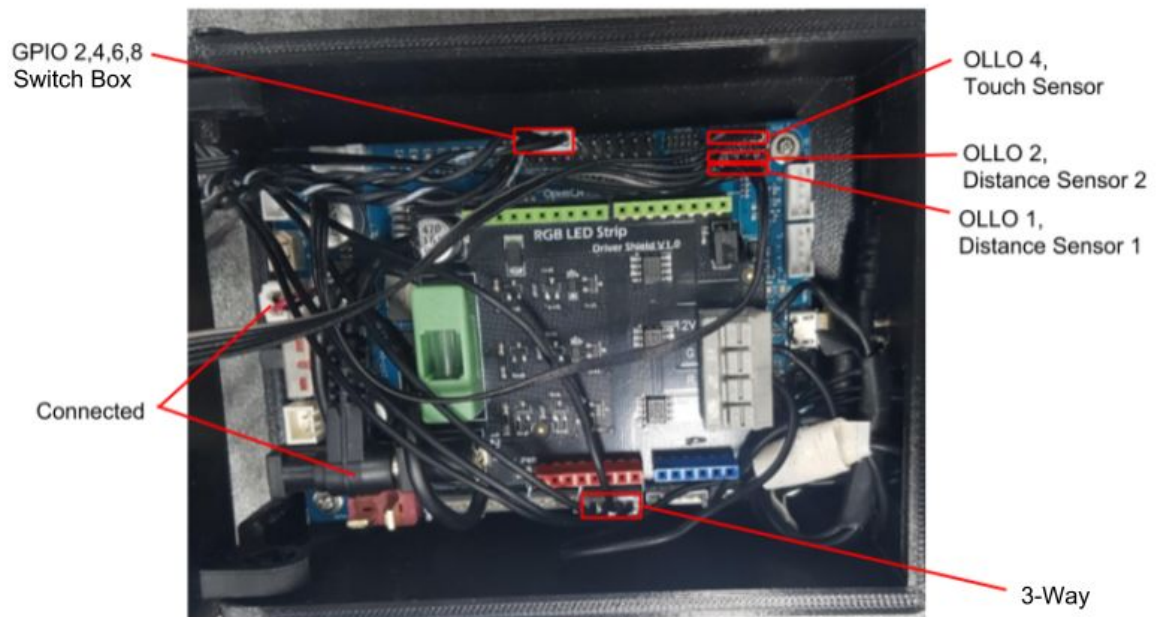
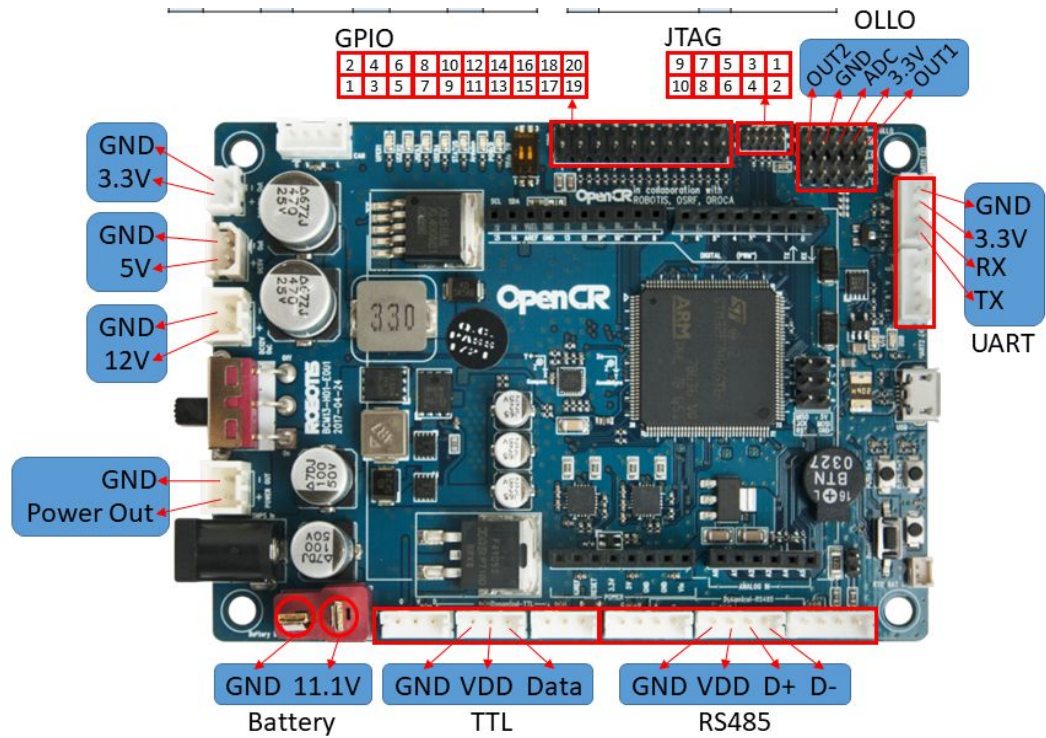
- 2) Assemble 4 TB3 PCB Support (4 x NUT_M2.5, 4 x PHS M2.5x8mm)



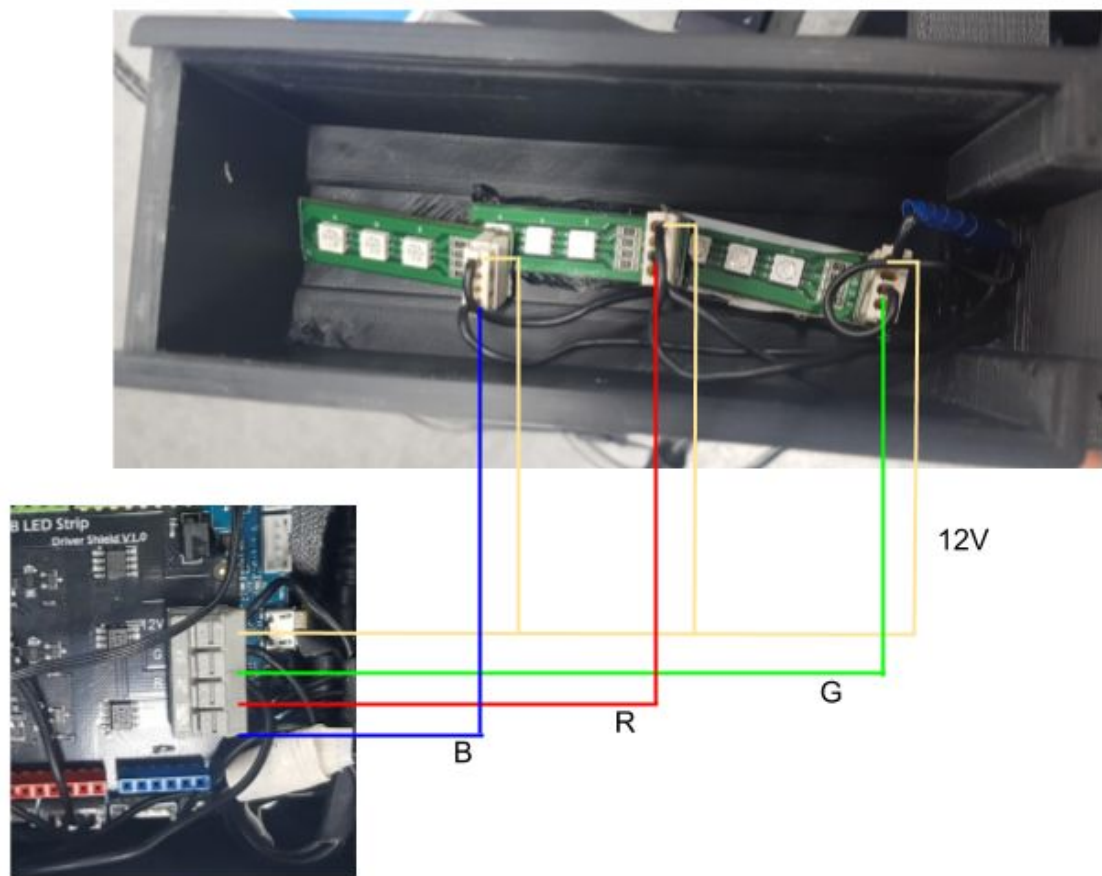
- 3) Assemble OpenCR (4 x Rivet-Mg(n))



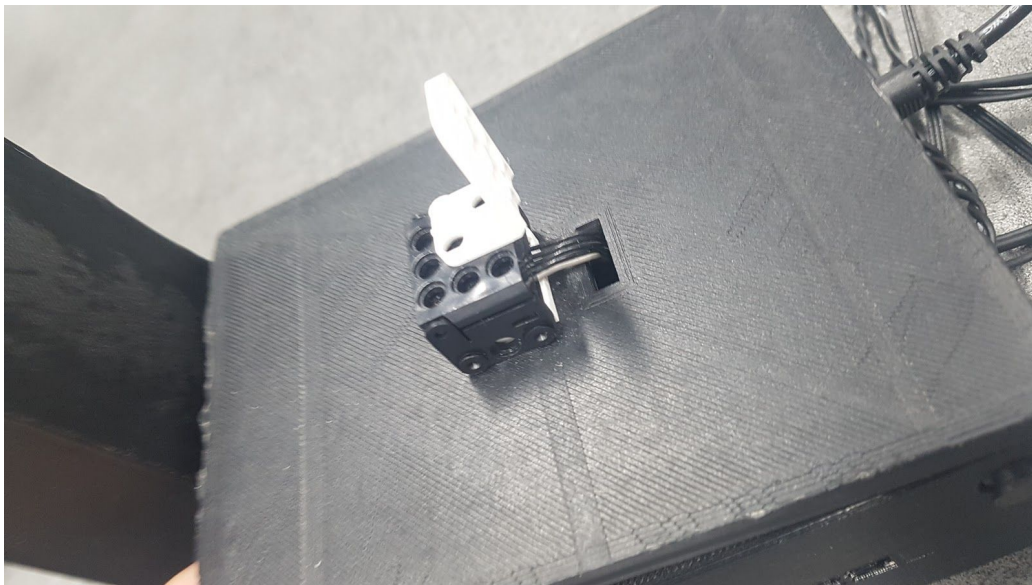
4) Assemble RGB LED Strip Driver Shield



5) Arange BIC20_B01_E001 PBA In Lamp



6) Attach touch sensor on OpenCR corver



- 7) Taping cellophane and plastic tape behind Traffic corver.

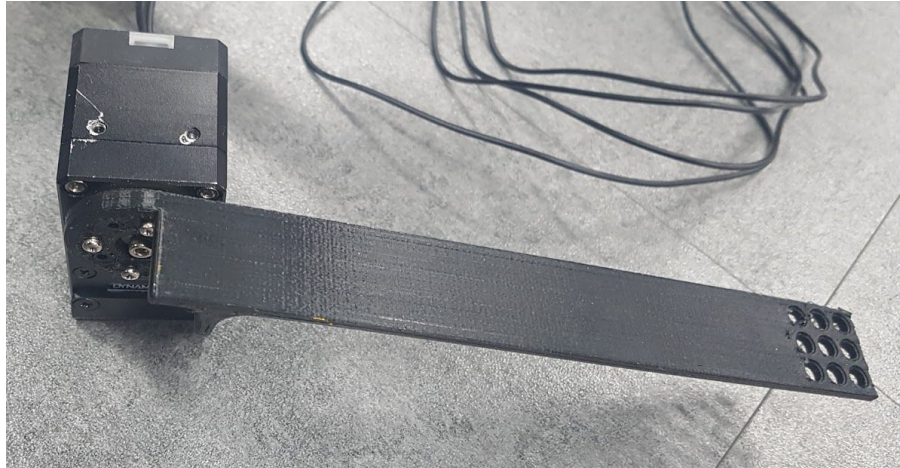


- 8) Assemle Lamp and OpenCR Box

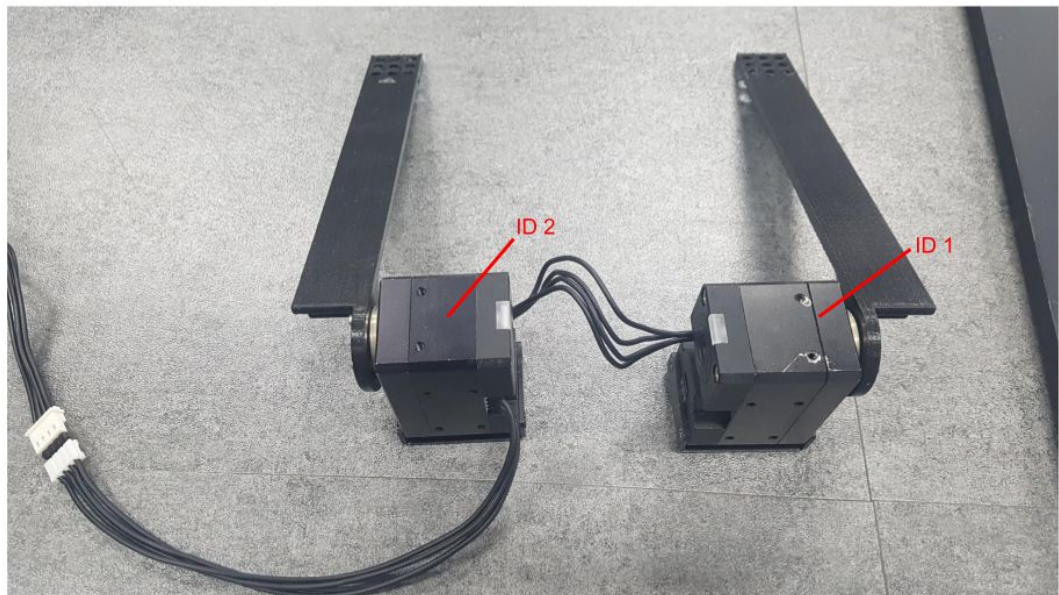


2. 3-Way

- 1) Print and assemble Dynamixel and Sign frame X2. (PHS M2x4mm)



- 2) Connected Dynamixels and OpenCR. **Dynamixel's baud rate = 57600, ID = 1, 2**

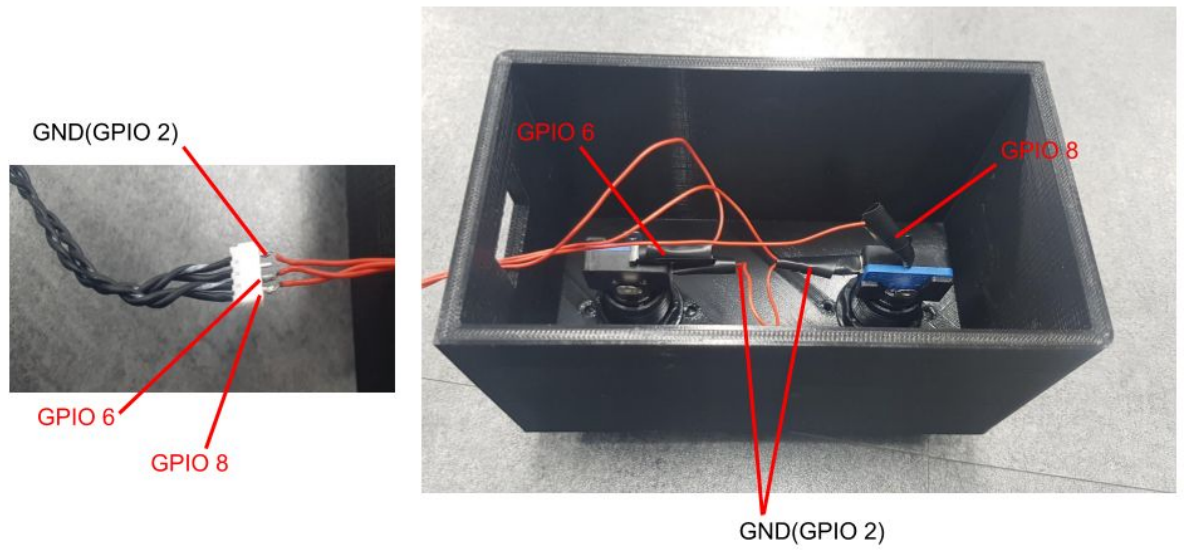


3. Switch Box

- 1) Print and assemble switch box. (Button RED, BLUE, switch box)



- 2) Connected wire for OpenCR(GPIO 2,4,6,8)

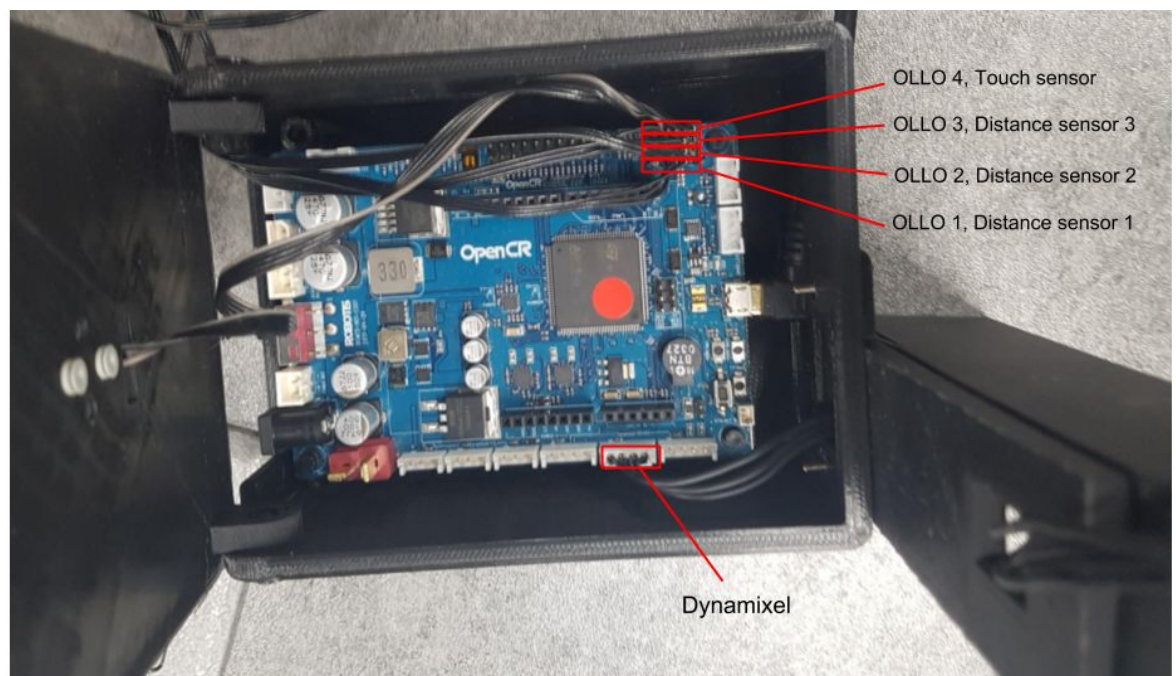
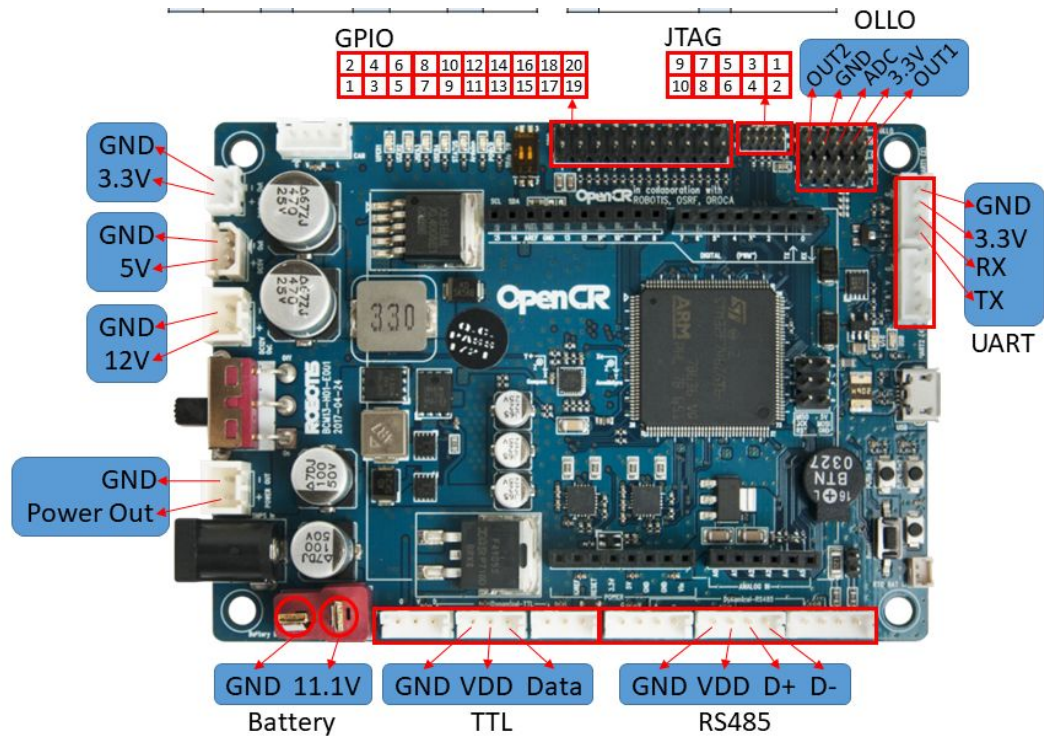


4. Level Crossing

- 1) Repeat Step. 1~3 of 1. Traffic stopwatch
- 2) Assemble 7 x FP04-F3, FR13-H101K and Dynamixel. (14 X PHS M2x6, 14 X PHS M2x6, 10 X PHS M2x4). **Dynamixel's baud rate = 57600, ID = 1**



3) Connected Sensors and Dynamixel with OpenCR



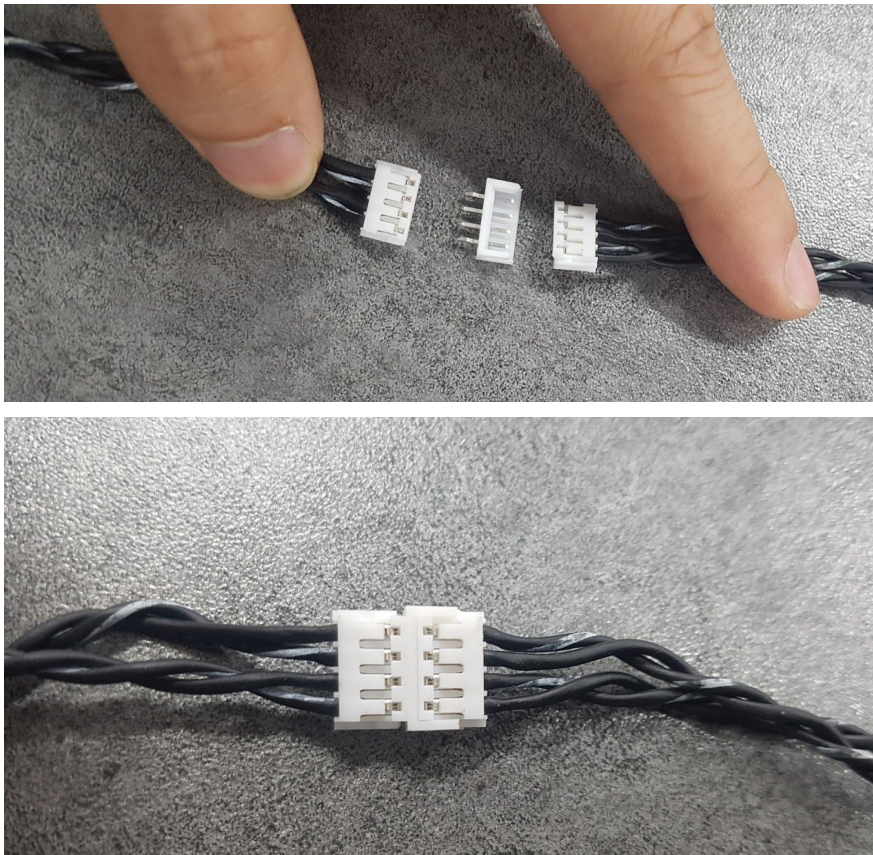
5. Distance Sensor

1) print and assemble distance sensors and Sensor fixtures. (PHS M2.5x8mm, NUT_M2.5)

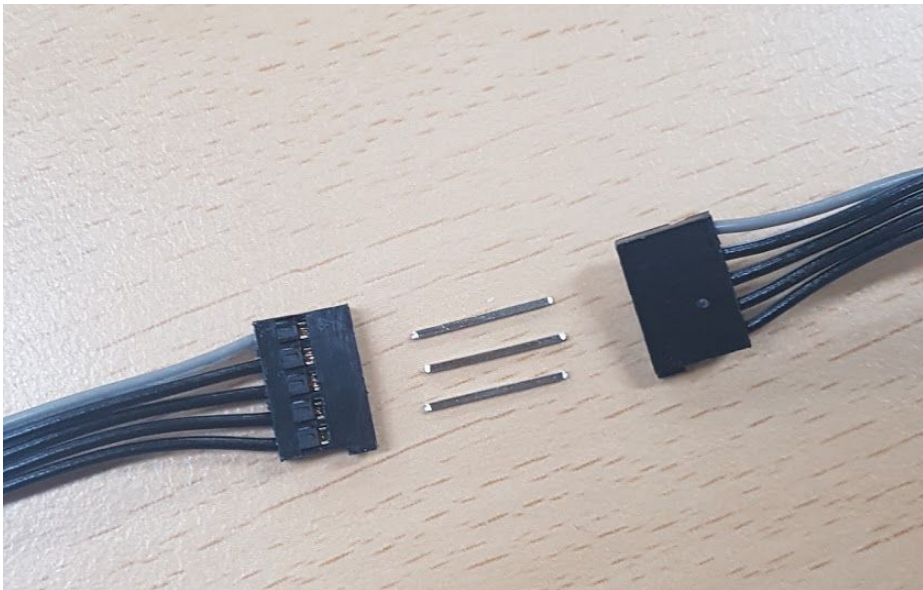
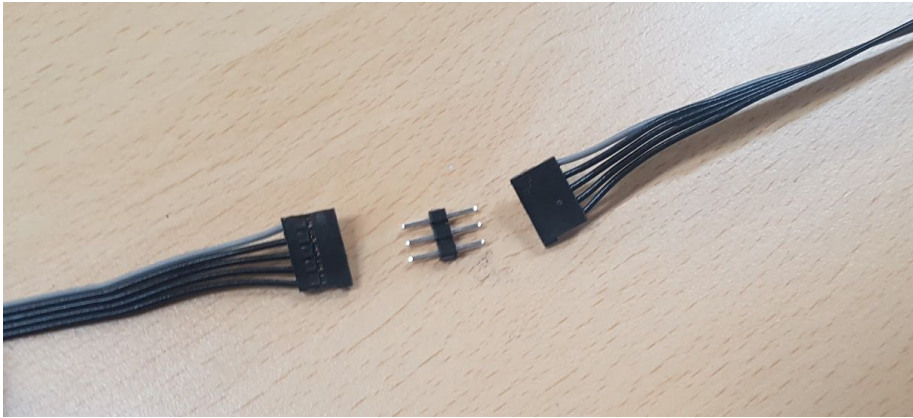


6. Extend Cable

1) Dynamixel Cable

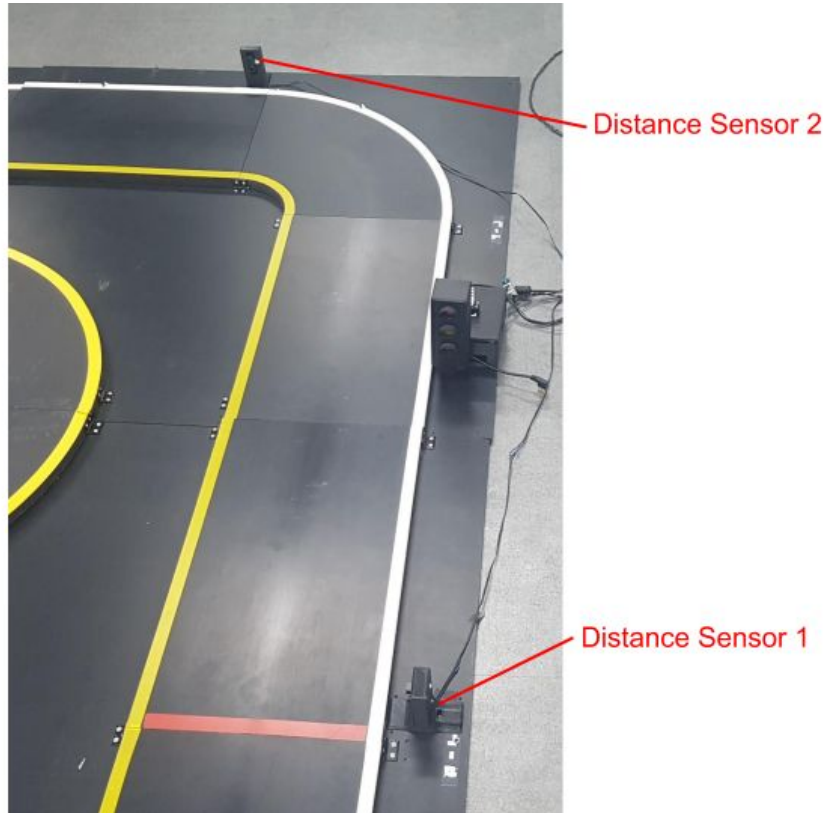


2) Distance sensor cable (2,3,4 pin)



7. Complete mission

1) Traffic Stopwatch



2) Level Crossing

