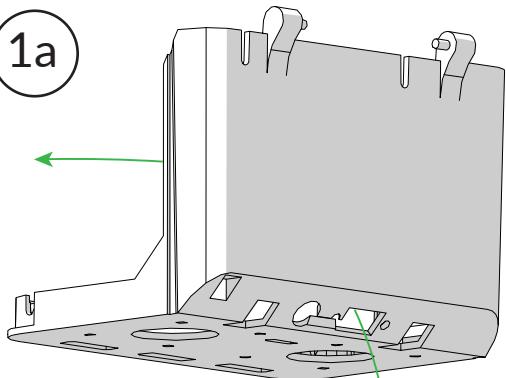


# MARTY THE ROBOT

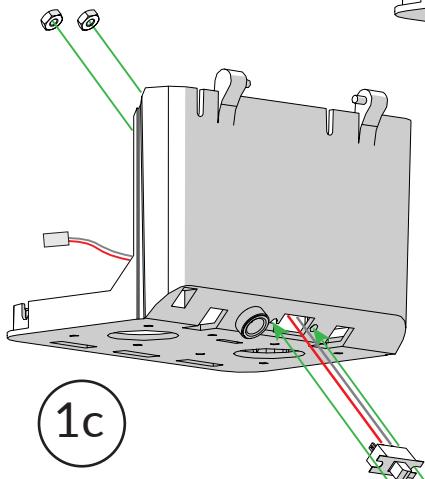
— Build Instructions —

## Build ① - HEAD

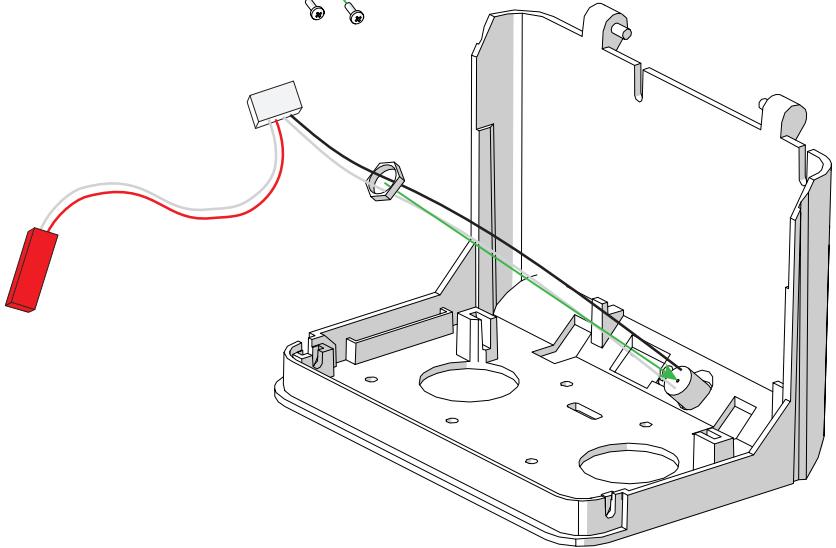
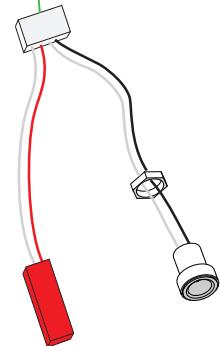
1a



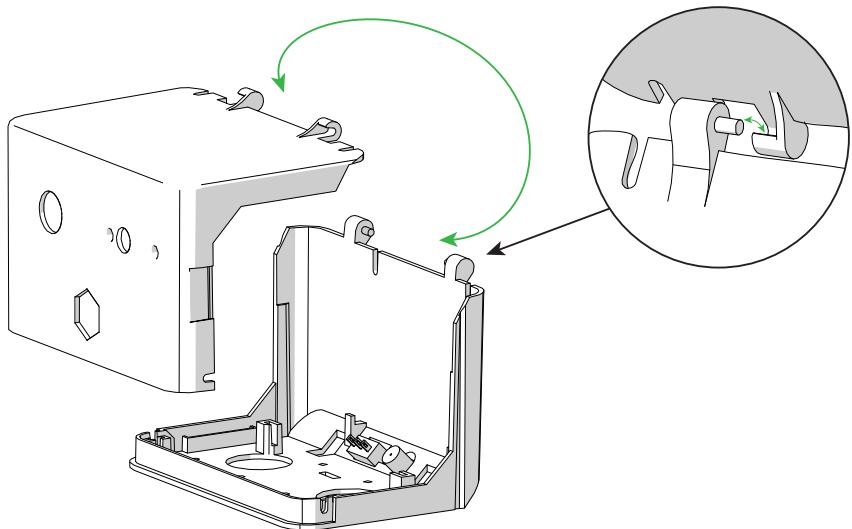
1c



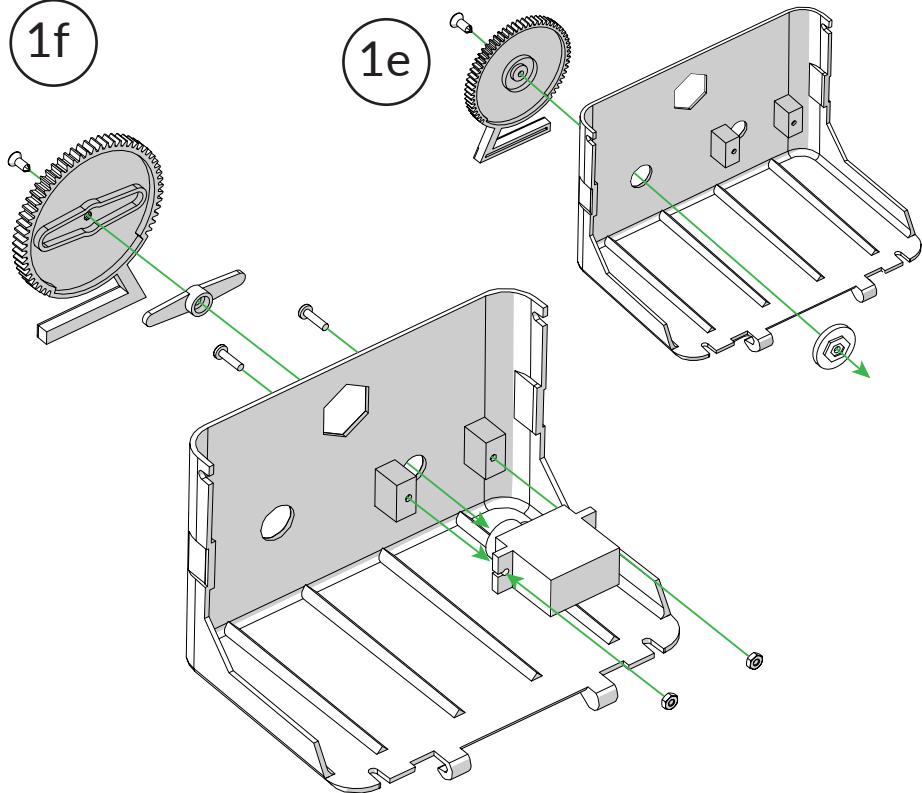
1b



**1d**

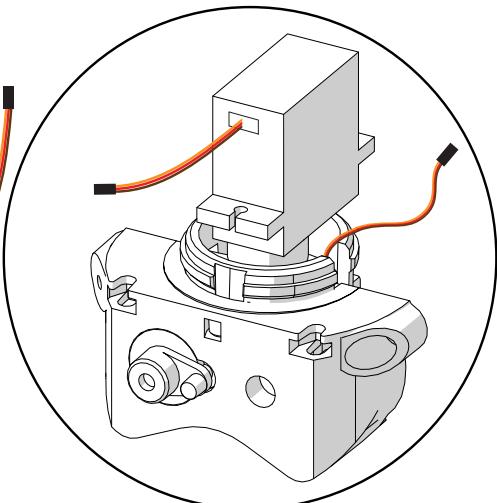
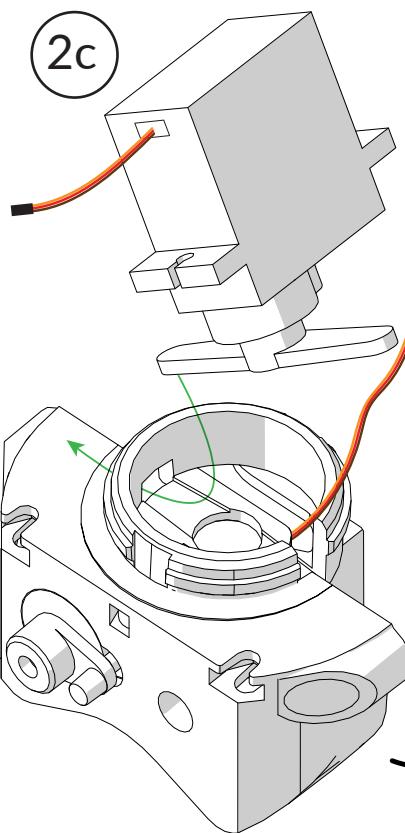
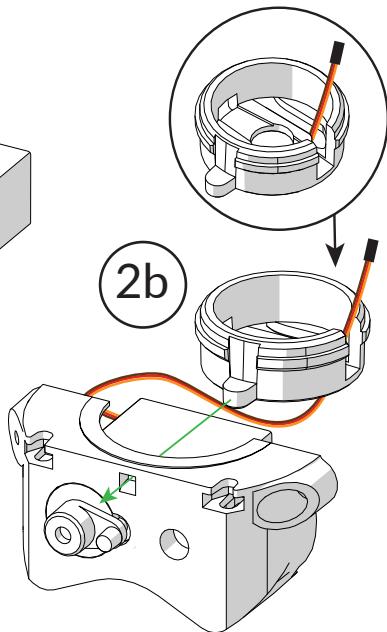
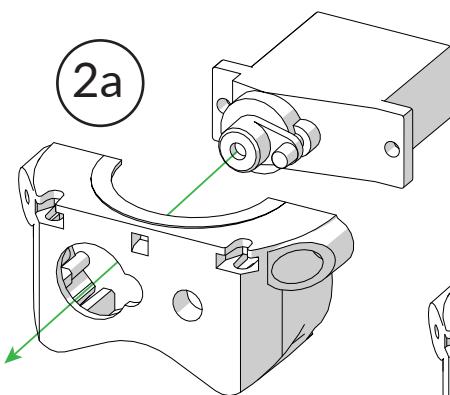


**1f**

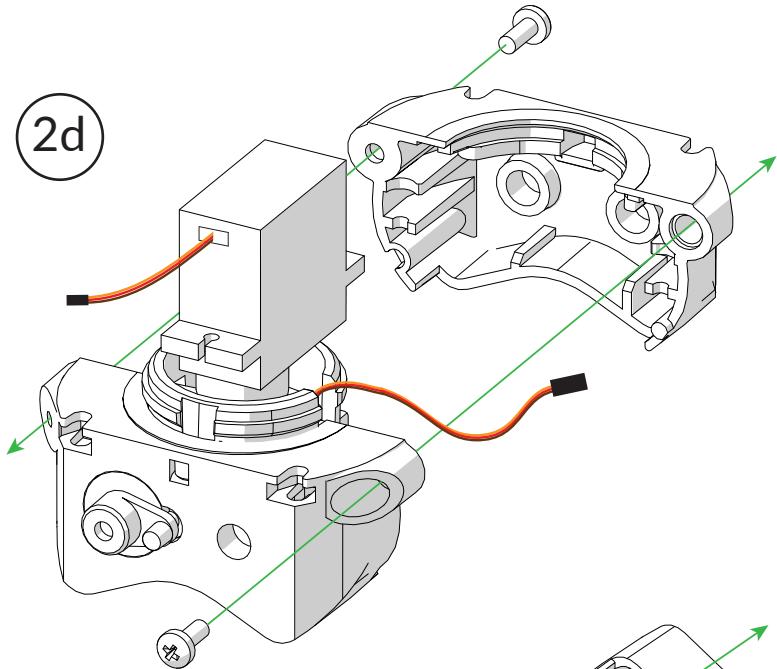


**1e**

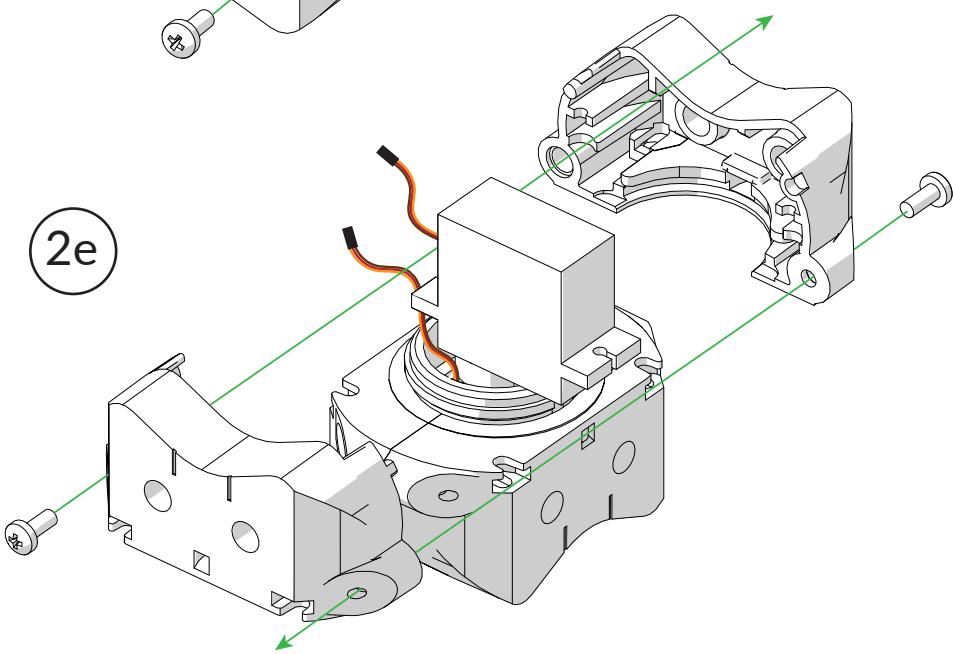
## Build ② - (Right) LEG



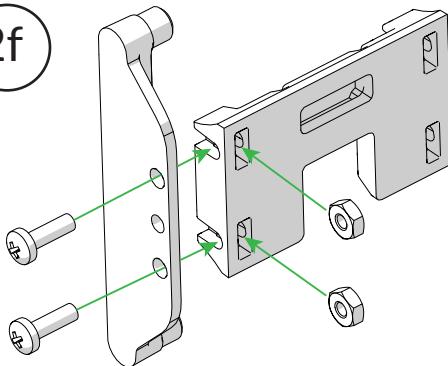
2d



2e

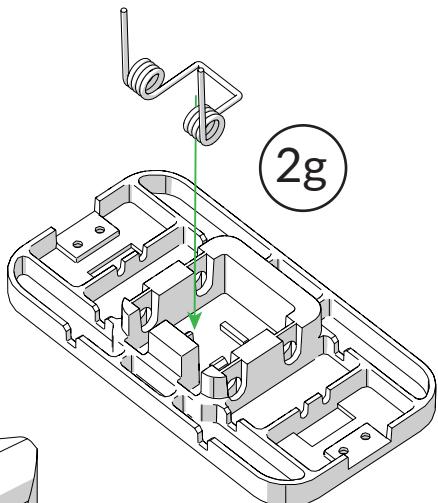


2f

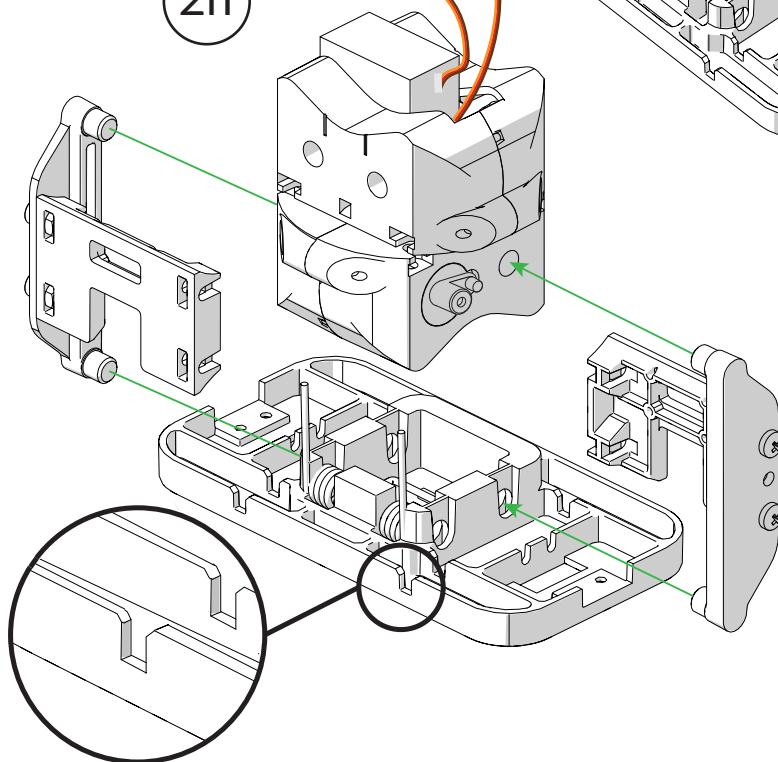


X 2 PARTS

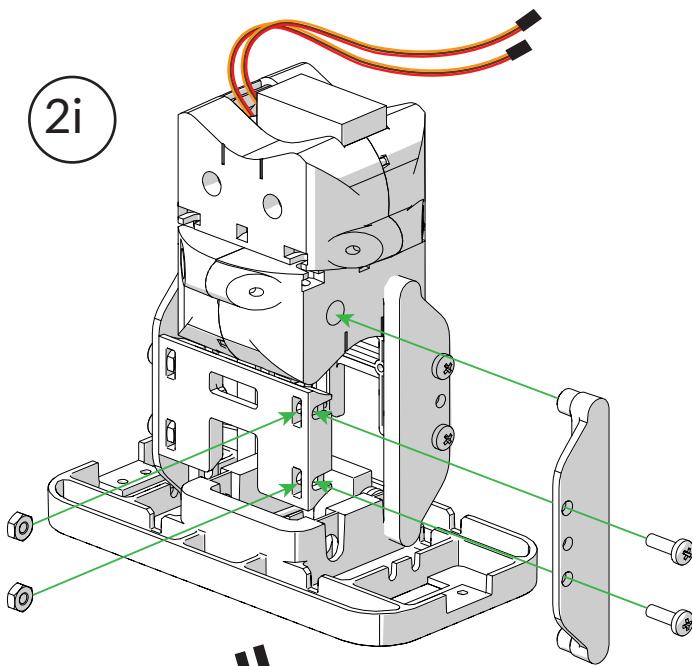
2g



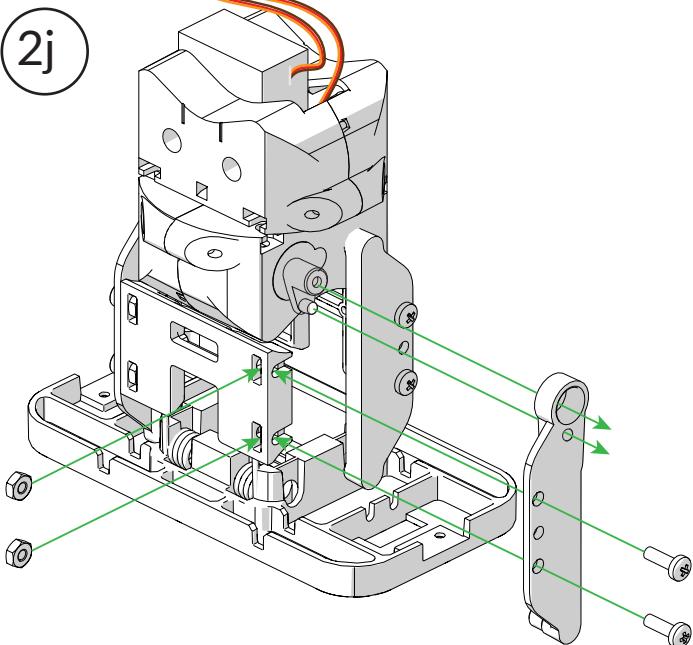
2h



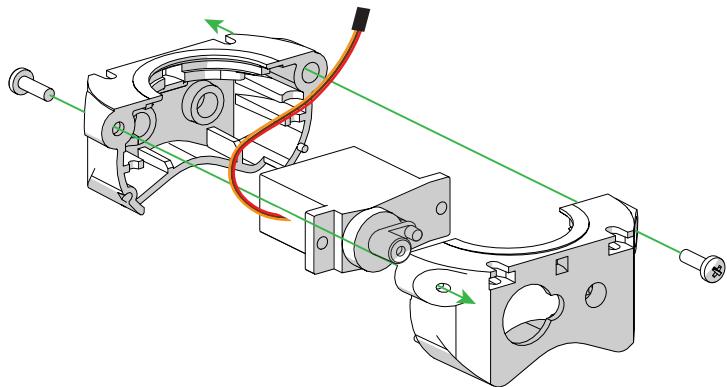
2i



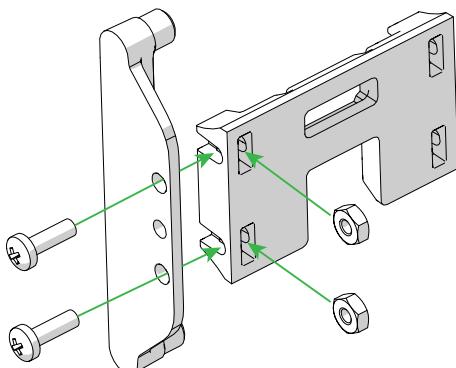
2j



2k

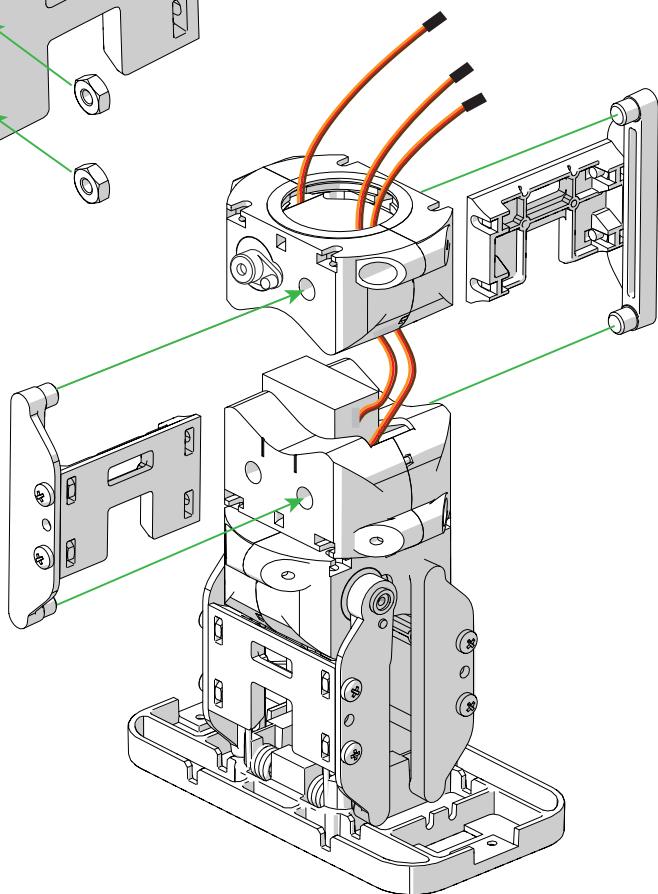


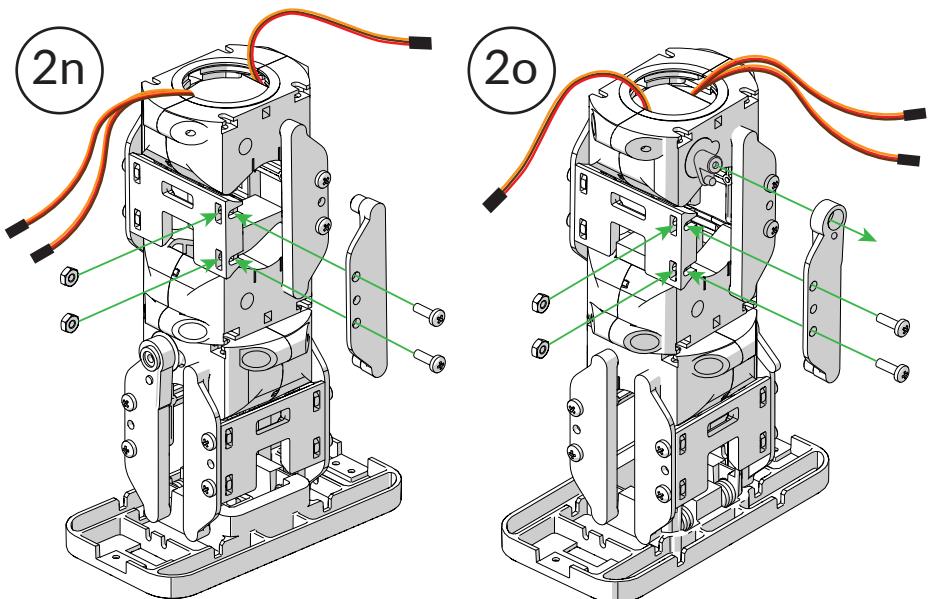
2l



X 2 PARTS

2m

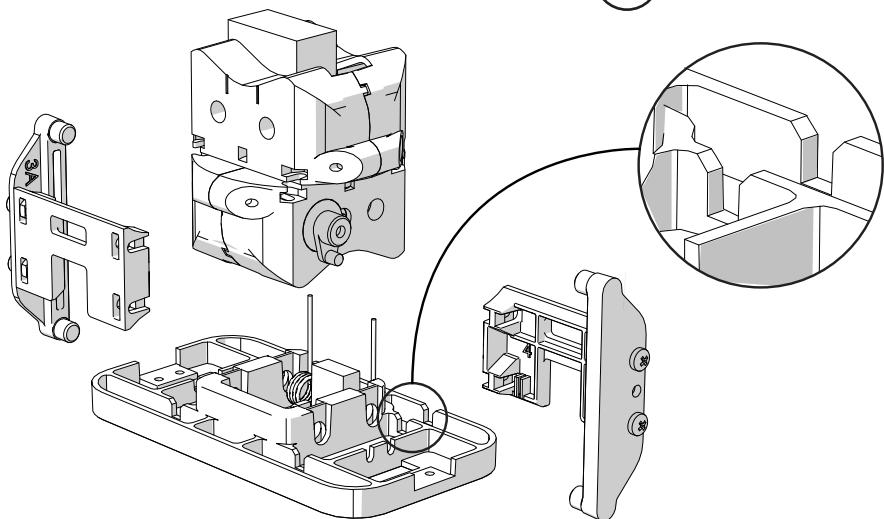




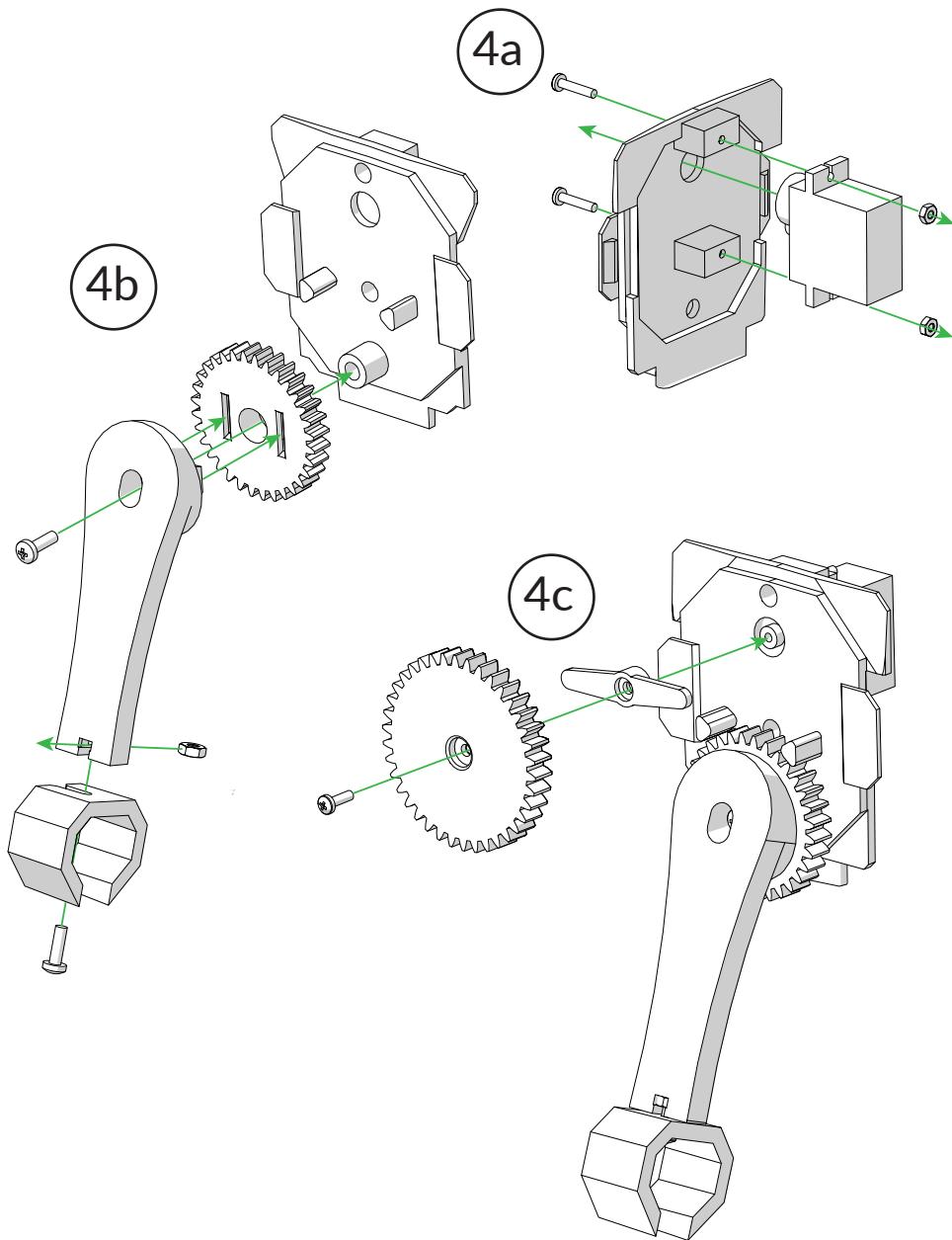
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### Build ③ - (Left) LEG

For left leg, please follow the instructions from **Build ②**.  
Rotating the foot 180 degrees at step **2h** as seen below.

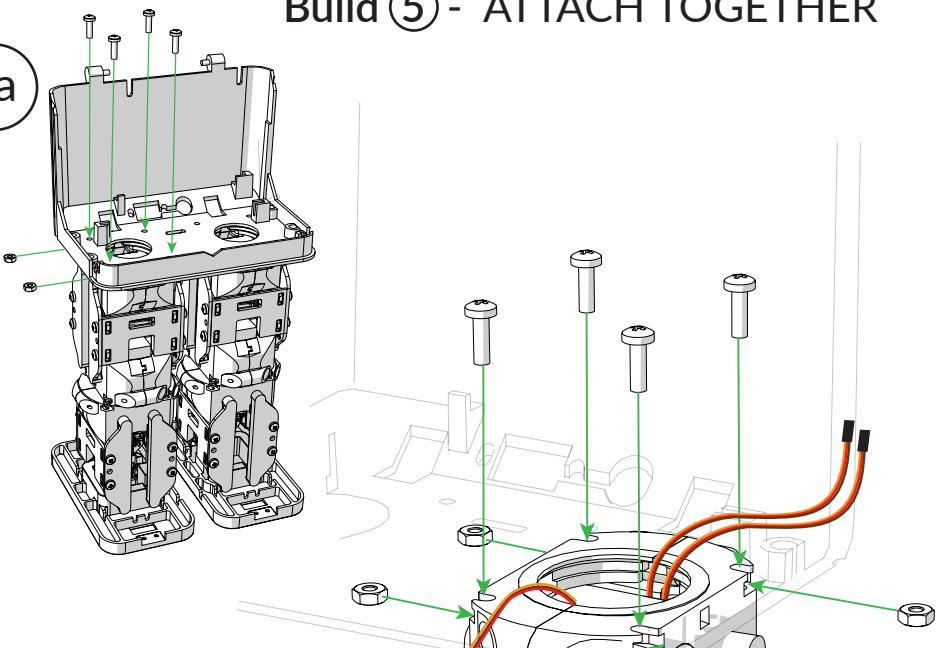


## Build ④ - ARMS

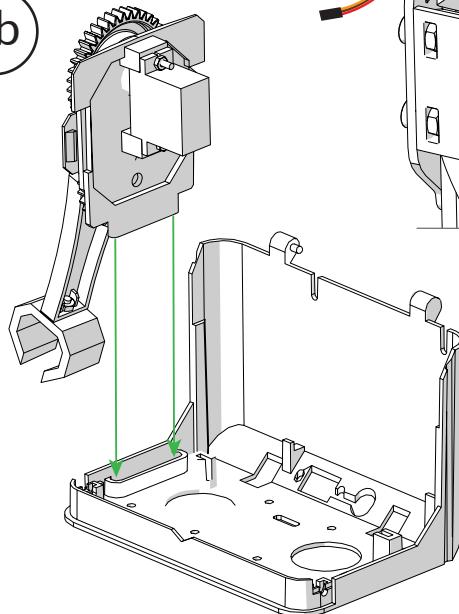


## Build ⑤ - ATTACH TOGETHER

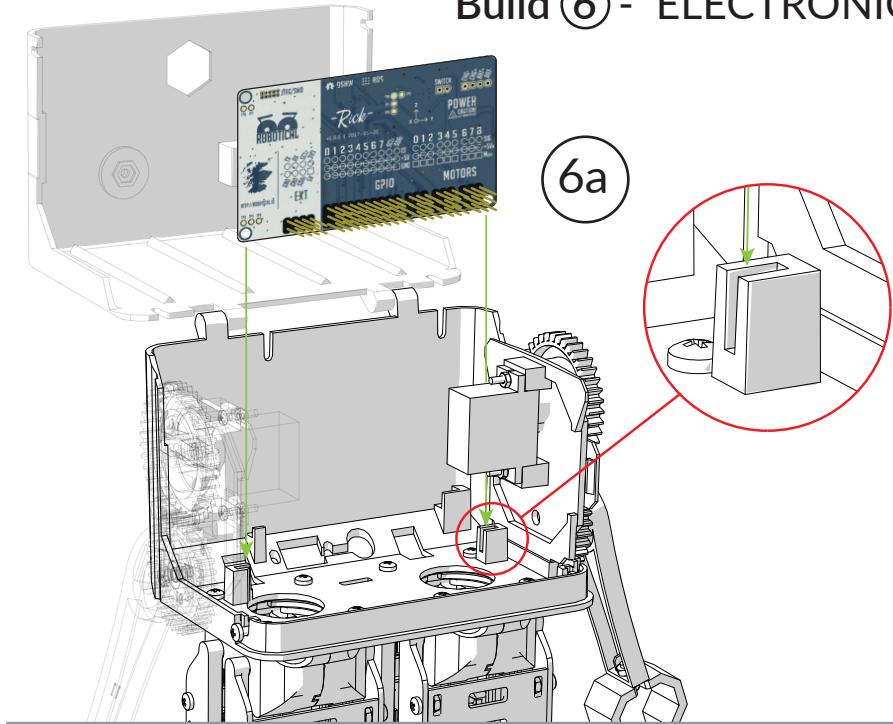
5a



5b

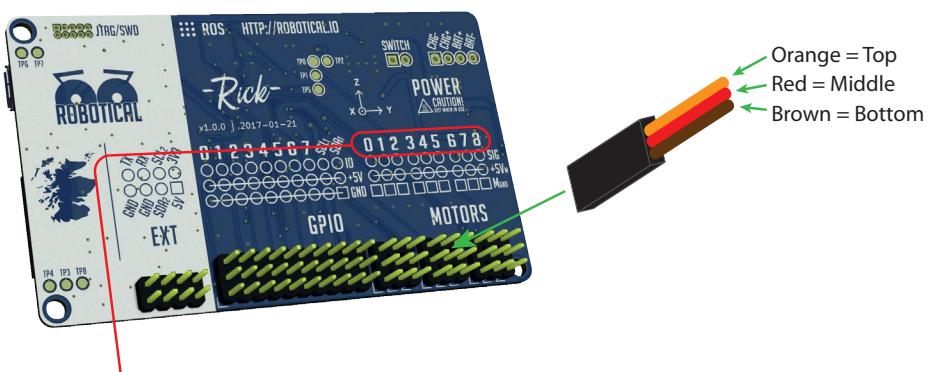


## Build 6 - ELECTRONICS



6b

Attaching the Leg Servos



**0** = LEFT HIP

**3** = RIGHT HIP

**6** = LEFT ARM

**1** = LEFT LEG TWIST

**4** = RIGHT LEG TWIST

**7** = RIGHT ARM

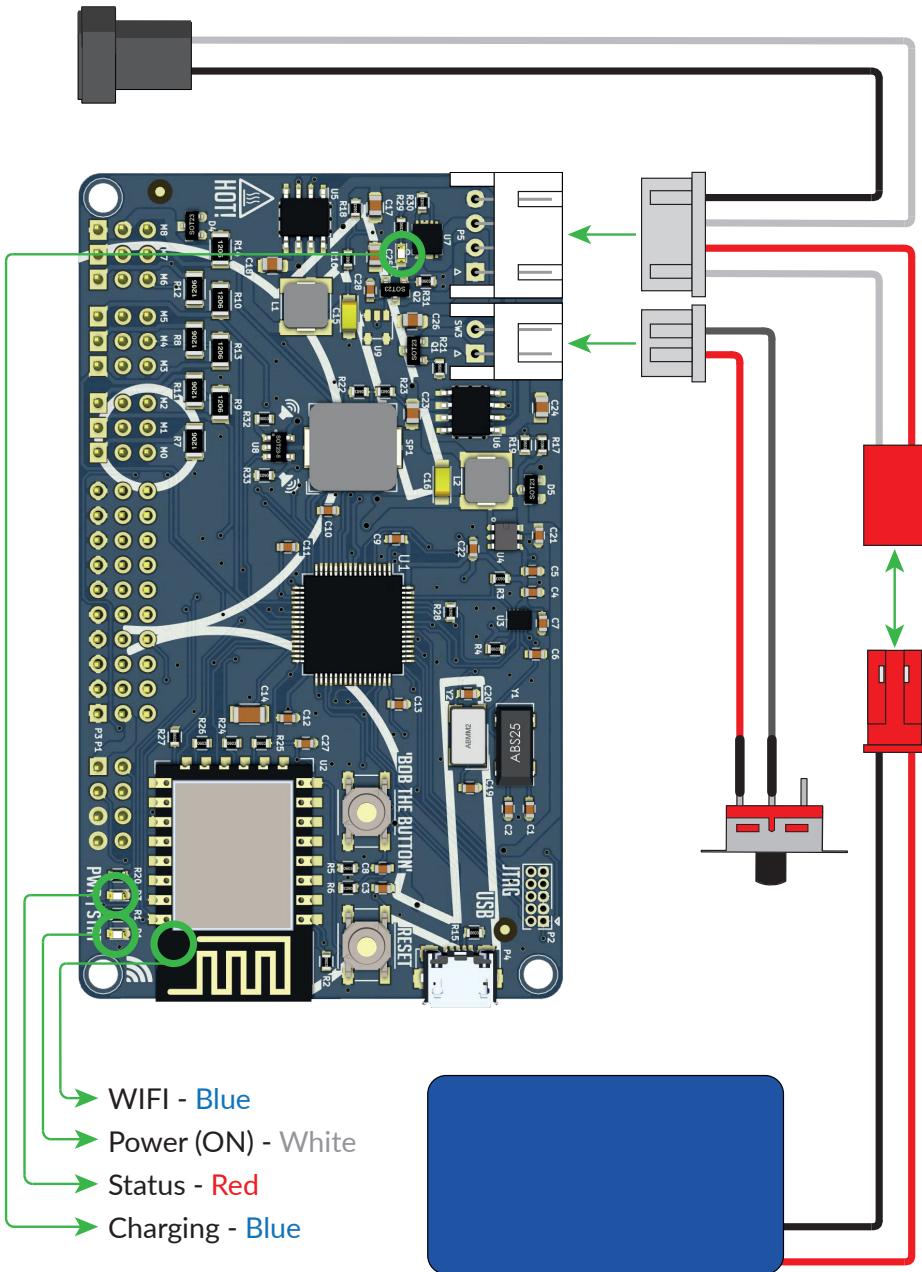
**2** = LEFT KNEE

**5** = RIGHT KNEE

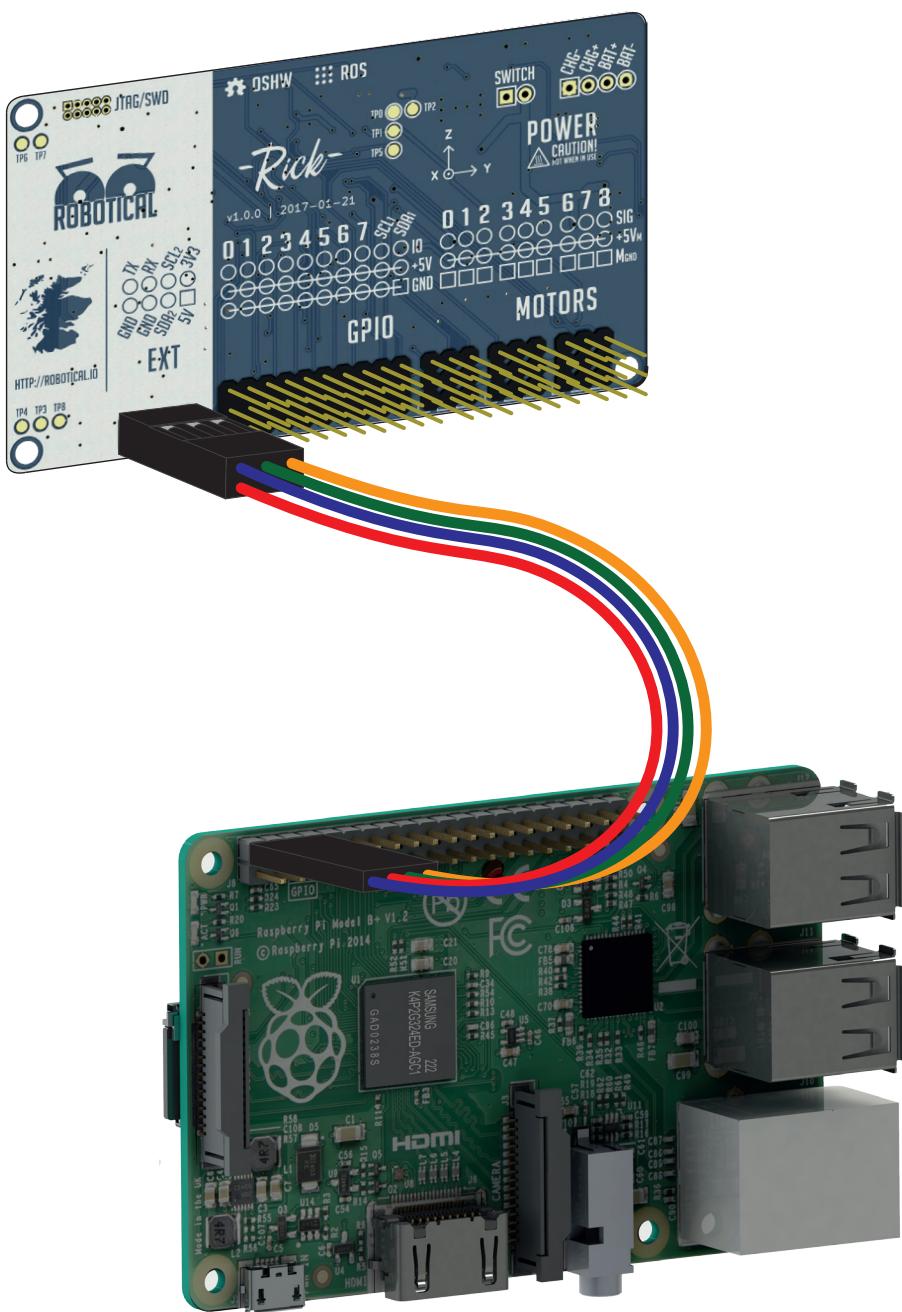
**8** = EYES

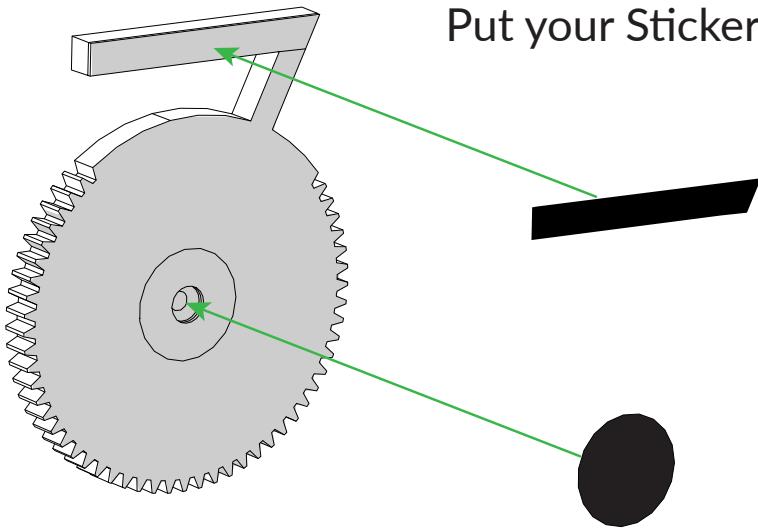
6c

## Attaching the Battery, Power Switch and Charging Port



# Connect a Raspberry Pi!





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## Marty Calibration Instructions

Set Marty on a clear, flat surface. Keep Marty stable and upright throughout the calibration procedure by holding its head. Be aware motors and joints will move, so keep all fingers away from any moving joints!

Start the Marty app and follow the calibration walkthrough in the software.

# TROUBLESHOOTING

**"There are no lights turning on the control board Rick"**

- Make sure the battery is plugged in, and that the switch is connected and turned on. The white LED indicates power when turned on, the red LED indicates serial communication, and the blue LED indicates Marty is charging up when plugged in.

**"Help, my Marty moves randomly when I turn it on!"**

- An instant short movement from all servos when powered is normal. If Marty carries moving on randomly afterwards then Marty may not have been calibrated properly. Please follow the calibration instructions.

**"Marty makes a weird noise when turned on"**

- Marty may have ran out of battery. Please turn it off and plug it to charge, a bright blue light should turn on the control board while charging. Give it another go after a couple of hours.

**"Marty does not appear on the network / does not provide a wireless hotspot"**

- Make sure Marty is turned on and that it is fully charged.  
<TODO Wireless ESP instructions>

