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Mechatronics

PBOT JUNIOR: Assembly Manual An Entry Level Mobile Robot

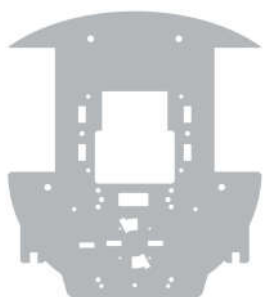


Proudly Made in the Philippines

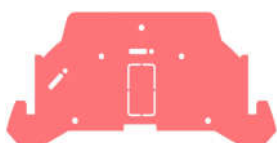
MATERIALS:

Pbot Junior Chassis

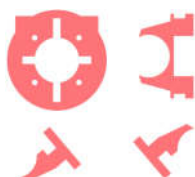
[Body]



[Front Deck]



[Roller Holder]



[Battery holder]



[Spoiler]



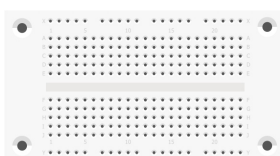
[Board Chassis]



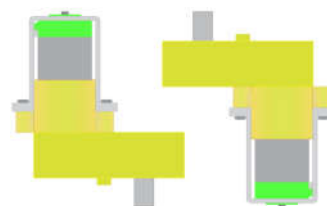
[Motor Holder]



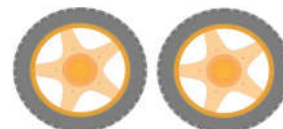
[SYB-46 Breadboard]



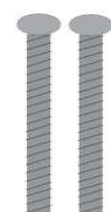
6VDC Motors
[2pcs]



Wheels[2pcs]



4pins wires



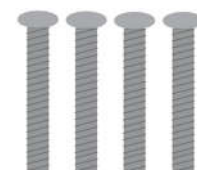
3x20mm[2]



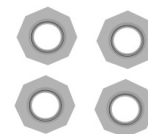
2x25mm [4]



2.5mm[4]



3x16mm[4]



3mm[4]



Spacers[5]



3x6mm[8]



3x14mm



3x10mm[2]



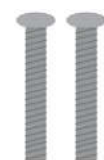
1x6mm screws[4]



Roller Ball



3x10mm [4]
Brass studs

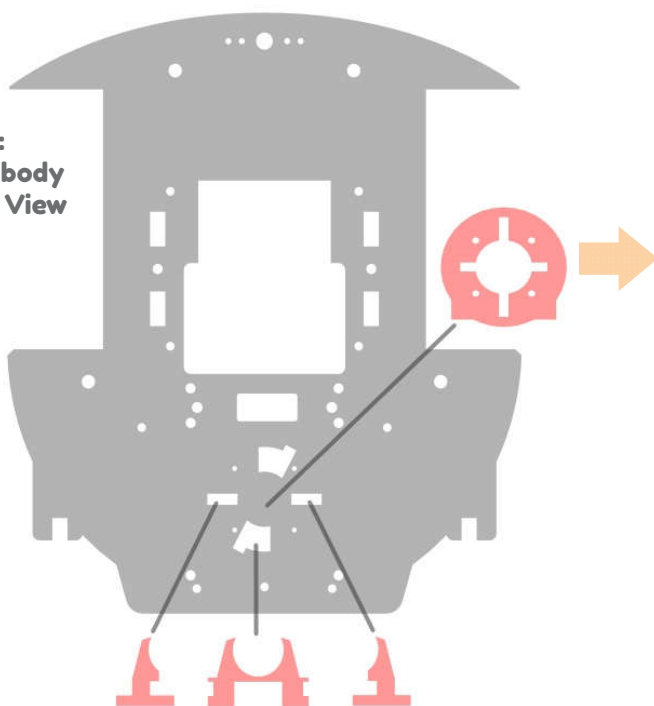


3x12mm[2]

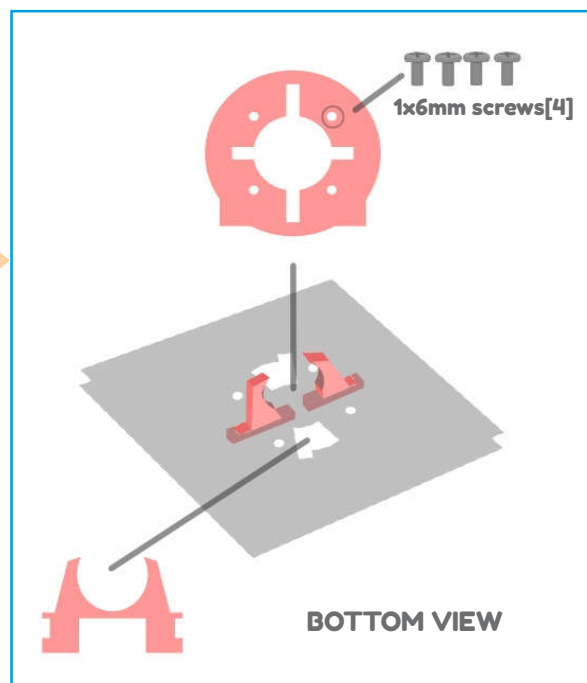
FIRST STEP: The Roller Holder

1

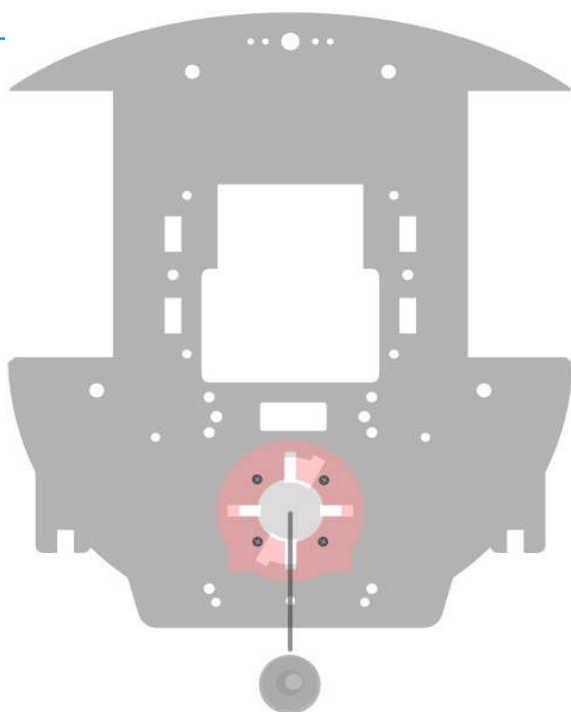
Chassis:
Acrylic body
Bottom View



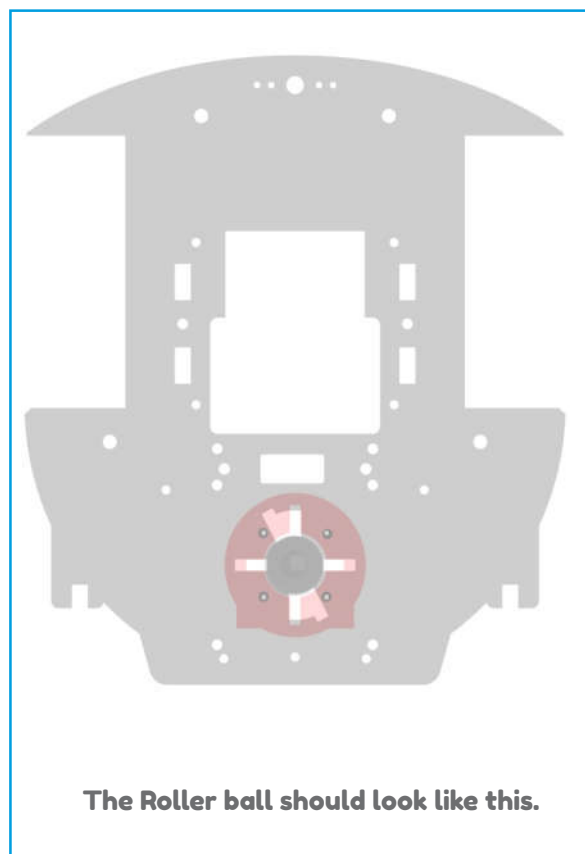
Roller Holder accessories



2



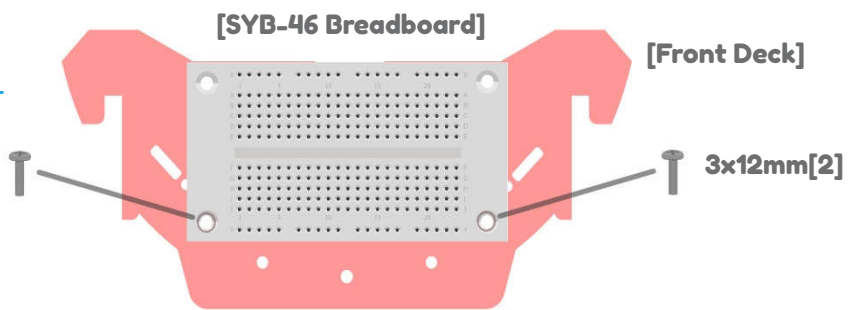
Place the Roller Ball inside of it.



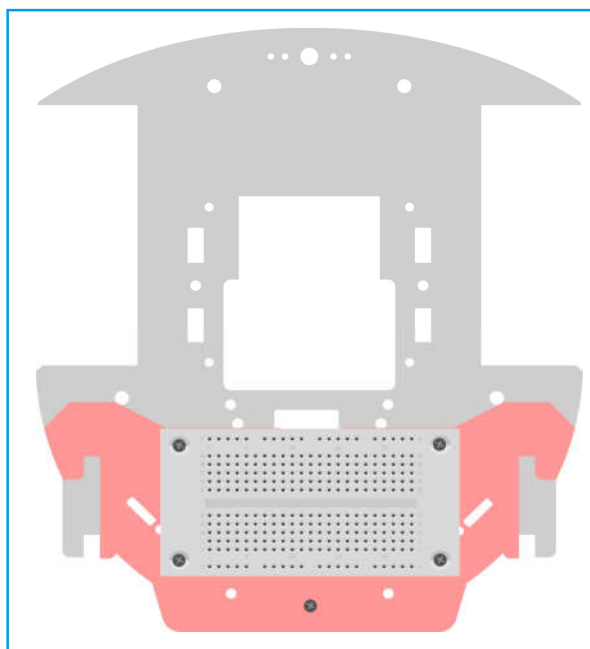
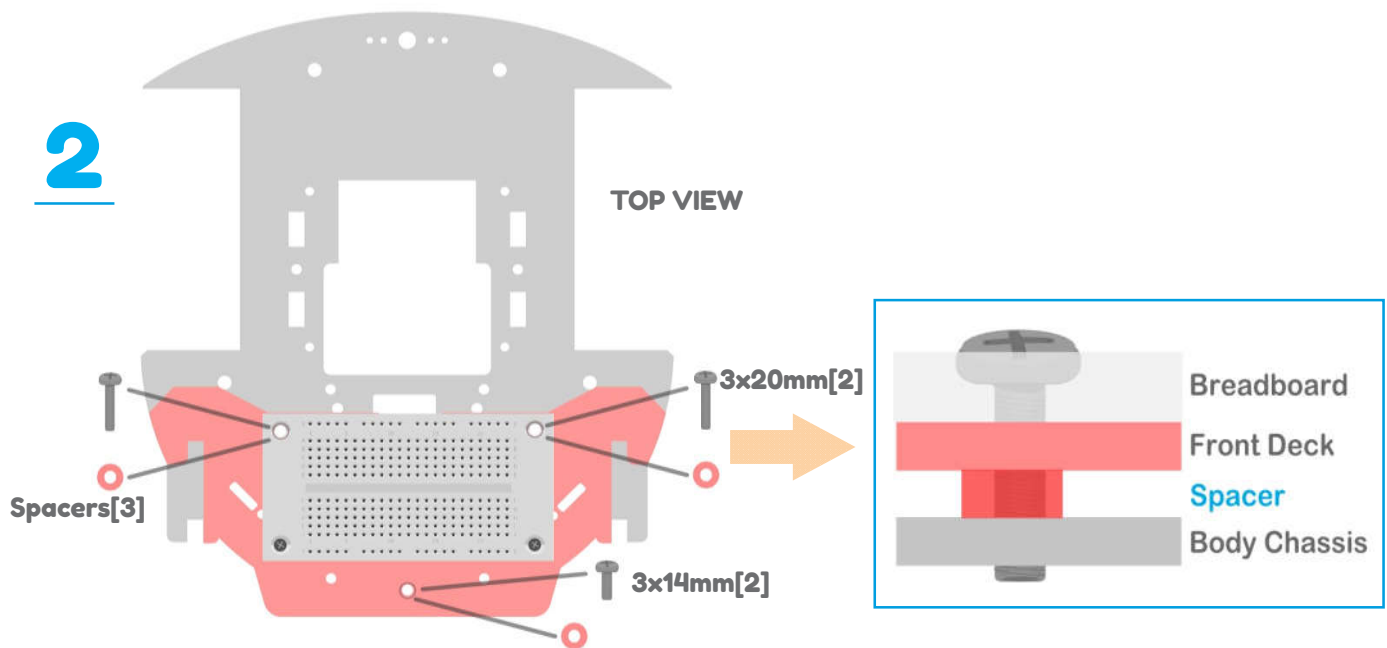
The Roller ball should look like this.

SECOND STEP: Placing the breadboard

1



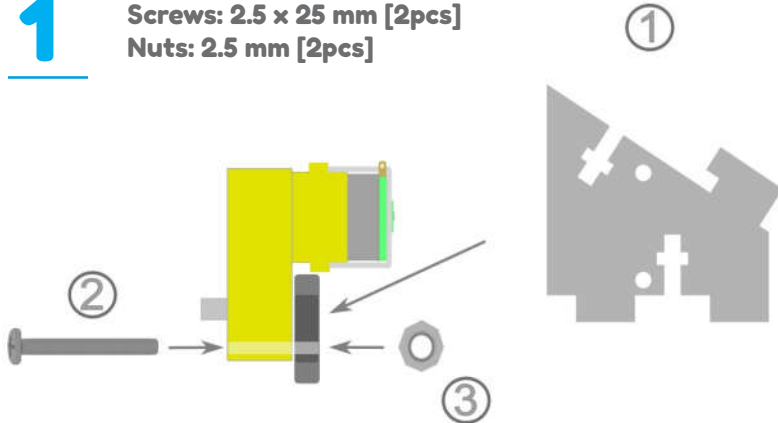
2



THIRD STEP: Constructing the Motors

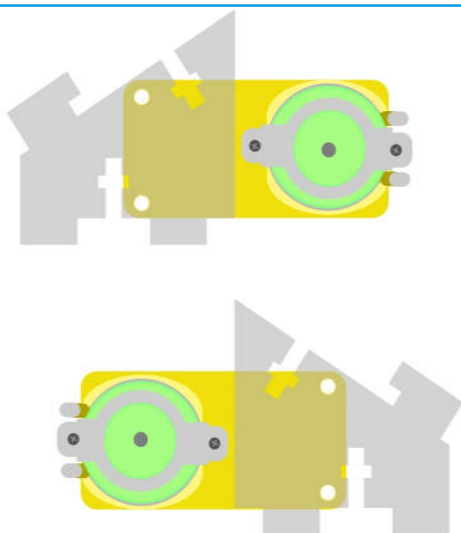
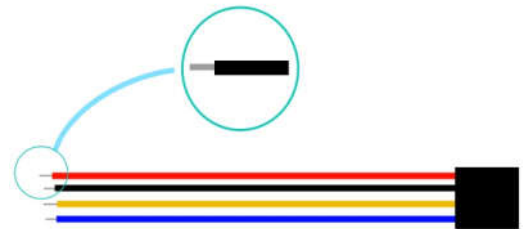
1

Screws: 2.5 x 25 mm [2pcs]
Nuts: 2.5 mm [2pcs]



3

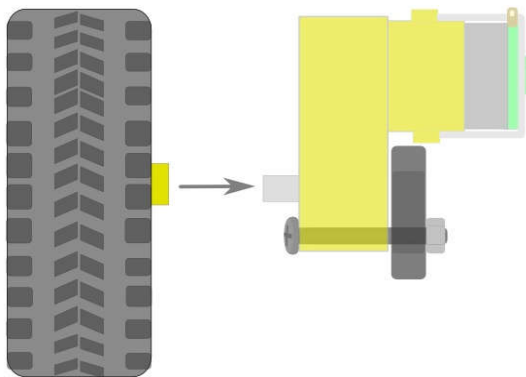
Strips the wires



Orentation of two motor holder.

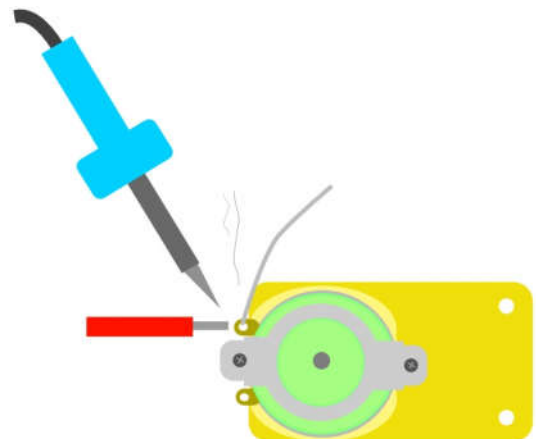
2

Connect the Wheel.



4

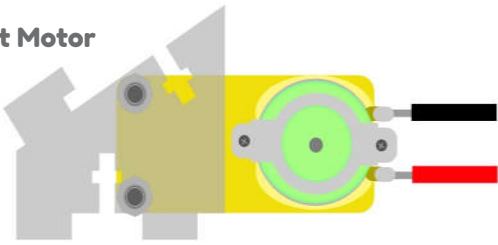
Solder the wires to the motor pins



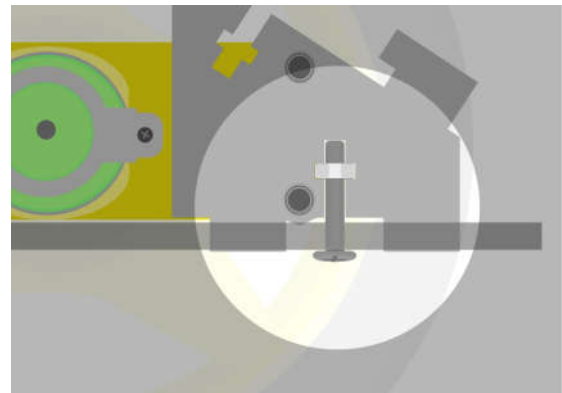
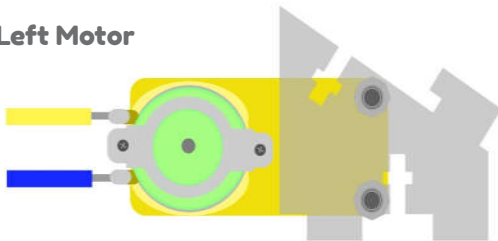
FOURTH STEP: Placing the Motors

Wiring Connections for Motors

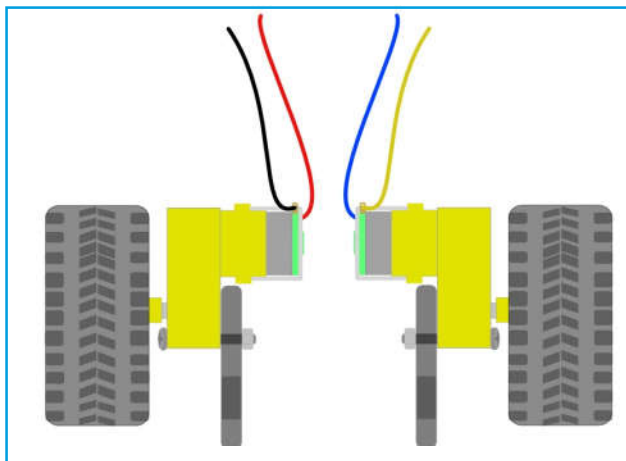
Right Motor



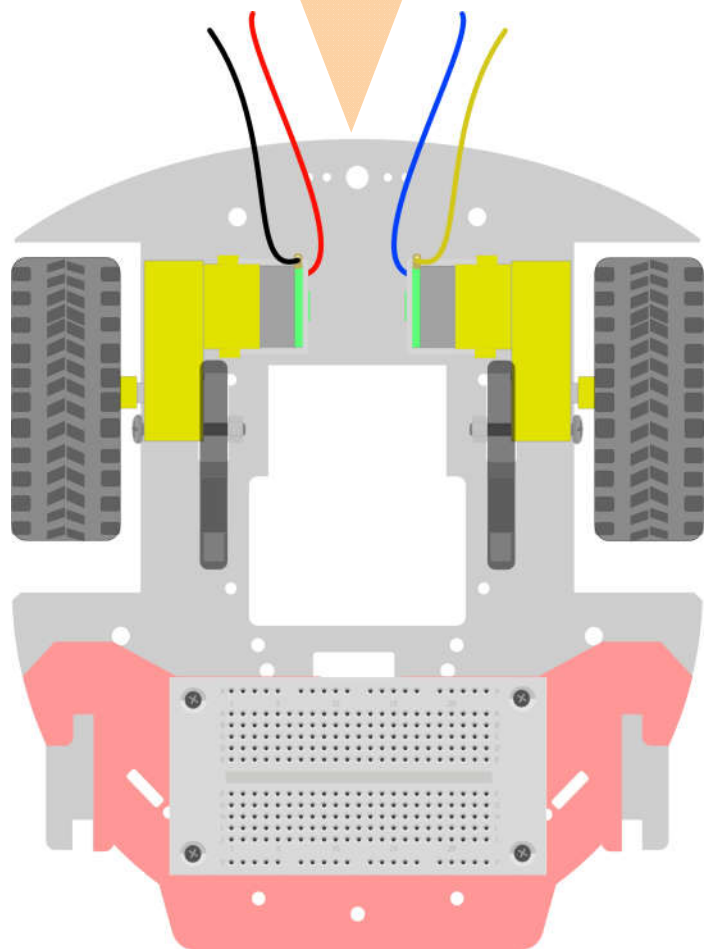
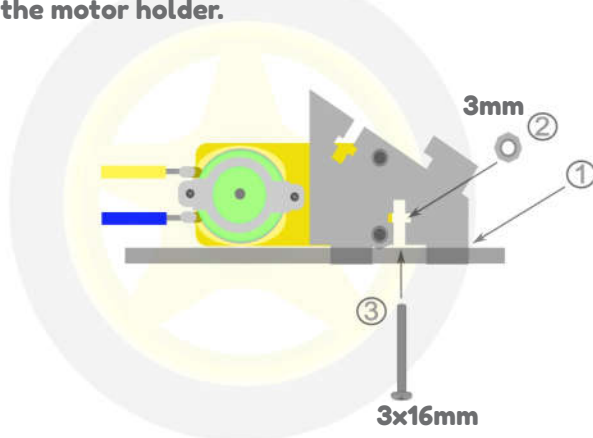
Left Motor



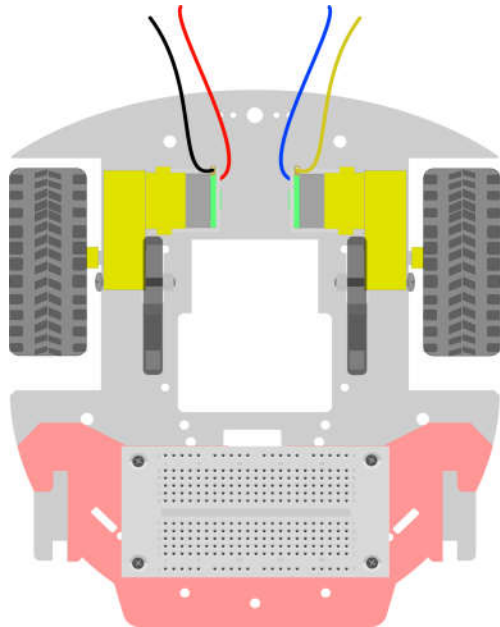
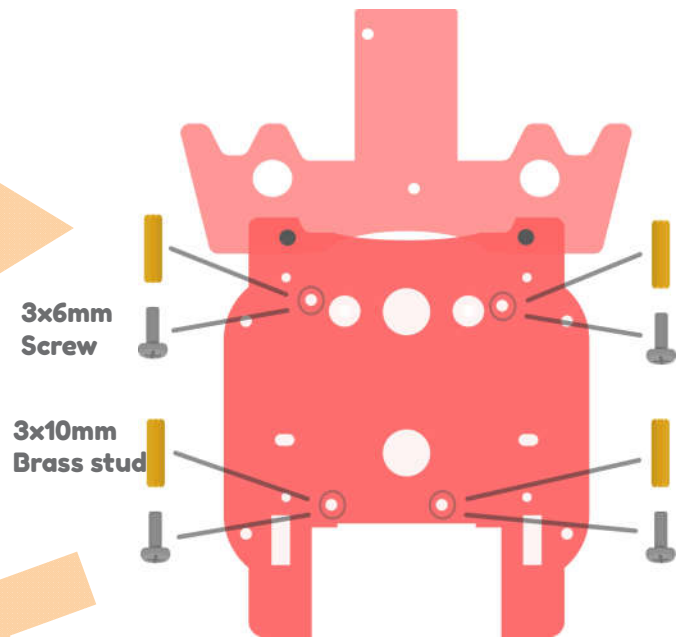
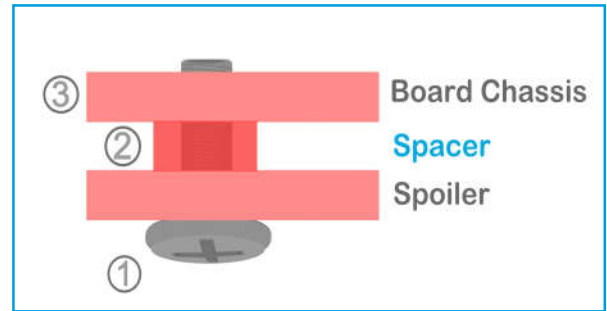
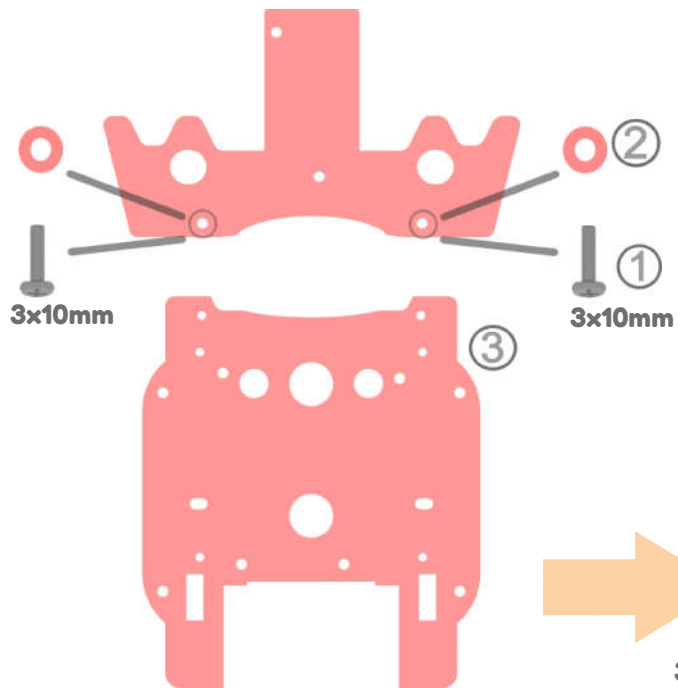
Place the two motor like this.



Apply the screws and nuts to support the motor holder.

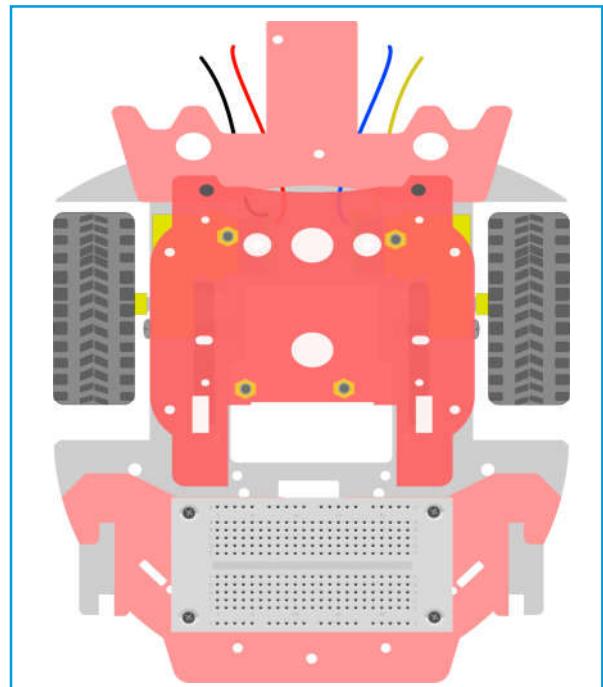


FIFTH STEP: The Board Chassis

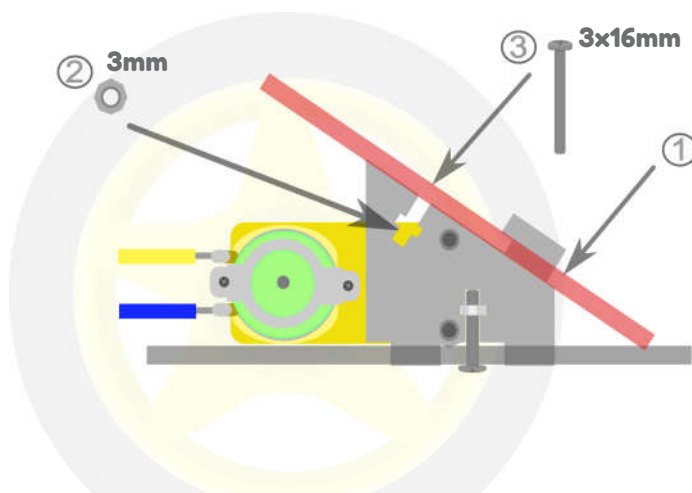
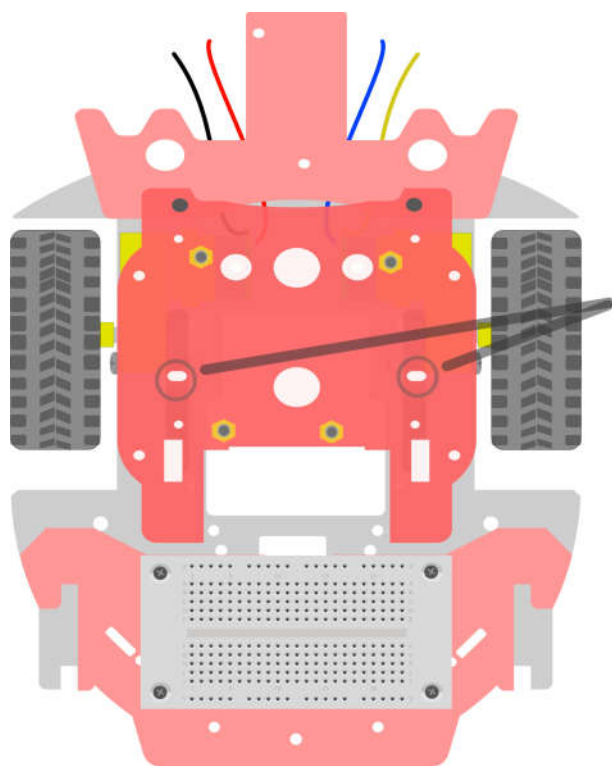


Place it on the top.

It should be like this.



SIXTH STEP: Placing the Upper Board and Battery holder



Place the upper board chassis, then add the screws and nuts to tighten it.

Placing the Battery Holder.

