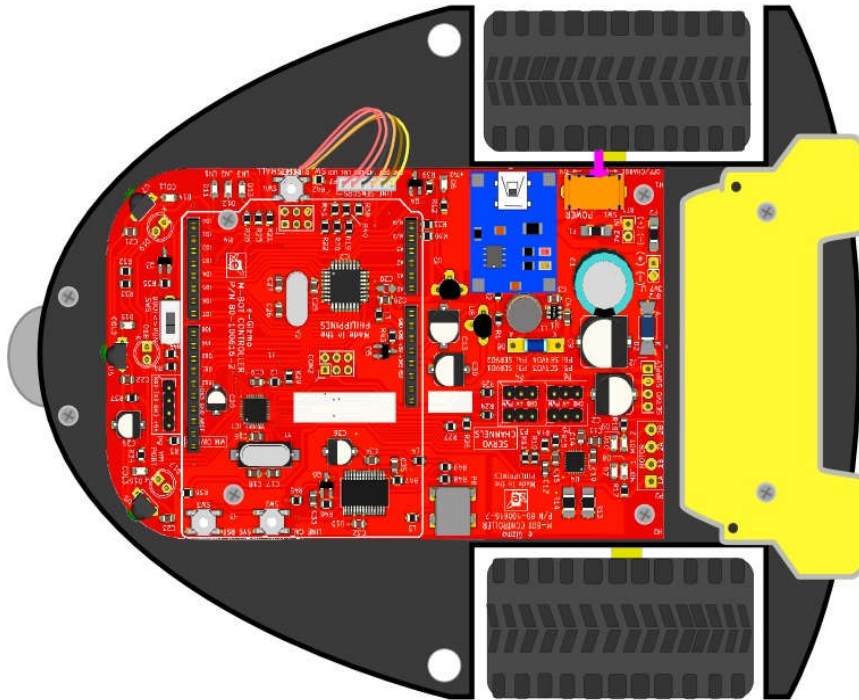


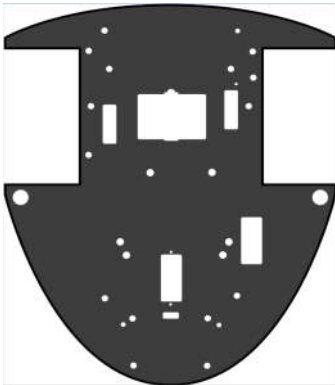
M-BOT Controller: Assembly Manual An Entry Level Mobile Robot



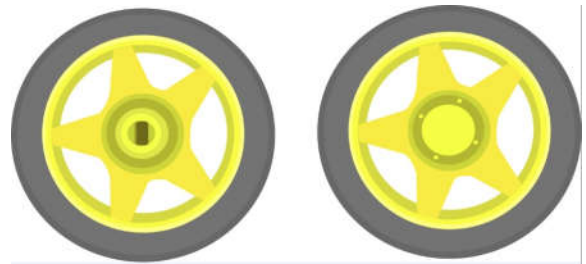
Proudly Made in the Philippines

MATERIALS:

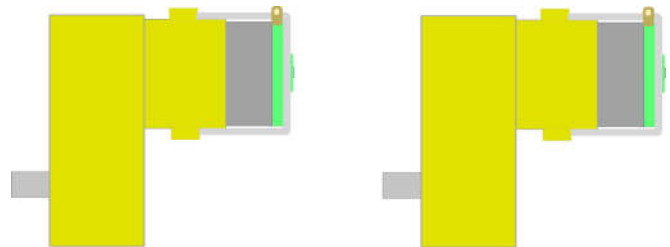
CHASSIS



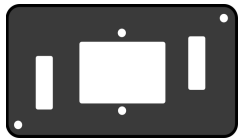
WHEELS [2 pcs]



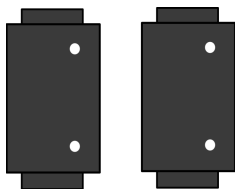
6V DC MOTORS [2 pcs]



MOTOR AND BATTERY HOLDER



MOTOR BRACKET [2pcs]



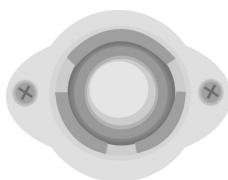
WIRES [4pcs]



BATTERY HOLDER



ROLLER BALL



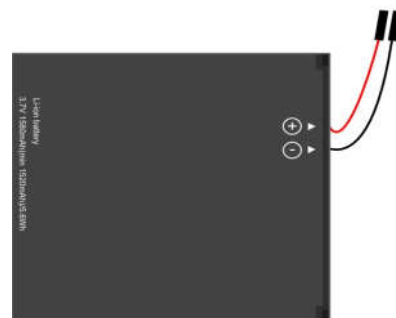
SPOILER



SPACER [2pcs]

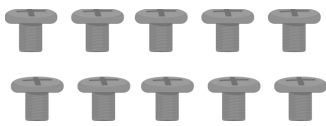


3.7V Li-ON BATTERY



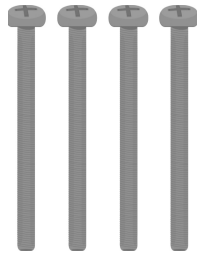
MATERIALS:

3 x 6 mm [10 pcs]

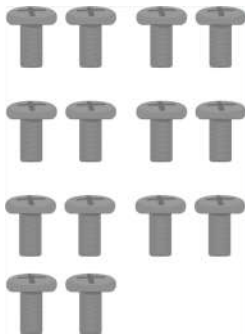


SCREWS

2.5 x 25 mm [4 pcs]

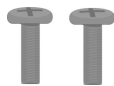


3 x 8 mm [14 pcs]

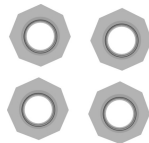


NUTS

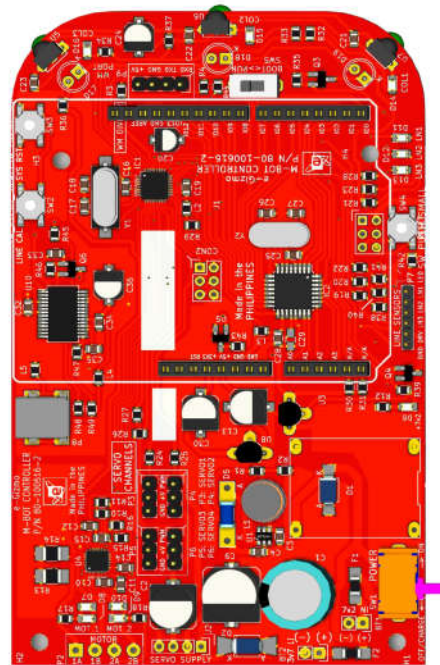
3 x 10 mm [2 pcs]



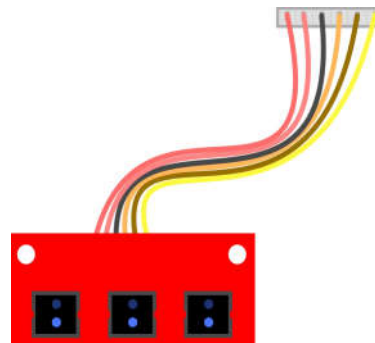
2.5mm [4 pcs]



MBOT CONTROLLER BOARD



3-CHANNEL LINE SENSOR

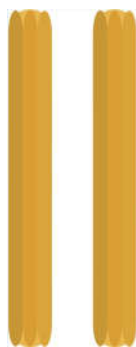


3 x 13 mm [4 pcs]

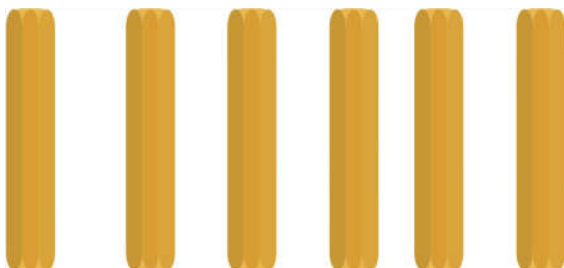


BRASS STUDS

3 x 35 mm [2 pcs]



3 x 25 mm [6 pcs]



USB CABLE TYPE A TO MINI B [OPTIONAL]

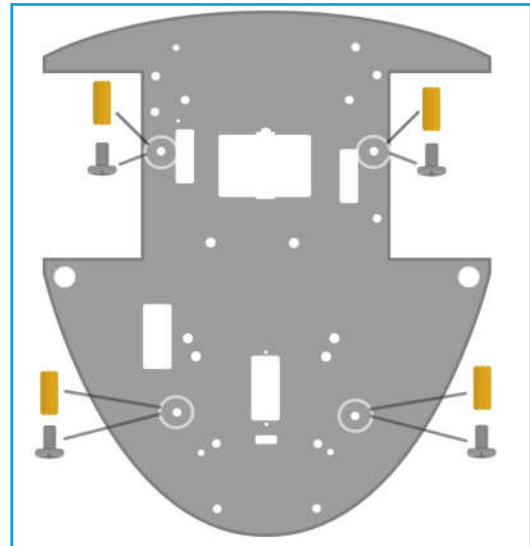
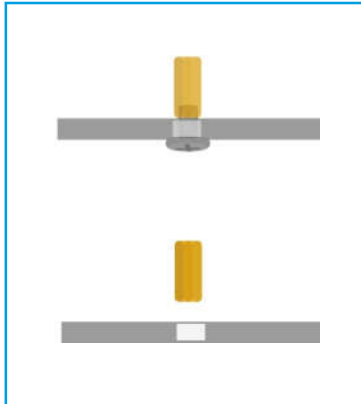
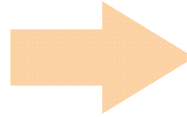


FIRST STEP: THE BODY

1

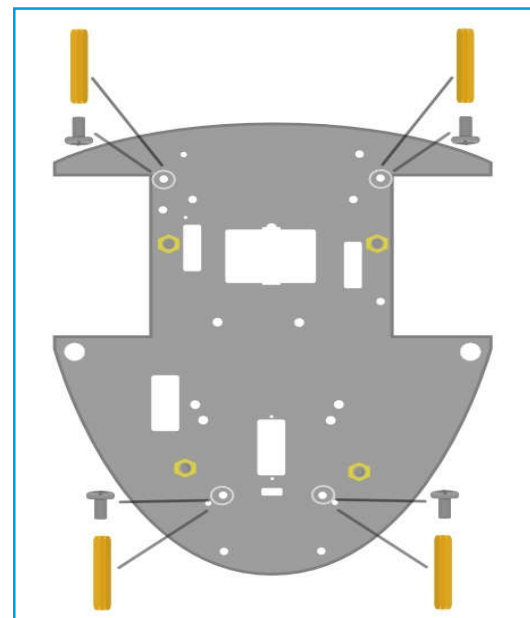
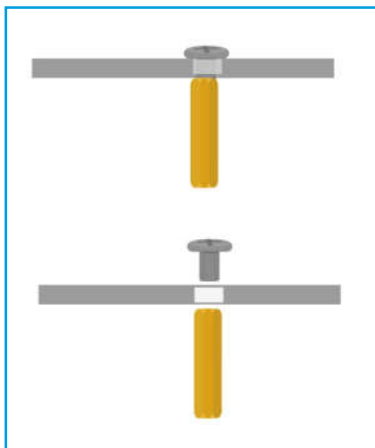
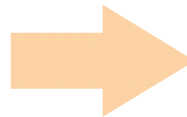
Chassis: Acrylic body
Screws: 3 x 6 mm [4pcs]
Brass Studs: 3 x 13 mm [4pcs]

TOP VIEW



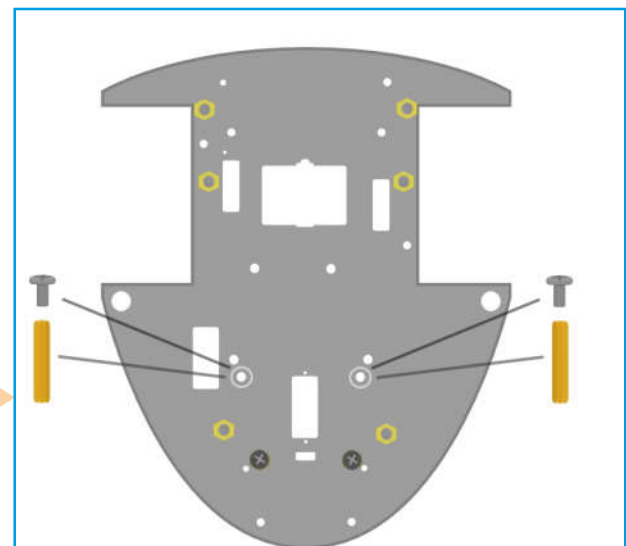
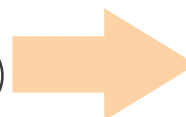
2

Screws: 3 x 6 mm [4pcs]
Brass Studs: 3 x 25 mm [4pcs]



3

Screws: 3 x 6 mm [2pcs]
Brass Studs: 3 x 35 mm [2pcs]

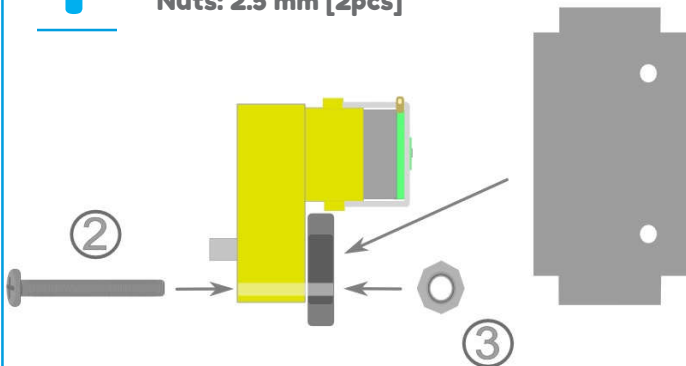


SECOND STEP: Constructing the Motors

1

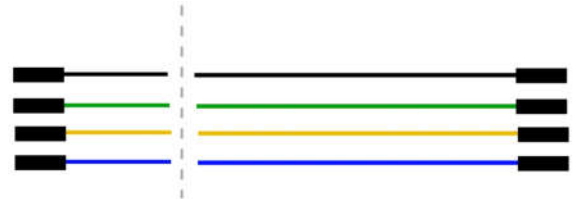
Screws: 2.5 x 25 mm [2pcs]
Nuts: 2.5 mm [2pcs]

①



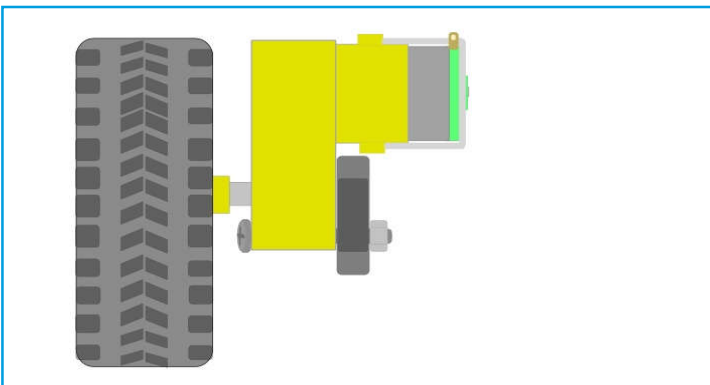
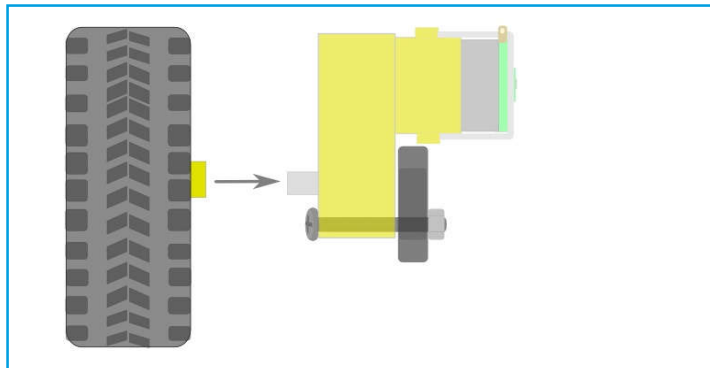
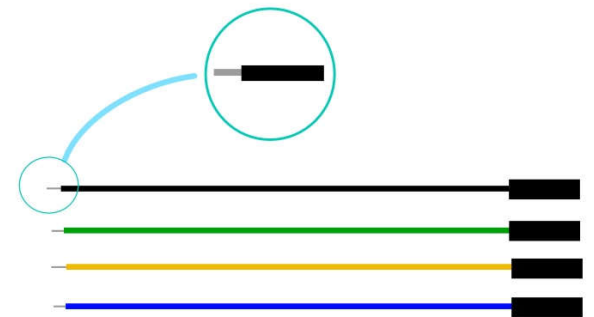
2

Cut the Wires



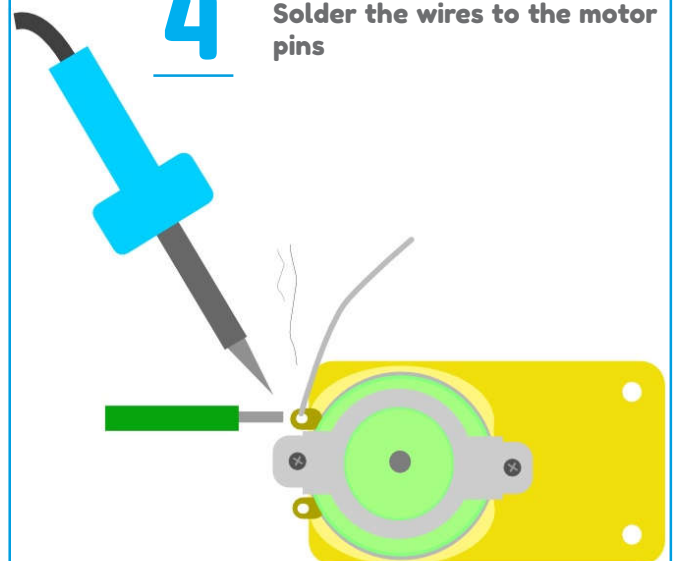
3

Strips the wires



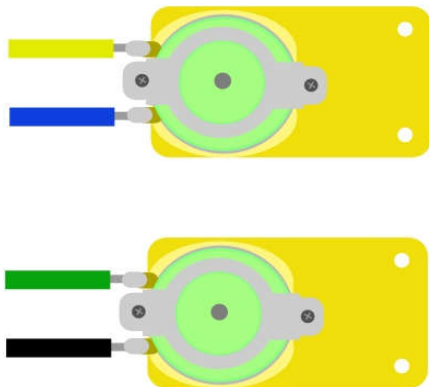
4

Solder the wires to the motor pins



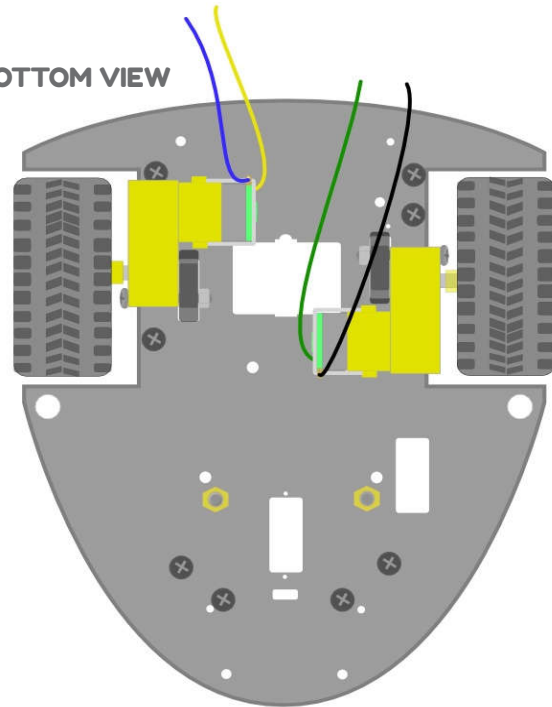
THIRD STEP: Placing the Motors

Wiring Connections for Motors

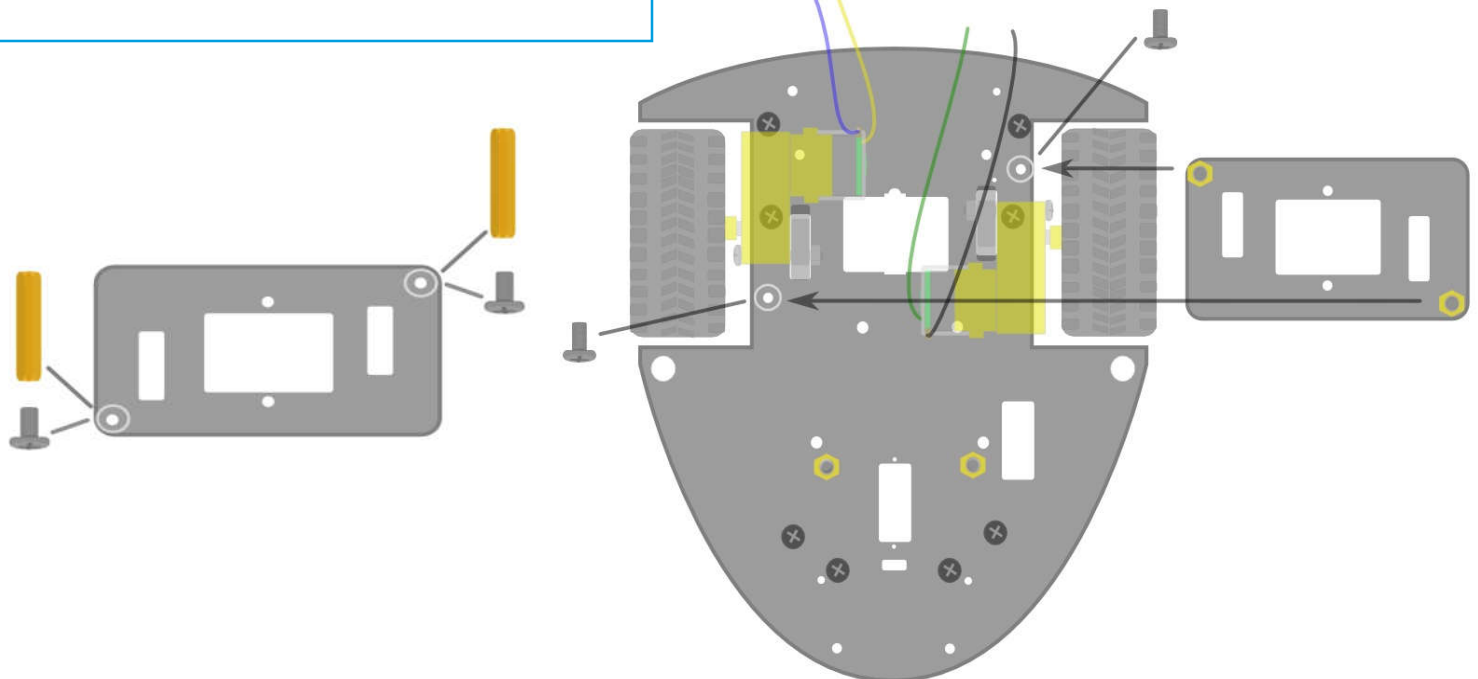


1 Attach the motors like this

BOTTOM VIEW



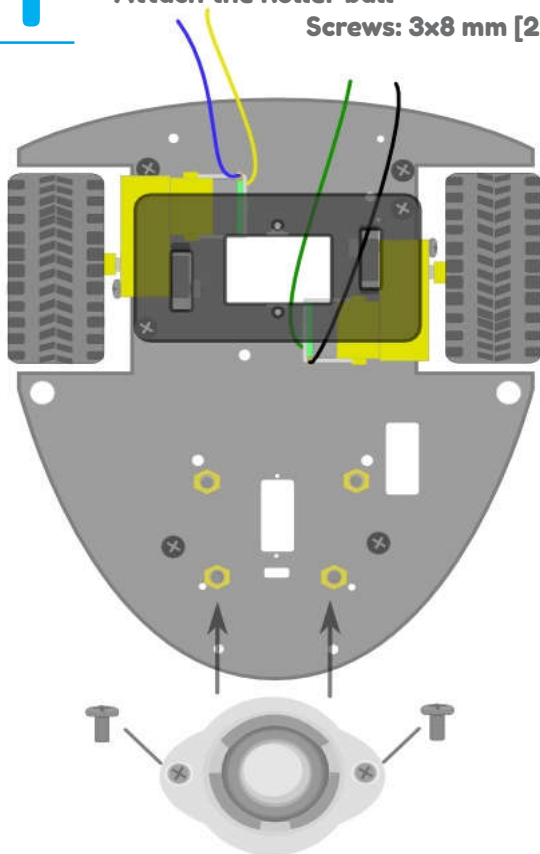
2 Connect the Motor holder



FOURTH STEP: Placing the Roller ball, Line sensor, Battery Lock & Spoiler

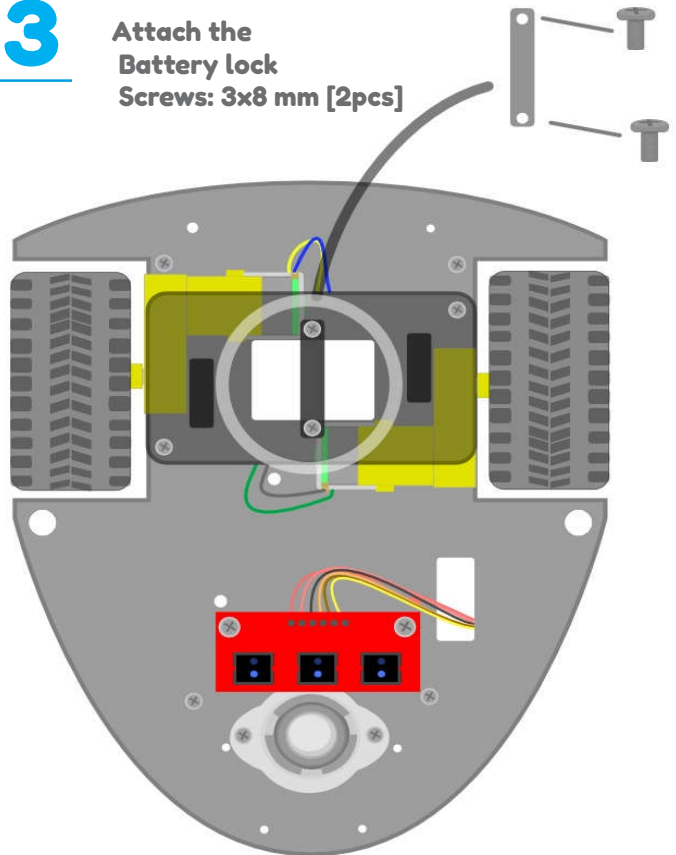
1

Attach the Roller ball
Screws: 3x8 mm [2pcs]



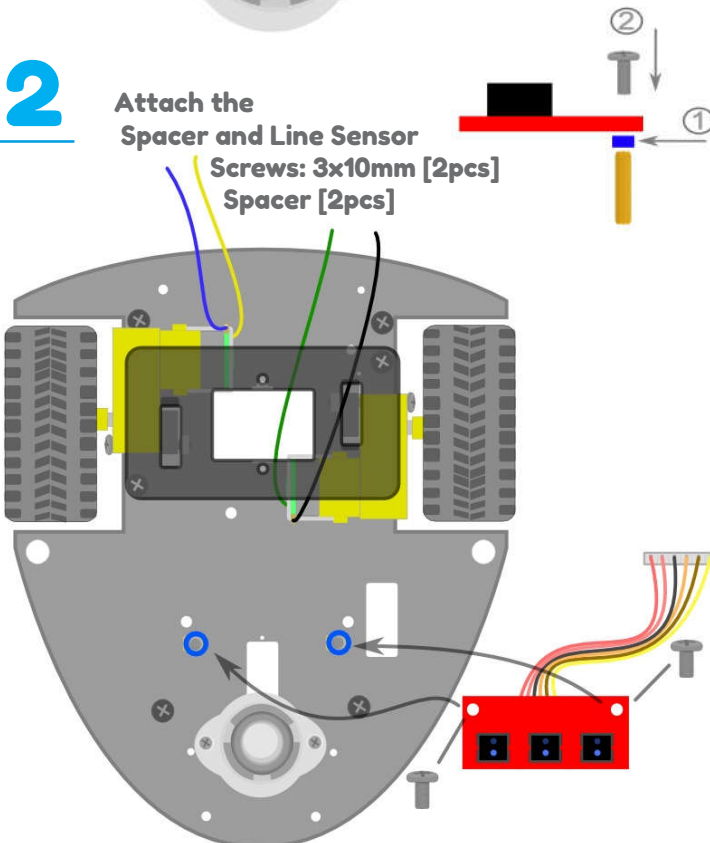
3

Attach the Battery lock
Screws: 3x8 mm [2pcs]



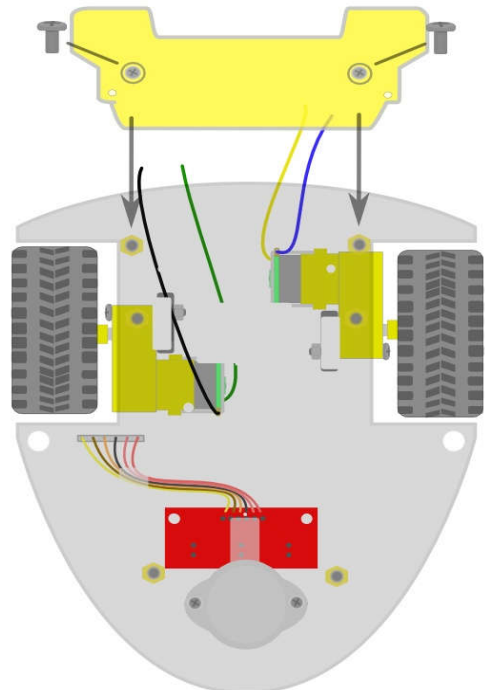
2

Attach the Spacer and Line Sensor
Screws: 3x10mm [2pcs]
Spacer [2pcs]

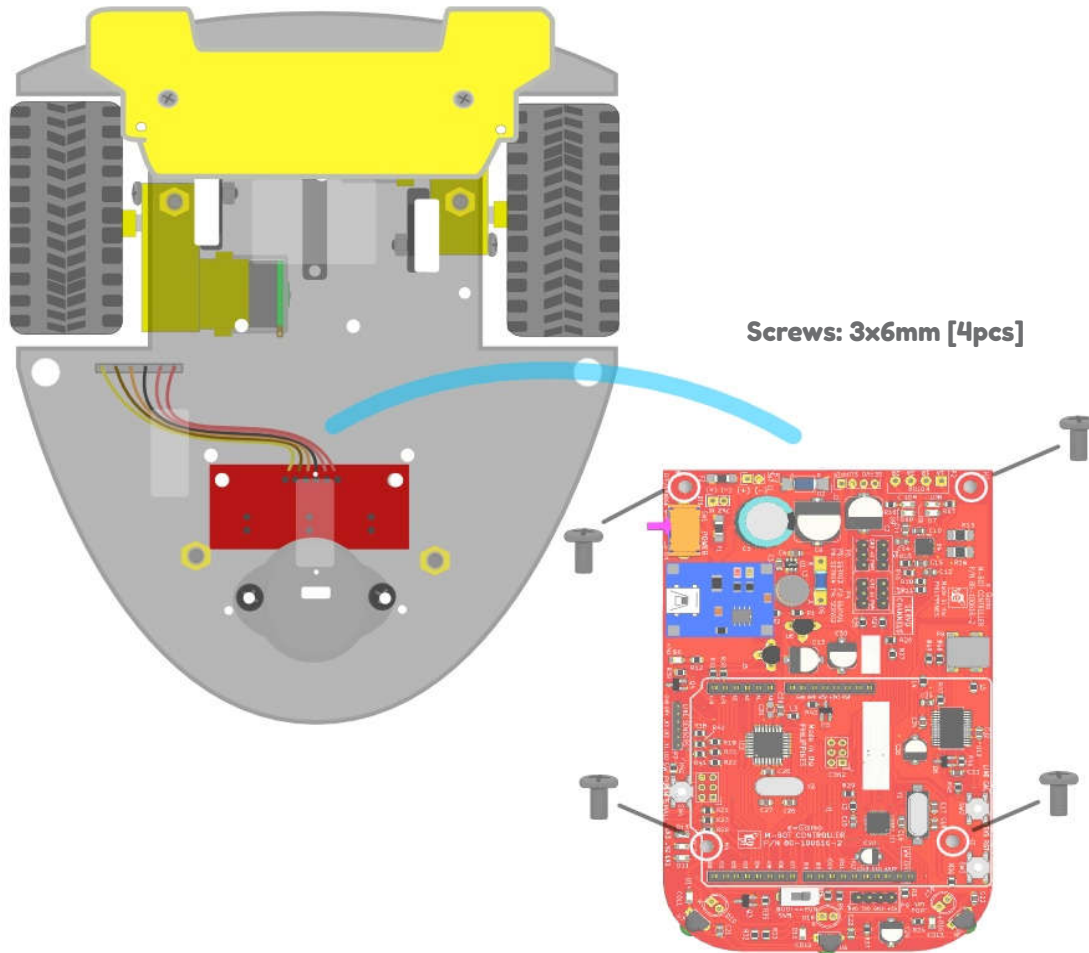


4

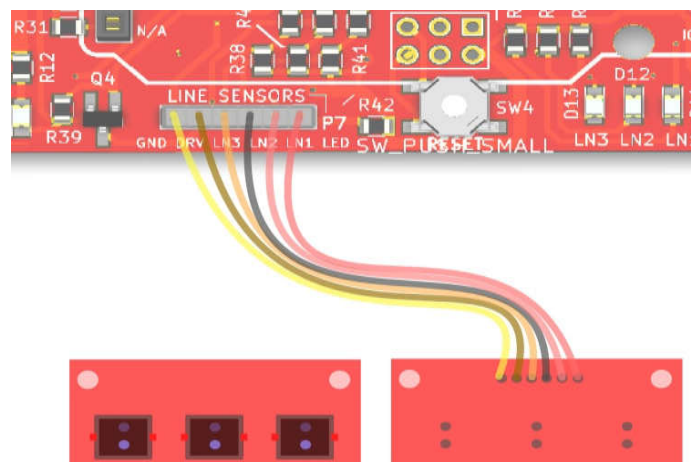
Attach the Spoiler
Screws: 3x8mm [2pcs]



FIFTH STEP: The Controller board and Line sensor



Line sensor Connections



SIXTH STEP: Motor Connections

