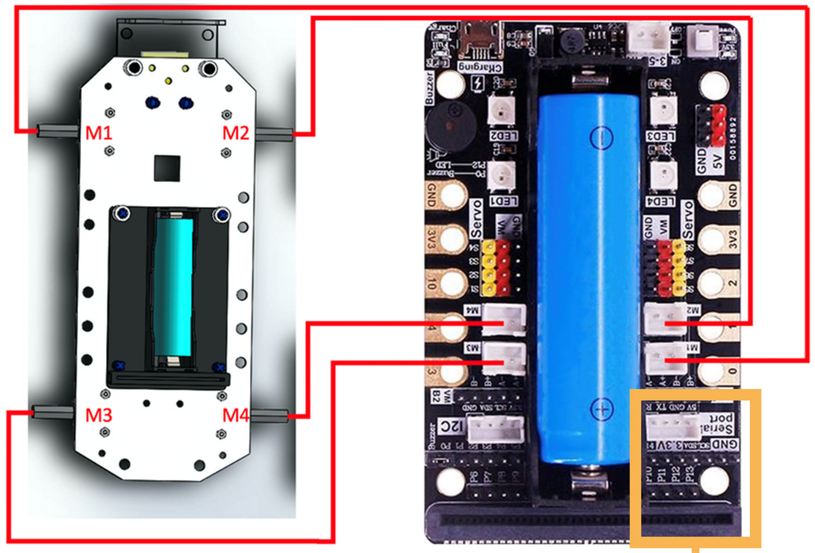
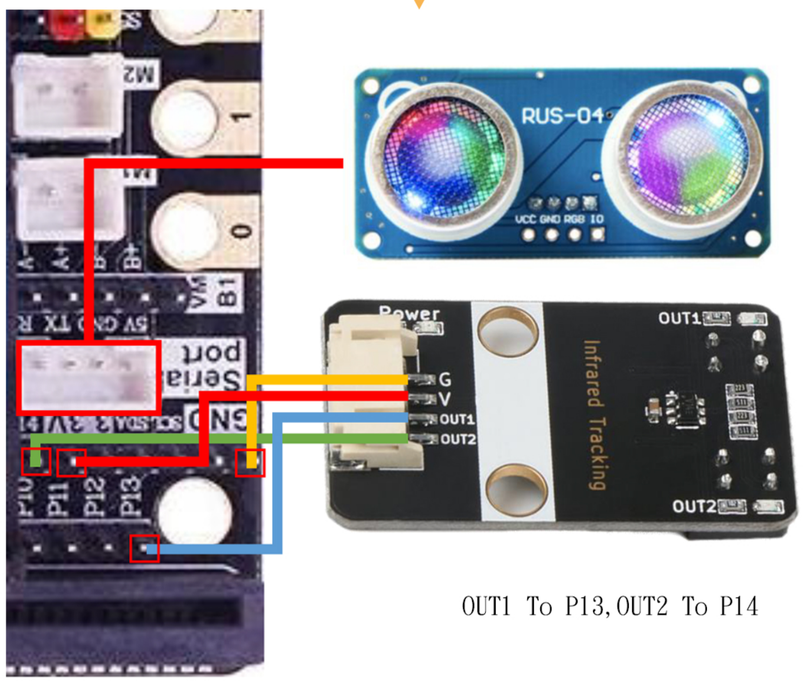


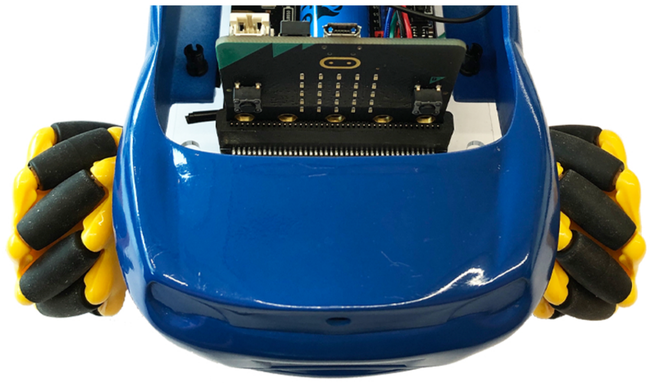
Above figure shows the motor wire connection diagram
P.S. : Each motor wire's slot position are fixed.

Below figure shows the line tracking sensor and ultrasonic module's connection diagram.



OUT1 To P13, OUT2 To P14

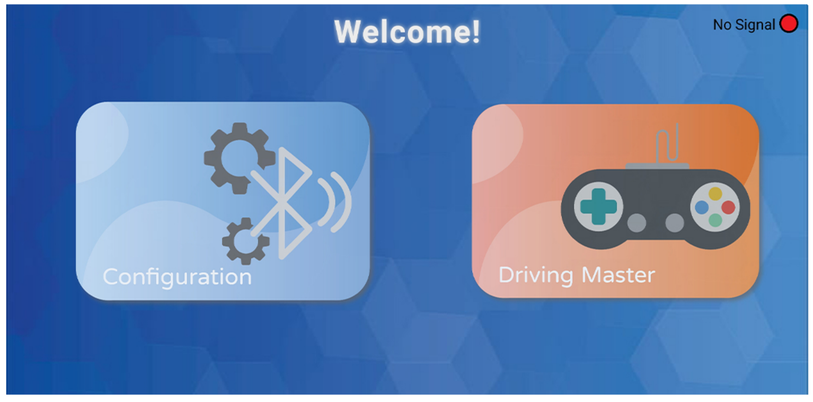
Plug in the Micro:bit according to this figure.

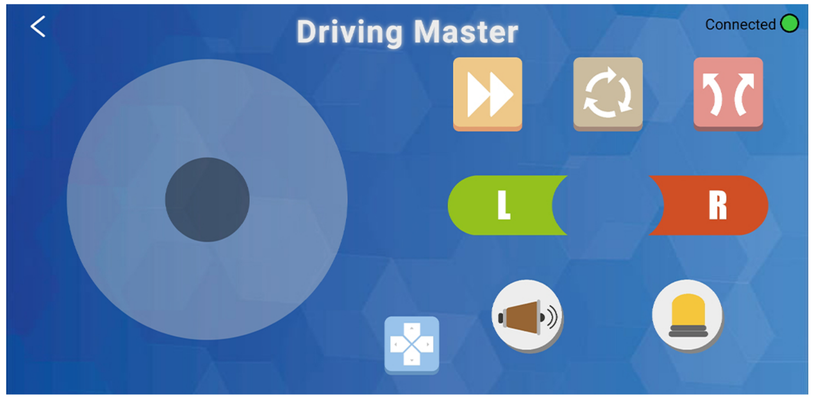


About the App

Use the QR code at the right or visit
https://www.stemhub.com/ml-car-manual
to download the program file for the car.
Please make sure the Micro:bit is same version as the program file you are using. Please find details for using the app on the website.

After download "Stemhub Car" app into your device, follow the guidelines on our website and enjoy the car!

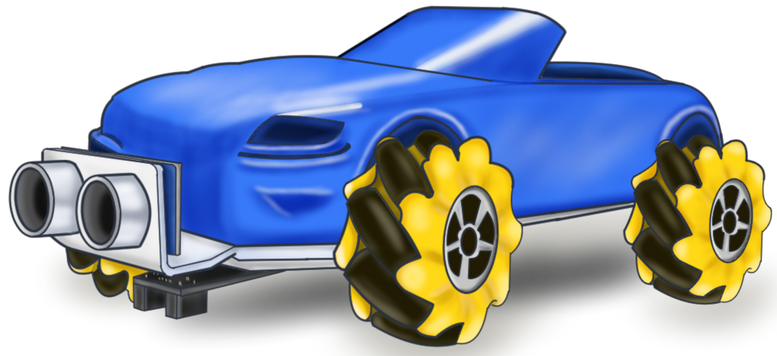




STEMHub

Micro:bit M1 Car

User Manual

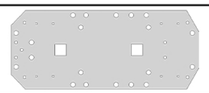
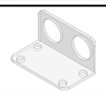
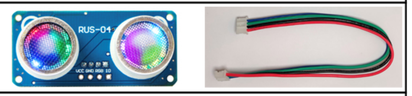
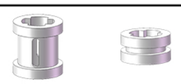
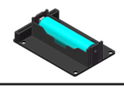
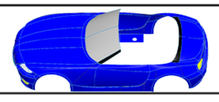


Android App

IOS App

Website: www.stemhub.com
Email: info@stemhub.com

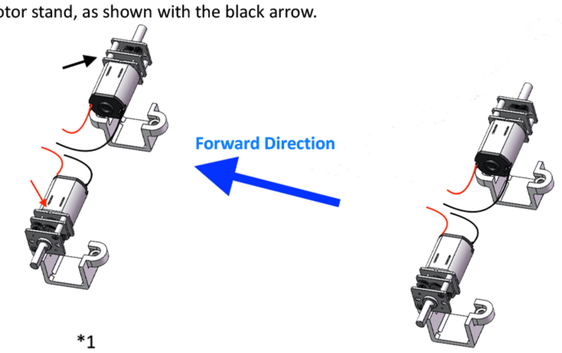
List of Components

Acrylic Board*1	
Motor*4	
Motor Stand*4	
Screwdriver*1	
Ultrasonic Module Stand*1	
RGB Ultrasonic Module*1 RGB Ultrasonic Module Cable*1	
M2*10mm screw*8 M2 nut*8	
Lego Plug(Cross)*6	
Logo Plug(Short)*2	
Logo Plug*6	
Lego Cross Sleeve*2 Lego Cross Sleeve(Short)*2	
Nylon Tube 5*7*2mm *2 Nylon Tube 5*7*4mm *4 Nylon Tube 5*7*7mm *2	
Lego Connector *12	
Line Tracking Sensor*1 Line Tracking Sensor Cable*1	
Screw*4	
Mini Cross Wrench*1	
Smart Robot Shield*1 Lithium Battery*1	
Mecanum Wheel*4	
Car Body Shell*1	

1

Motor *4
Motor Stand *4

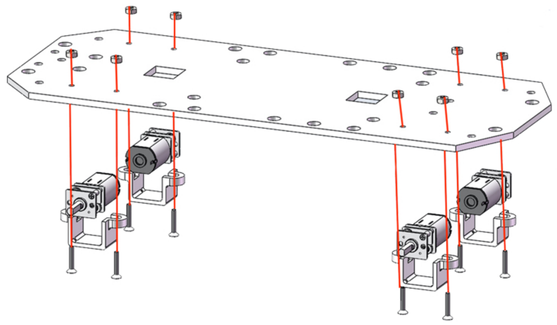
P.S. : The groove of the motors should face upwards, as shown with red arrow. The blue arrow indicates the direction the car faces, red wires should connect to motors at the head side of the car, while black wires connect to the back side. The metal plate of the motor should align with the motor stand, as shown with the black arrow.



2

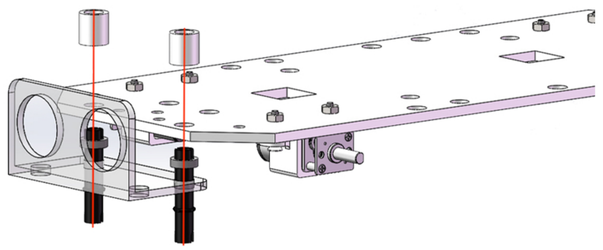
Acrylic Board *1
Motor and Motor Stand *8
M2*10mm Screw *8
M2 Nut *8

Tool：Screwdriver



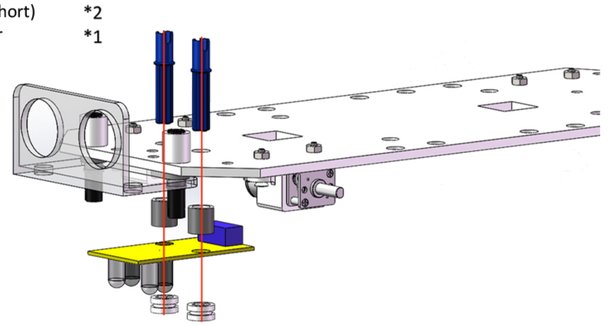
3

Nylon Tube 5*7*2mm *2
Lego Connector *2
Lego Plug *2
Ultrasonic Module Stand *1



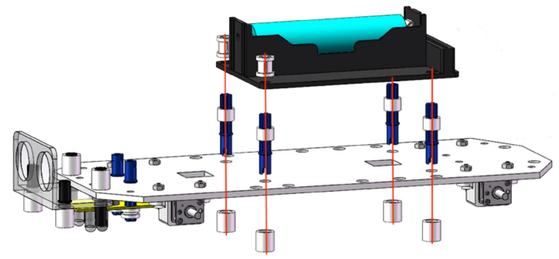
4

Lego Plug(Cross) *2
Nylon Tube 5*7*7mm *2
Lego Cross Sleeve(Short) *2
Line Tracking Sensor *1



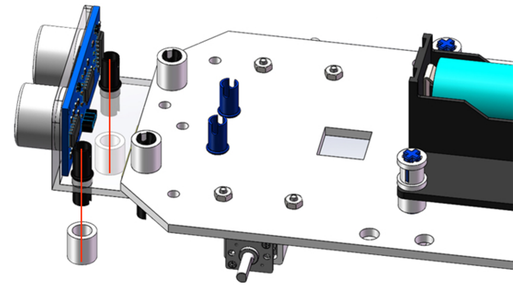
5

Smart Robot Shield *1
Lithium Battery *1
Lego Plug(Cross) *4
Nylon Tube 5*7*4mm *4
Lego Cross Sleeve *2
Lego Connector *4



6

RGB Ultrasonic Module *1
Lego Plug(Short) *2
Lego Connector *2

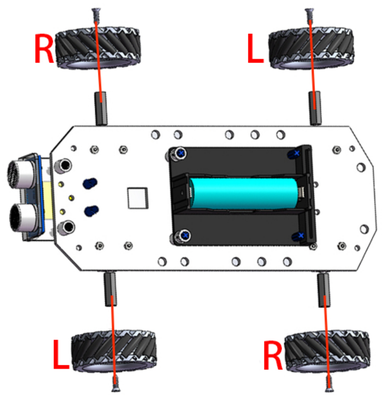


7

Plastic Coupling *4
Mecanum Wheel *4
Screw *4

Tool：Screwdriver

1. Press the Coupling into the motor shaft.
2. Install the mecanum wheels, be aware of the direction of the wheels.
3. Tighten the screws。



8

Lego Plug *4
Lego Connector *4
Car Body Shell *1

1. Insert the lego plug into holes of the car body shell from above.
2. Align the four holes of the car body shell with the four holes on the two sides of the acrylic board.