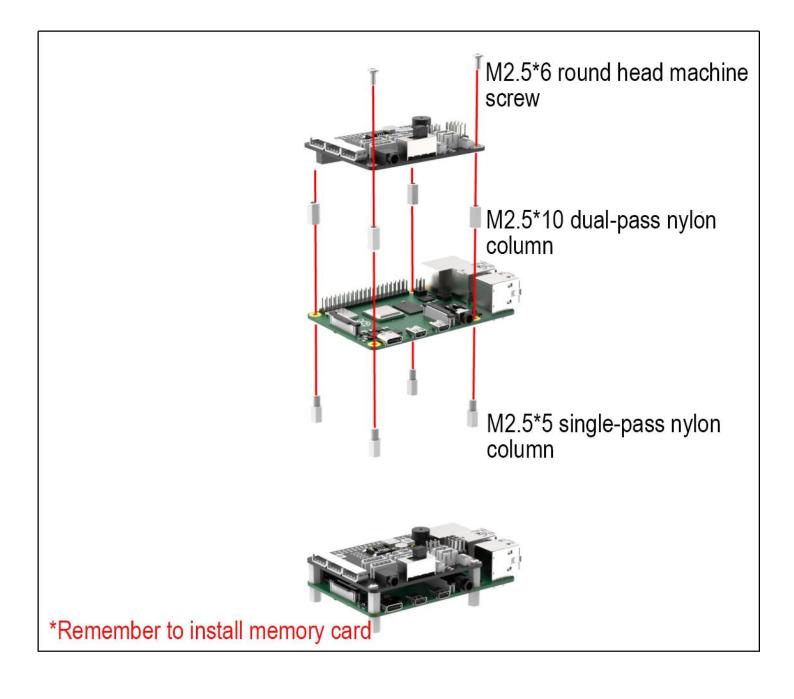
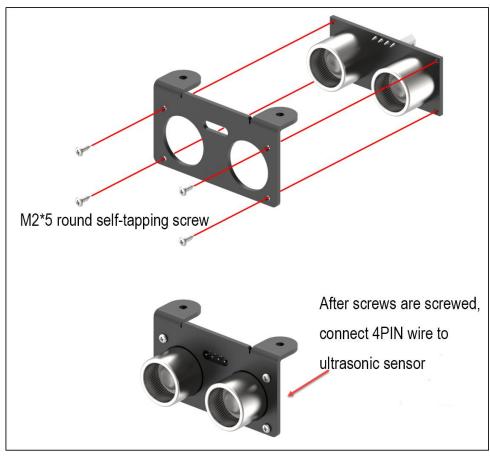
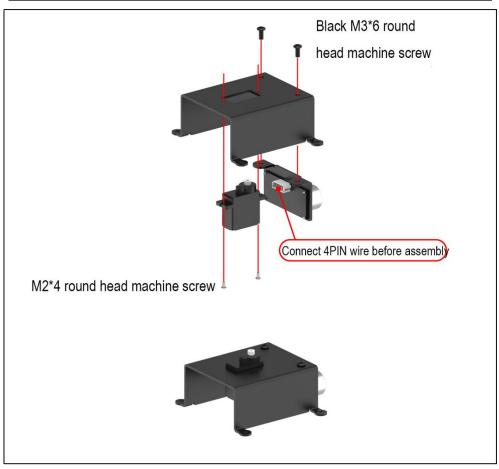
# Lesson 3 Assembling the TurboPI Bush Robot Car

#### 1A. Assembling the rPI Board & Expansion Board

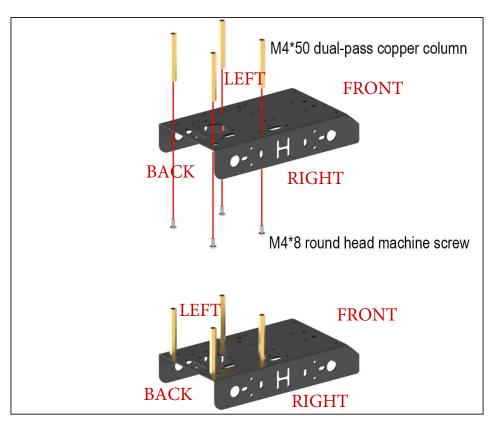


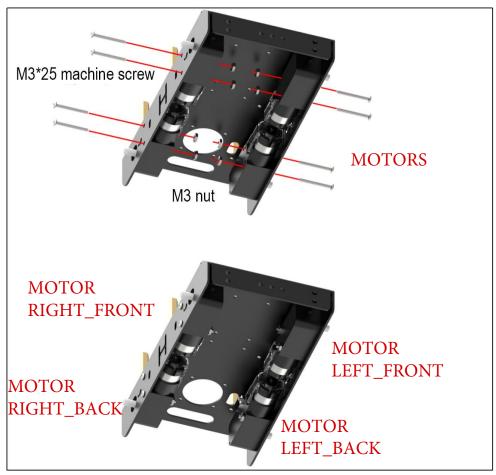
# 1B. Assembling the Ultrasonic Sensor & Servo Motor





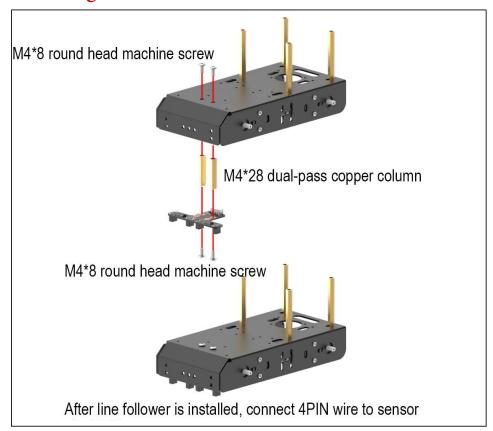
#### 2A Assembling the TurboPI Chassis Motors & Line Follower



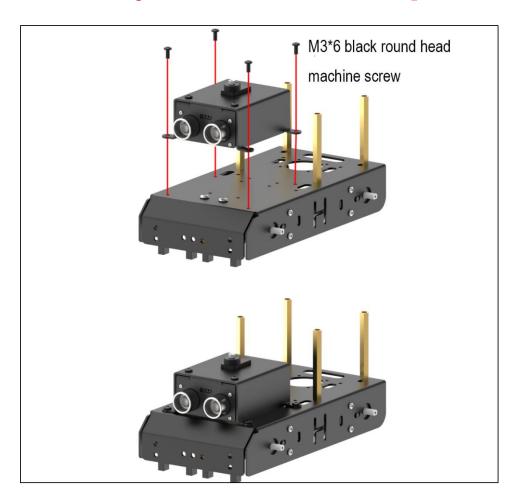


Label & Install the Motors as indicated. Feed connectors through the rectangular slot on the chassis to the top. Be very careful on this step with the orientations and positions of motors.

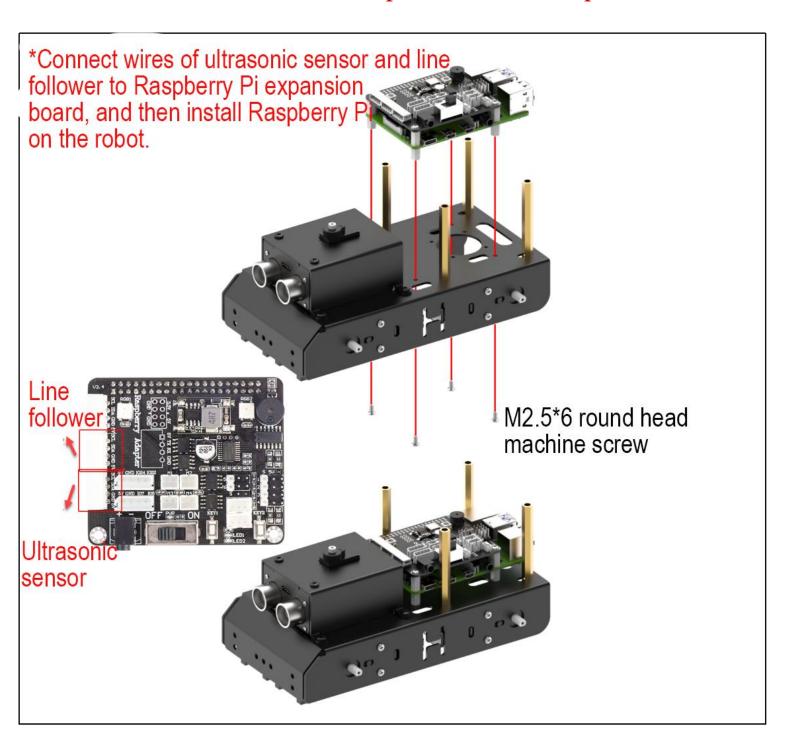
#### 2B Assembling the Line Follower sensor underneath the Chassis



#### 2C Assembling the Ultrasonic sensor on top of the Chassis

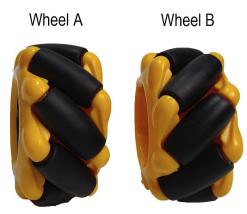


#### 3. Install the assembled computer boards on top of the Chassis

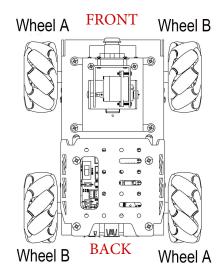


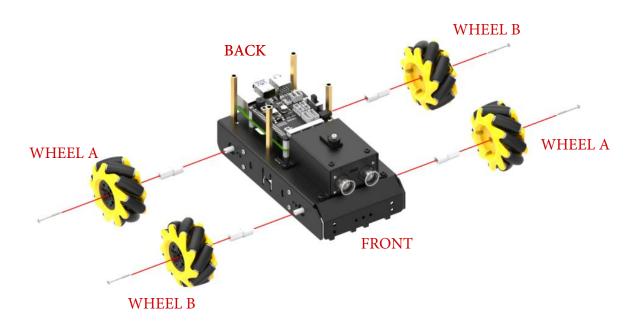
#### 4A. Install the Mecanum wheels on the Chassis





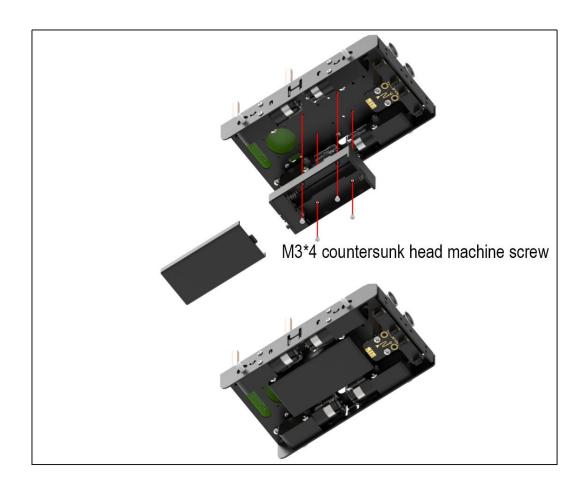
Wheel A and Wheel B are distinguished by the angular orientation of the diagonal rollers. Be very careful in choosing the correct wheel for the respective motors as shown







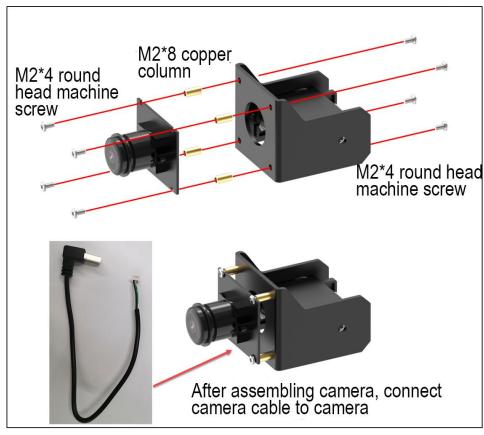
## 4B. Install the Battery case on the bottom on the Chassis



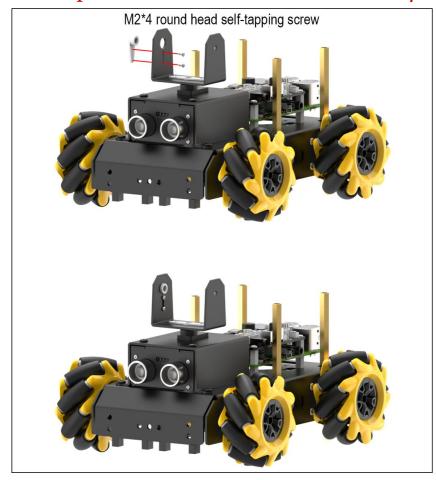
WE ARE NOW READY FOR THE ROBOT CAR LOCOMOTION TESTING. FOLLOW INSTRUCTIONS ON WEBSITE AND JUPYTER NOTEBOOKS

## 5. Build the Camera Assembly





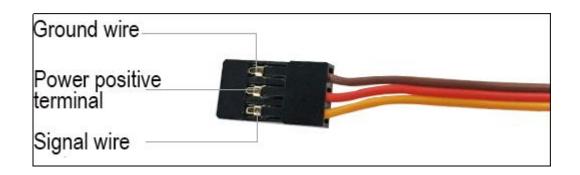
# 6. Install on top of the Ultrasonic Sensor assembly from before

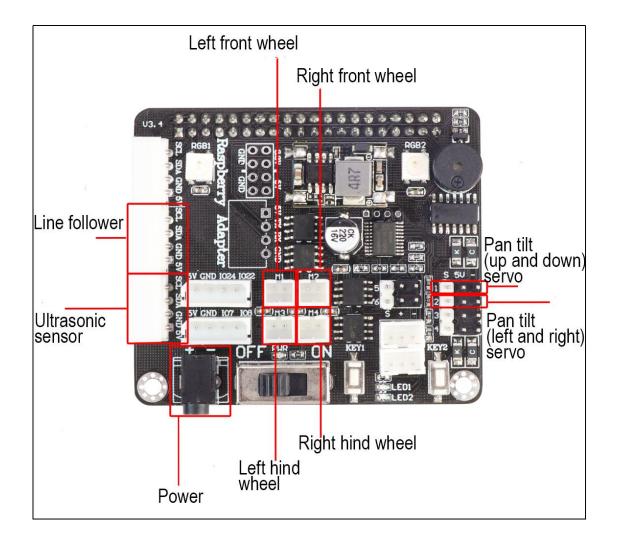


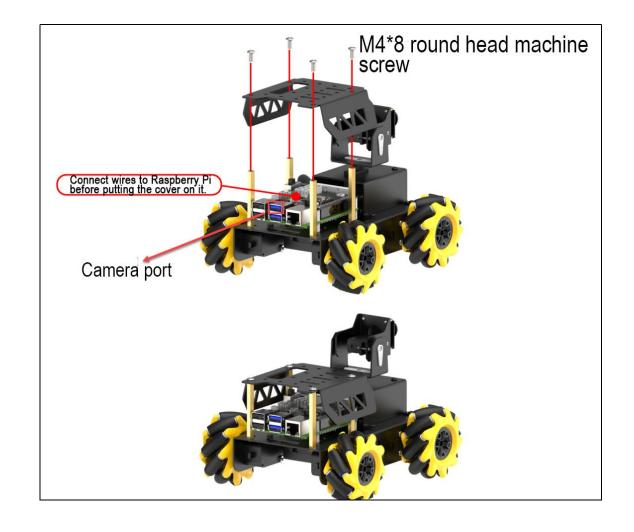


#### 7. Connect Motor & Camera Servo wires & install cover

BE EXTRA CAREFUL ON THIS STEP. THE MOTOR CONNECTORS ARE HARD TO REMOVE. SO YOU NEED TO DO THE CORRECTLY THE FIRST TIME. ASK FOR VERIFICATION BEFORE YOU CONNECT!!!







SnooPI is ready for testing !!!

