

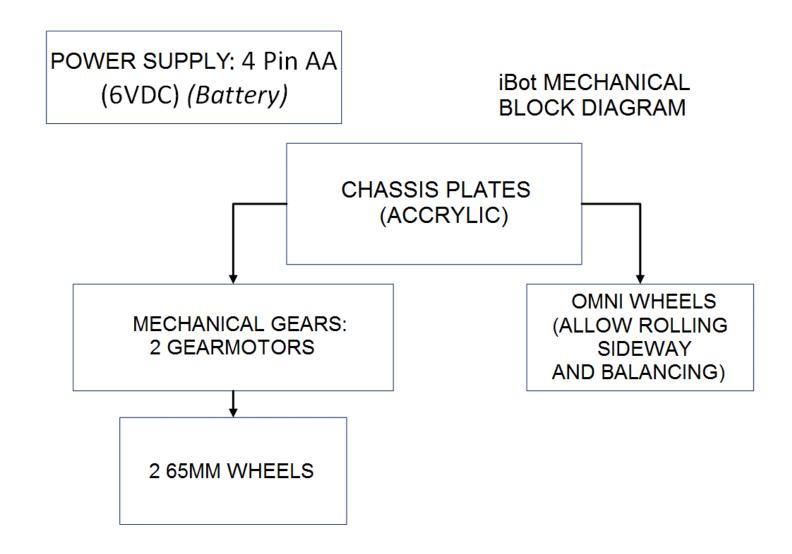
Ho Chi Minh City University of Technology Faculty of Electrical and Electronics Engineering

iBot Assembly Instructions



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Specifications

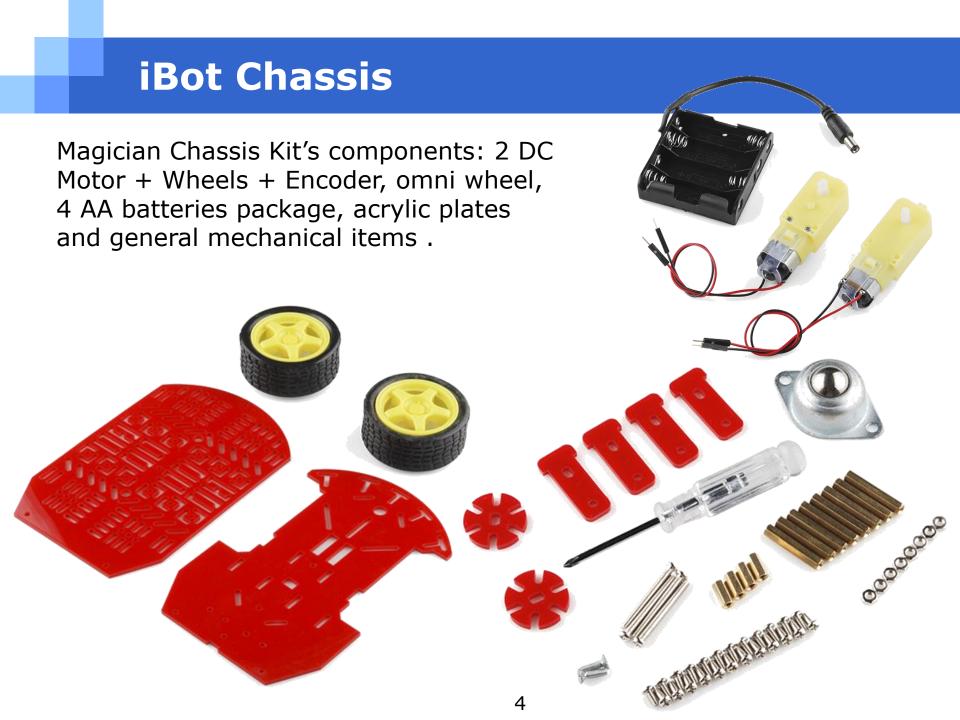


Specifications

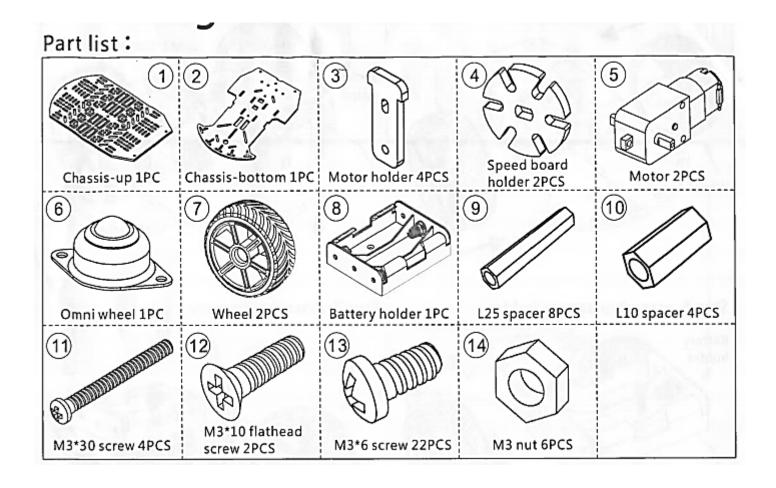
Measurement: 110 x 174mm

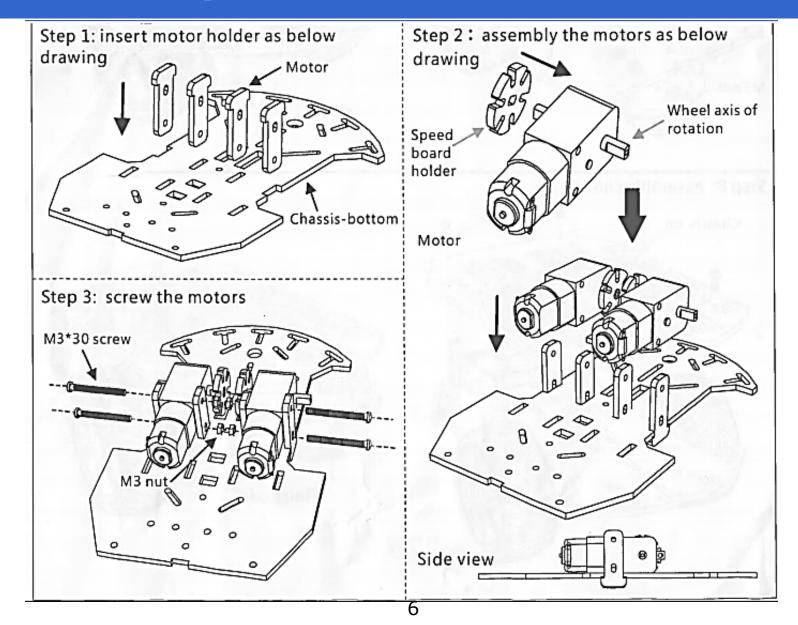
Technical specifications:

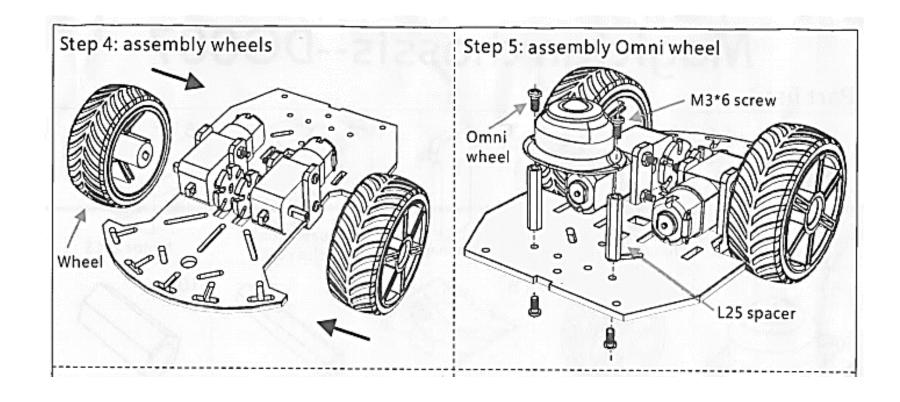
- Maximum voltage for motor: 6VDC
- No-load speed: 90±10rpm
- No-load current: 190mA (max.250mA)
- Torque: 800gf.cm
- Stall Current: ~1A
- Wheel diameter: 65mm (30mm Wide)



Magician Chassis Kit's components:



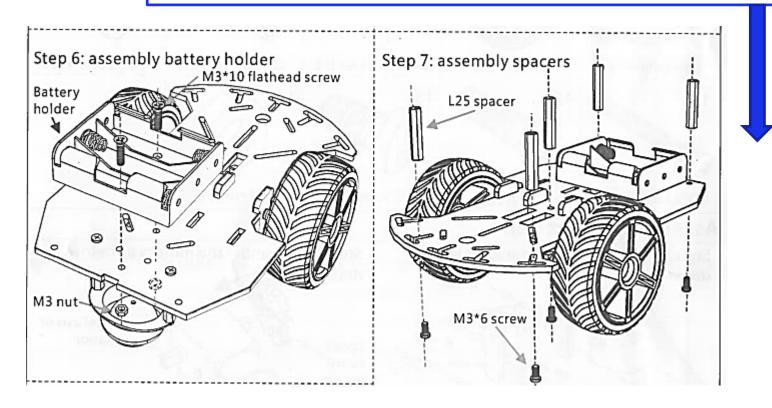


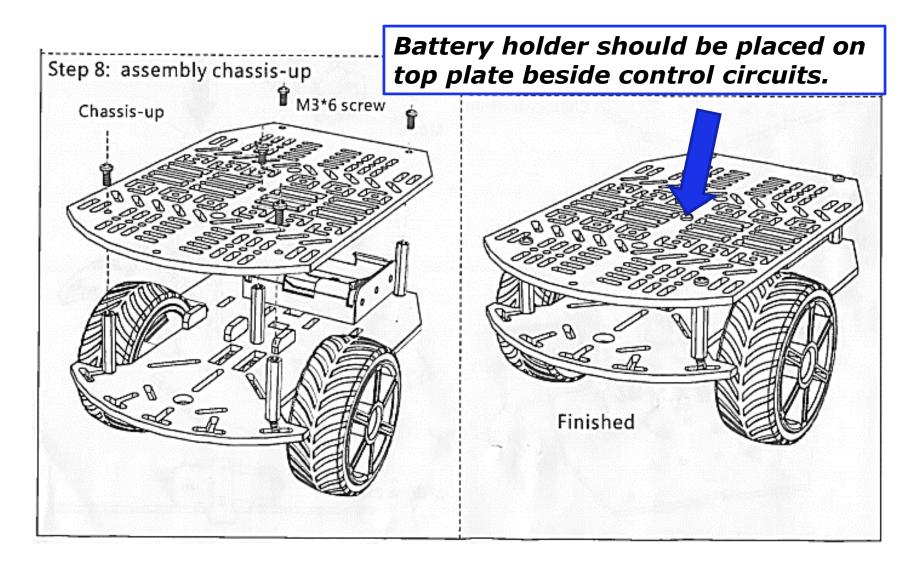


1st week target: Complete Step 5 (Assembly Omni wheel)

Note: Participants will not assembly the battery holder in Step 6 (The battery holder is placed on top plate for easy replacement).

Instead, Power Circuit (Motor Control Circuit–H-bridge) will be placed at that position.





iBot Completed!



iBot After Final Assembly!

Power circuit is placed between 2 plates, battery holder on top, connecting wires from battery to power circuit as in the image below



Note: in this image there is **a 10-wire signal bus** connecting the power circuit to control circuit that will be disconnected (in lab student will have to connect it to the circuit)

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