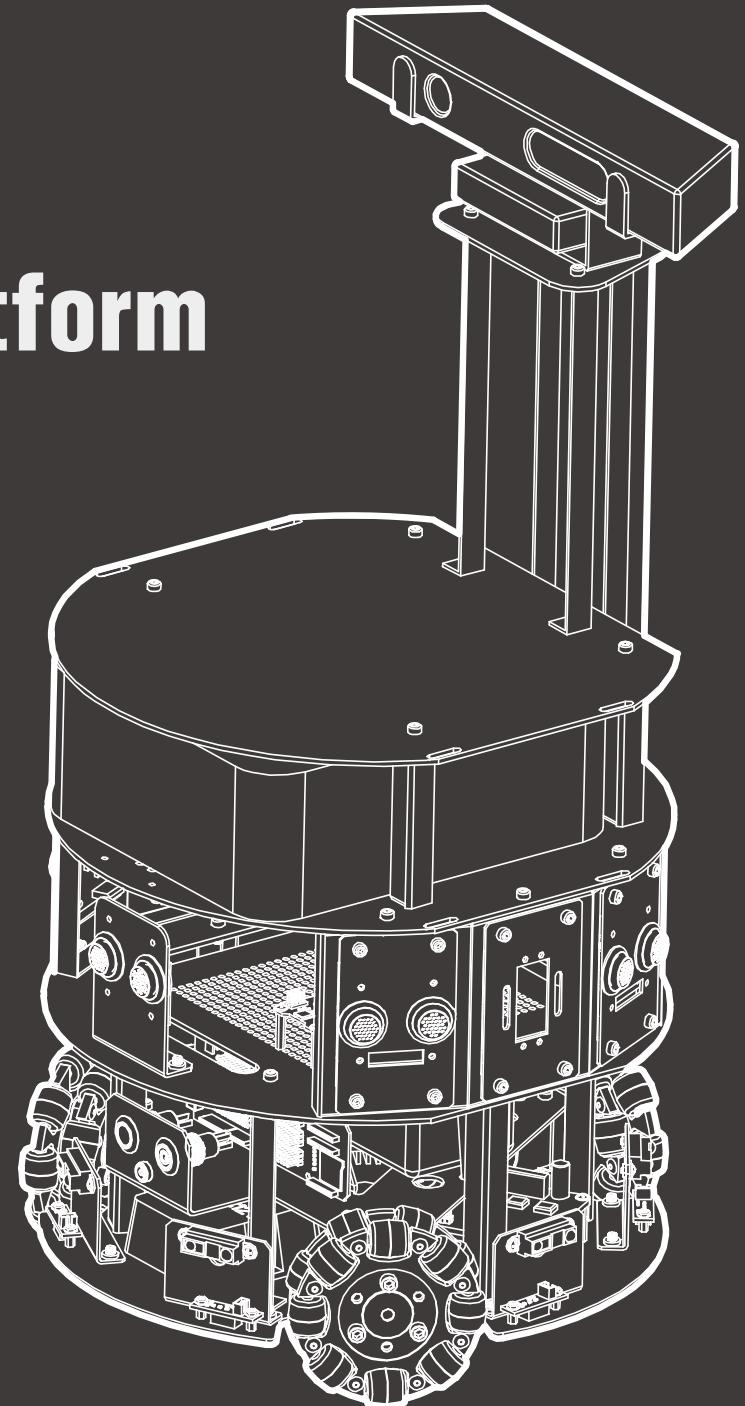
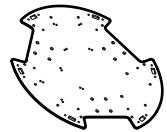


HCR-Mobile Robot Platform

(Omni-Directional)



Essential Parts



A1 x1



A2 x3



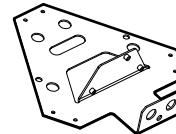
A3 x3



A4 x3



A5 x6



A6 x1



A7 x2



A8 x1



A9 x1



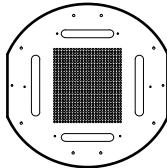
A10 x1



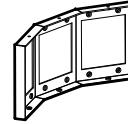
A11 x1



A12 x6



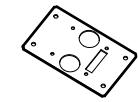
A13 x1



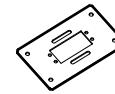
A14 x2



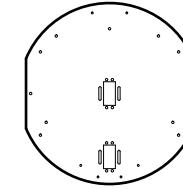
A15 x2



A16 x4



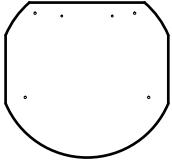
A17 x2



A18 x1



A19 x4



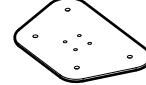
A20 x1



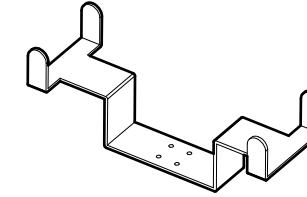
A21 x2



A22 x2



A23 x1



A24 x1

Fastenings



B1 x72

M3x6mm
Pan Head Screws



B2 x96

M4x10mm
Inner Hexagon Screw



B3 x3

M4
Nut



B4 x8

M5x12mm
Pan Head Machine Screw



B5 x12

M6x12mm
Inner Hexagon Screw



B6 x12

M6
Flat Washer



B7 x12

M6
Split Lock Washer



B8 x12

M6
Nut



B9 x4

M3x20mm
Standoff



B10 x12

M3x6mm
Standoff



B11 x22

M3
Nut



B12 x8

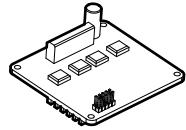
M3
Nylon Flat Washer



B13 x10

M3x22mm
Pan Head Machine Screw

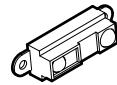
Optional Accessories



C1 x2



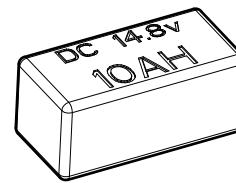
C2 x1



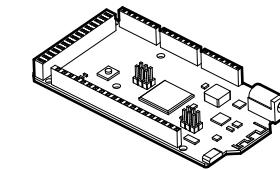
C3 x6



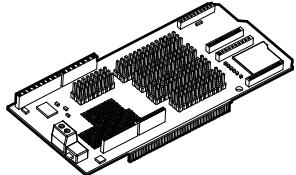
C4 x6



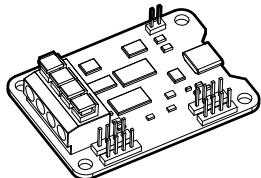
C5 x1



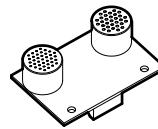
C6 x1



C7 x1



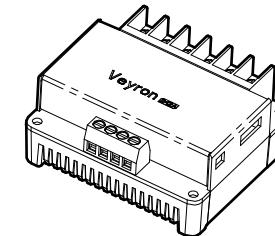
C8 x1



C9 x6



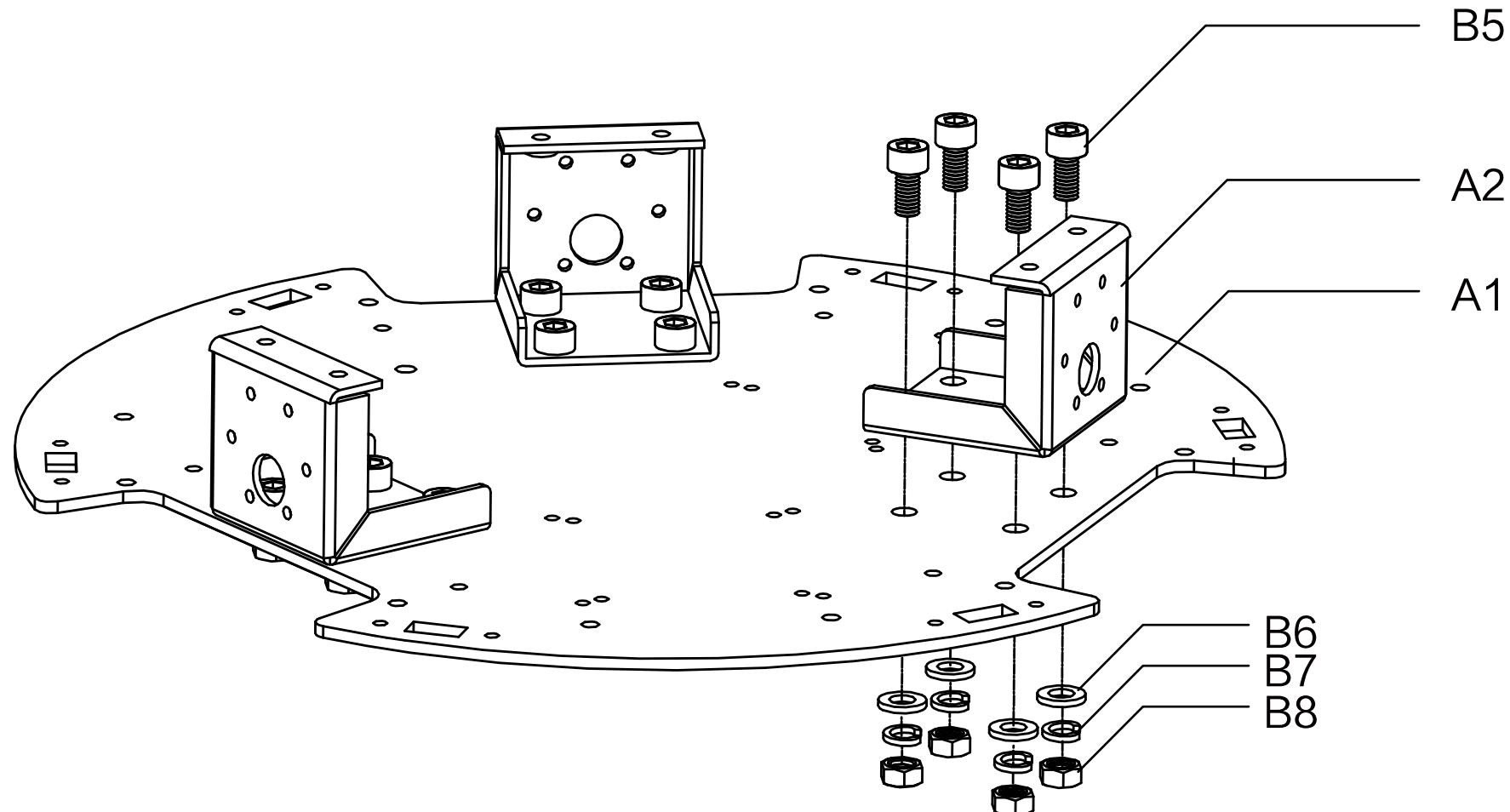
C10 x12



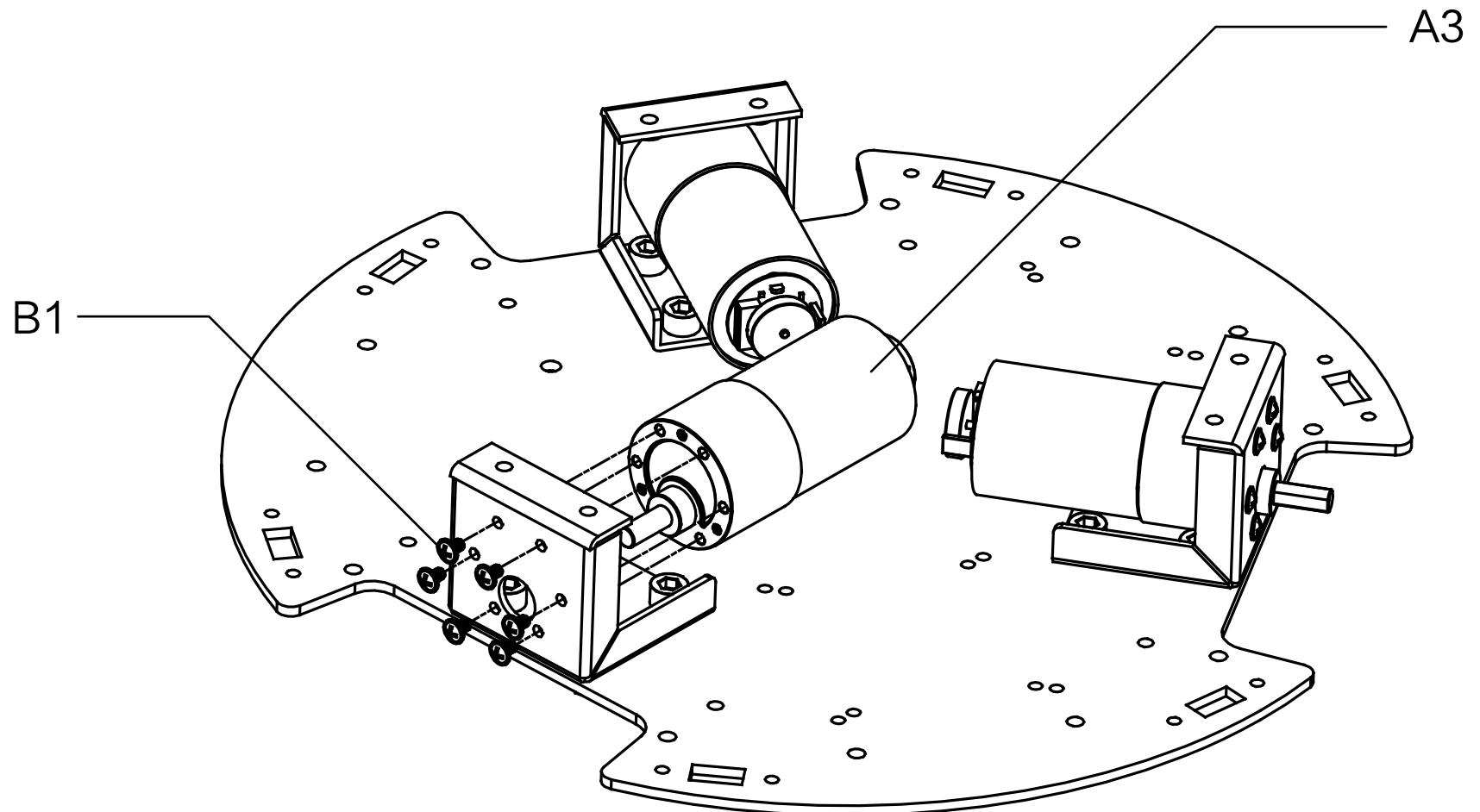
A11 x2

1

Mount Motor Brackets

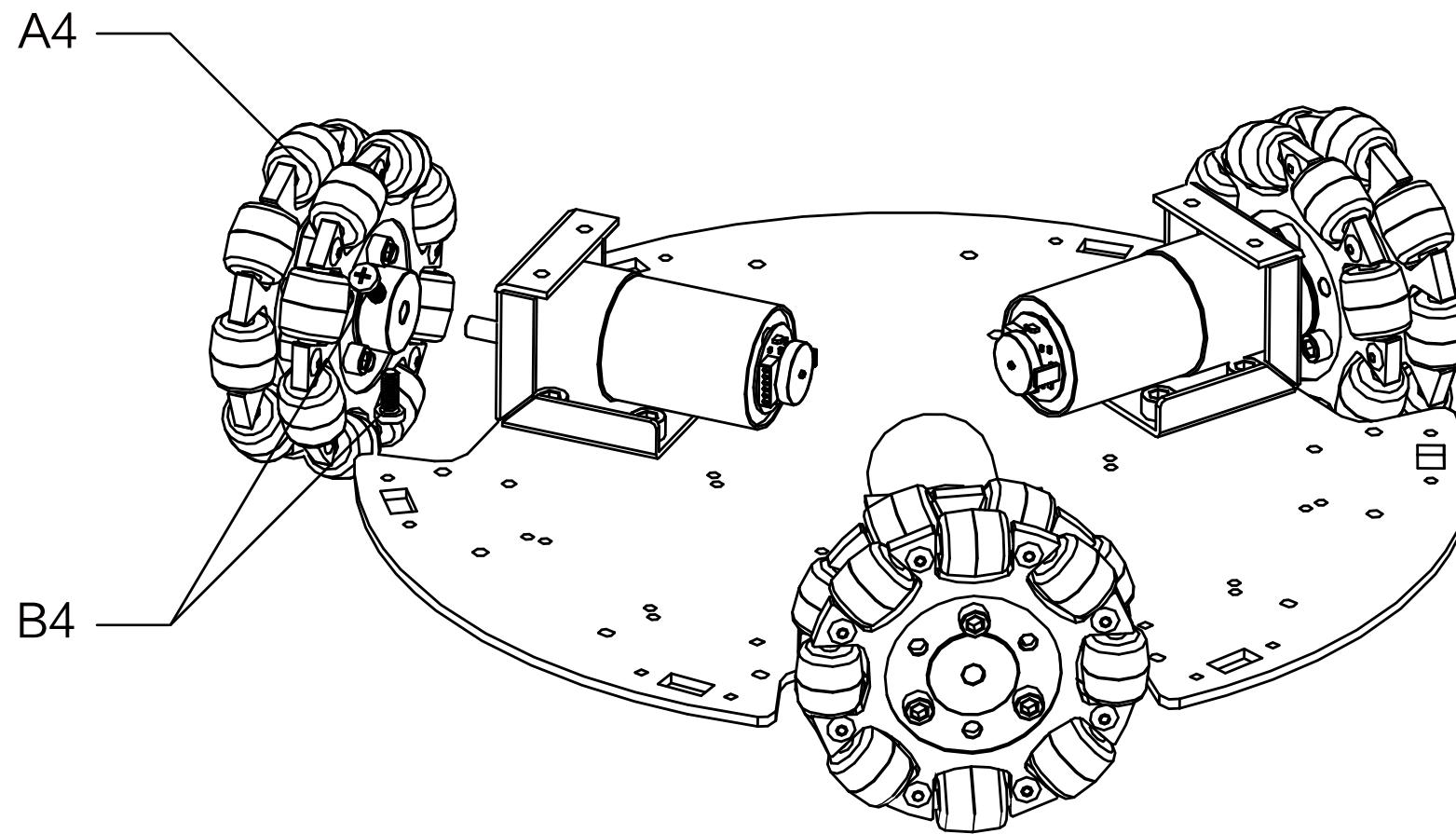


Match the edge of the vertical plane of the motor mount (A2) to the edge of the base (A1), not yet tighten the screws until installing the control panel board (A6) in further steps.



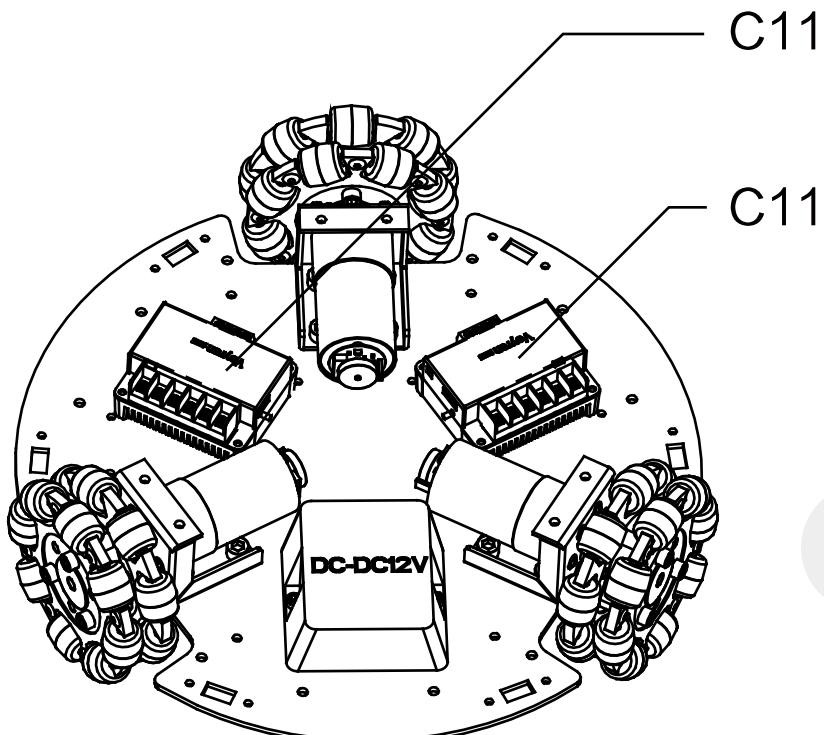
3

Install Omni-Wheels

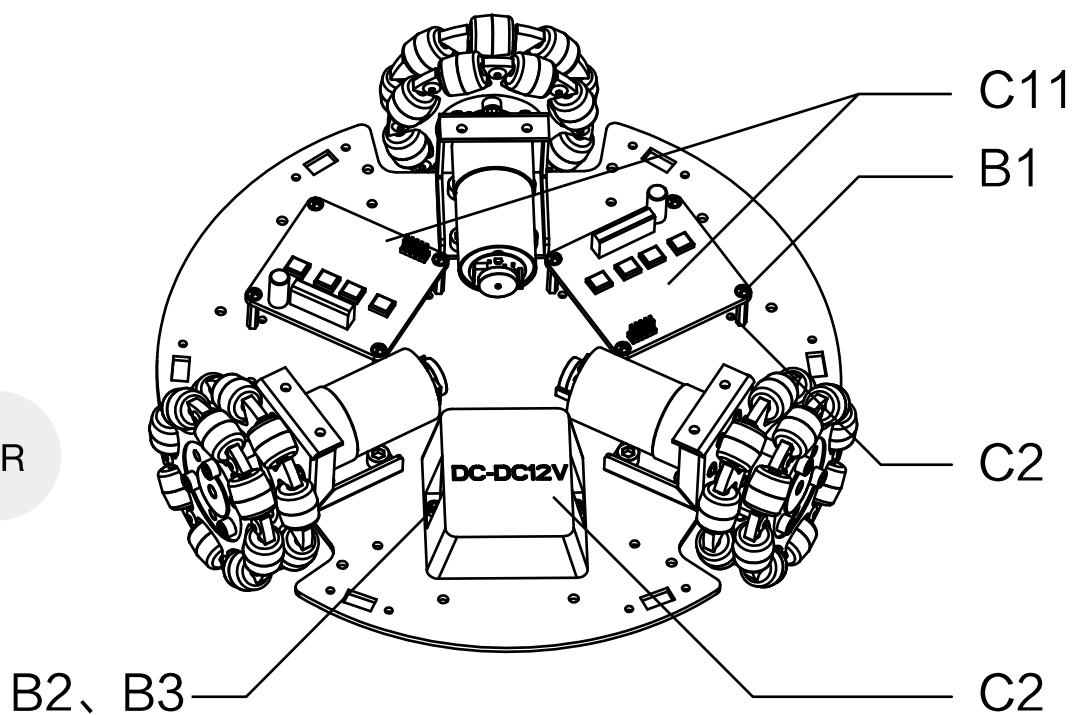


Mount Motor Drive Modules/Two types to choose from

4



OR



C11(Veyron 12A motor drive)

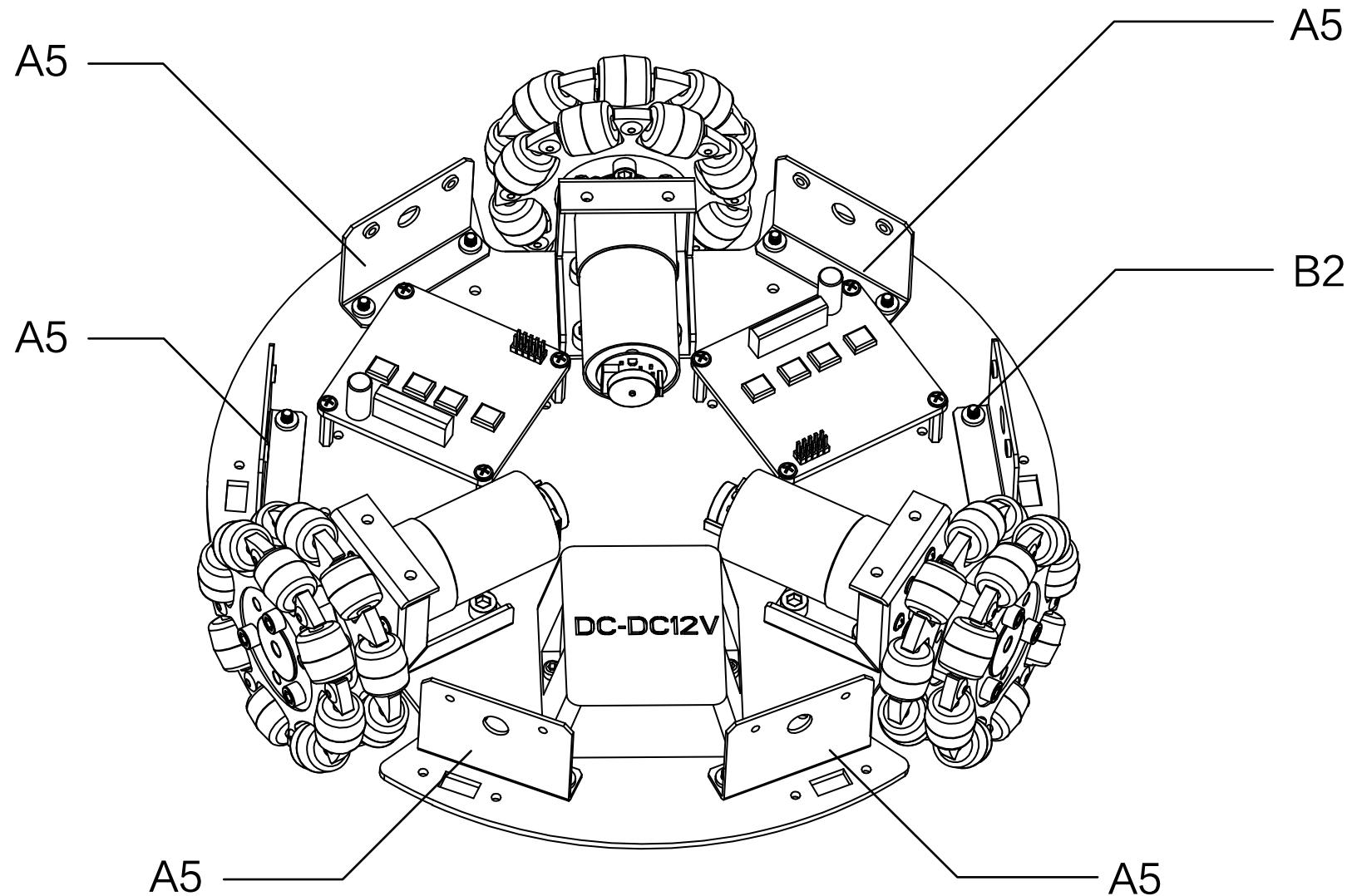
Use M3x25mm screws(B14) Secure with M3 nuts(B3)

B1 (Use M3*6 Screws to connect both sides of the secure standoff)

B2,B3(secure with M4 nuts from bottom side)

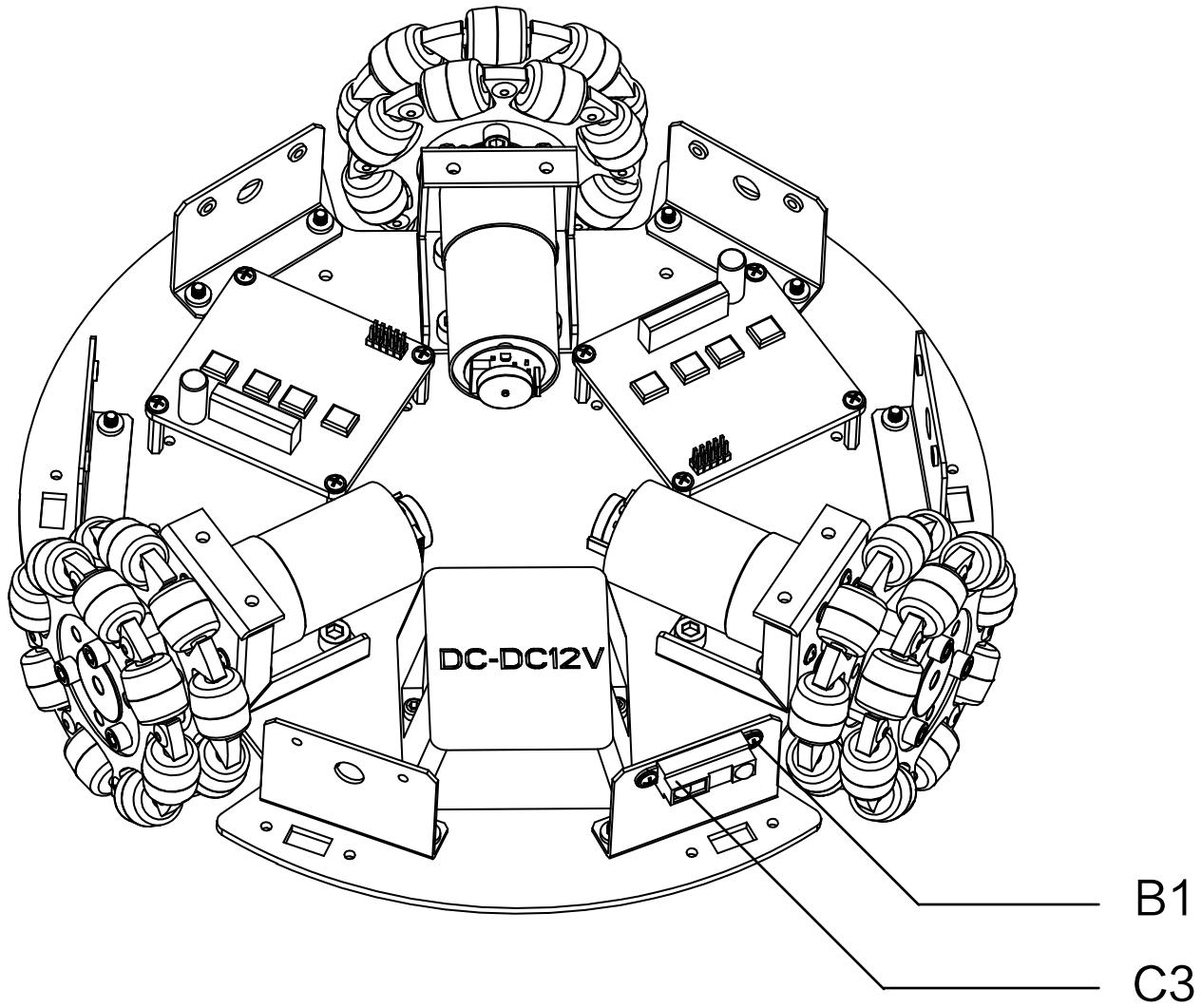
5

Install Infrared Brackets



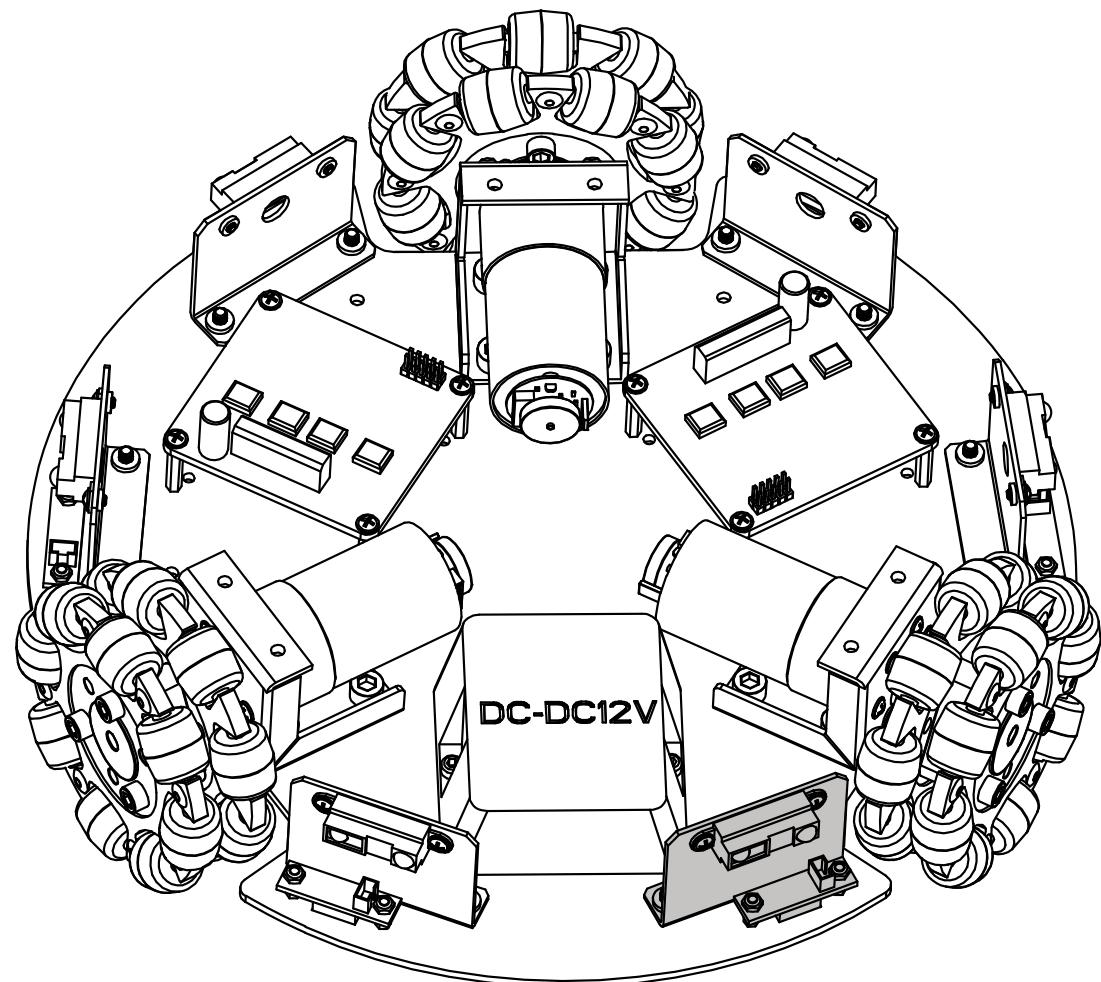
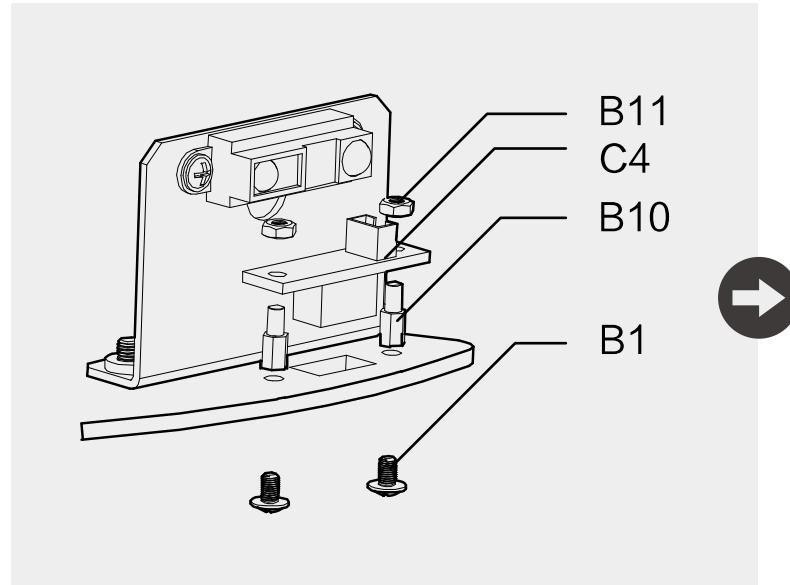
Install Infrared Sensors(Optional Parts)

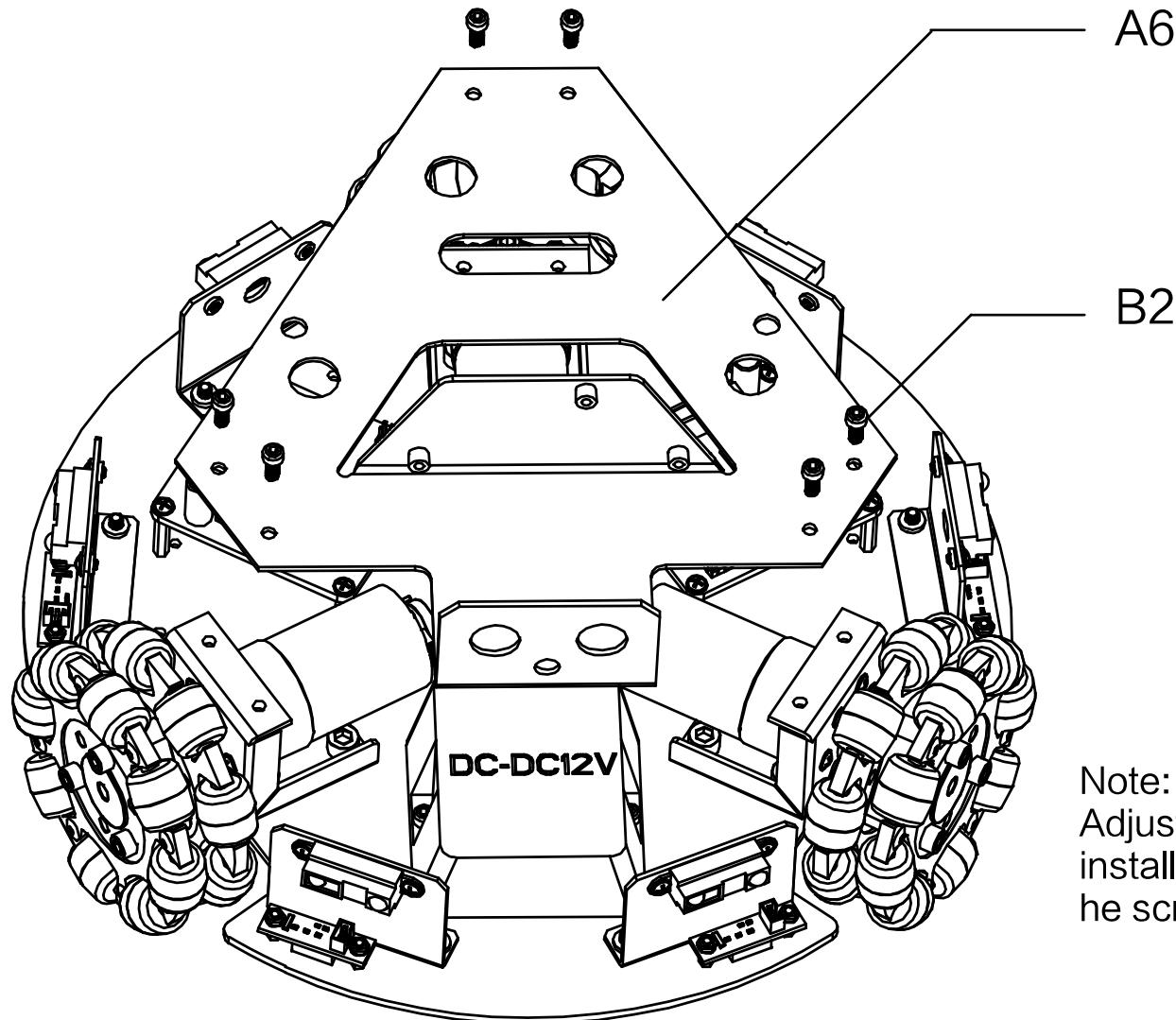
6



7

Install Anti-Drop Sensors(Optional Parts)



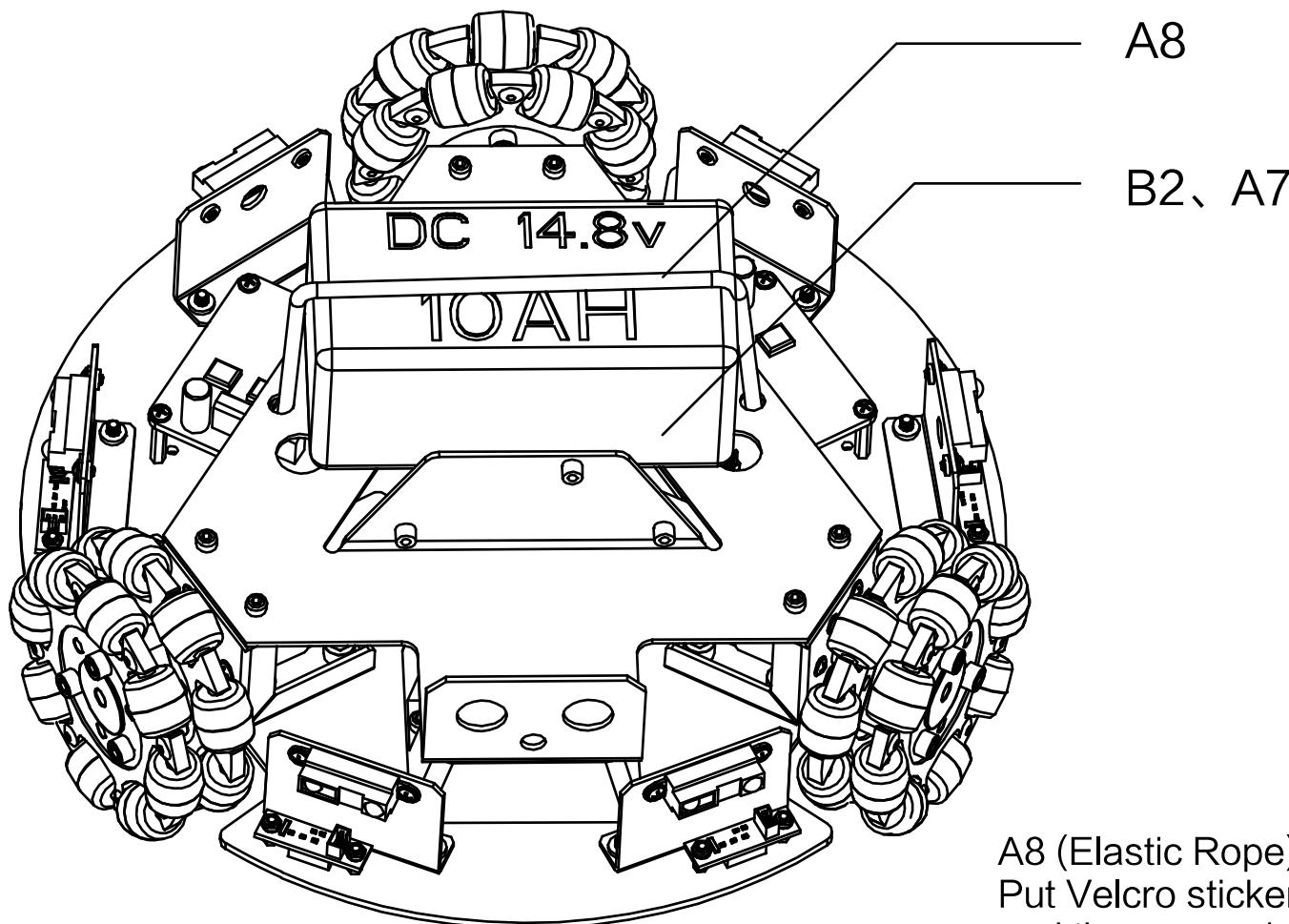


Note:

Adjust the position of the motor mount (A2) and install the control penal board (A6). Tighten all the screws when A6 is properly fit onto the mount.

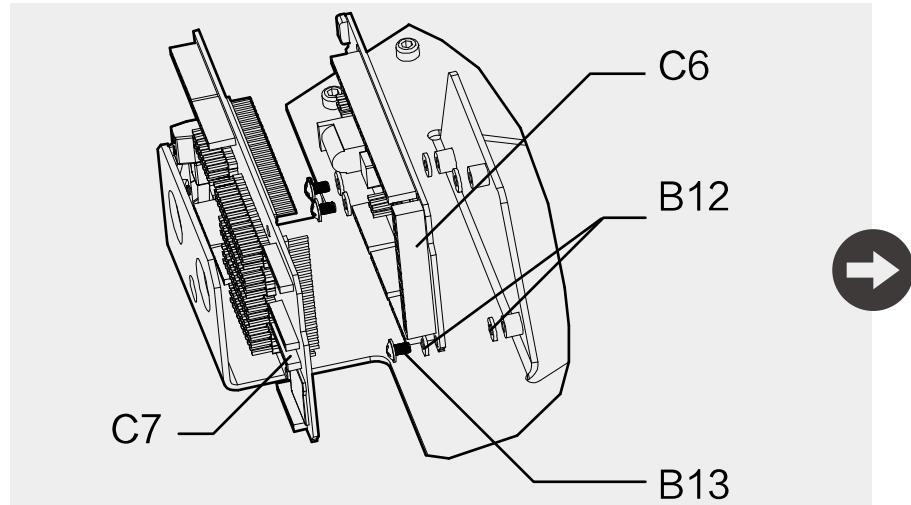
9

Install Battery(Optional Parts)

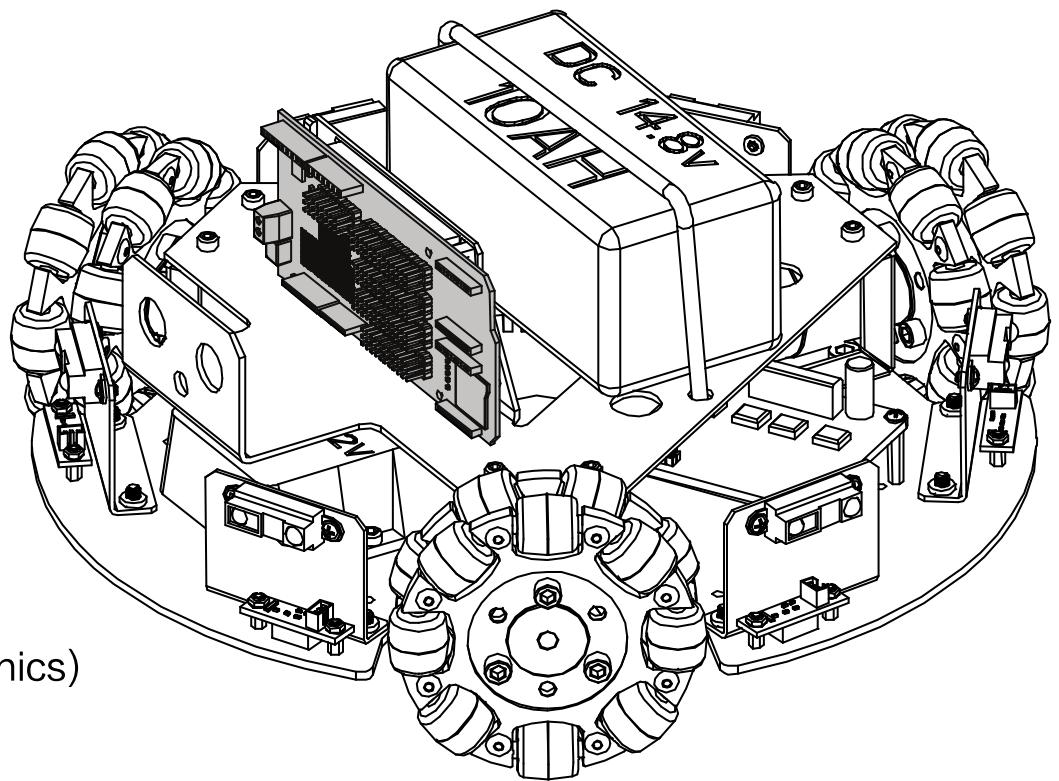


A8 (Elastic Rope)

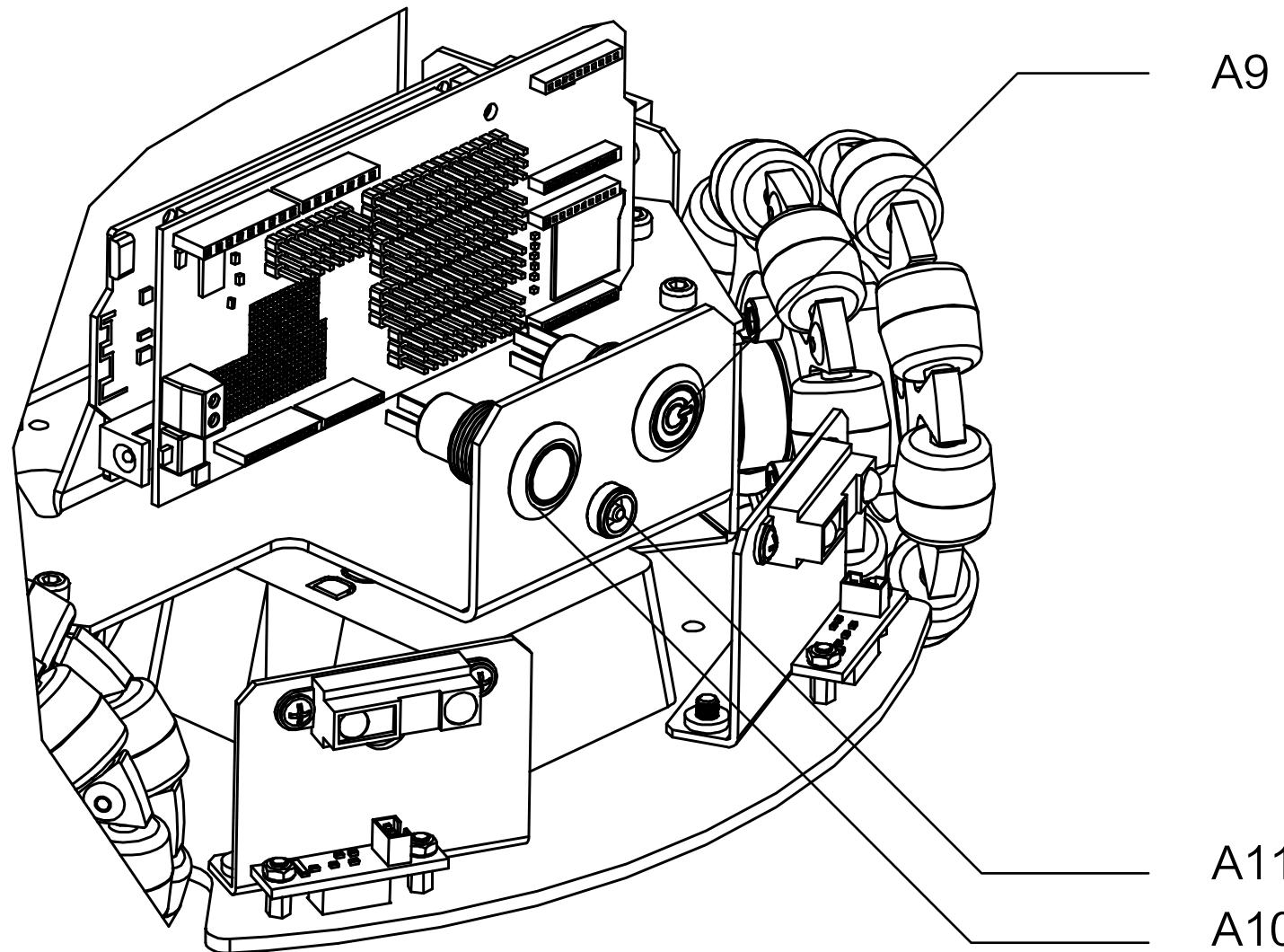
Put Velcro stickers onto the back side of the battery holder
and the upper side of the base plate)

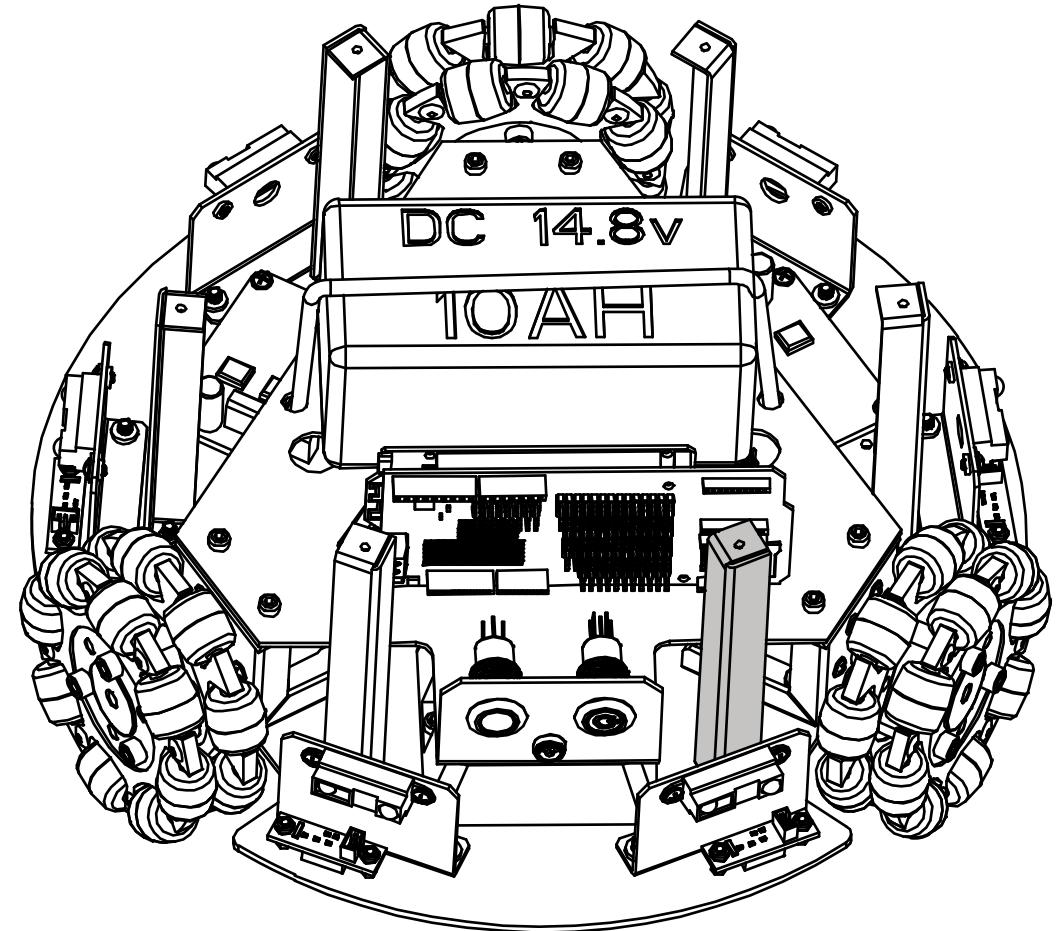
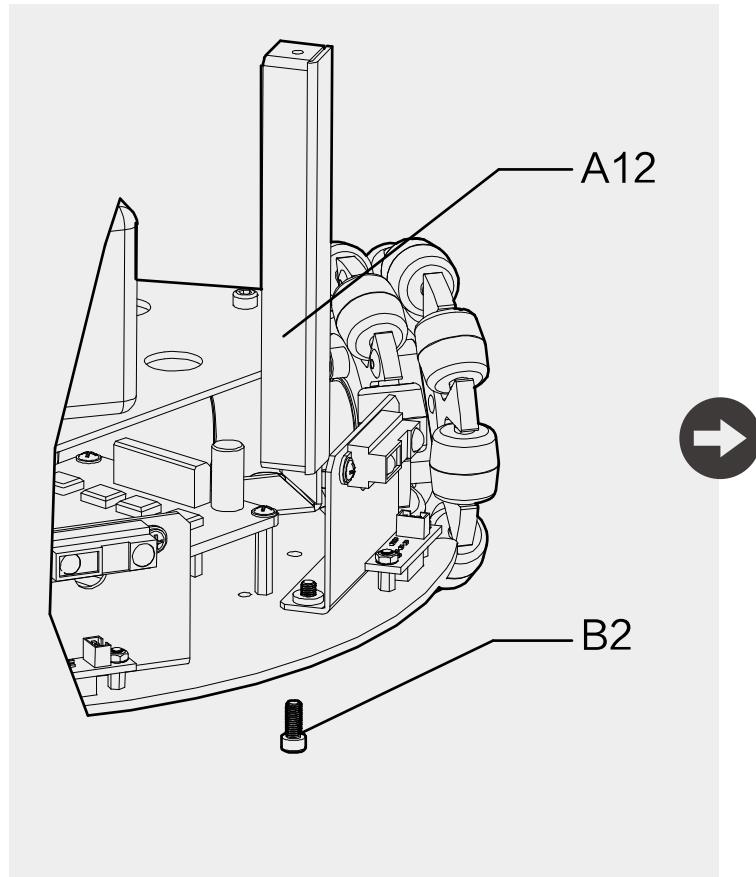


B12 (Use nylon spacers to prevent damage to electronics)



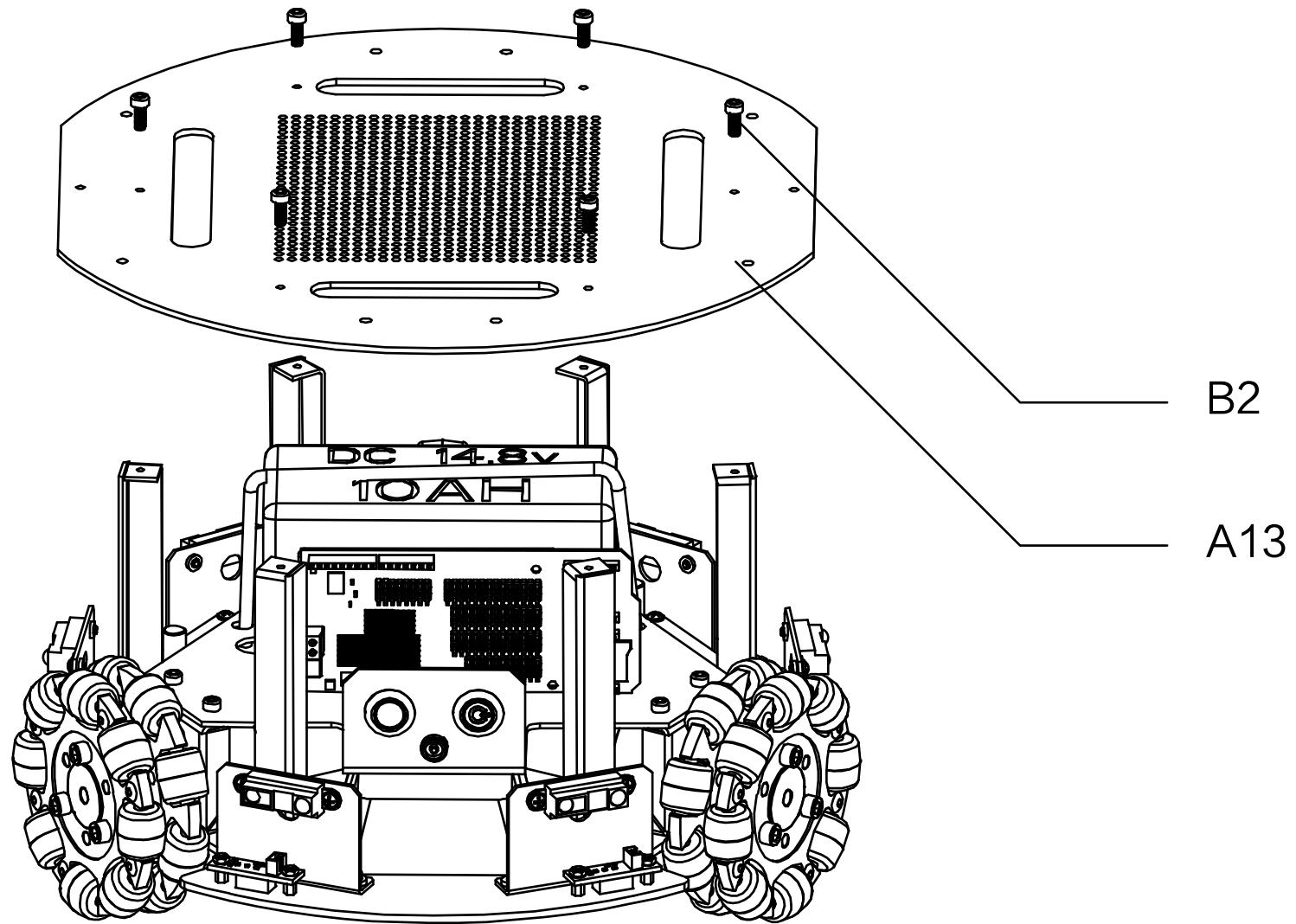
11 Install Switches and Sockets

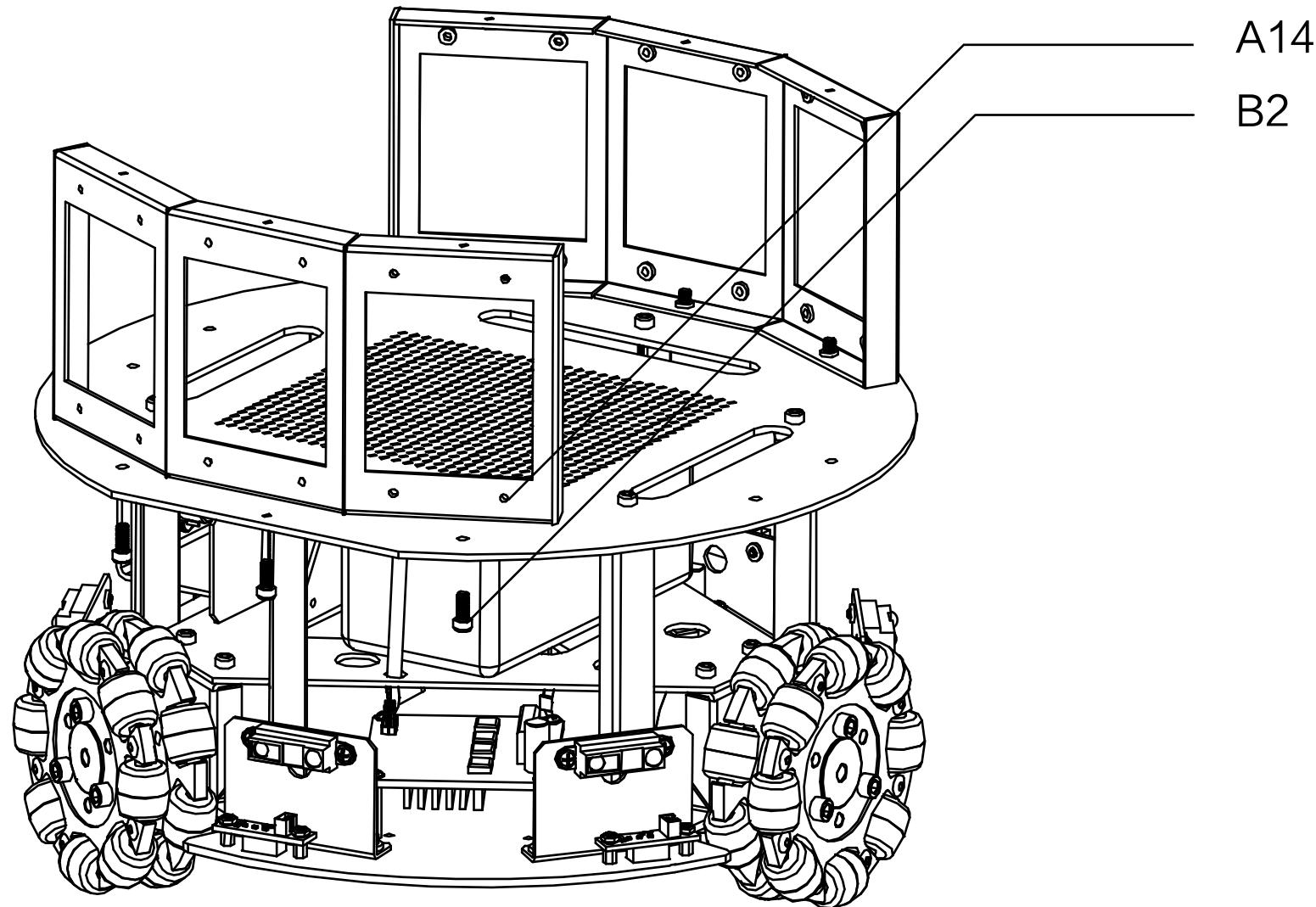




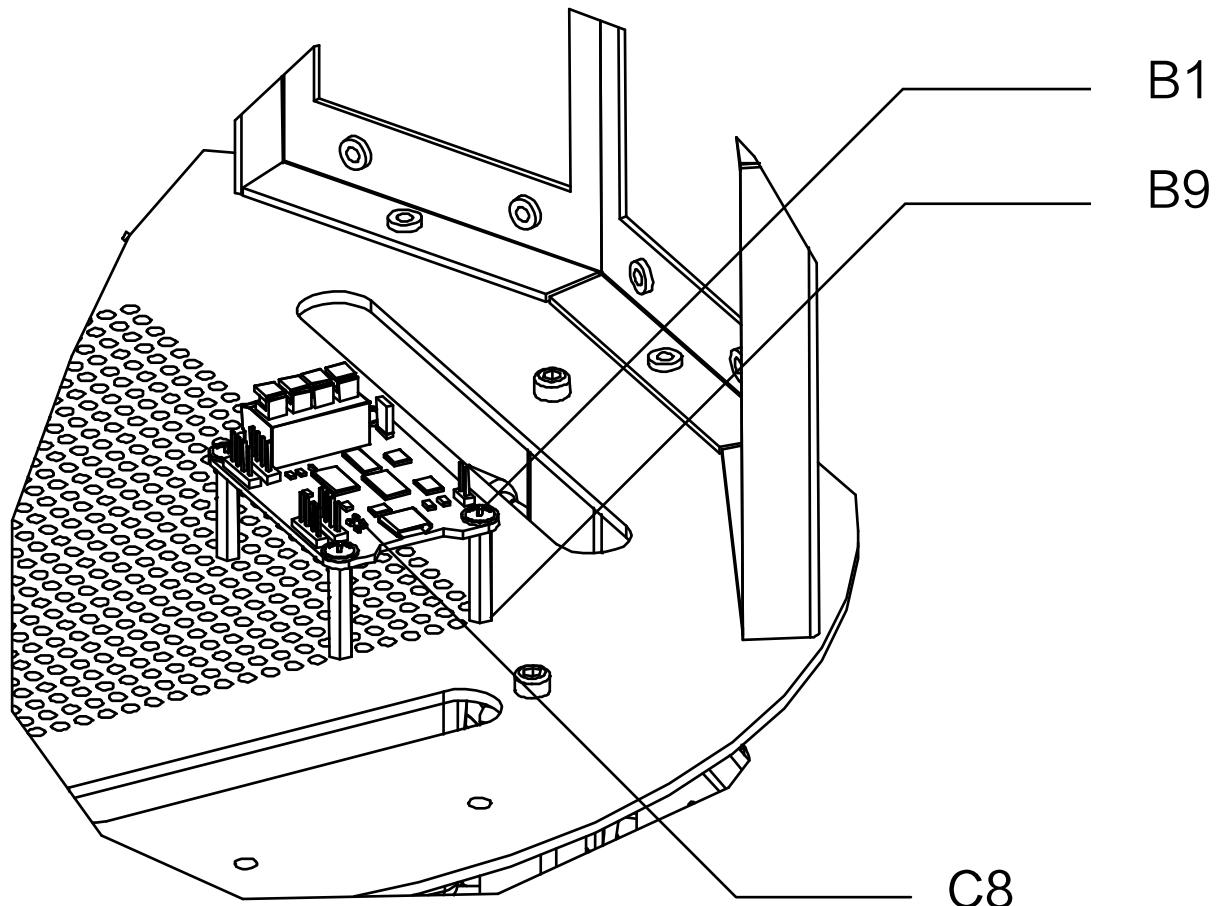
Before installing any further structural parts, you need to install a few electric components in advance.

13 Install Plate



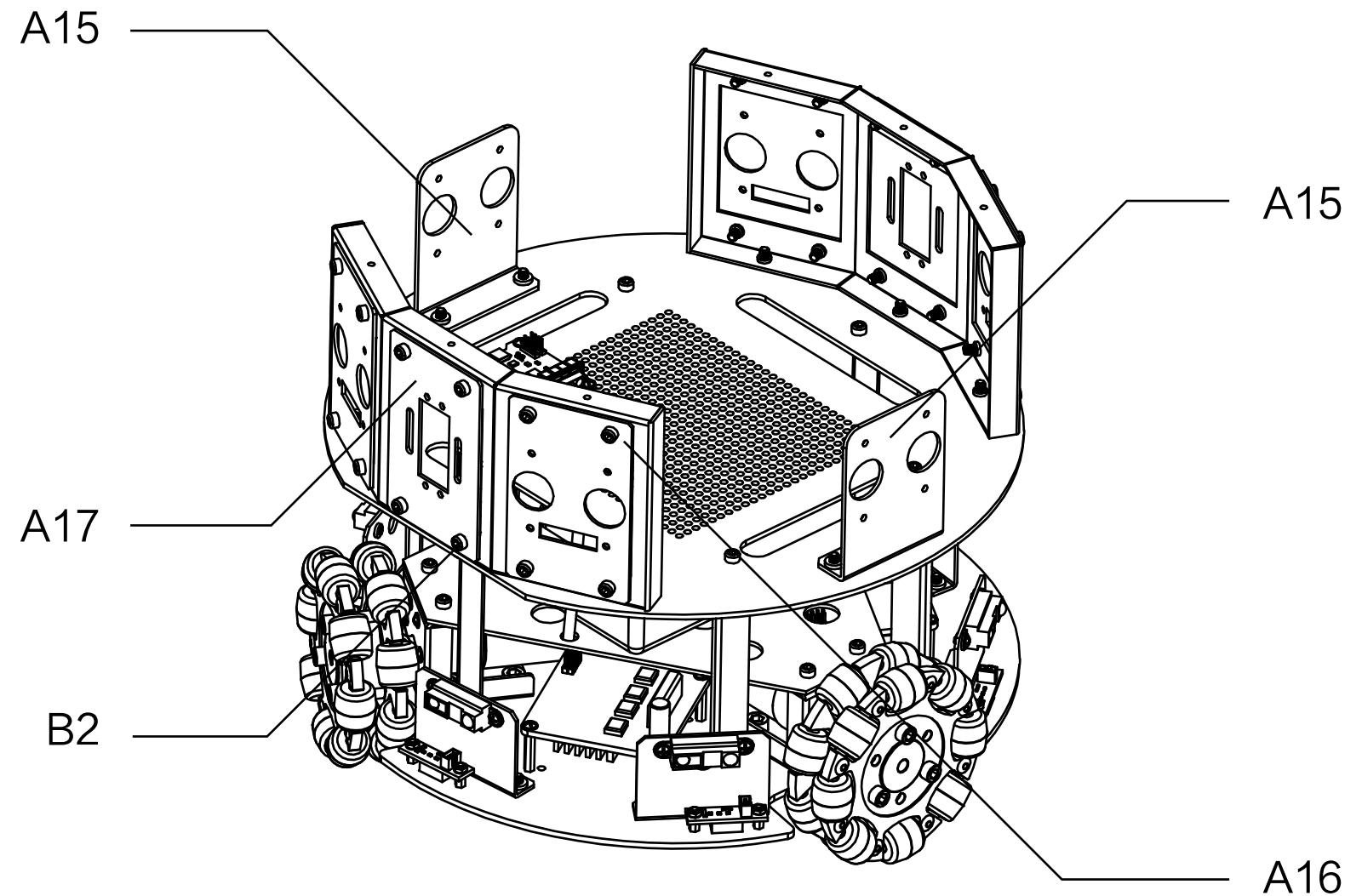


15 Install Conversion Board(Optional Parts)

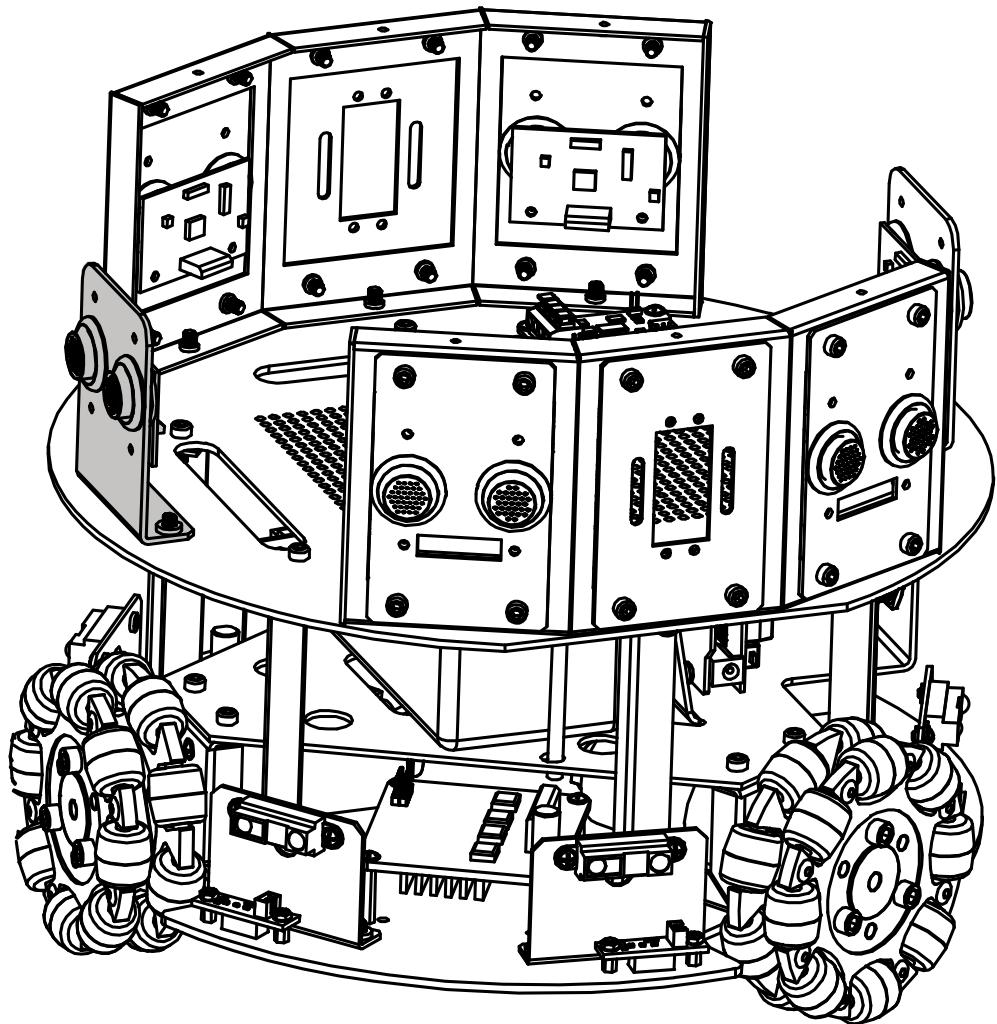
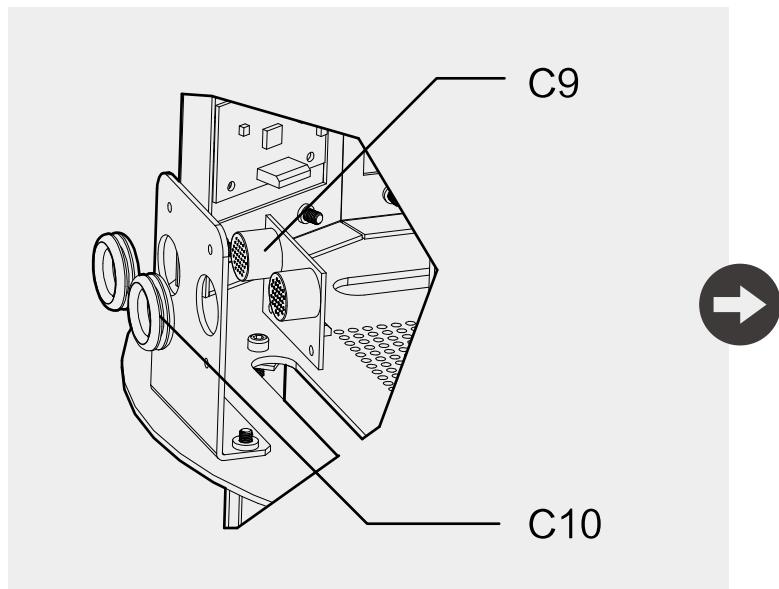


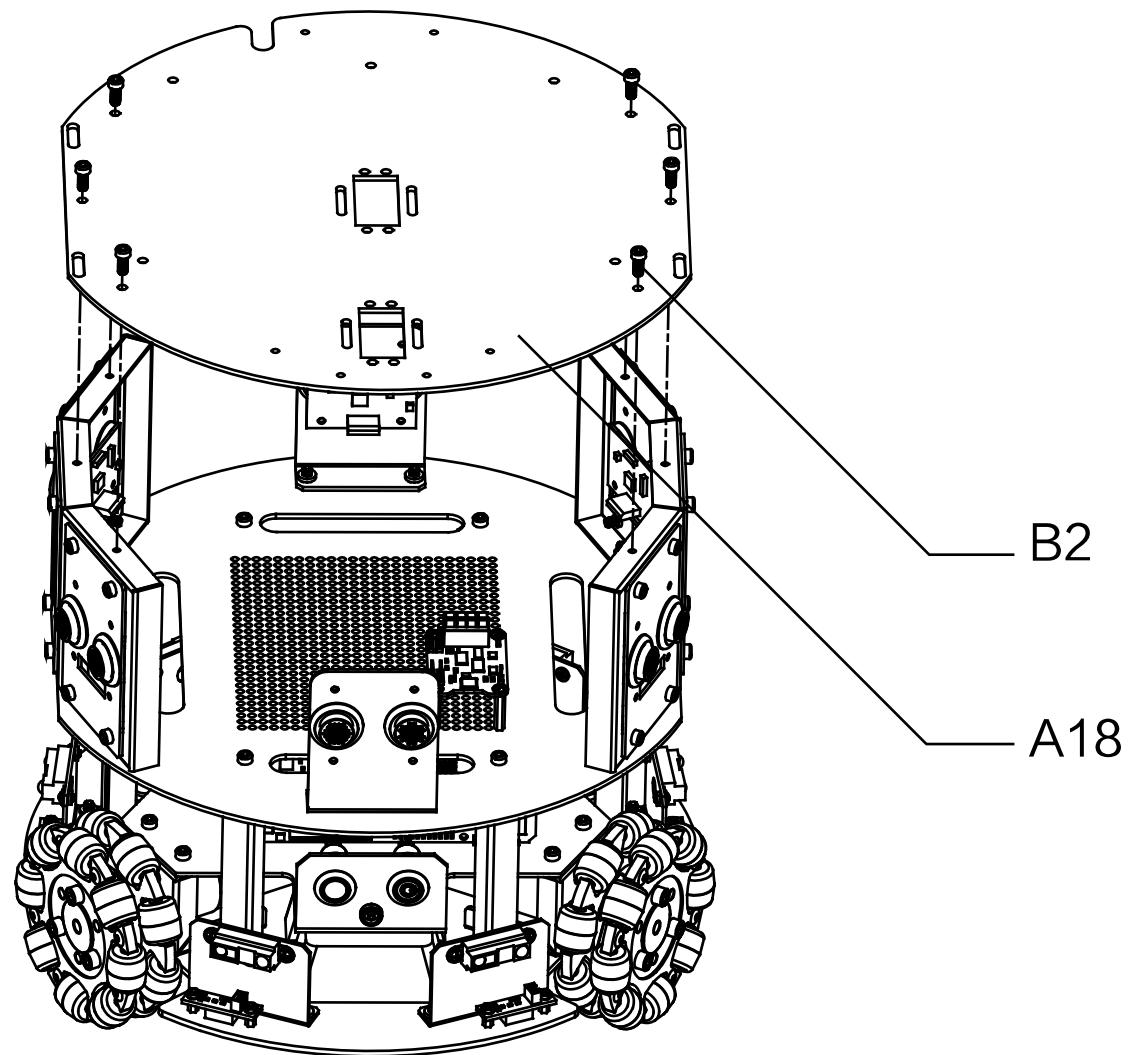
B1(Secure standoffs from top and bottom)

Install Mounting Plates/Brackets **16**

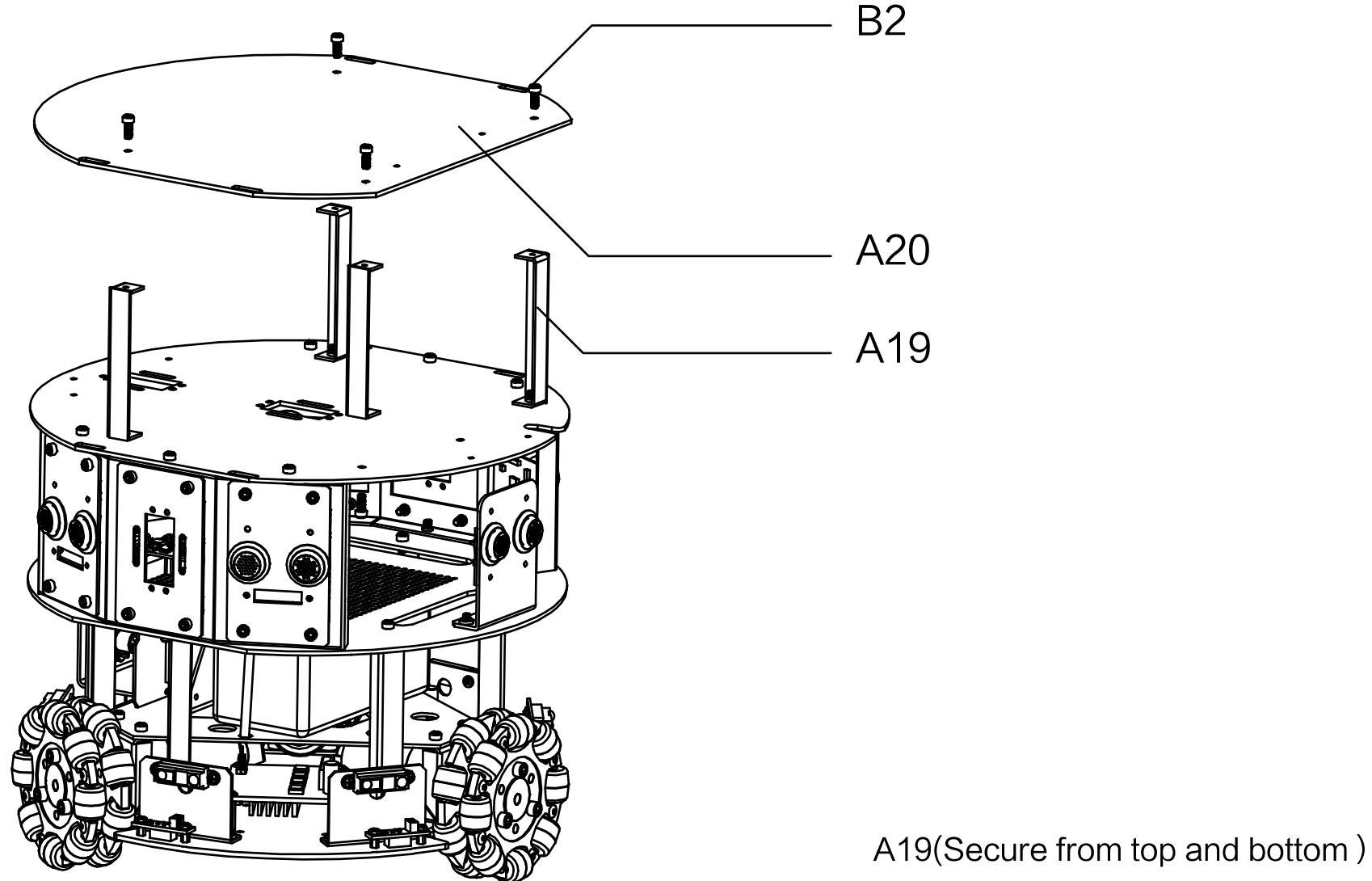


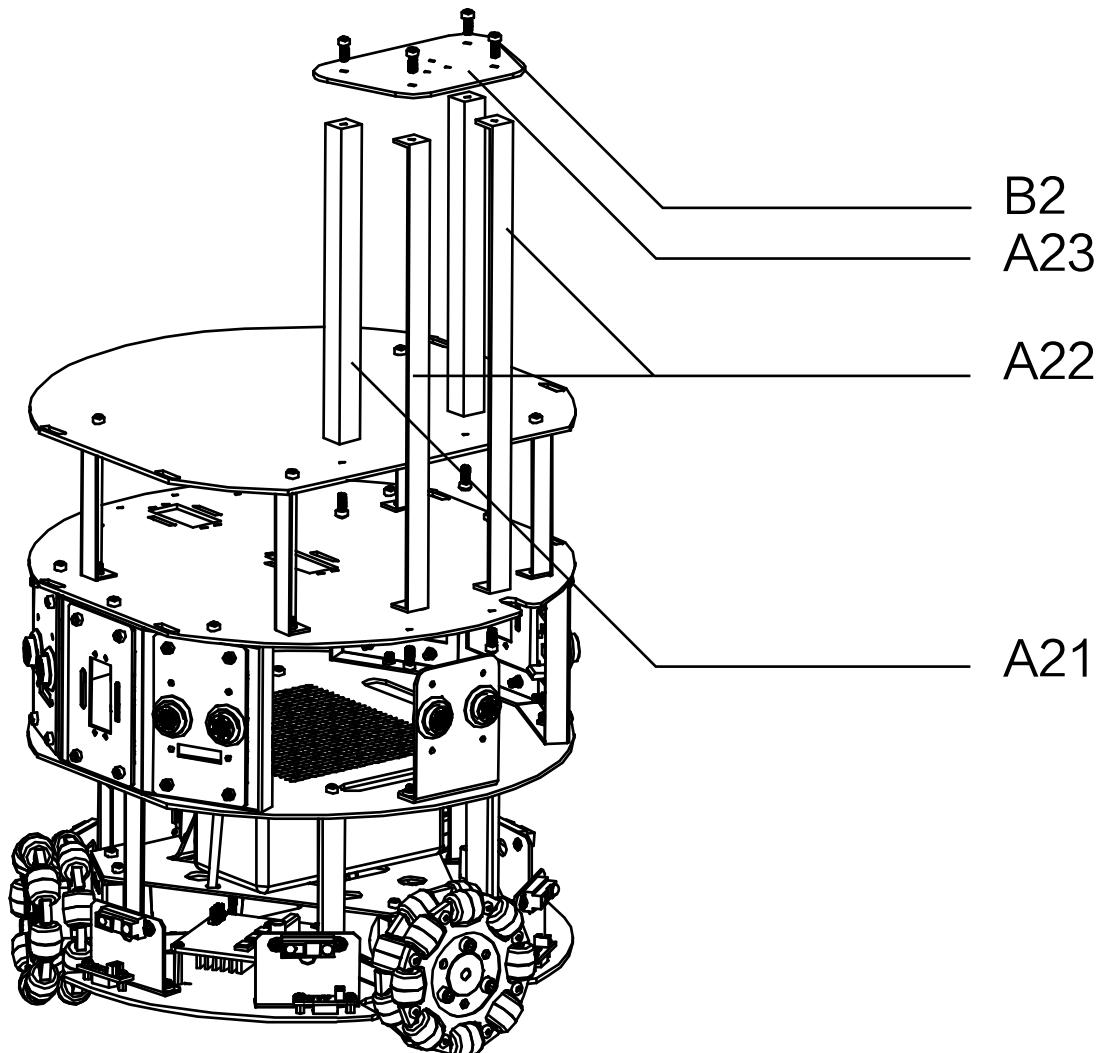
17 Install Ultrasonic Sensors(Optional Parts)



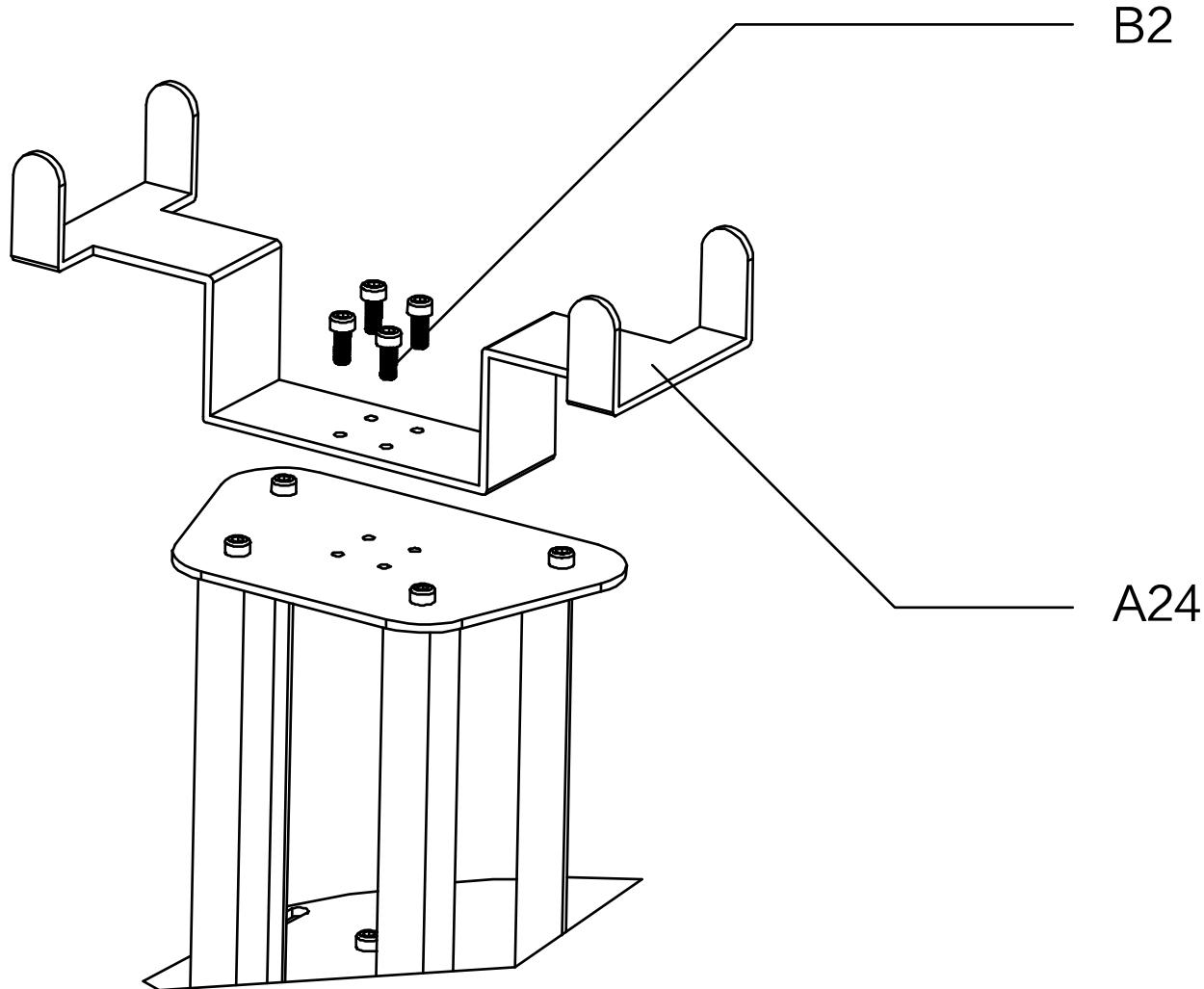


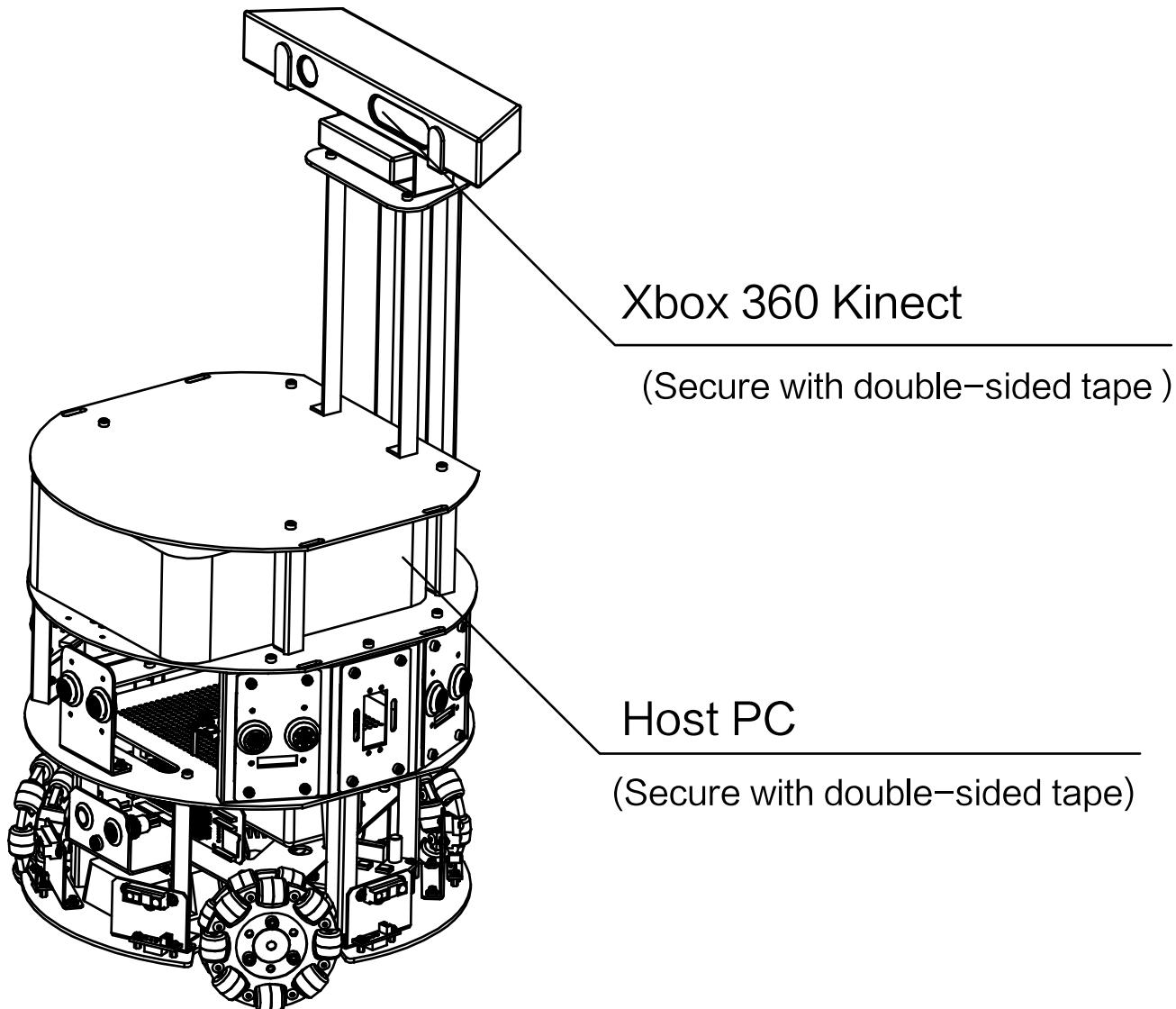
19 Attach Pillars and Plate





21 Install Kinect Bracket





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