



R-Series Hexapod

Assembly Instructions

General Warnings and Cautions

Danger (May cause serious injury or death)

- Keep water, flammables, solvents and other liquids clear from **unsealed** actuator.
- Keep fingers away from moving parts during operation.
- Cut power immediately if actuator emits strange odors or smoke.
- Keep actuator out of reach of children.

Warning (May cause injury or damage to actuator)

- Do not expose the actuator to permanent and strong magnetic fields.
- Do not force screws into the bottom of the actuator. R8 = 8mm Tap Depth
- Use provided hardware with accessories and hand tighten as needed.
- Attempts to disassemble actuator will void the warranty and may cause permanent damage.

Sealing (R-Series Actuators are IP67 when properly used)

- Please refer to all online documentation for proper sealing techniques of the actuator.

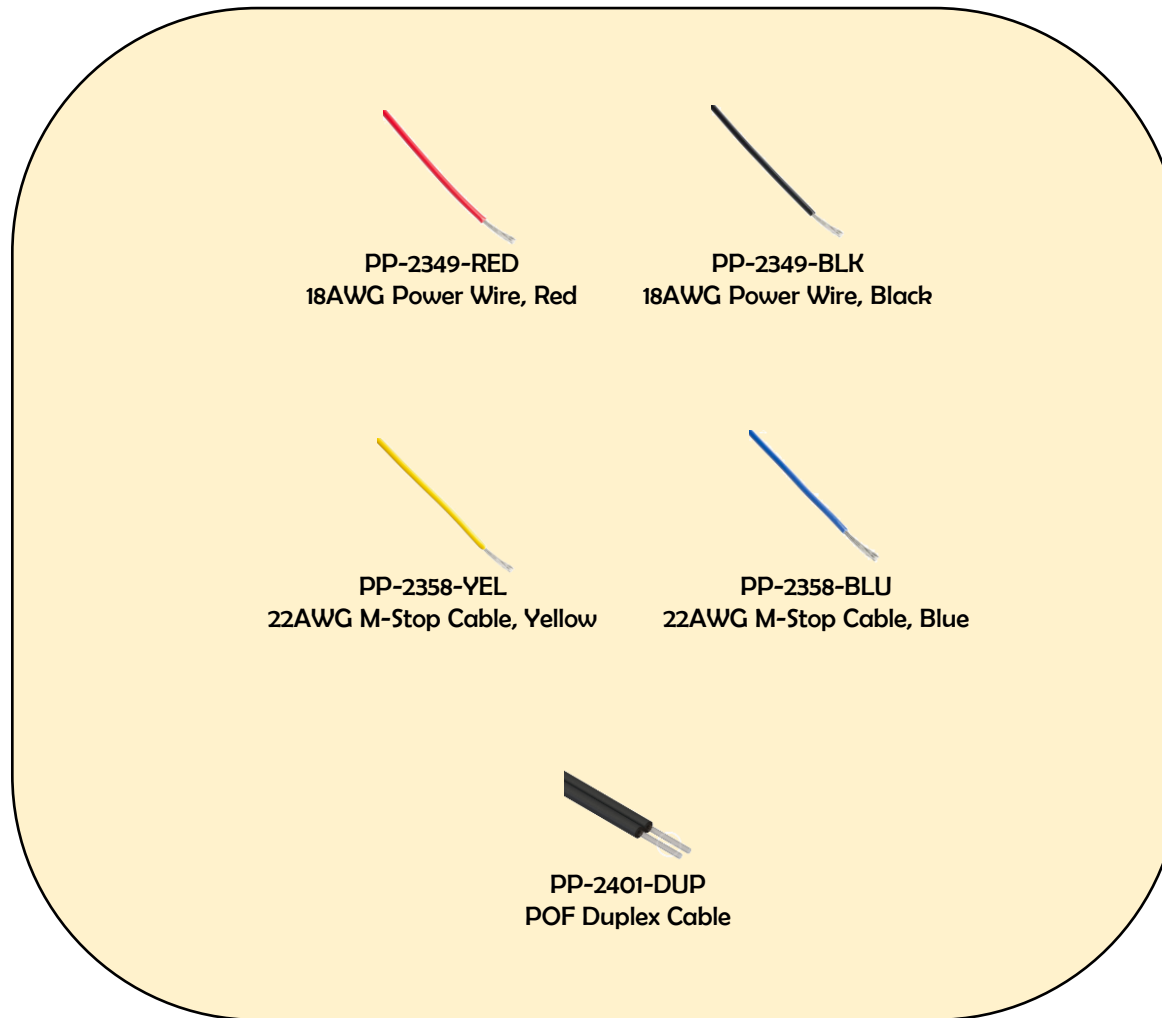
For more information please visit: ***docs.hebi.us***

Bill of Materials - Mechanical*



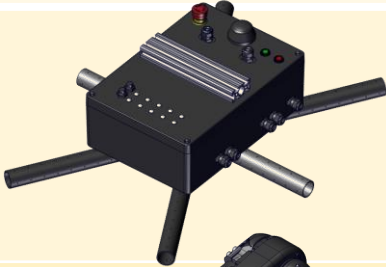
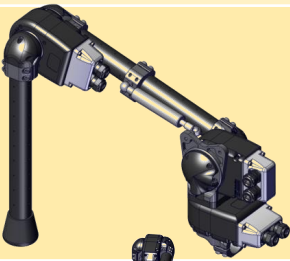
fasteners included, not shown

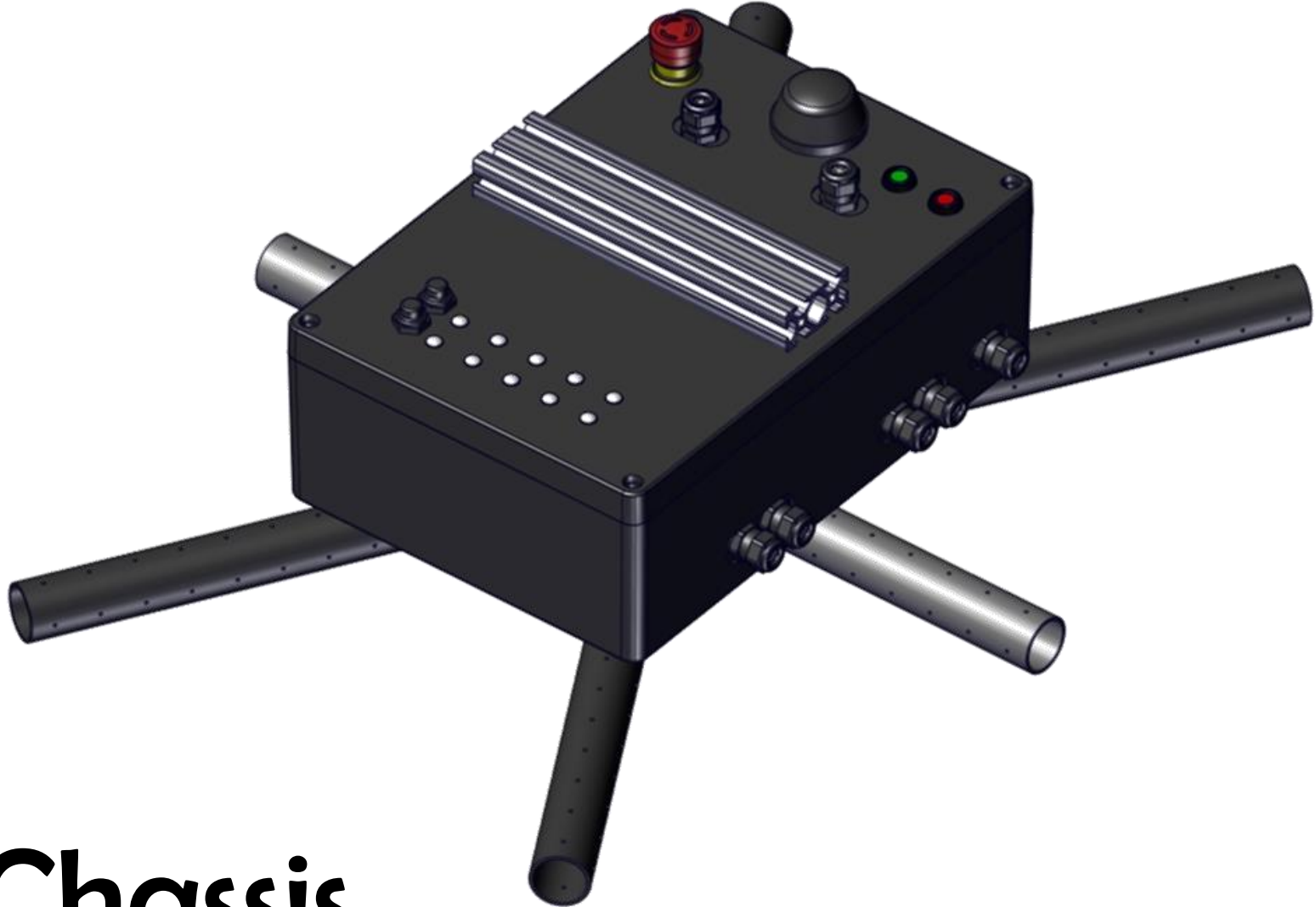
Bill of Materials - Electrical



all items are included in R-Series Connection Toolbox

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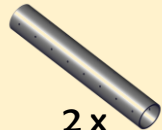
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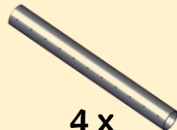
Chassis



1 x



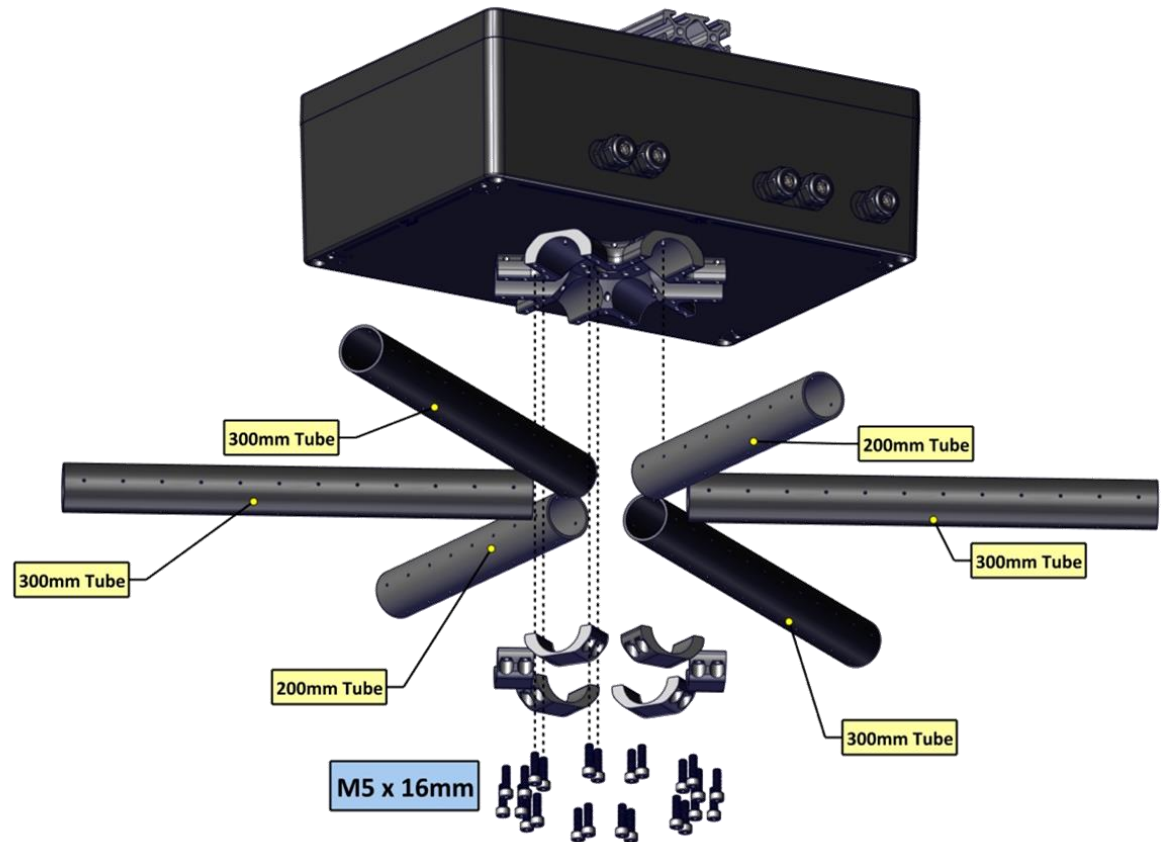
2 x
PP-2200-200
200mm Tube

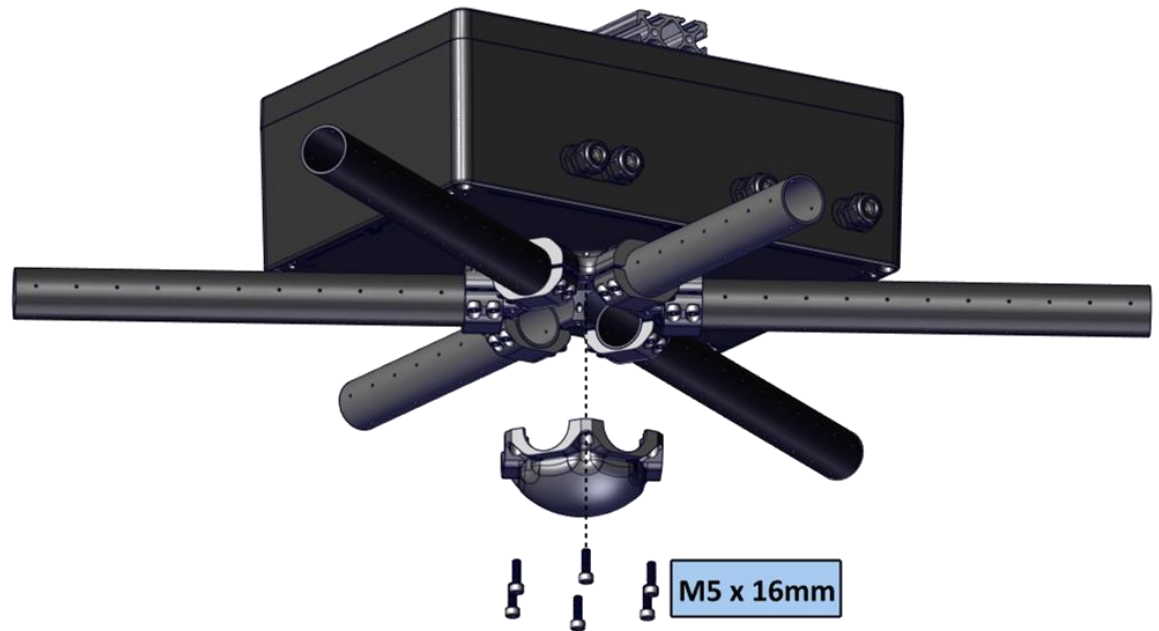
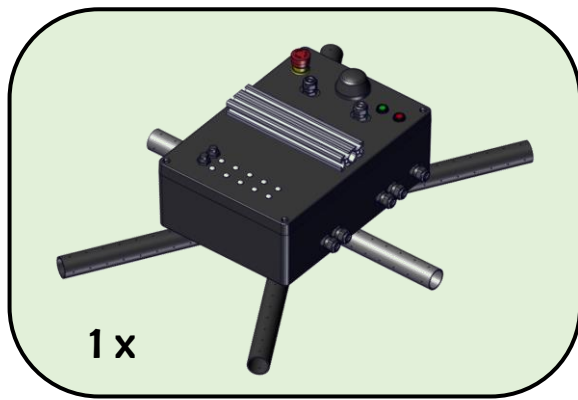


4 x
PP-2200-02
300mm Tube



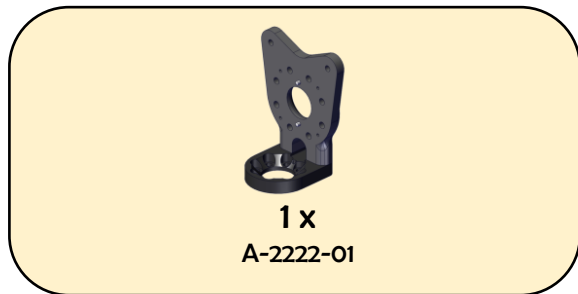
1 x
A-2260-01
Sealed Wireless Chassis
Assembly

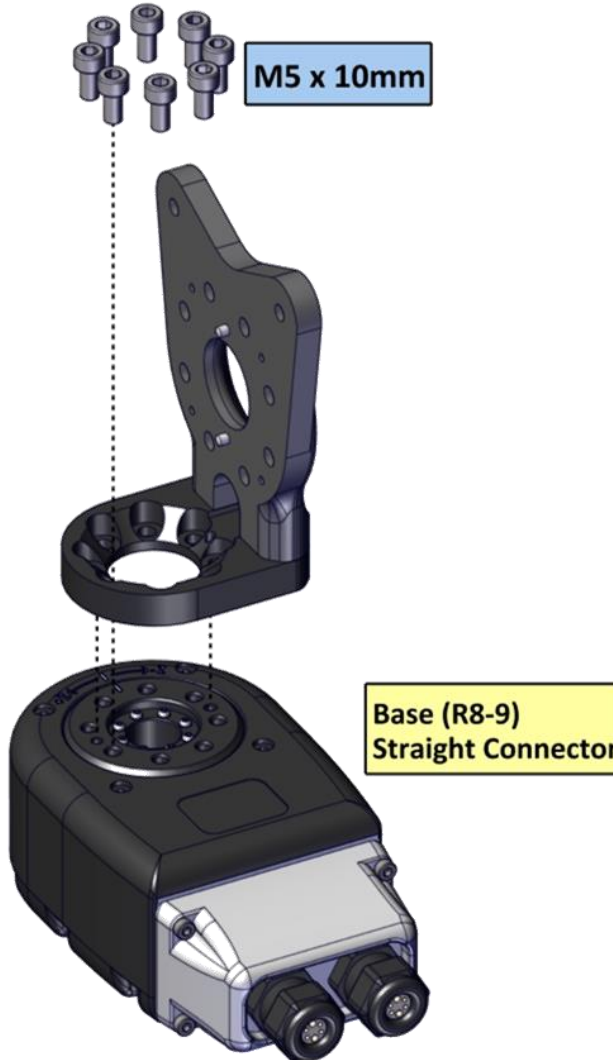
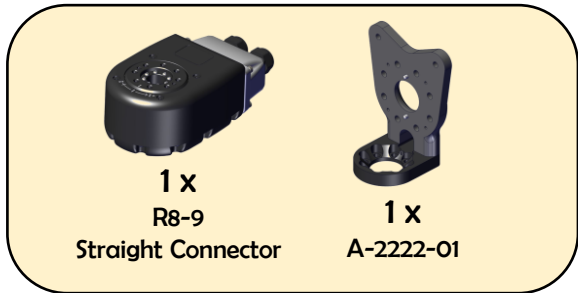


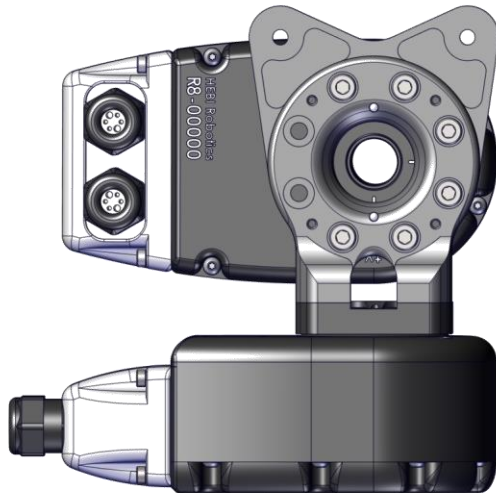
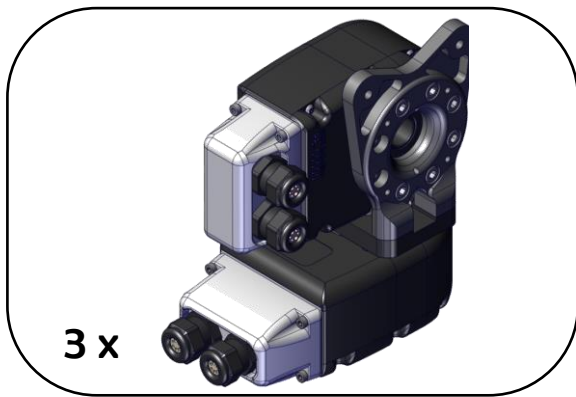




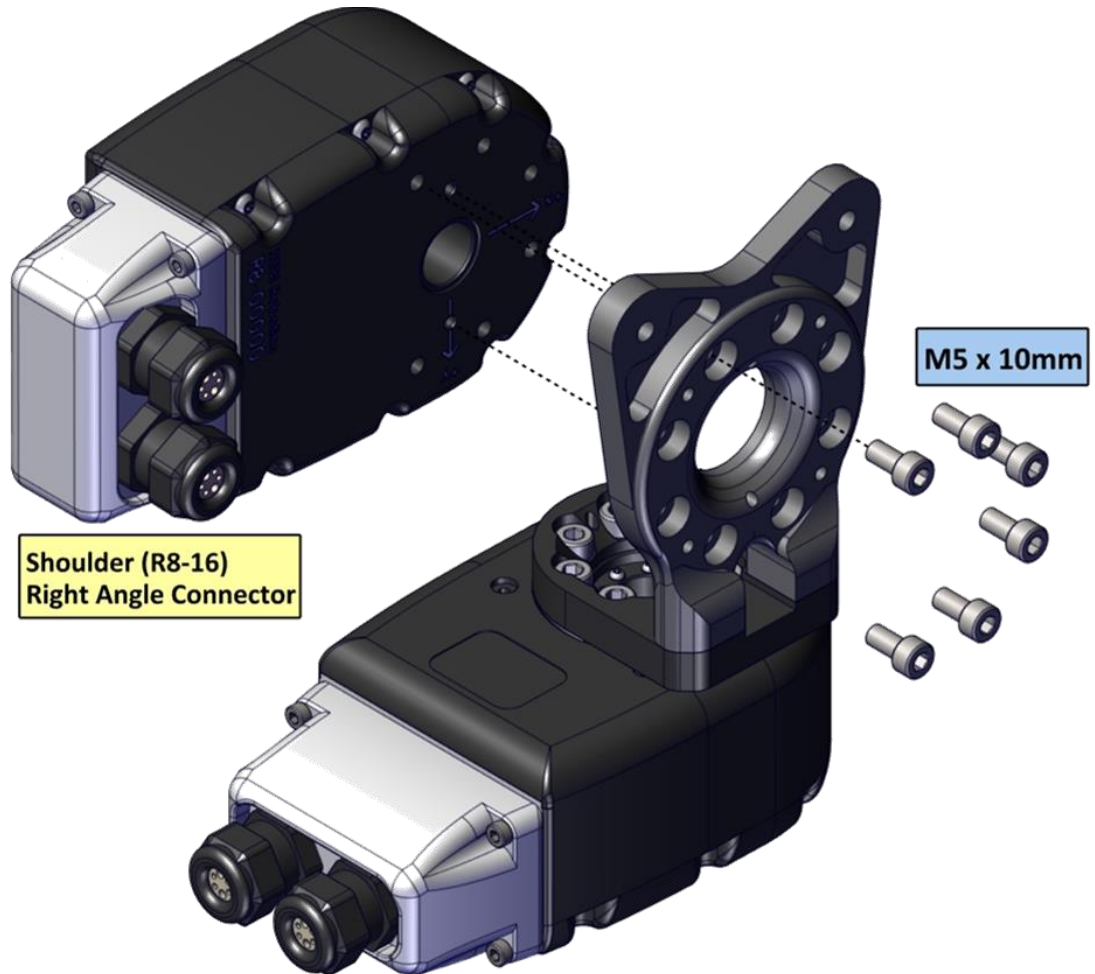
Left Legs

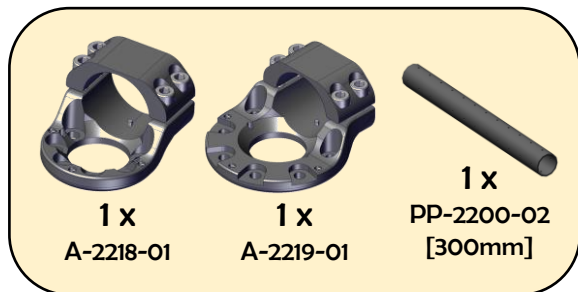
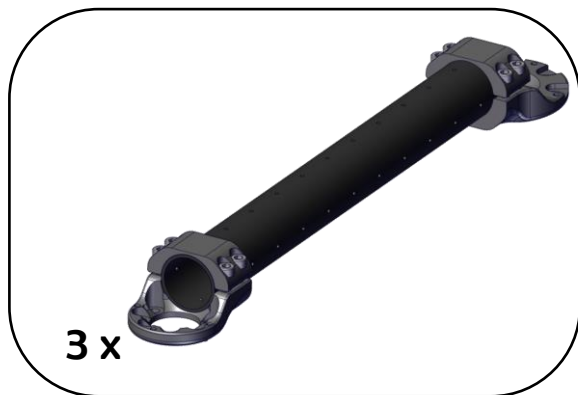


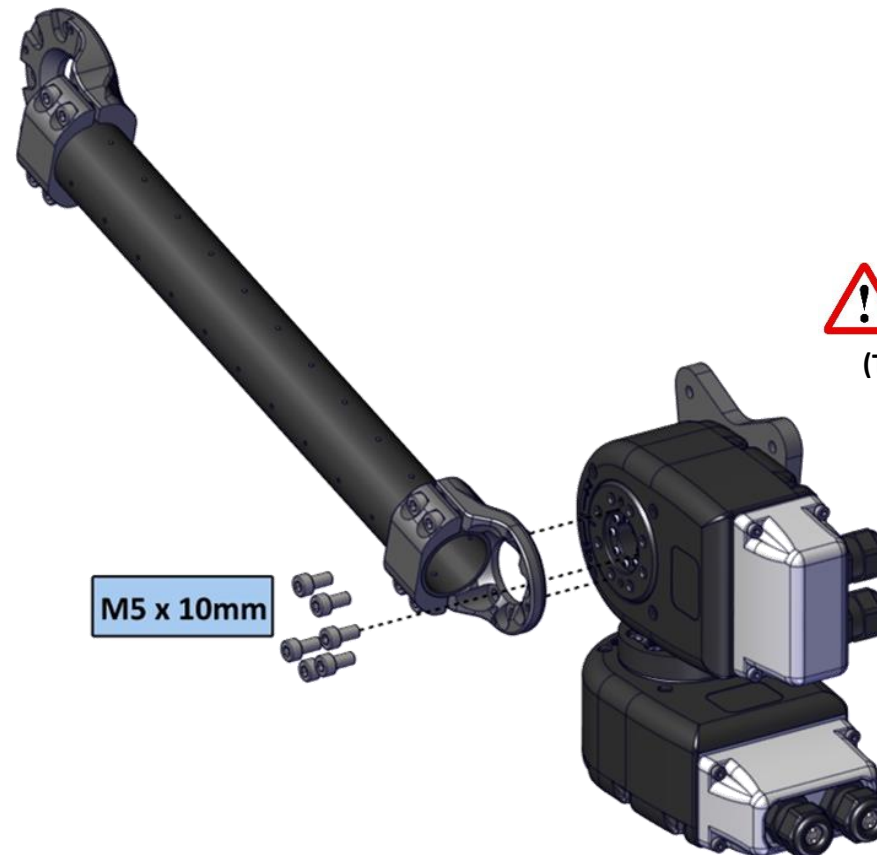
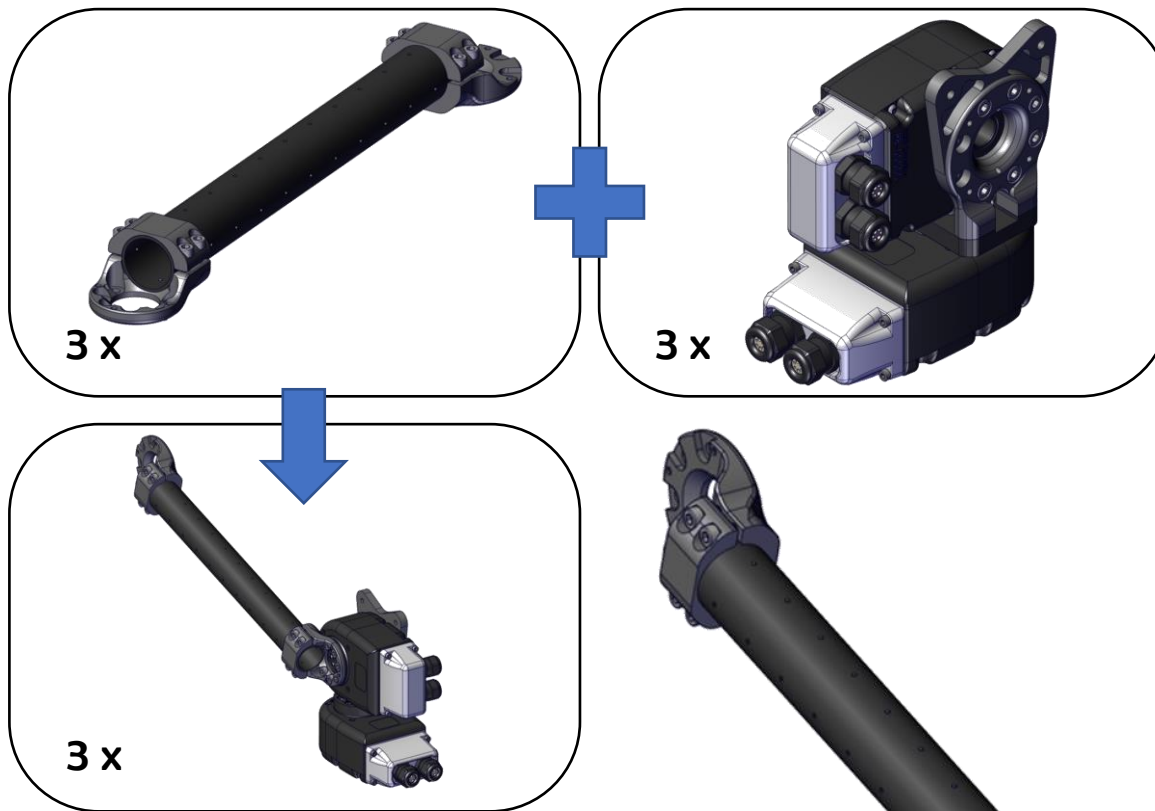




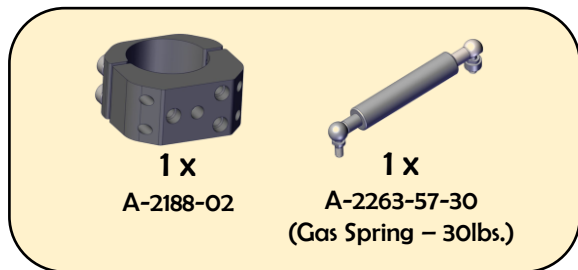
Connectors of both modules
point the same way

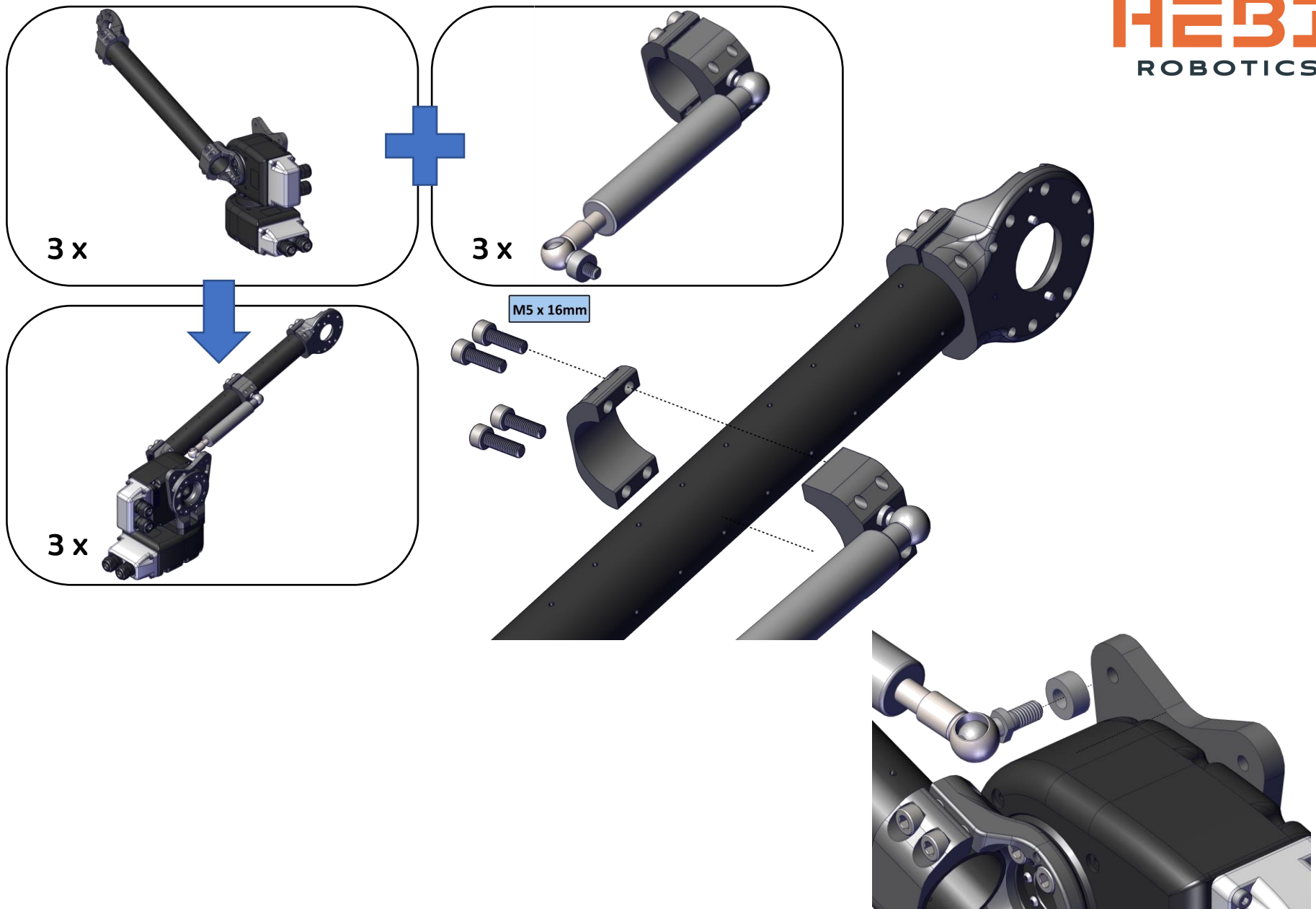


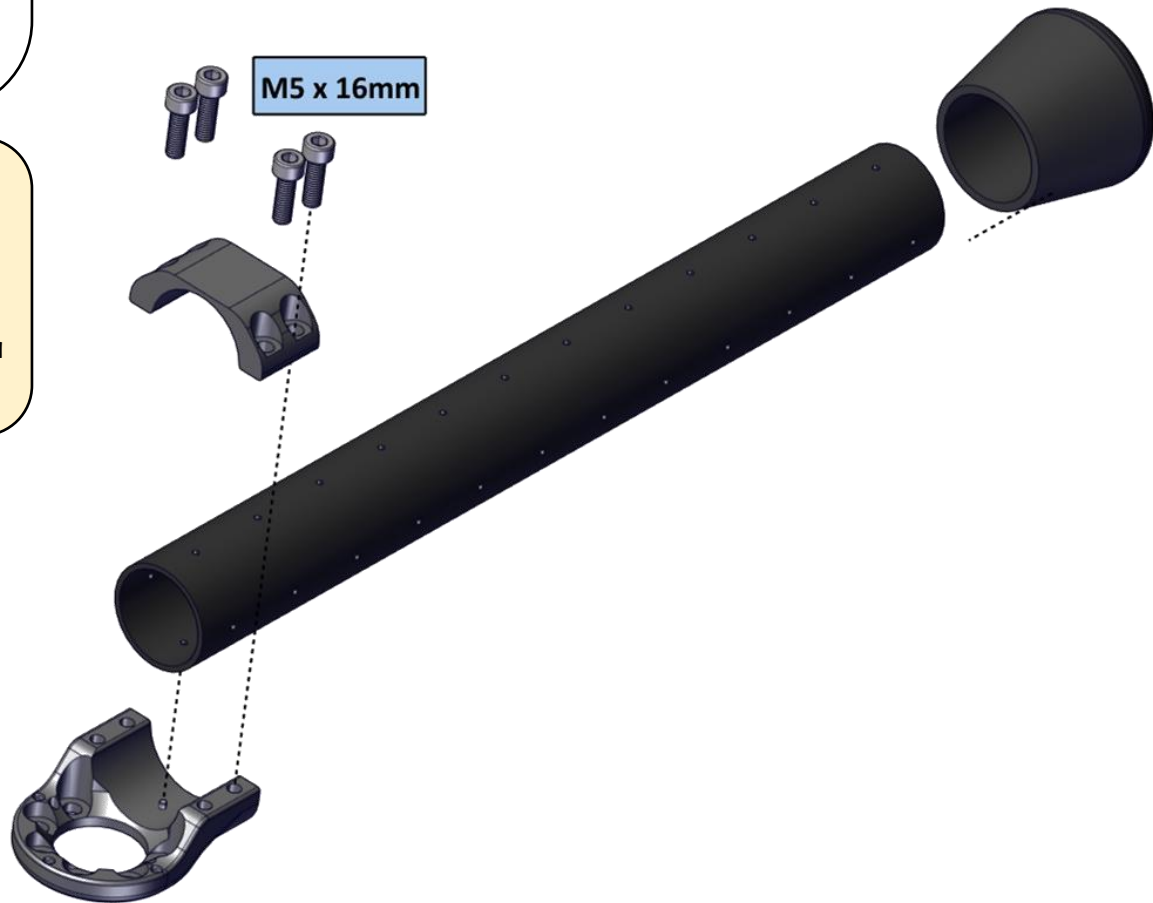
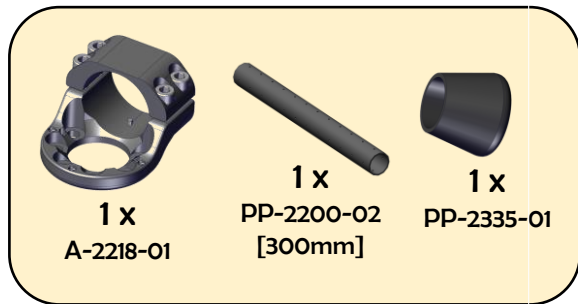
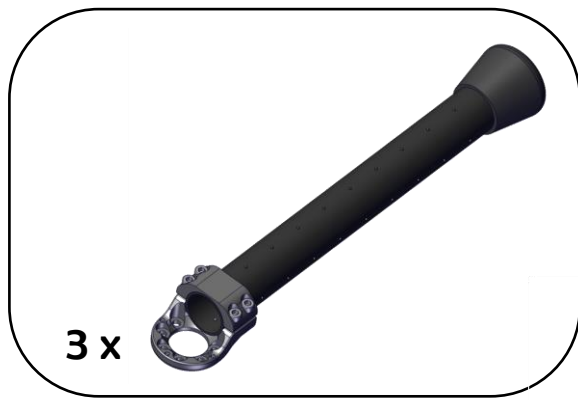


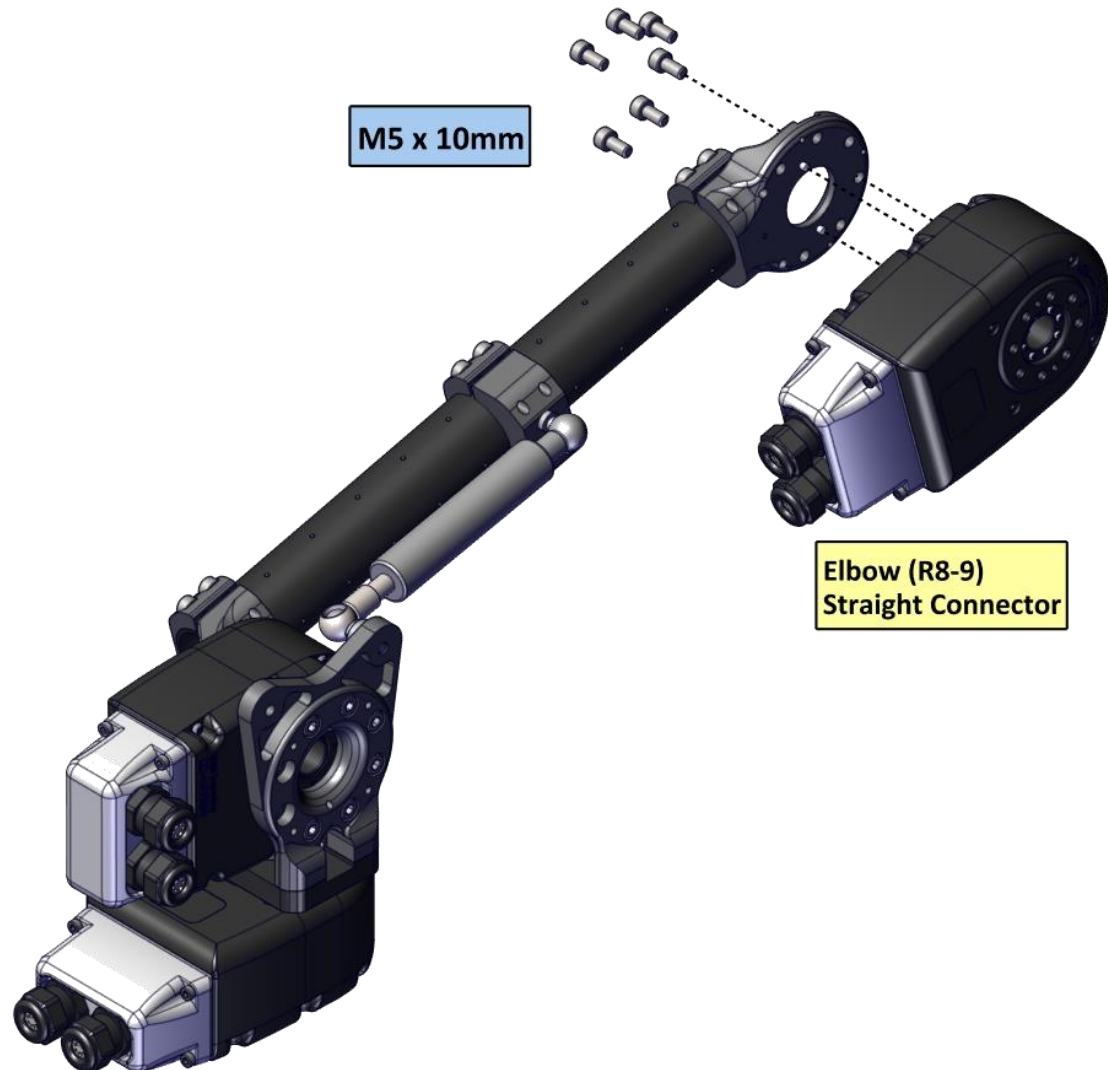
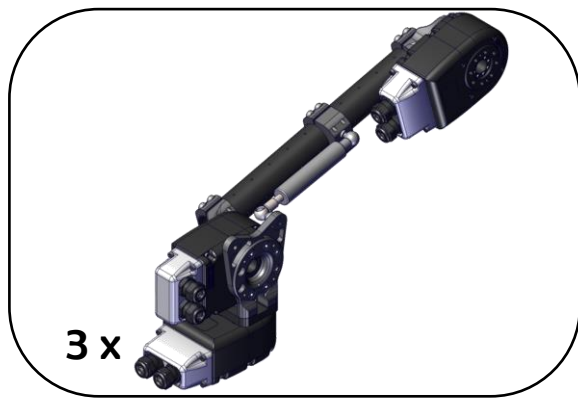


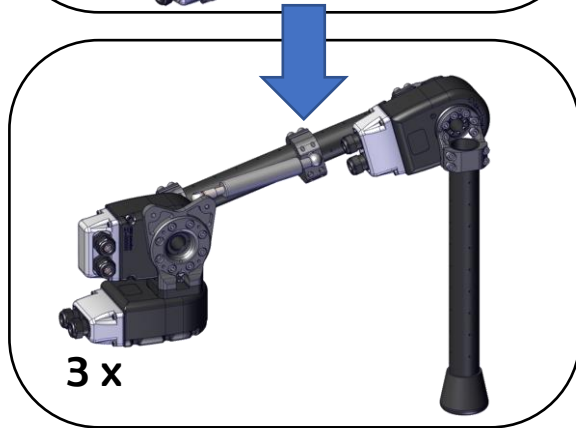
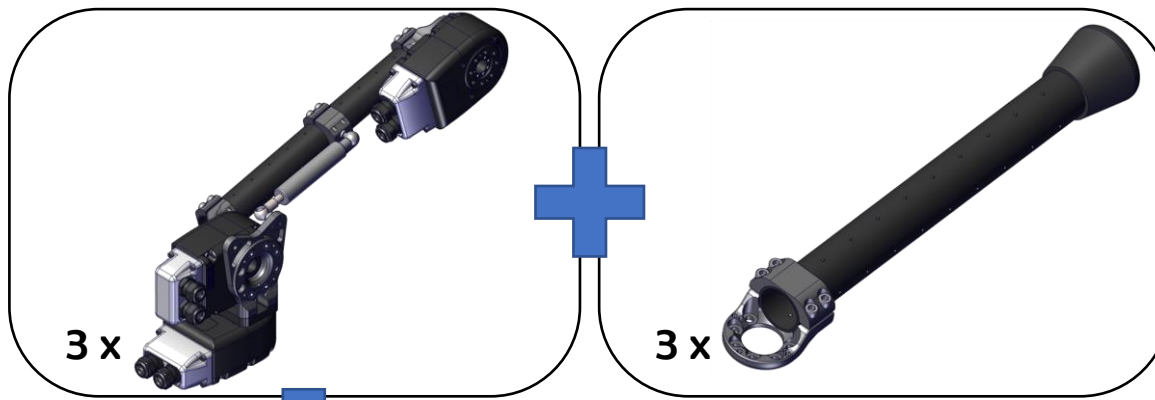
 **Align with actuator
output hub tick mark**
(Tube aligns with tick mark)



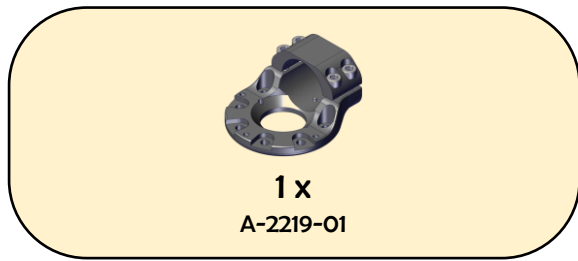
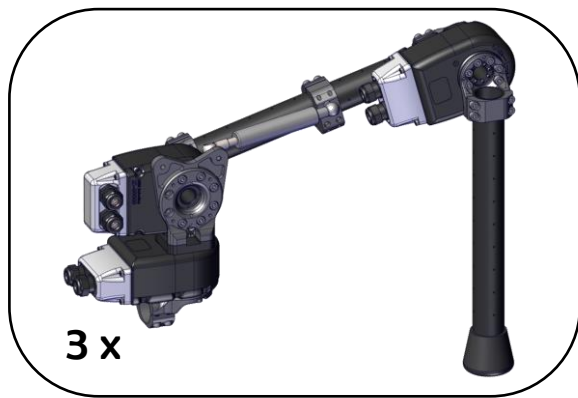








 **Align with actuator
output hub tick mark
(Tube aligns with tick mark)**



Wiring Notes

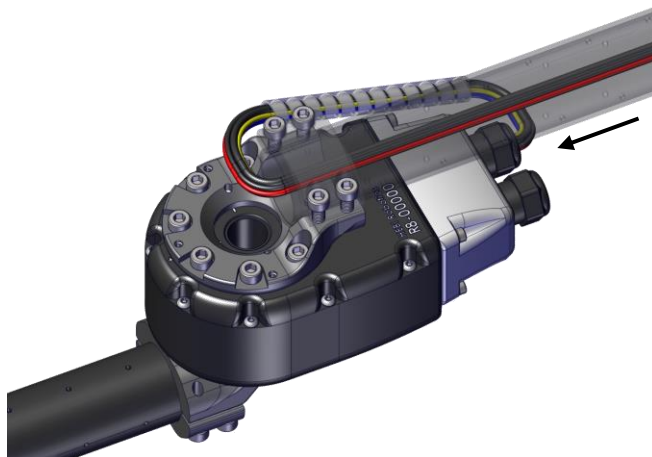
- Keeping wires organized will help prevent tangling and add a nice aesthetic.
 - Spiral sleeving is a good accessory for organizing loose wires
- Visit the following link to see detailed instruction on connecting wires to R-Series Modules.

<http://docs.hebi.us/#r-series-quickstart>

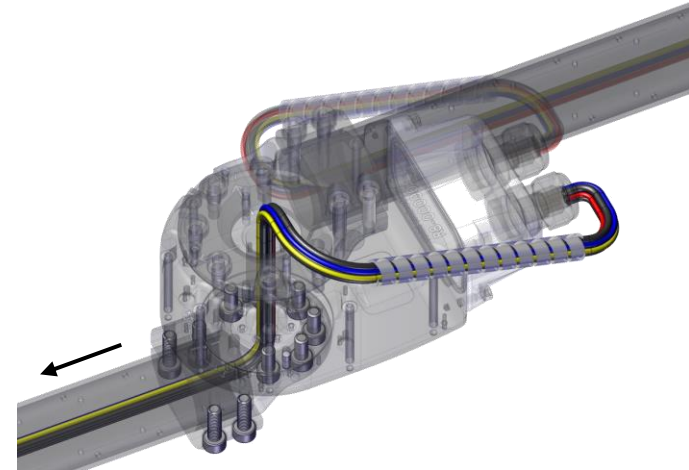
For more information visit: ***docs.hebi.us***



[Spiral sleeving]

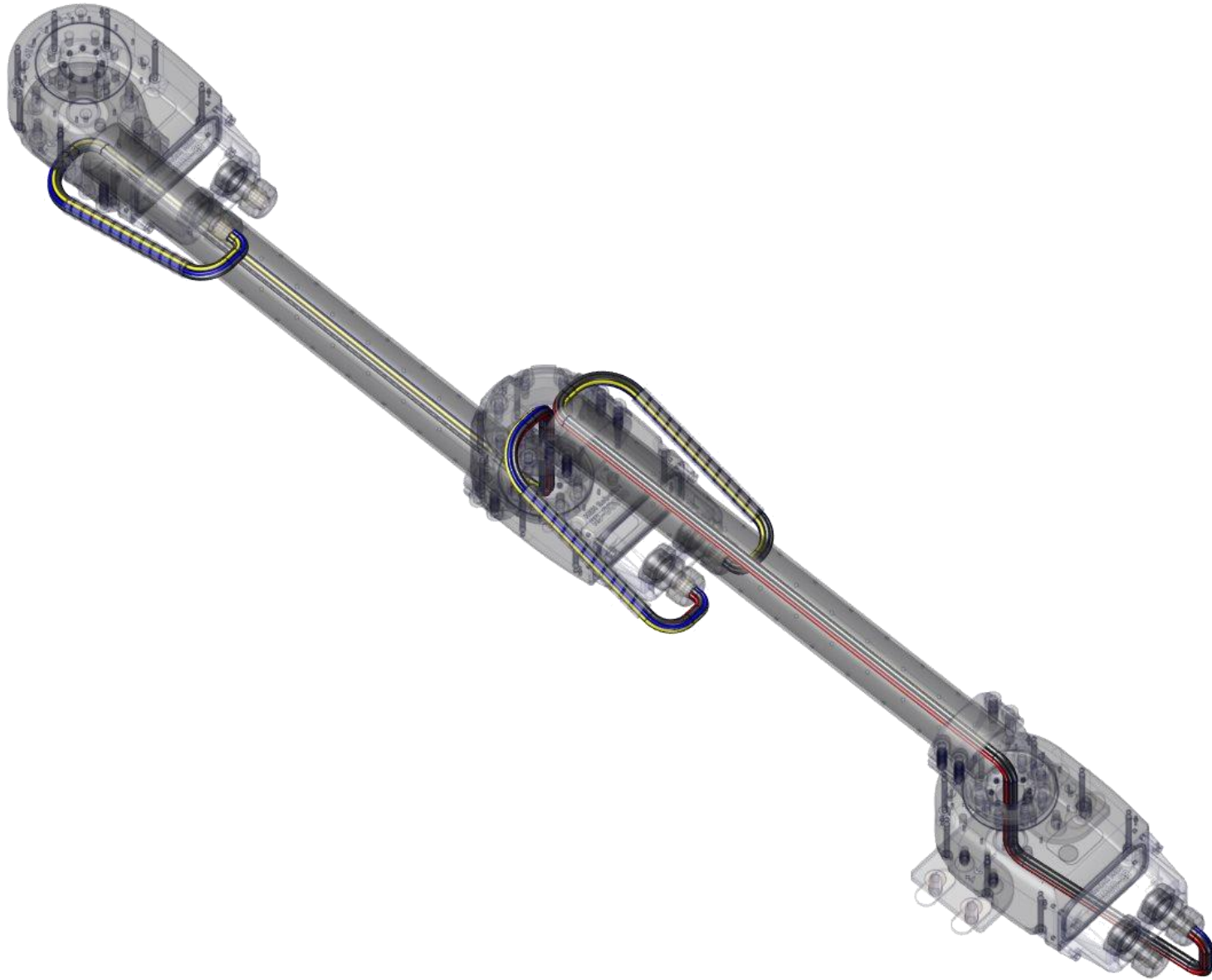


Wires that come from the previous joint should be inserted directly to actuator ports.

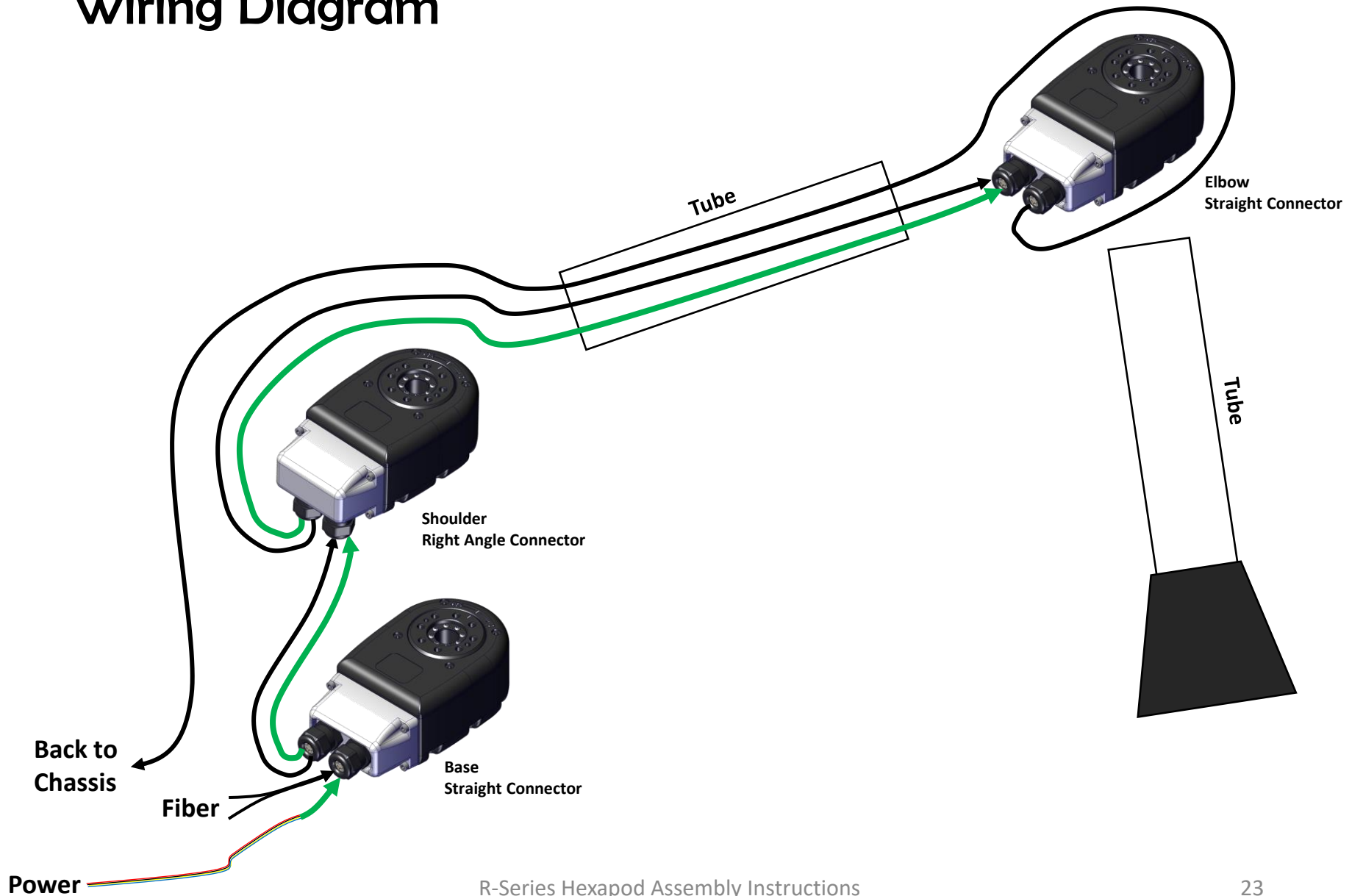


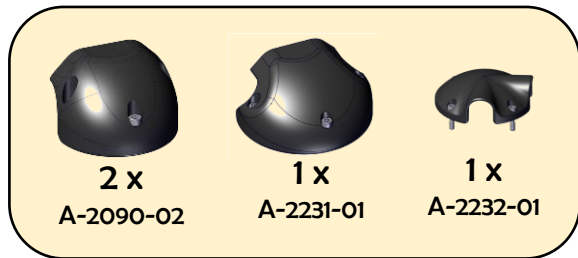
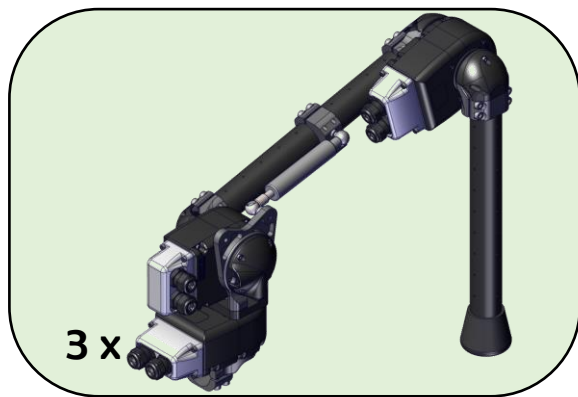
Wires that connect to the next joint should be threaded through the actuator's bore hole.

Wiring Example



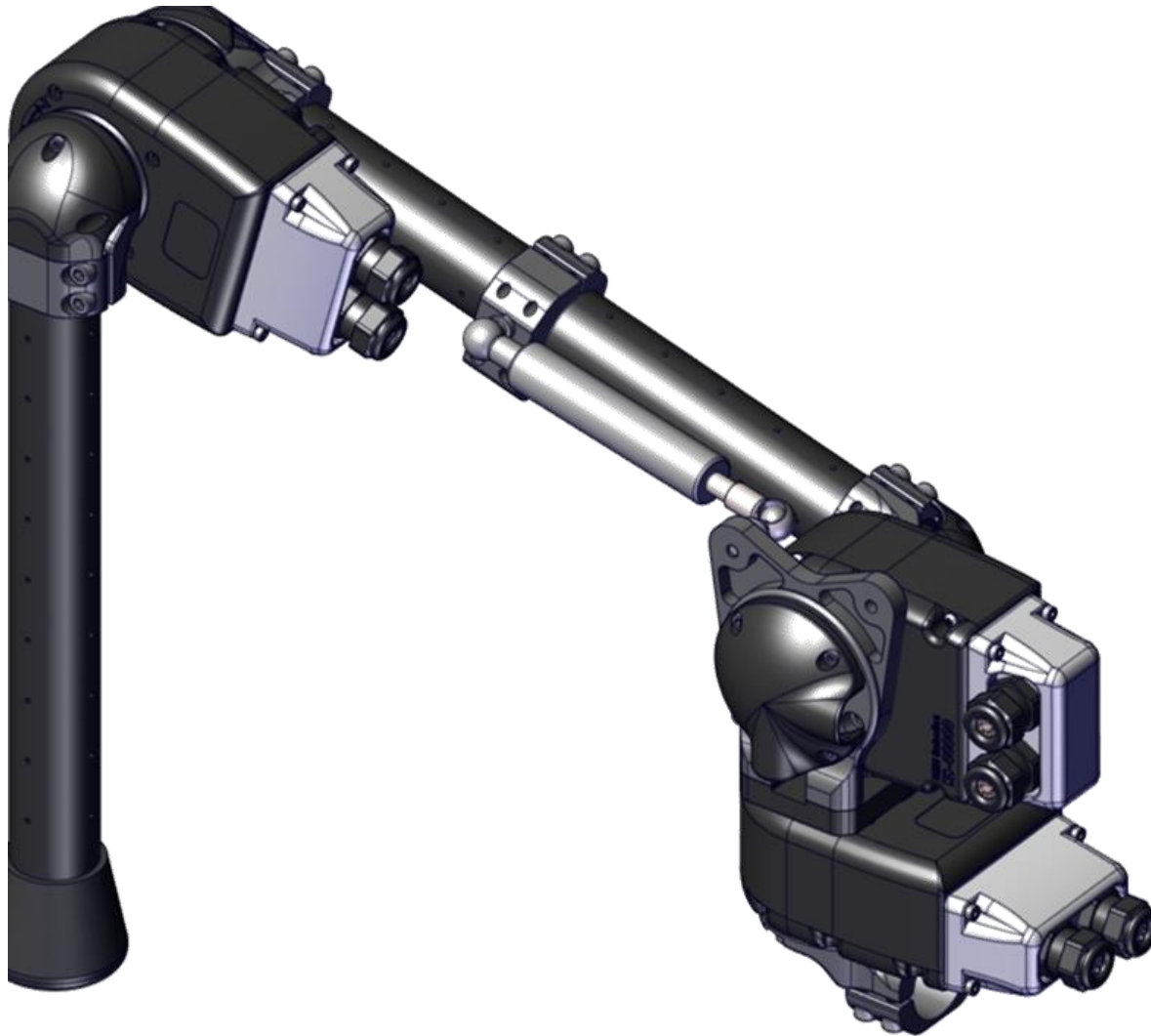
Wiring Diagram



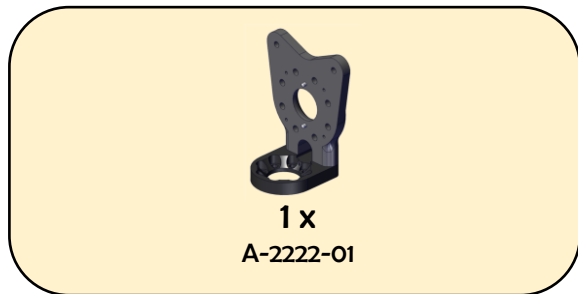


**Install cables before
adding caps**

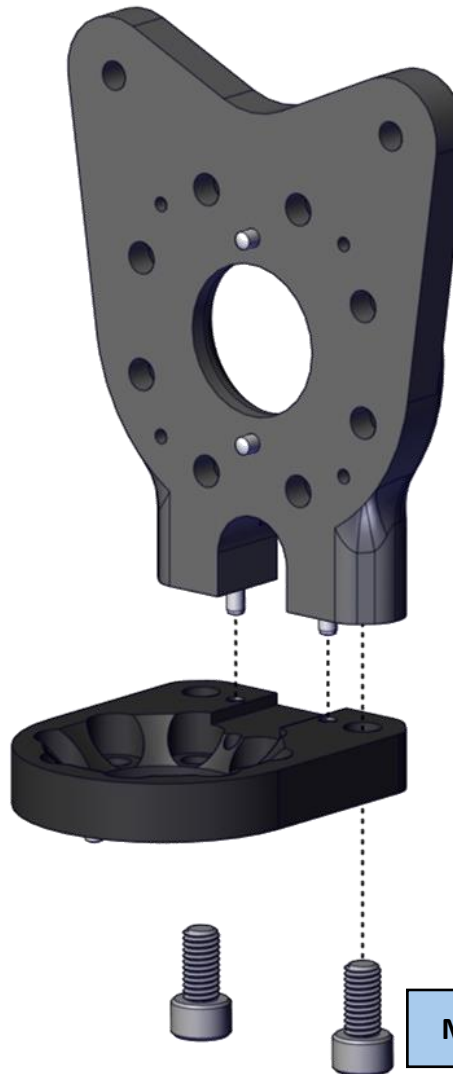


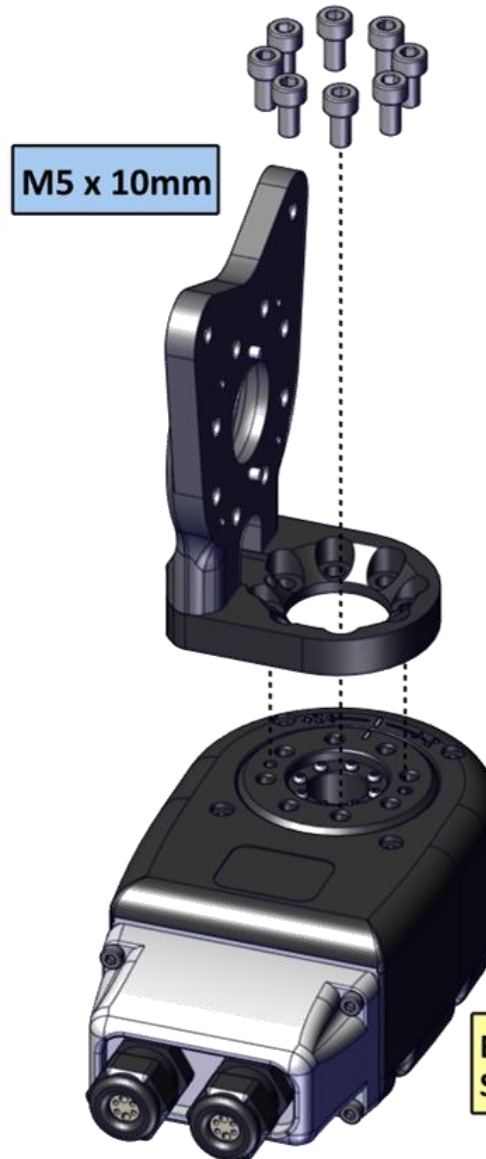
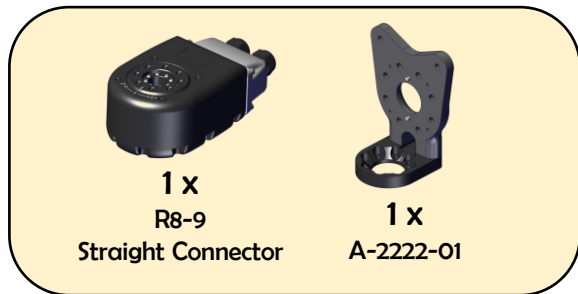


Right Legs



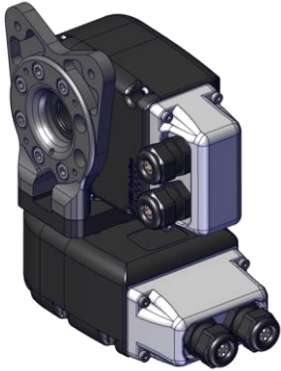
Flat face towards inside



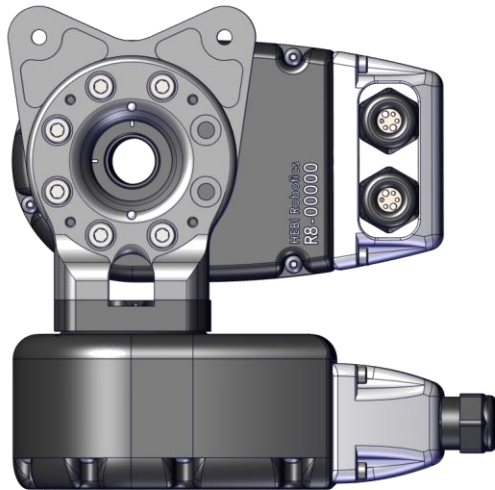


**Align with actuator
output hub tick mark
(inside face parallel with tick mark)**

3 x

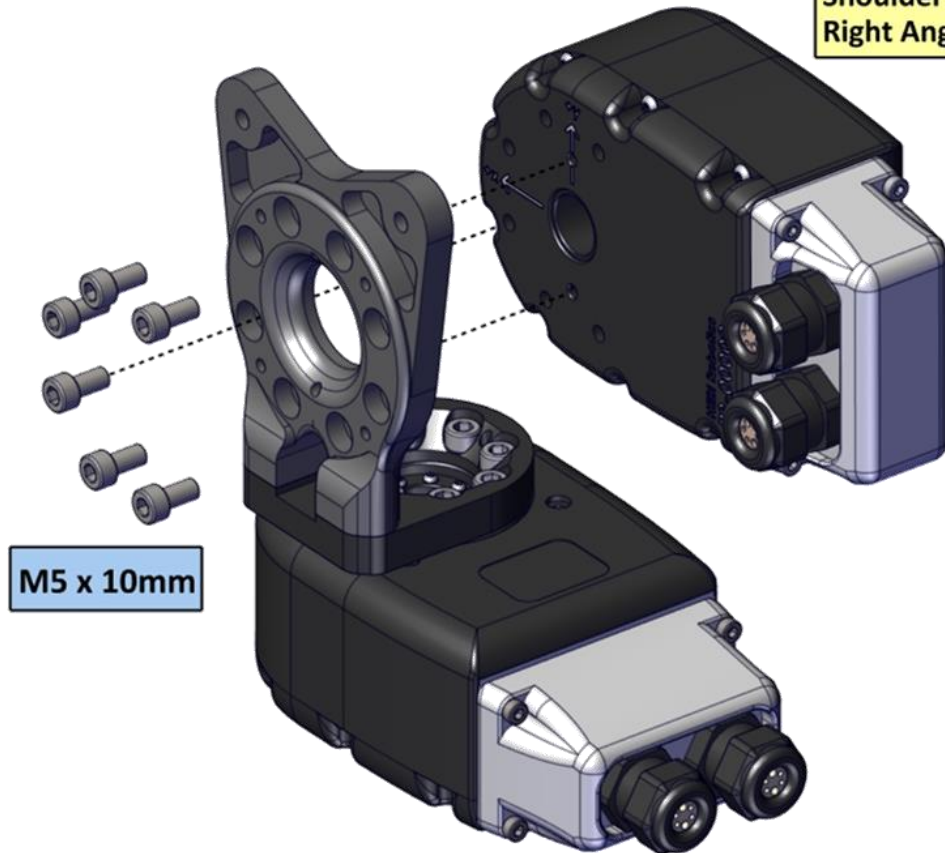


1 x
R8-16
Right Angle Connector

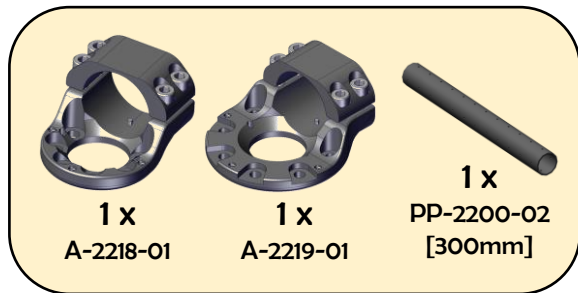
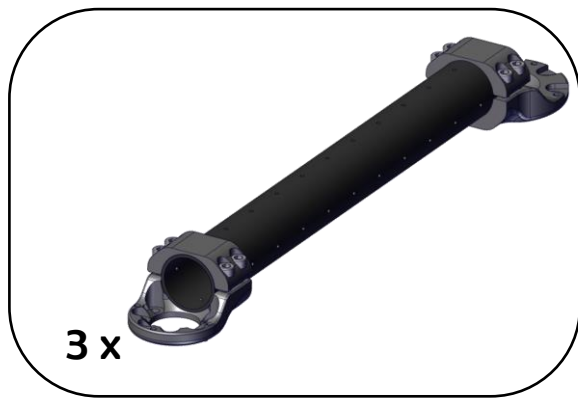


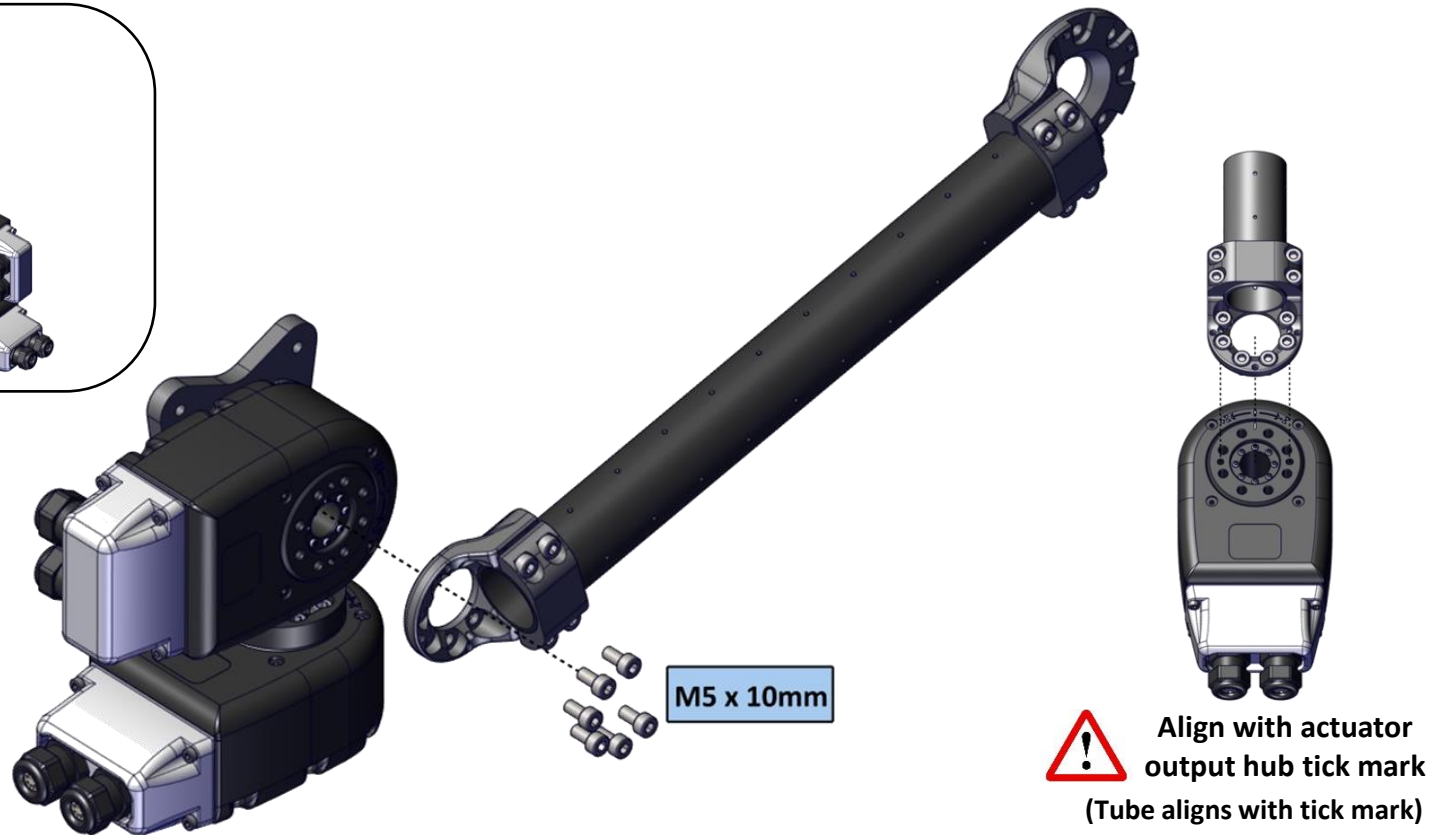
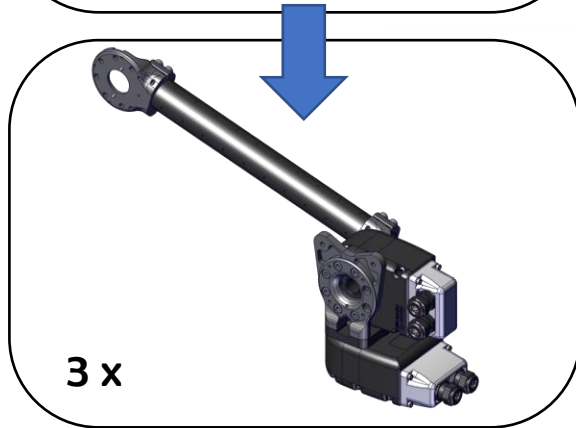
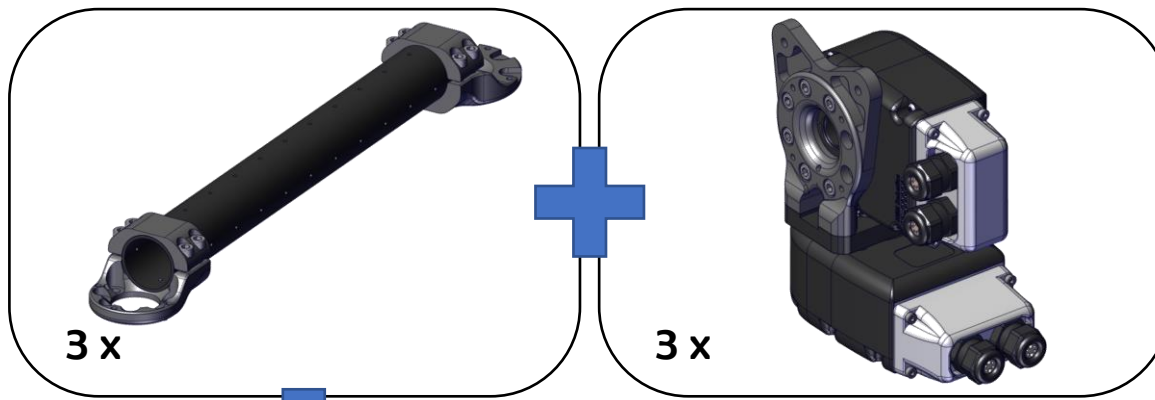
Connectors of both modules
point the same way

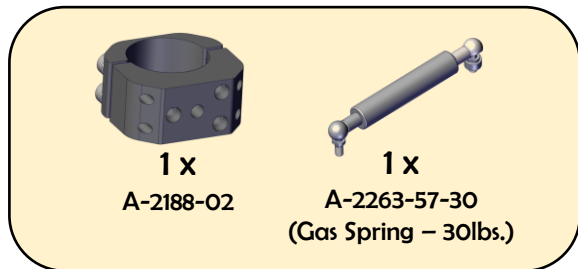
Shoulder (R8-16)
Right Angle Connector

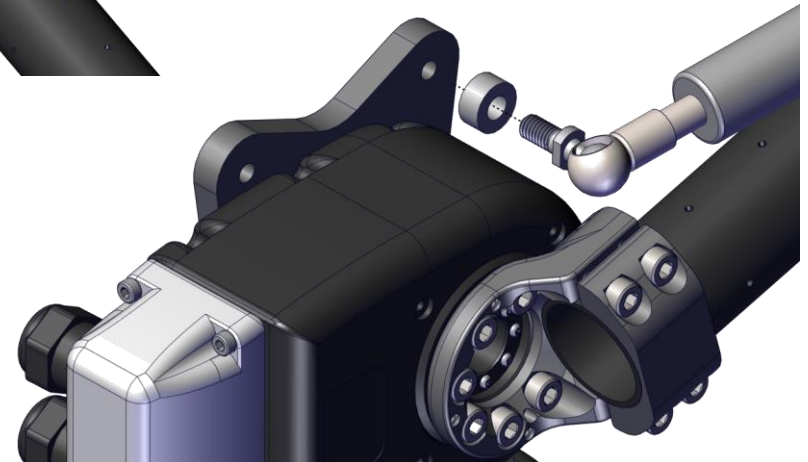
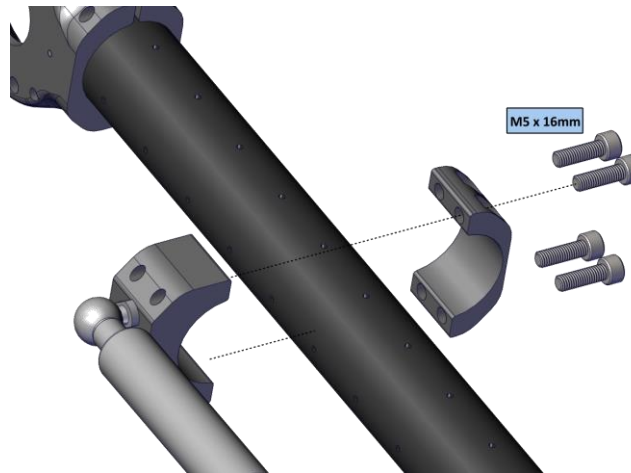
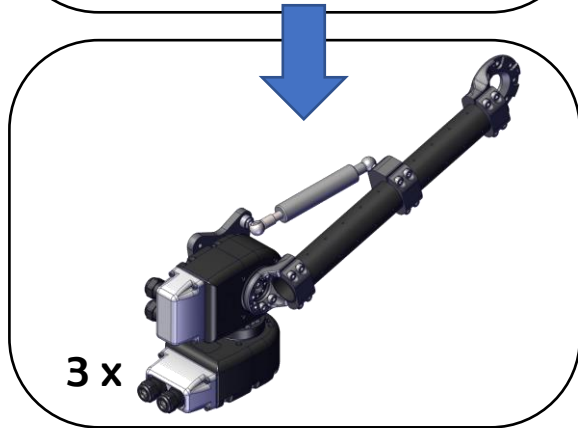
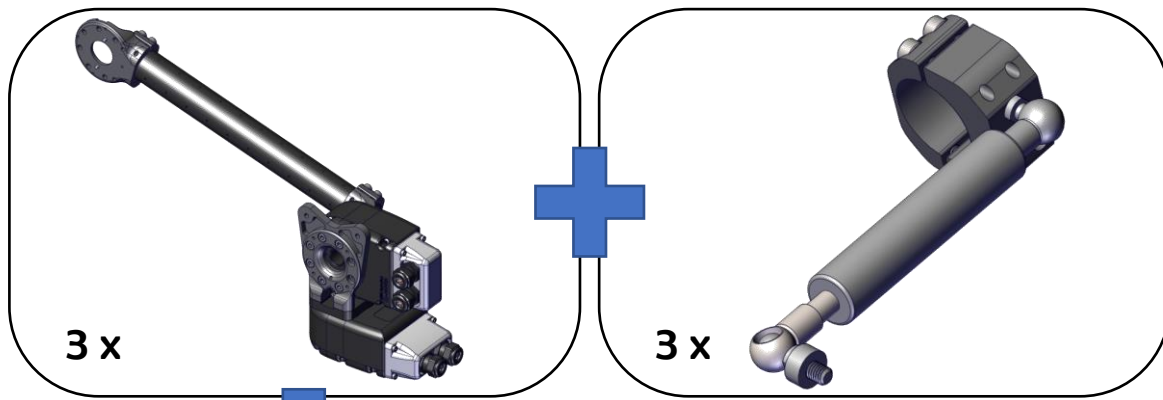


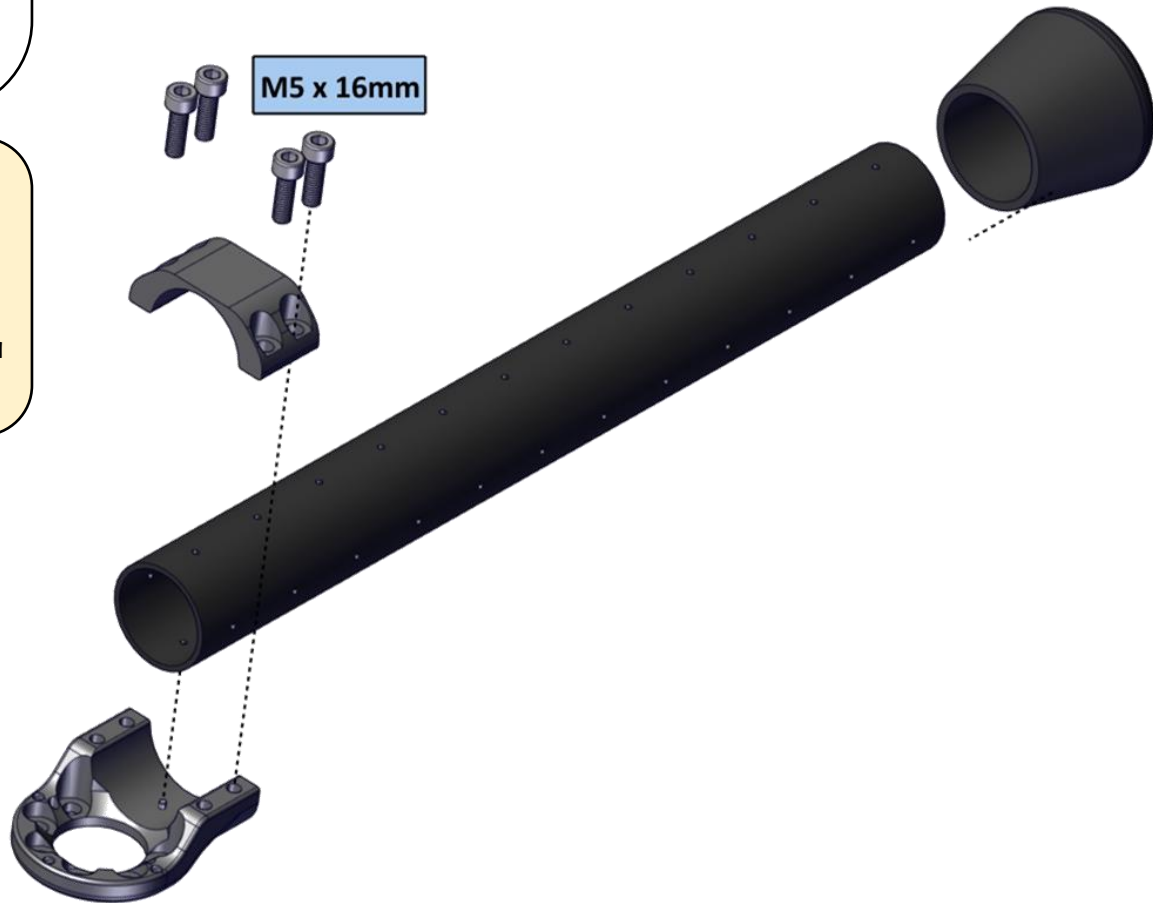
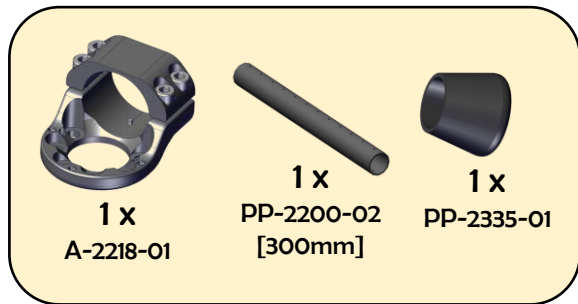
M5 x 10mm

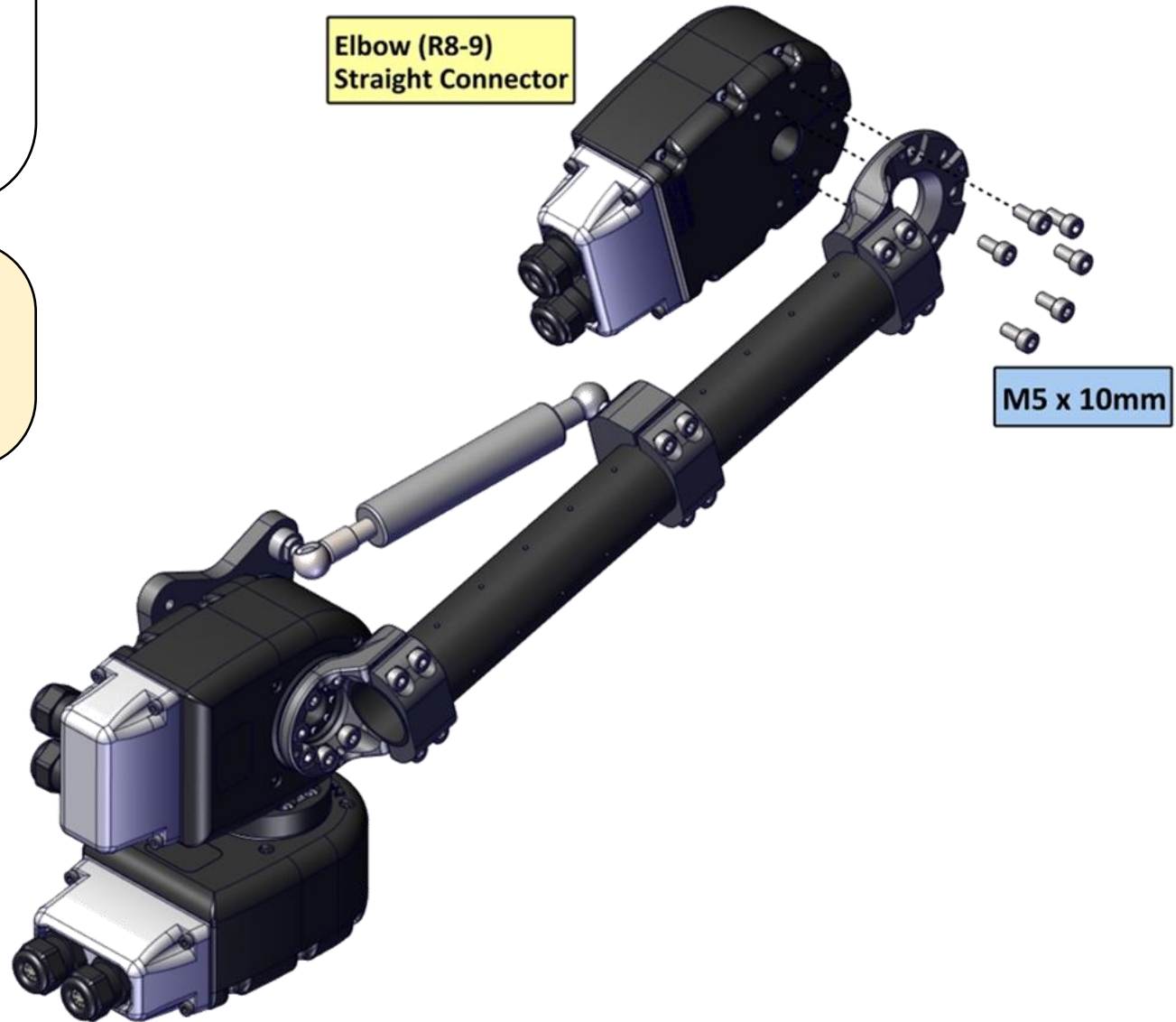
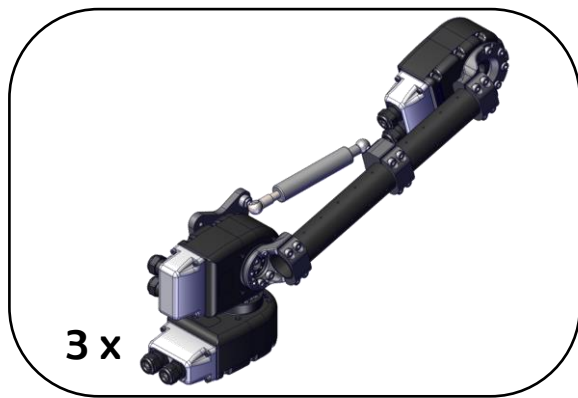


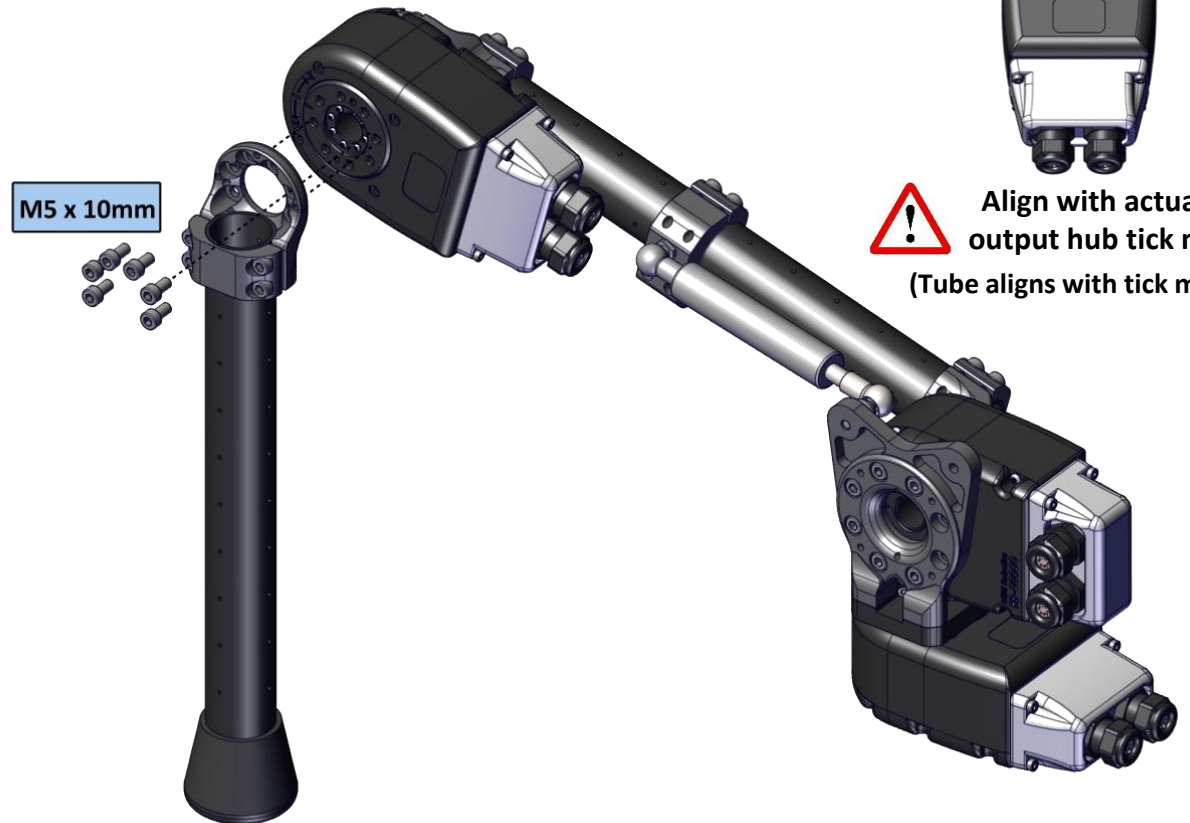
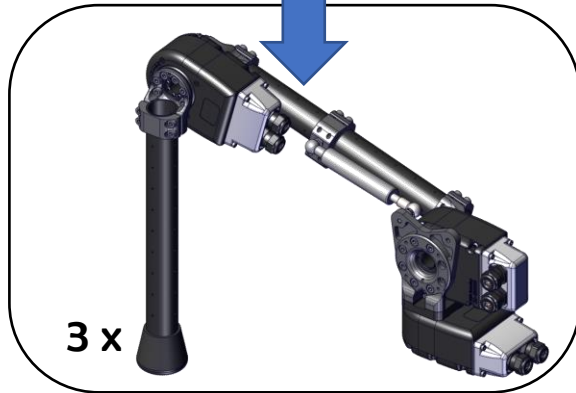
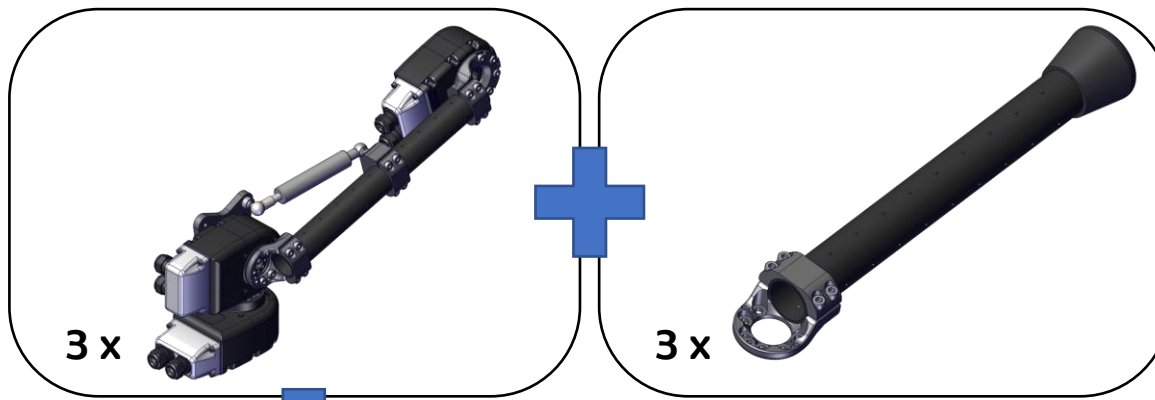


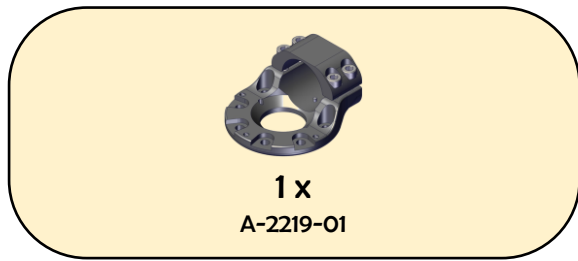
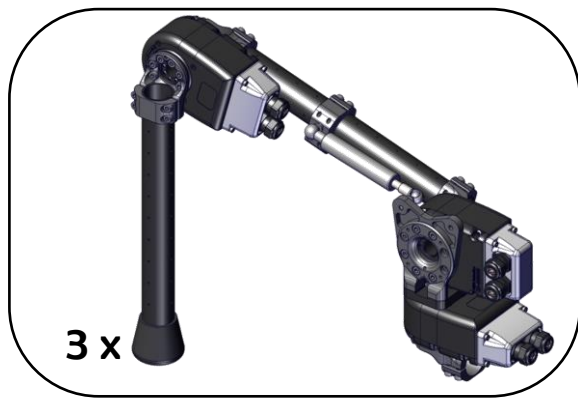




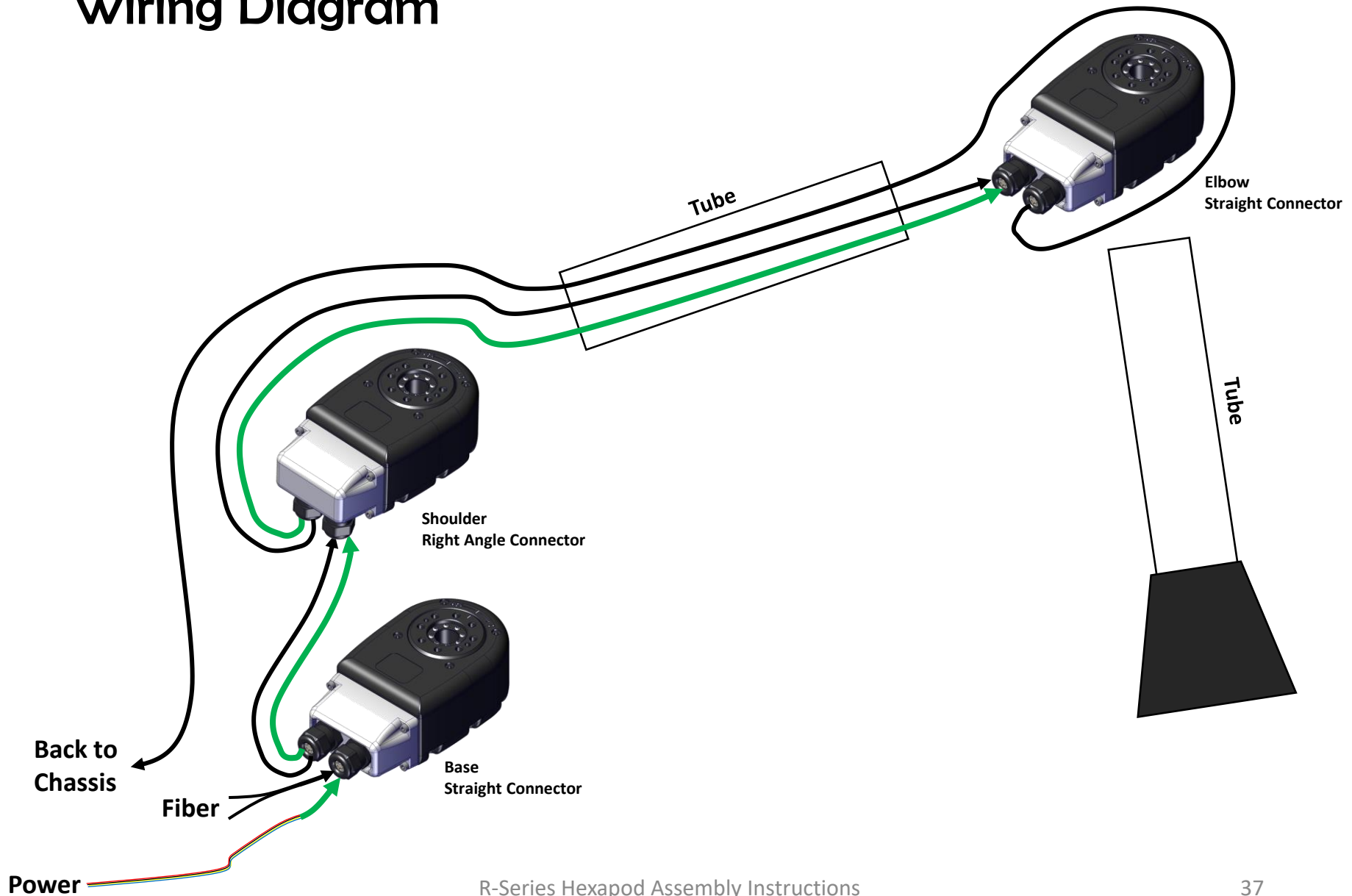


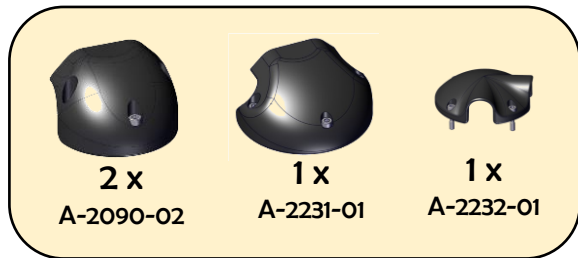
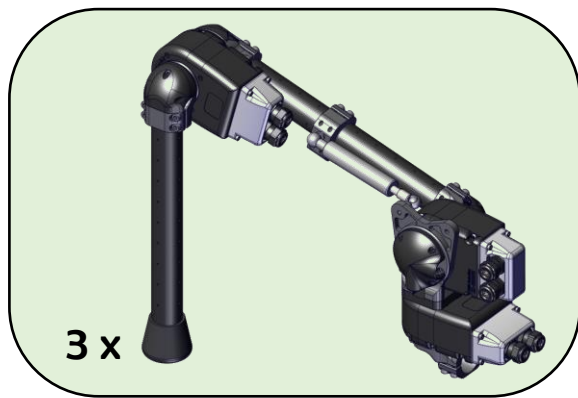




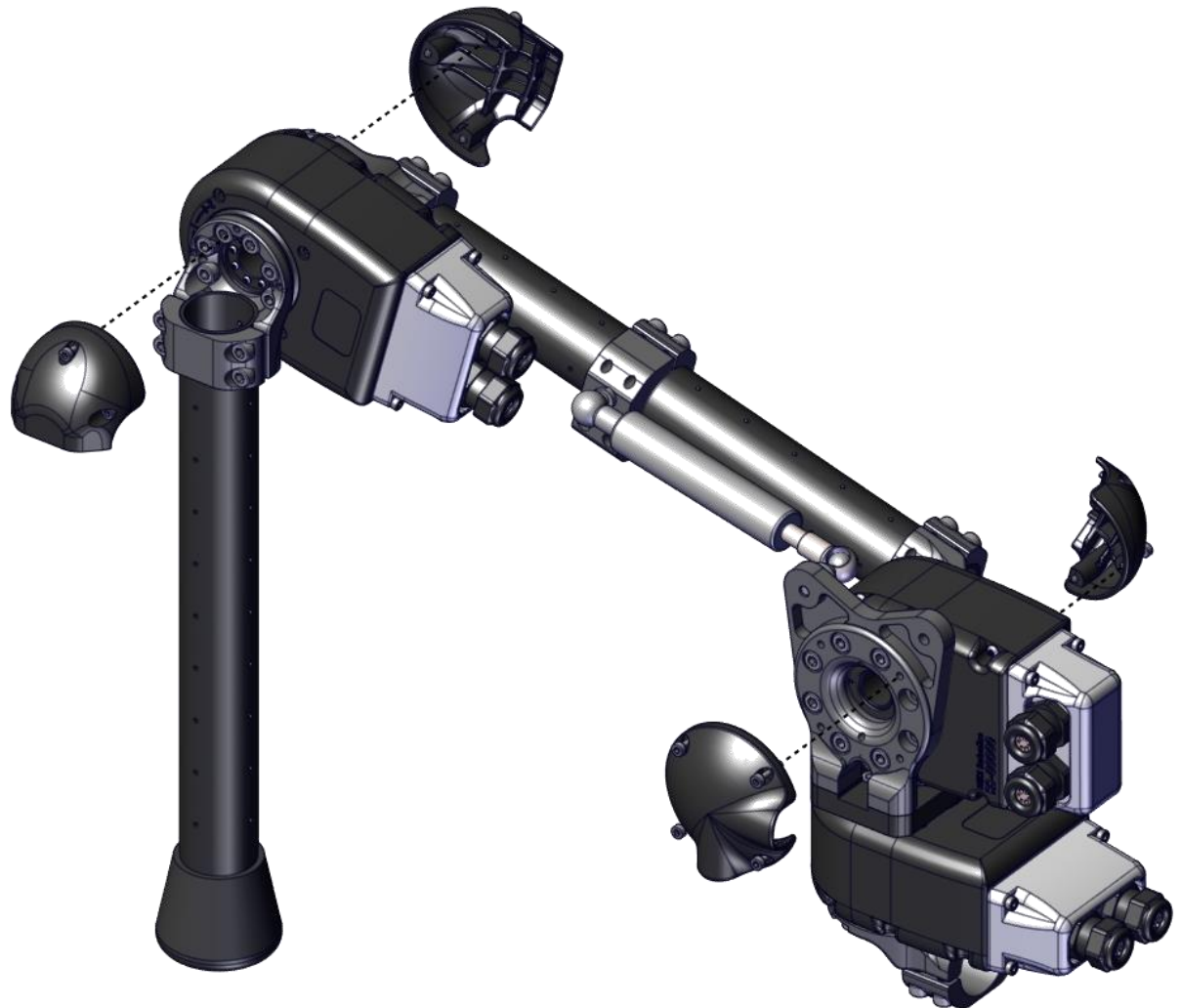


Wiring Diagram



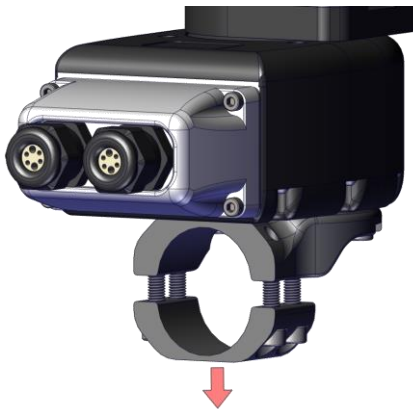
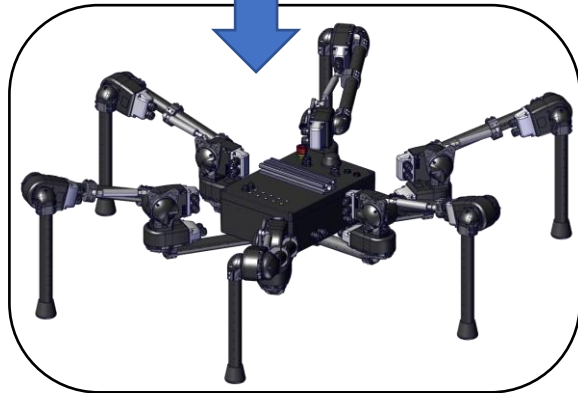
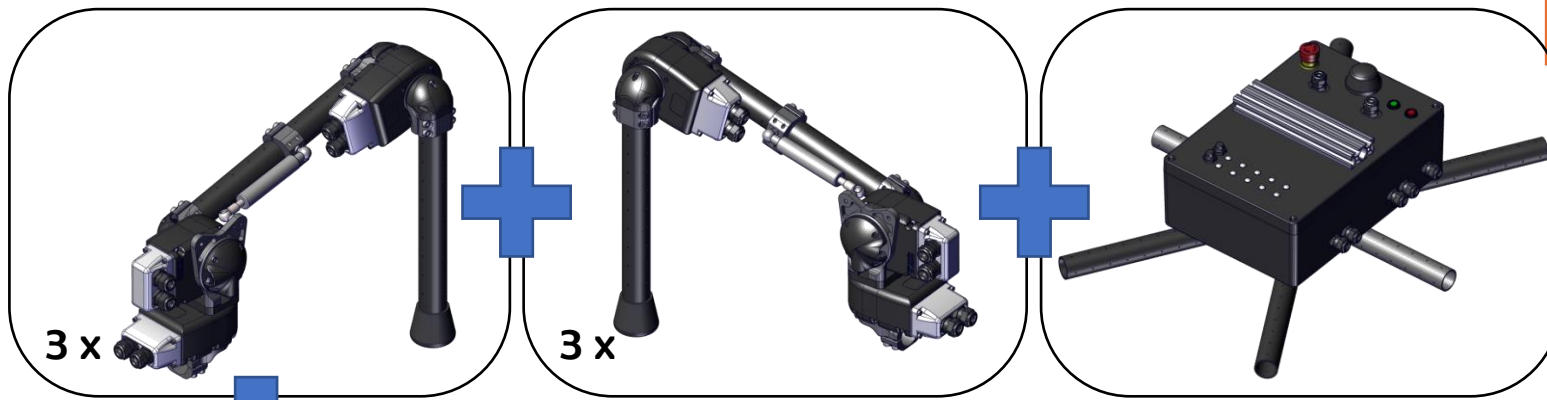


**Install cables before
adding caps**

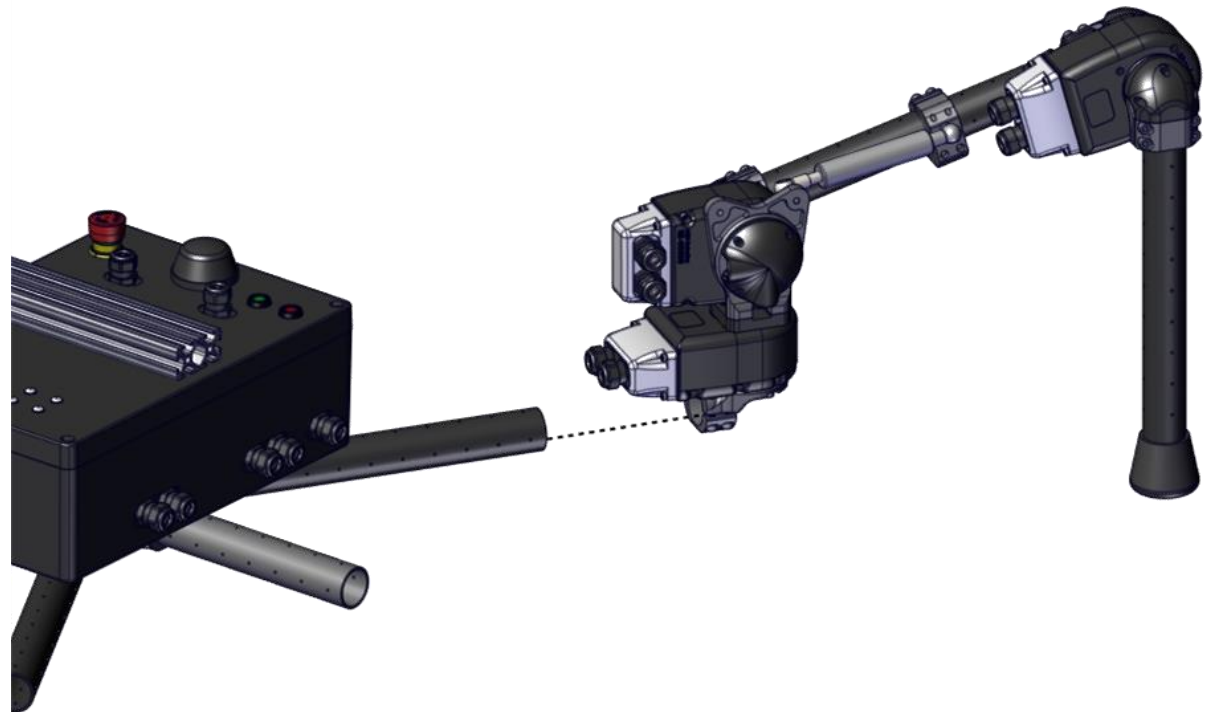




Final Assembly

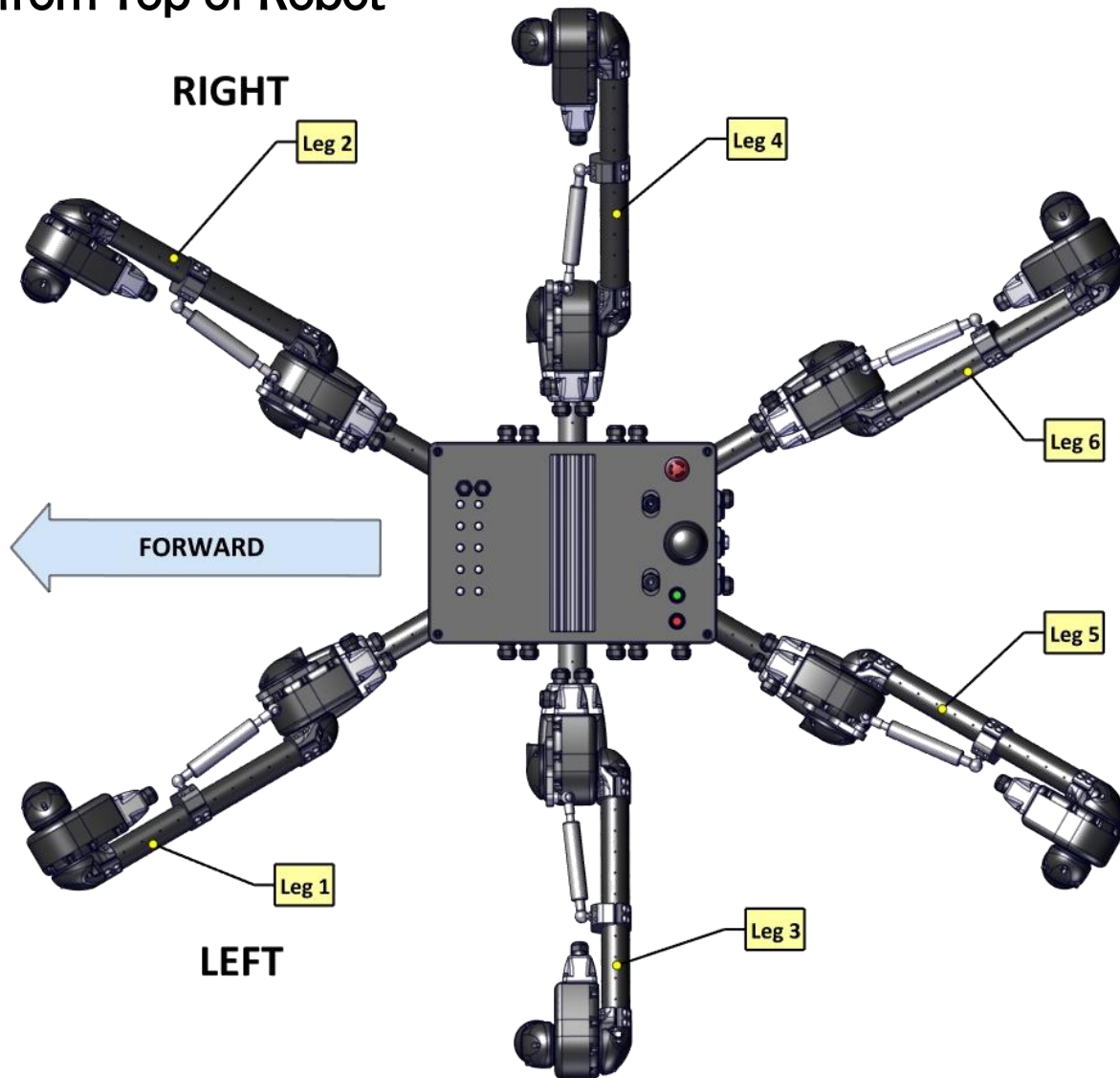


**Loosen M5 X 16mm Screws
to create clearance for the tube**



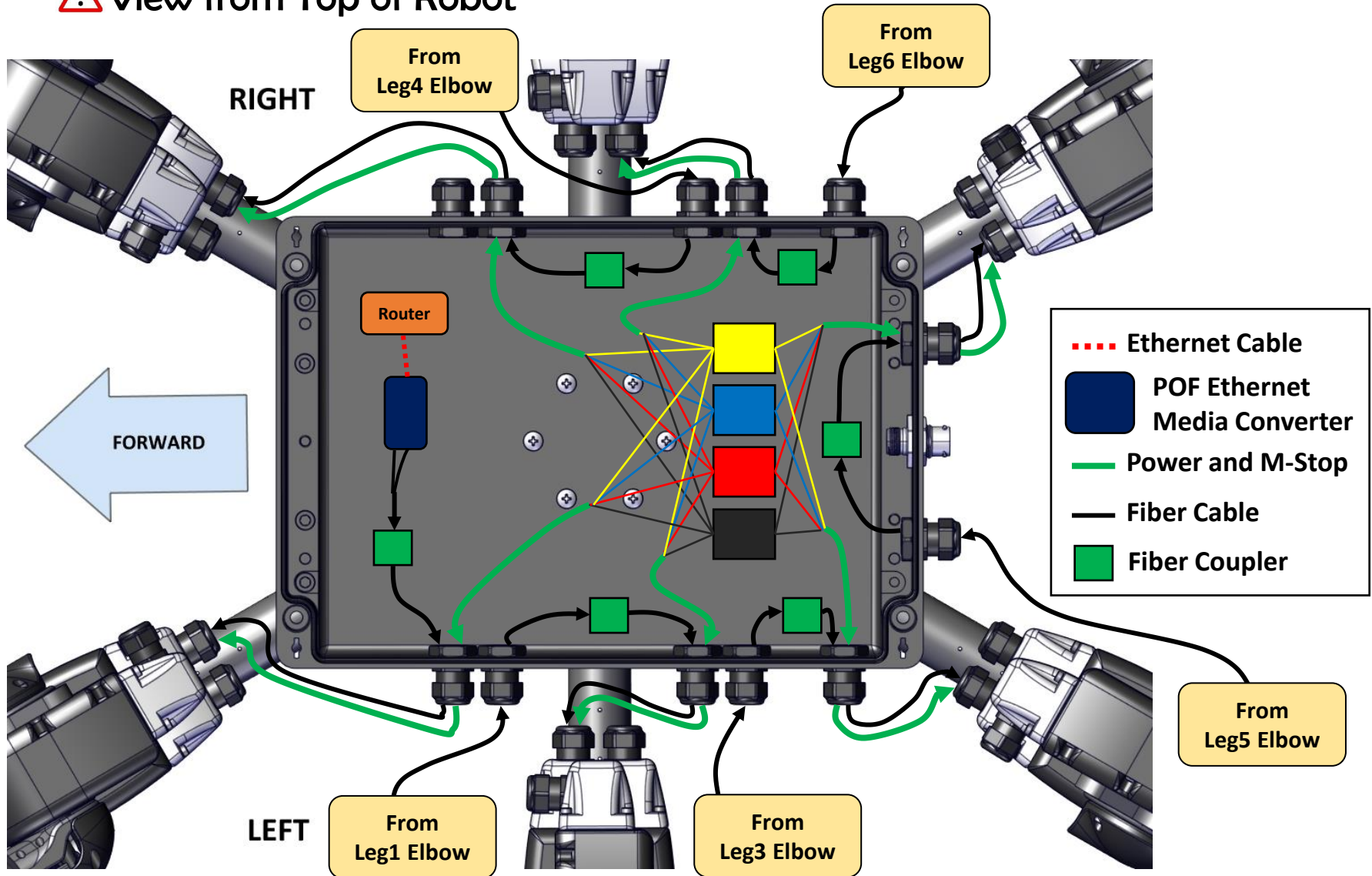
Leg Layout

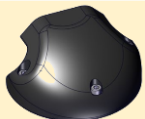
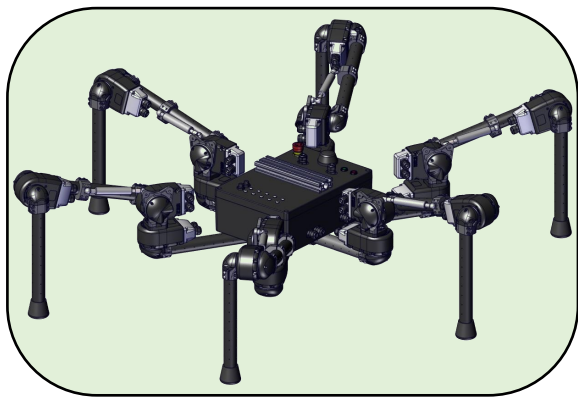
⚠ View from Top of Robot



Wiring Diagram

⚠ View from Top of Robot





6 x
A-2231-01



**Install cables before
adding caps**

Leg Dimensions

⚠ View from Top of Robot

