



X-Series Hexapod

Assembly Instructions



General Warnings and Cautions

Danger (May cause serious injury or death)

- Keep water, flammables, solvents and other liquids clear from actuator.
- Never place fingers, arms, toes and other body parts near actuator during operation.
- Cut power if actuator emits strange odors or smoke.
- Keep actuator out of reach of children.

Warning (May cause injury or damage to actuator)

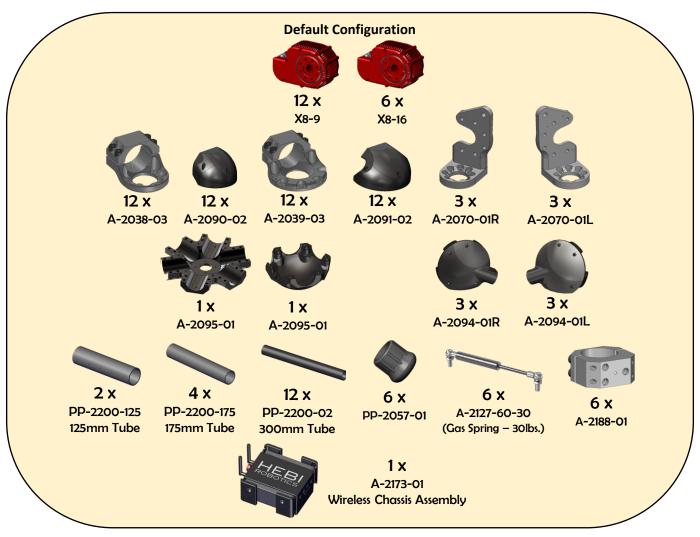
- Before operating, read all applicable instructions and notices found here: http://docs.hebi.us/#quickstart-guide-x-series-actuator
- Comply with the operating temperature (-10°C to 50°C)
- Turn off power source before connecting or disconnecting actuator power.
- Do not expose the actuator to permanent and strong magnetic fields.
- The actuator must not be exposed to dusty or wet environments.
- If actuator is under load, abruptly removing the power connection can cause permanent damage.
- Do not force screws into the bottom of the actuator.
 - X5: 5mm tap depth

- X8: 7mm tap depth
- Use provided hardware with accessories and hand tighten as needed.
- Do not attempt to disassemble actuator, this will void the warranty and can cause permanent damage.

For more information please visit: docs.hebi.us



Bill of Materials - Mechanical*



^{*}fasteners included, not shown*



Bill of Materials - Electrical

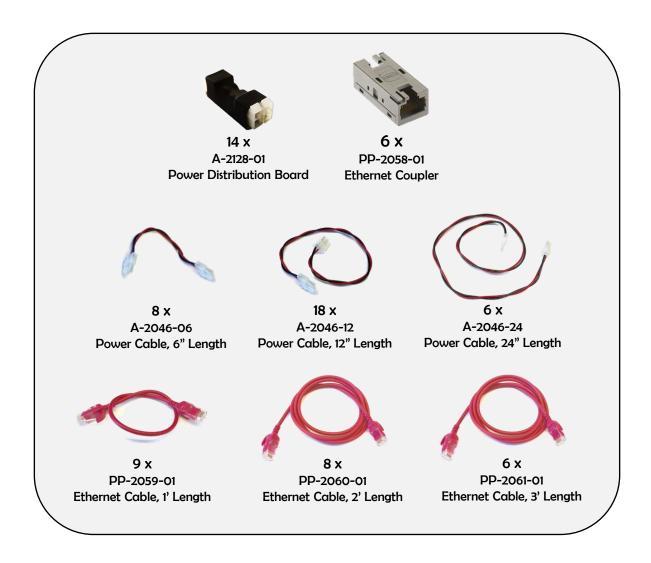
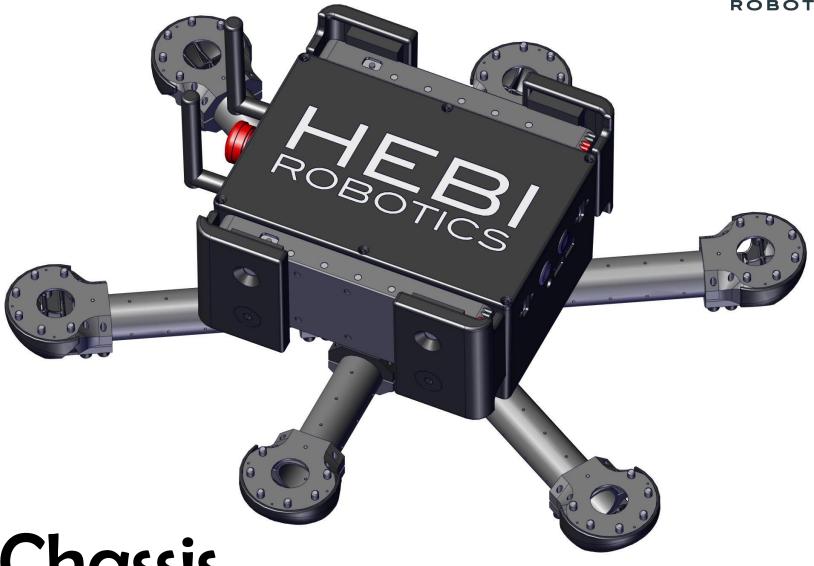




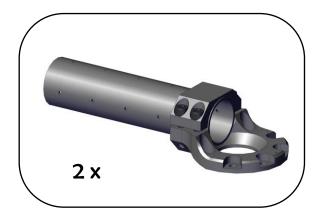
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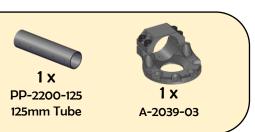


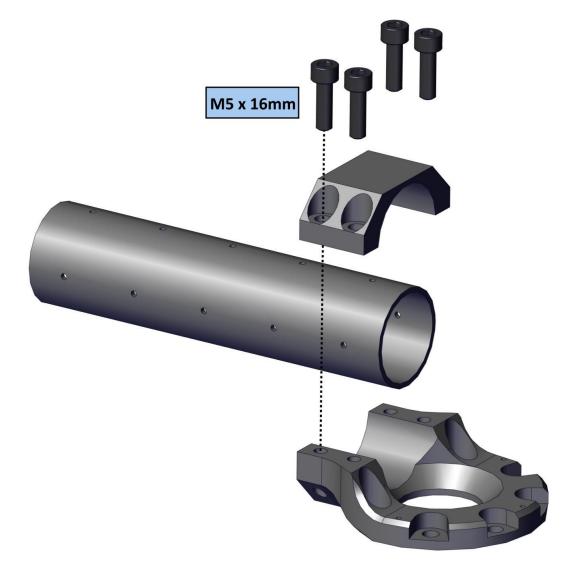


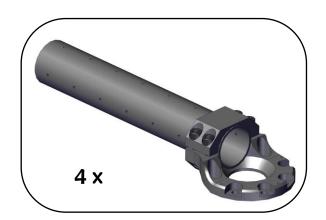
Chassis









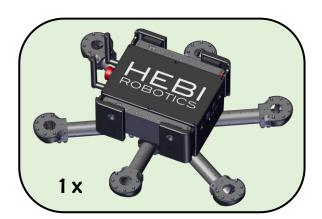


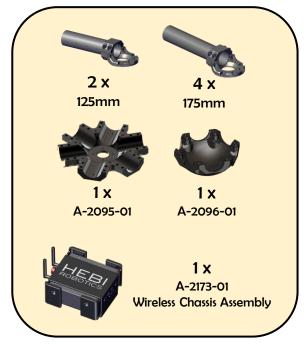


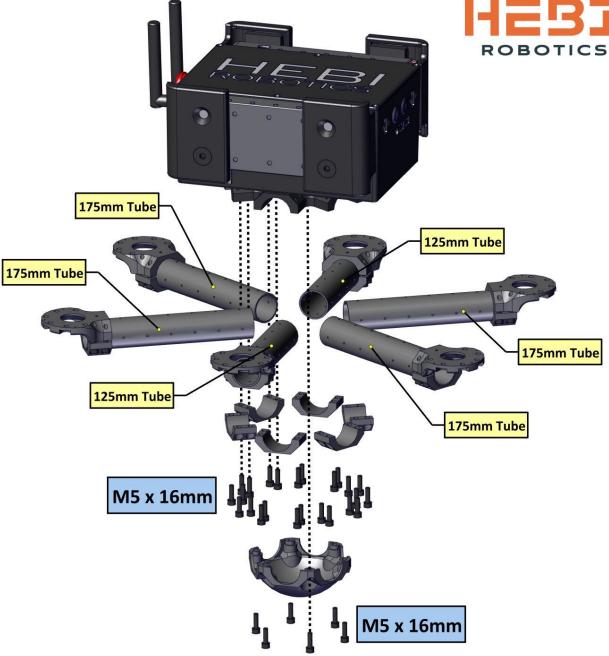


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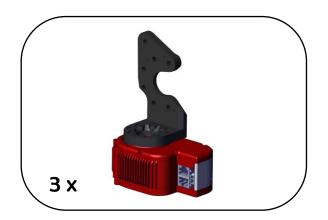


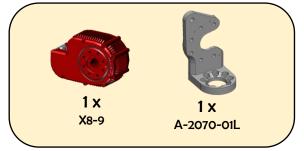


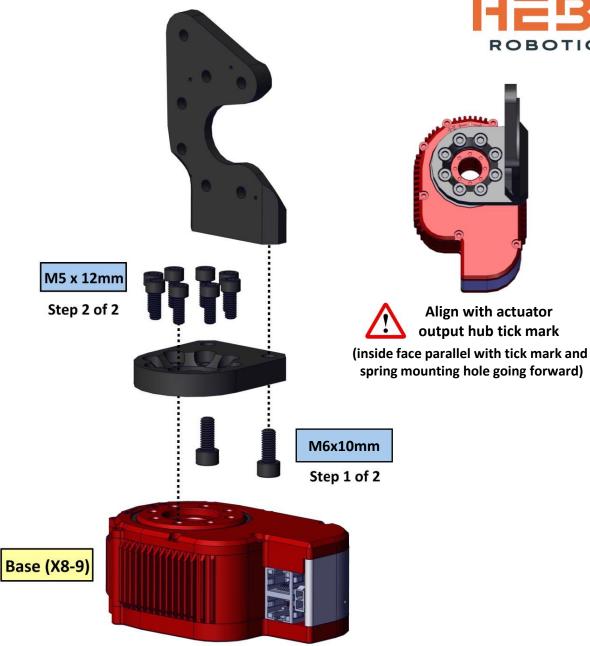




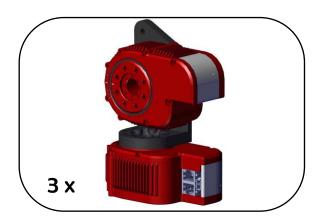
Left Legs





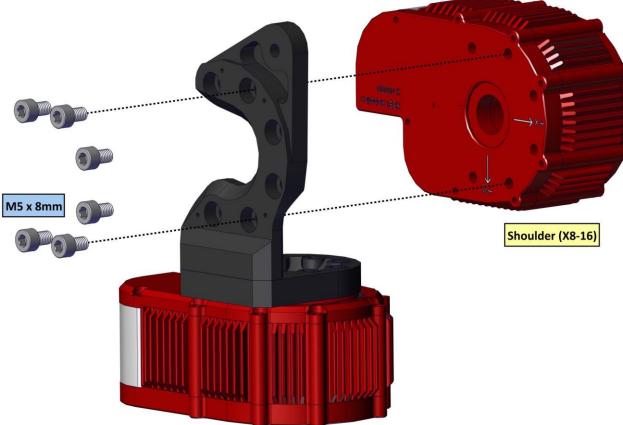


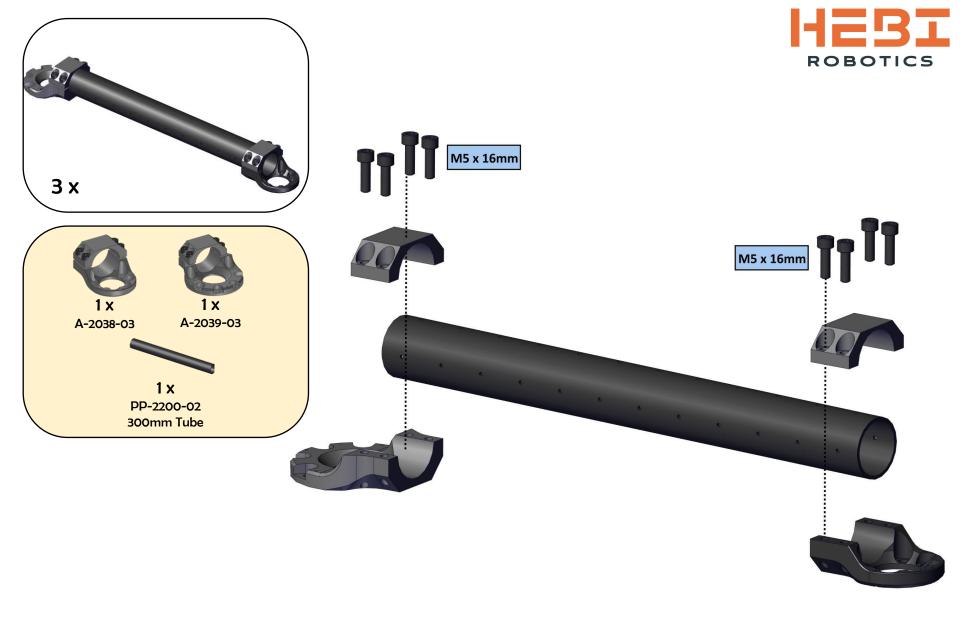
ROBOTICS

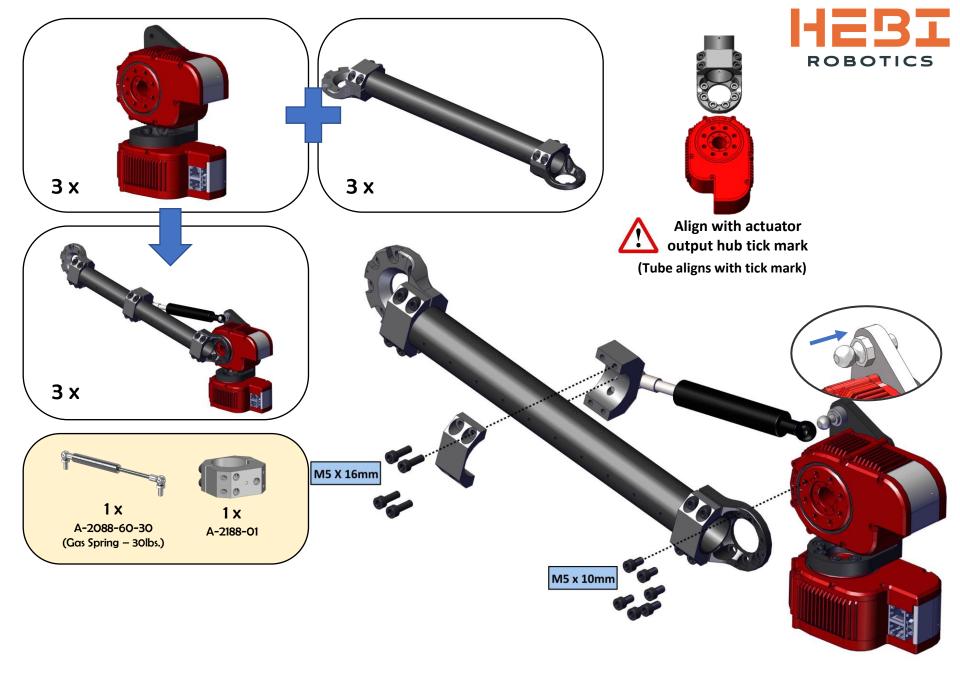










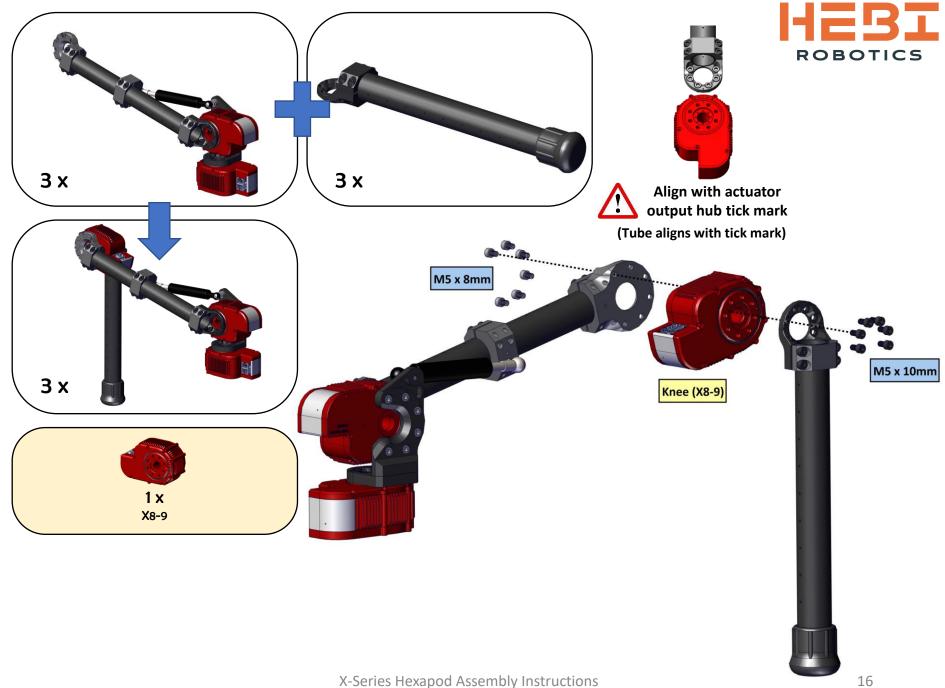


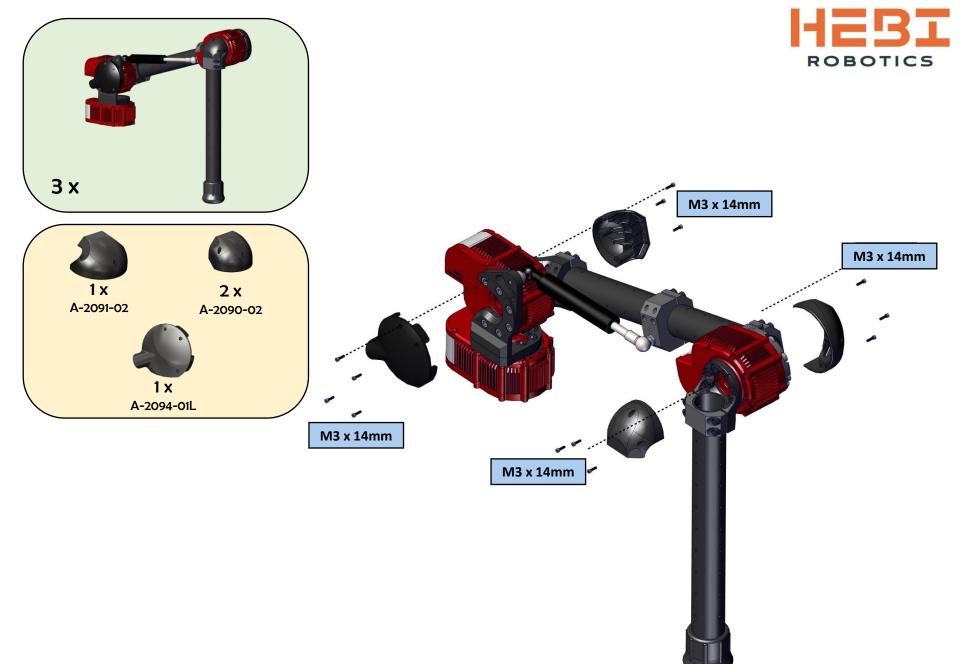








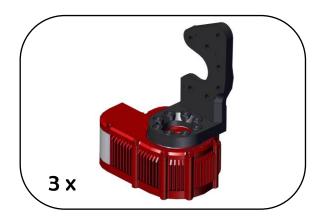


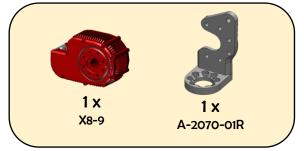




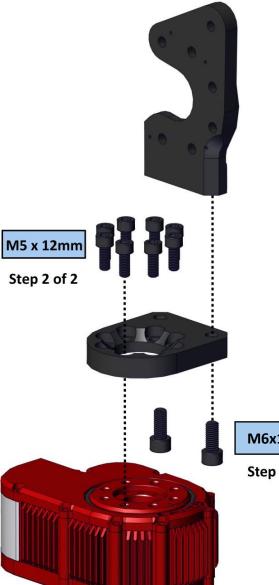


Right Legs

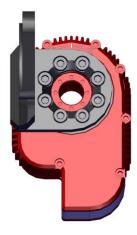




Base (X8-9)



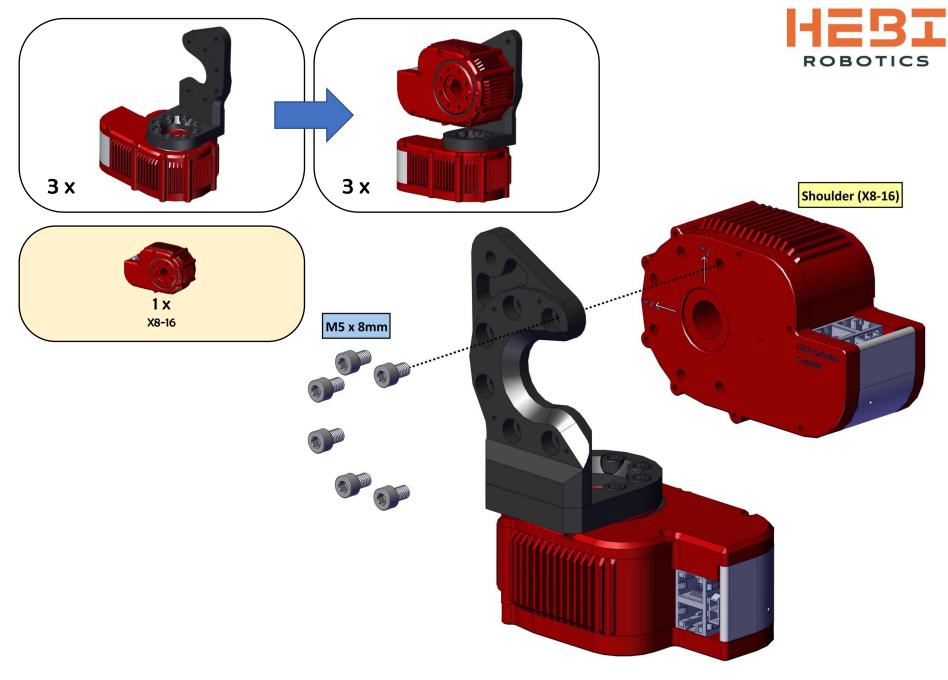




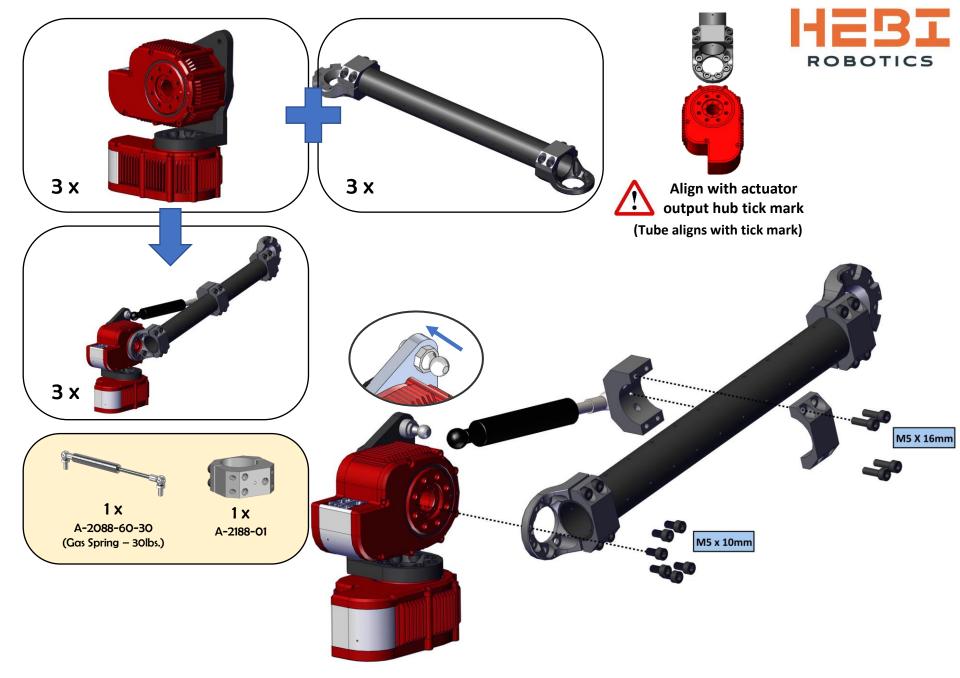
Align with actuator output hub tick mark (inside face parallel with tick mark and spring mounting hole going forward)

M6x10mm

Step 1 of 2

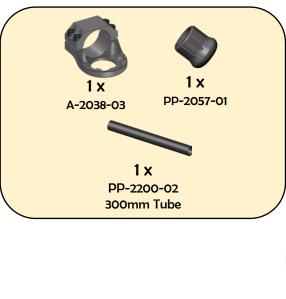




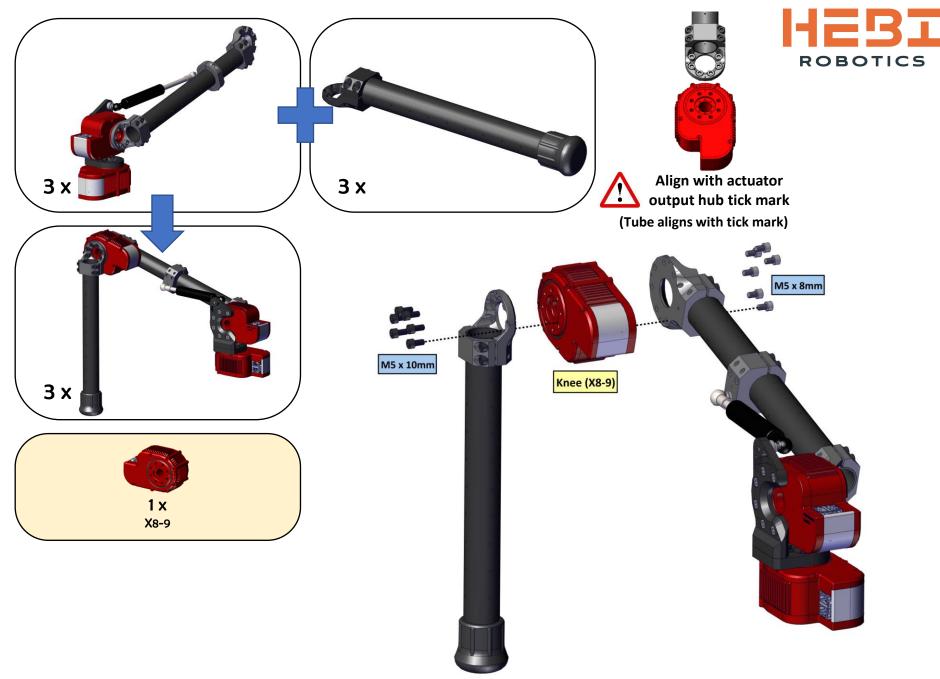




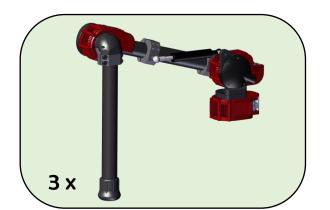




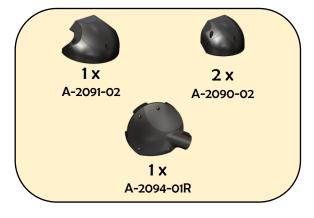


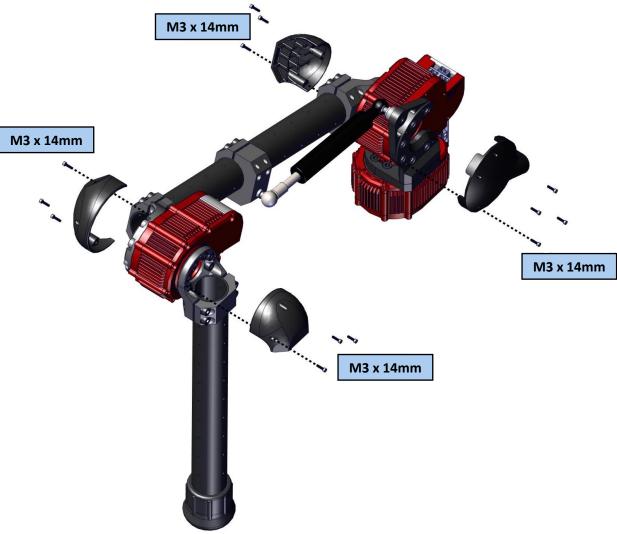


X-Series Hexapod Assembly Instructions



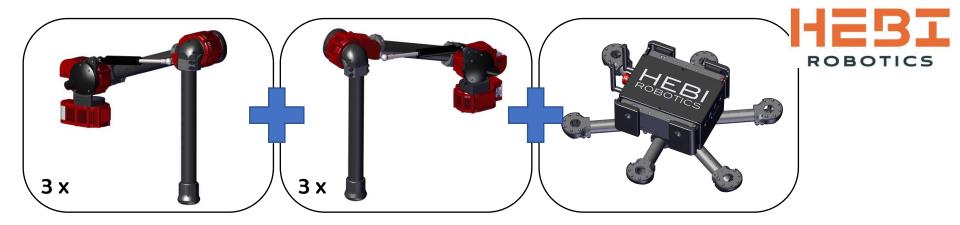


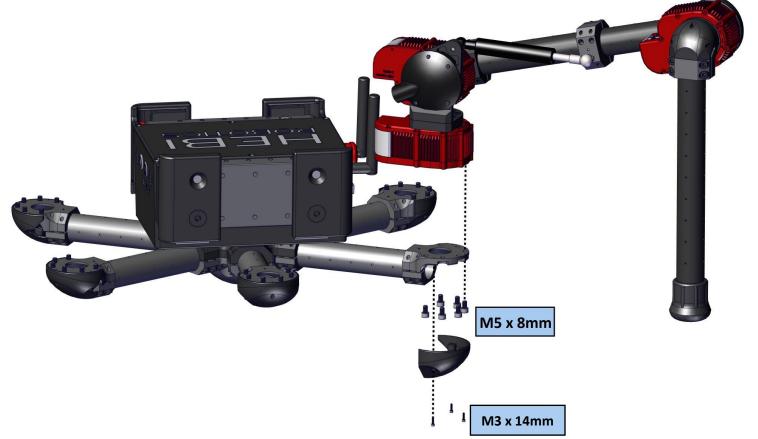






Final Assembly





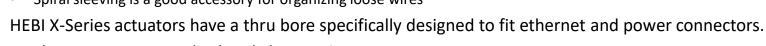


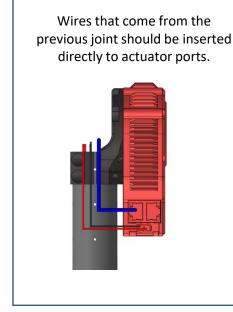
[Spiral sleeving]

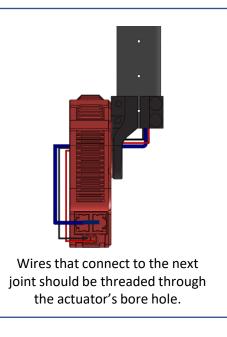
Wiring Notes

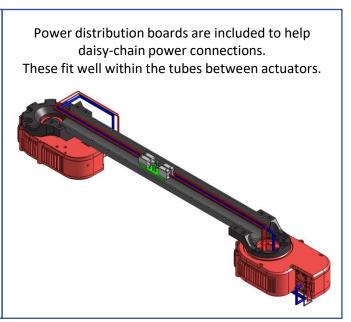
- It is best to wire each limb before moving onto the Final Assembly.
 - See the next page for a full robot wiring diagram.
- Keeping wires organized will help prevent tangling and add a nice aesthetic.
 - Spiral sleeving is a good accessory for organizing loose wires
- - Please pass connectors thru bore hole 1 at a time.

For more information visit: docs.hebi.us





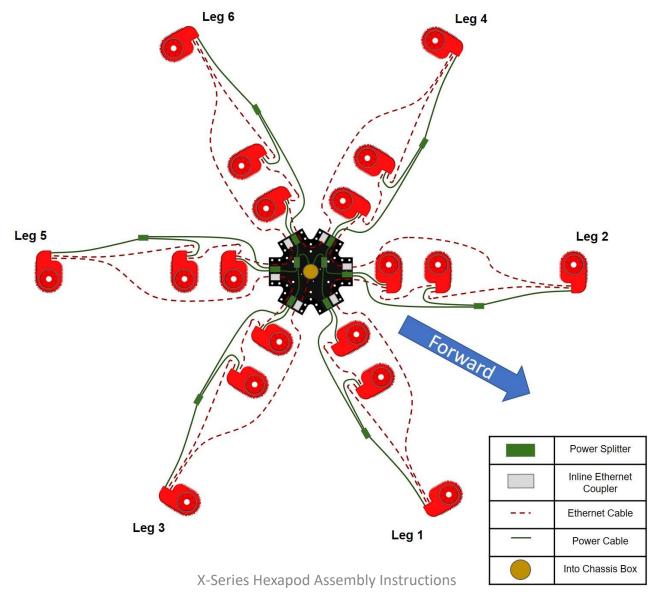




Wiring Diagram



⚠ View from Bottom of Robot

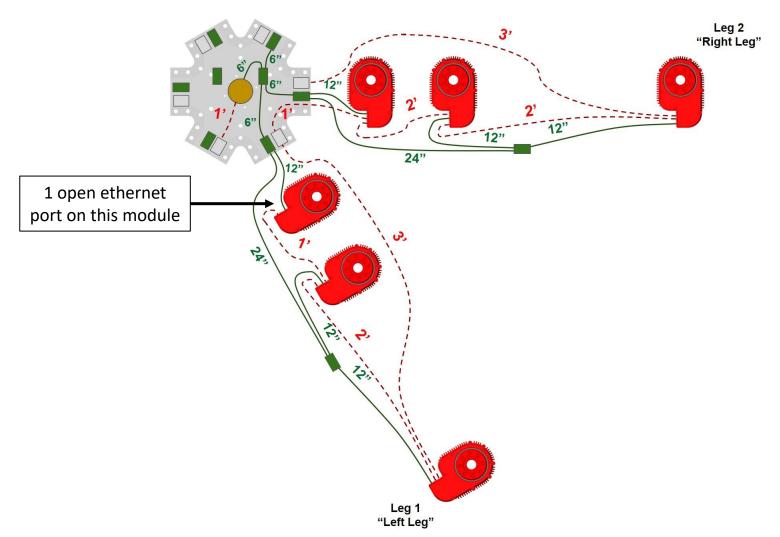


Wiring Lengths



⚠ View from Bottom of Robot

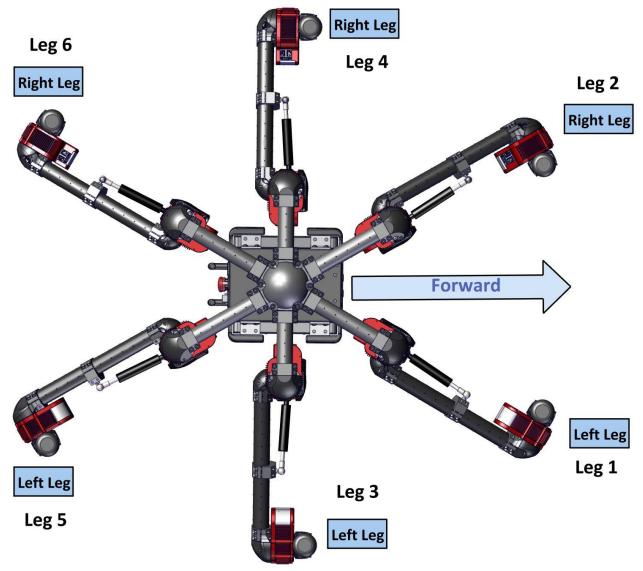
Lengths are common across type of Leg* (Left vs Right)



Leg Layout



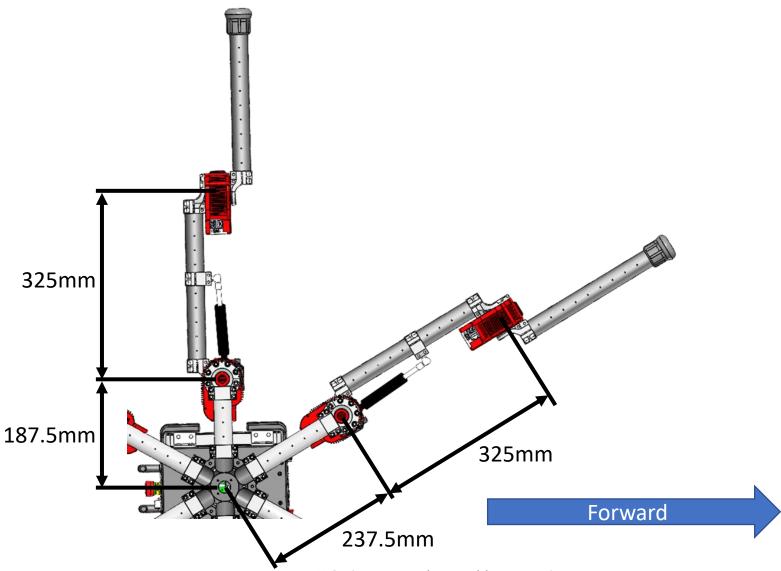
⚠ View from Bottom of Robot



Leg Dimensions



⚠ View from Bottom of Robot



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