



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.

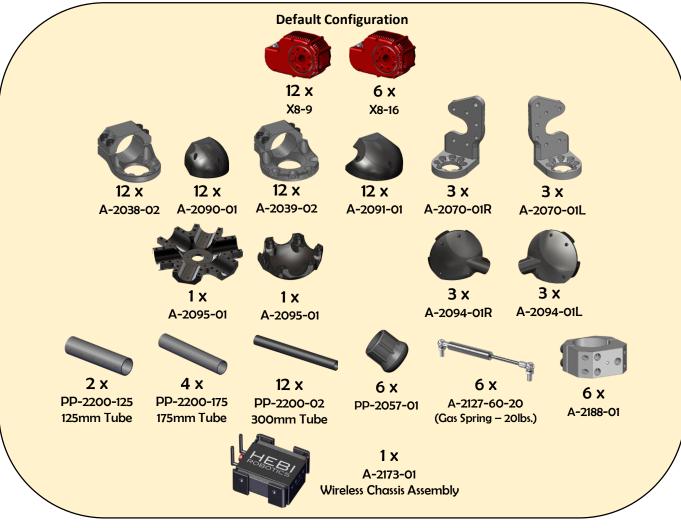
Warning (May cause injury or damage to actuator)

- 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

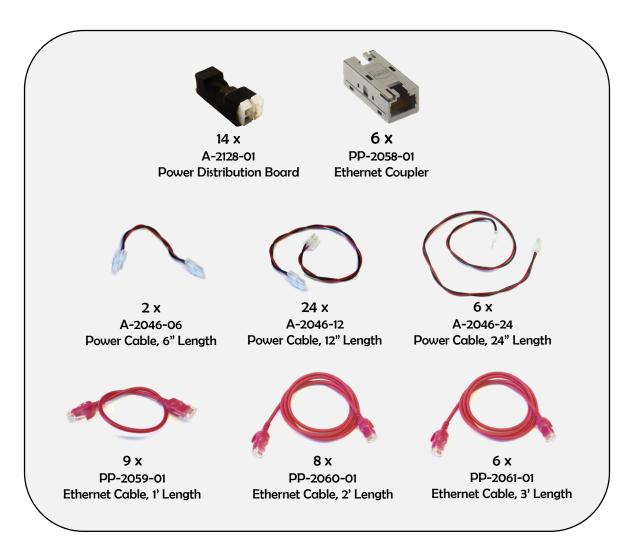
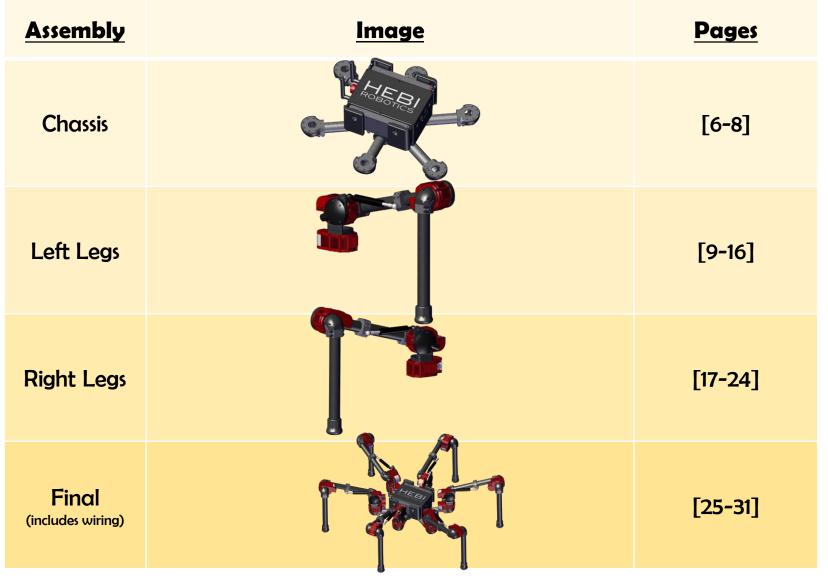
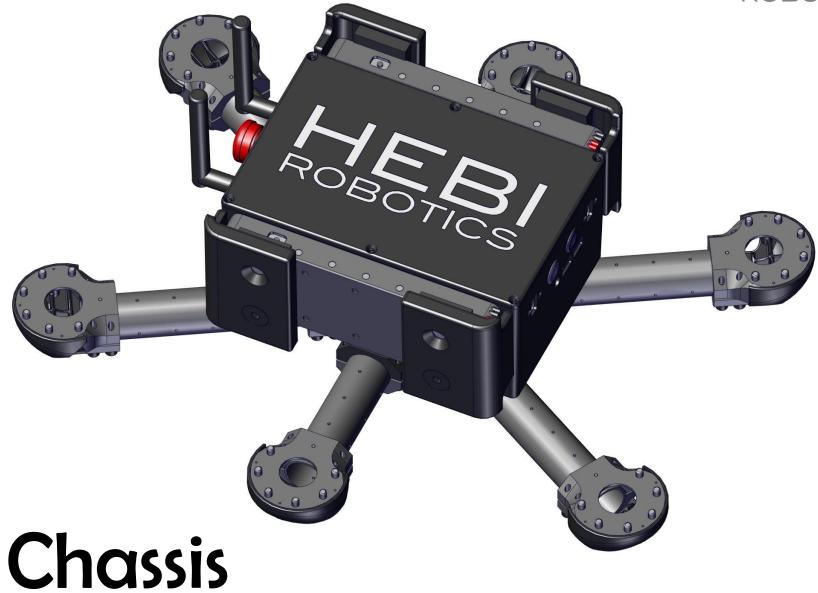




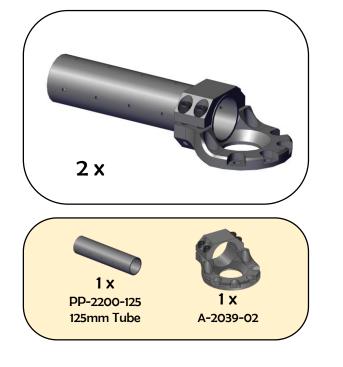
Table of Contents

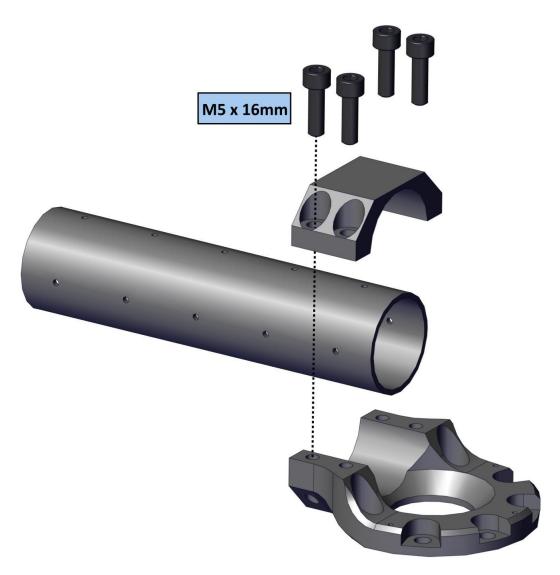


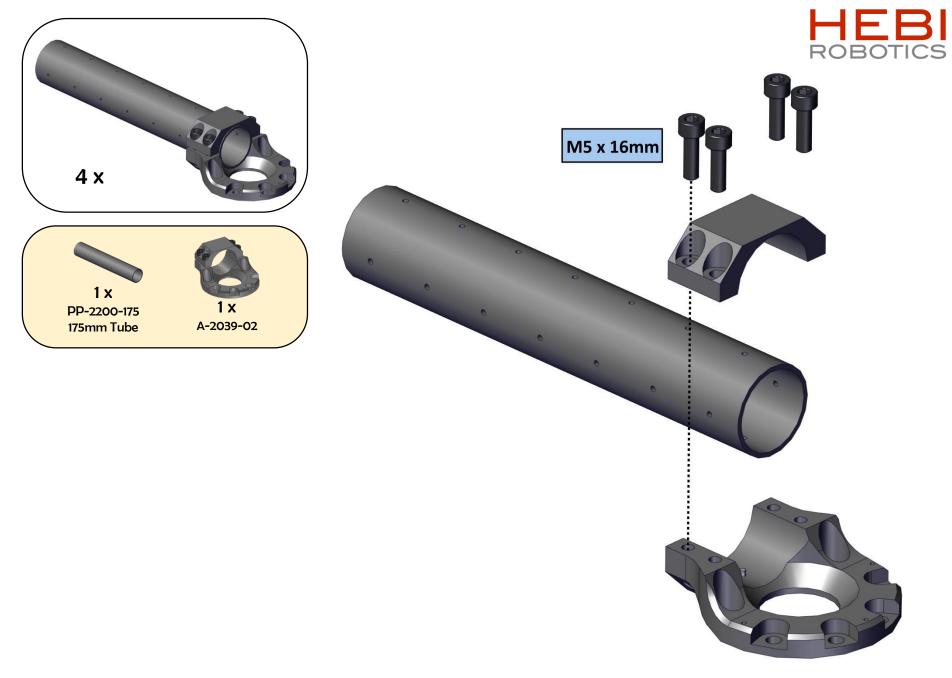


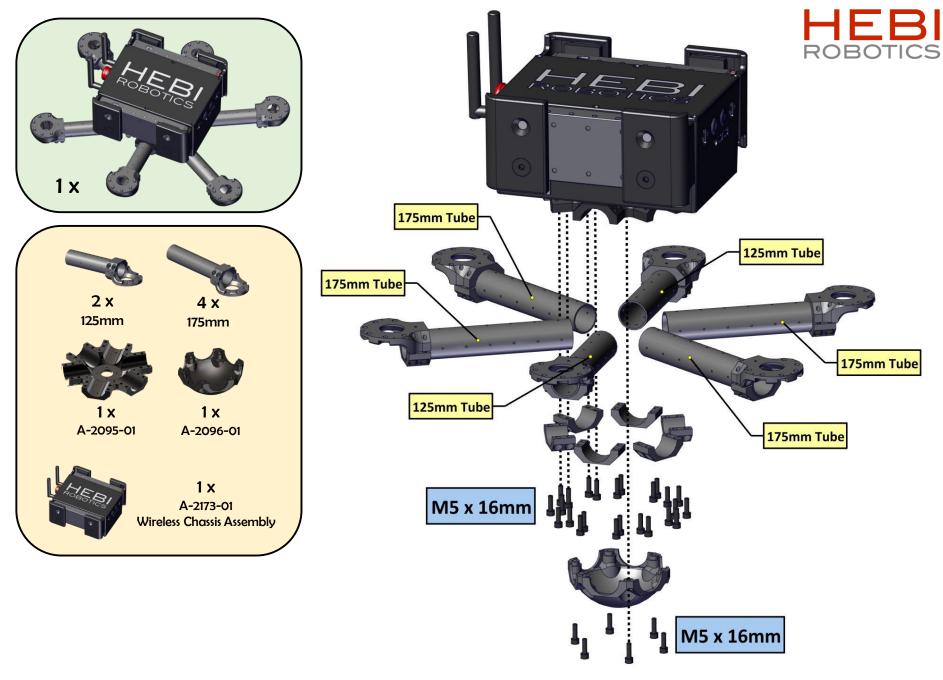






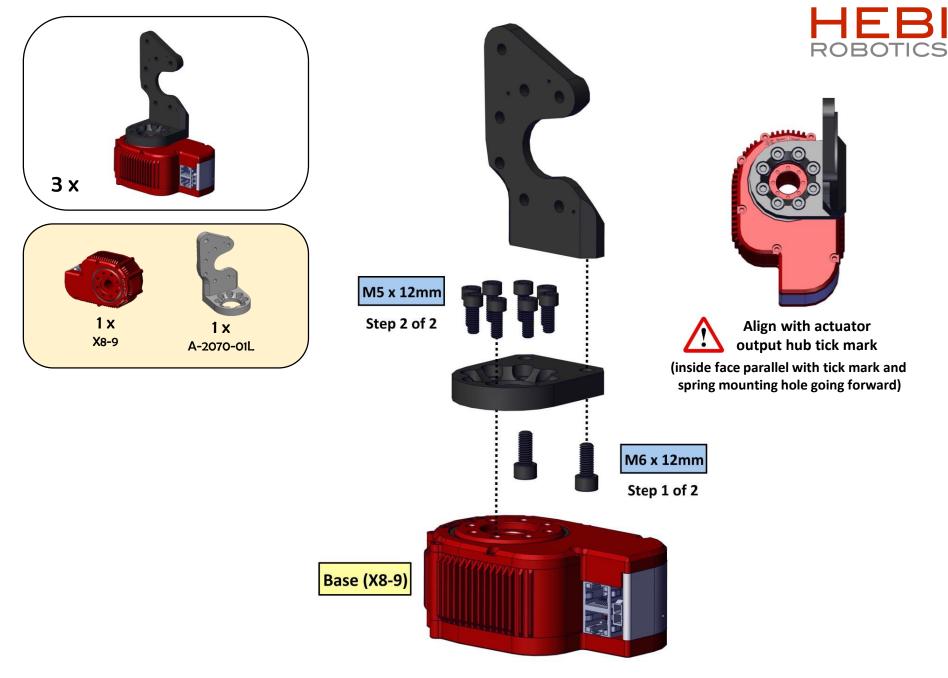


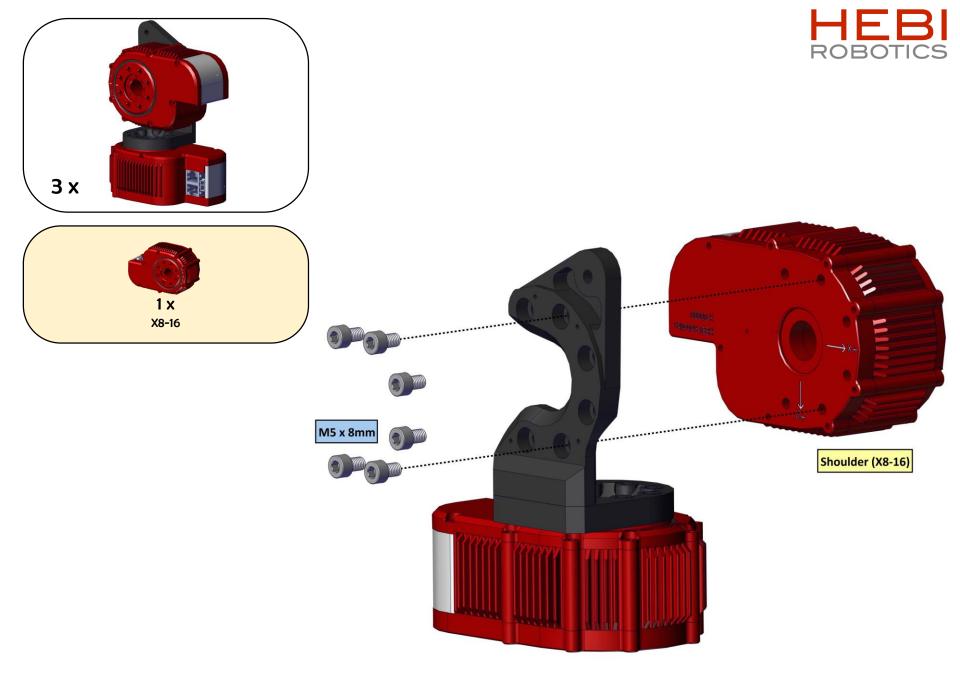


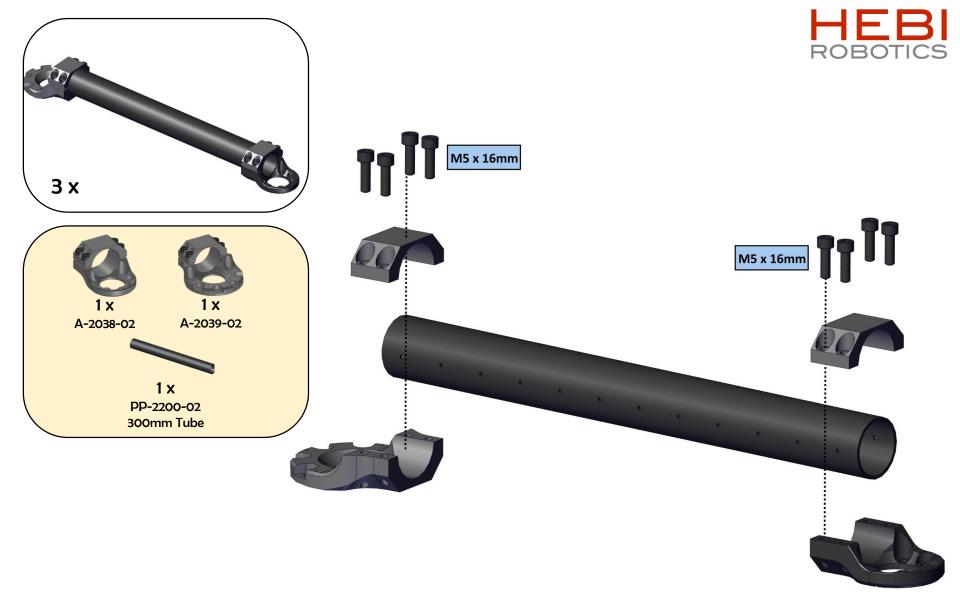


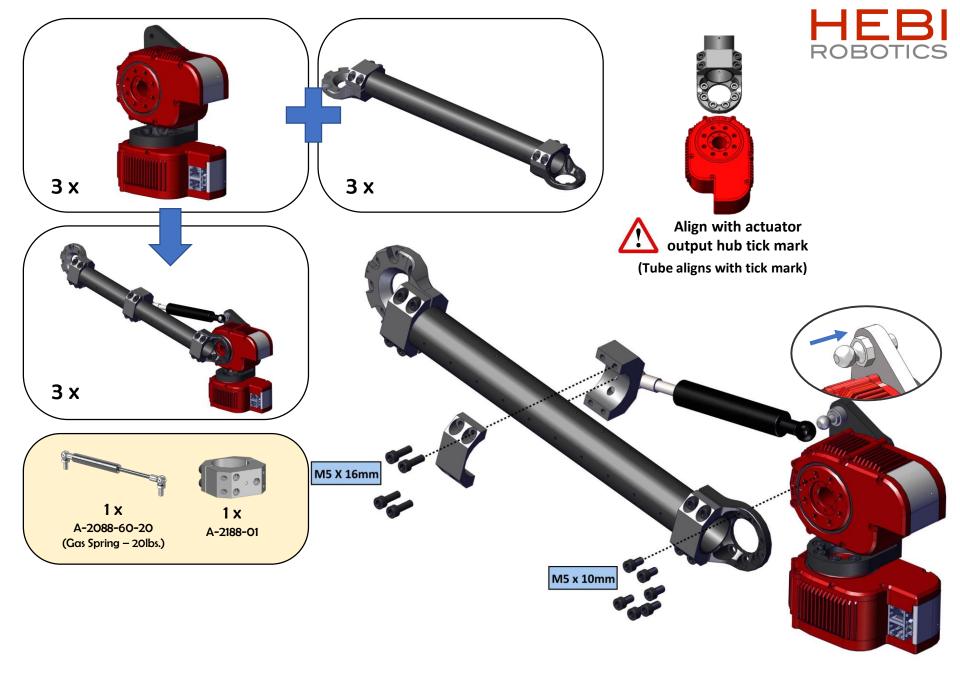


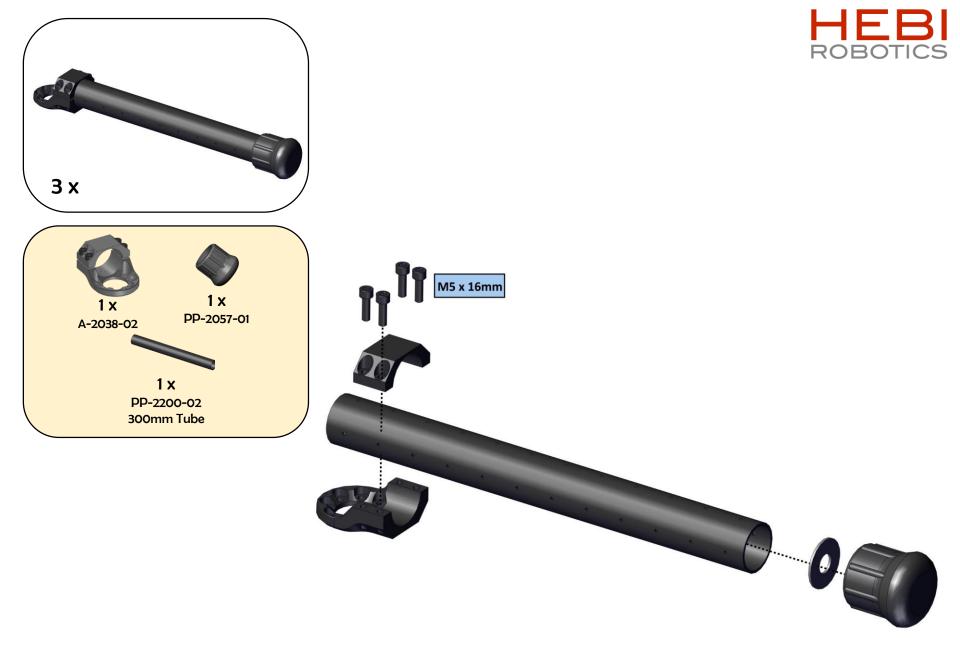


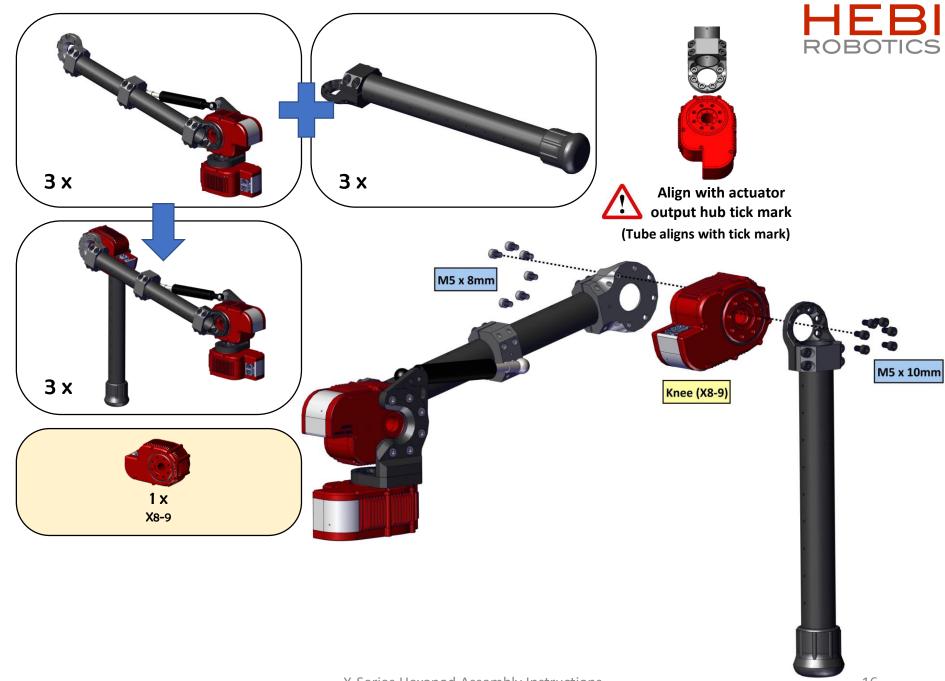


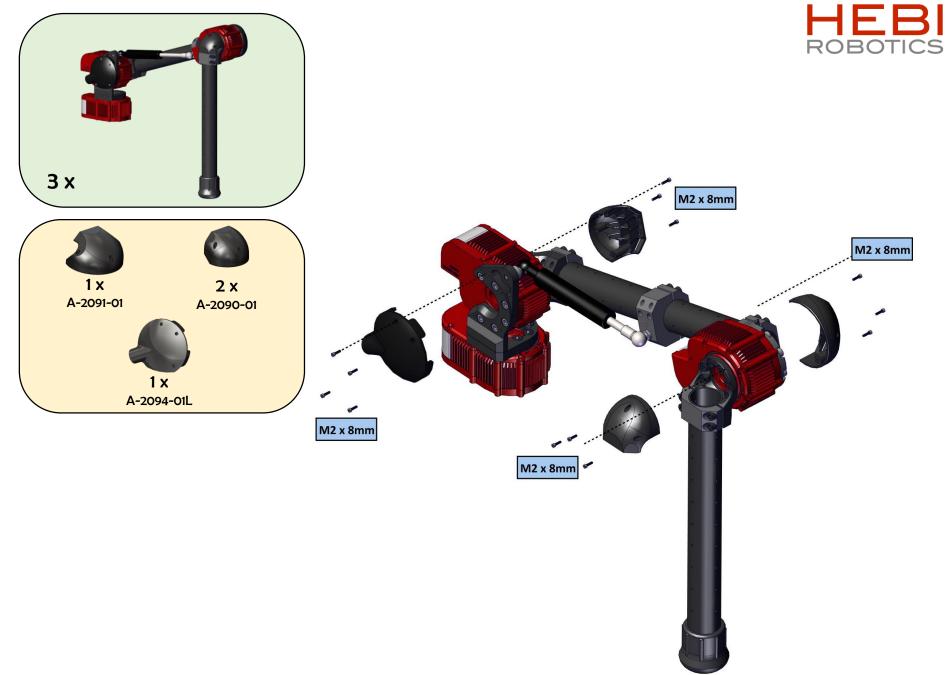








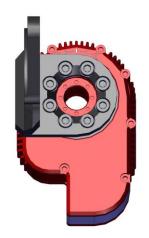




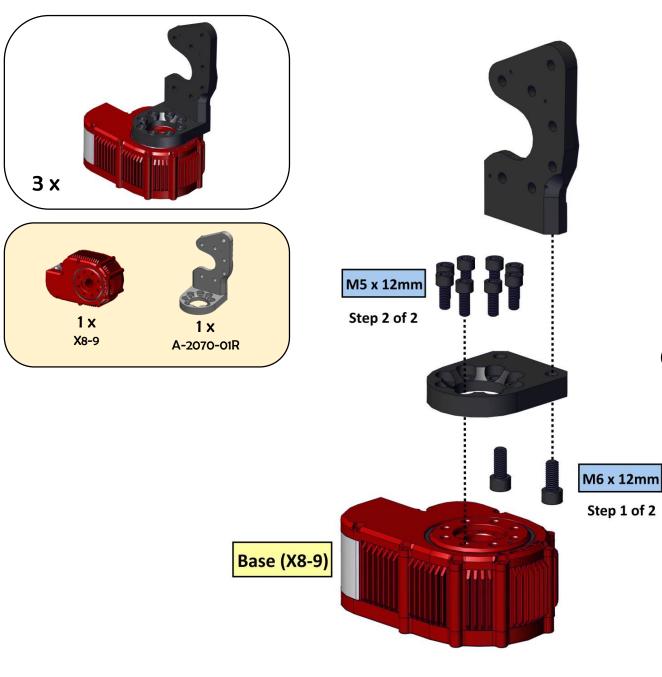


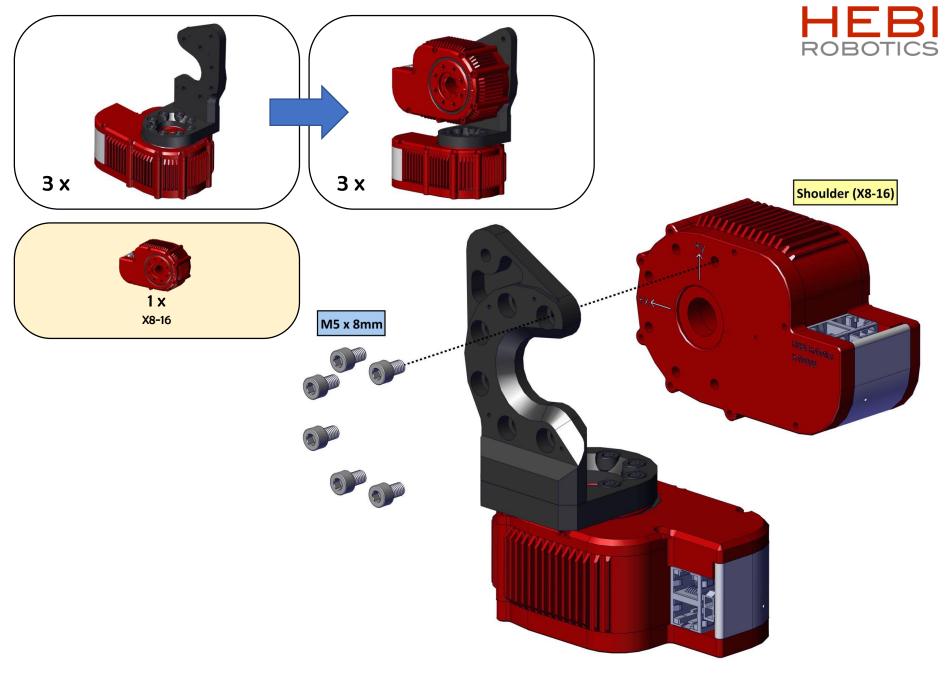
FI



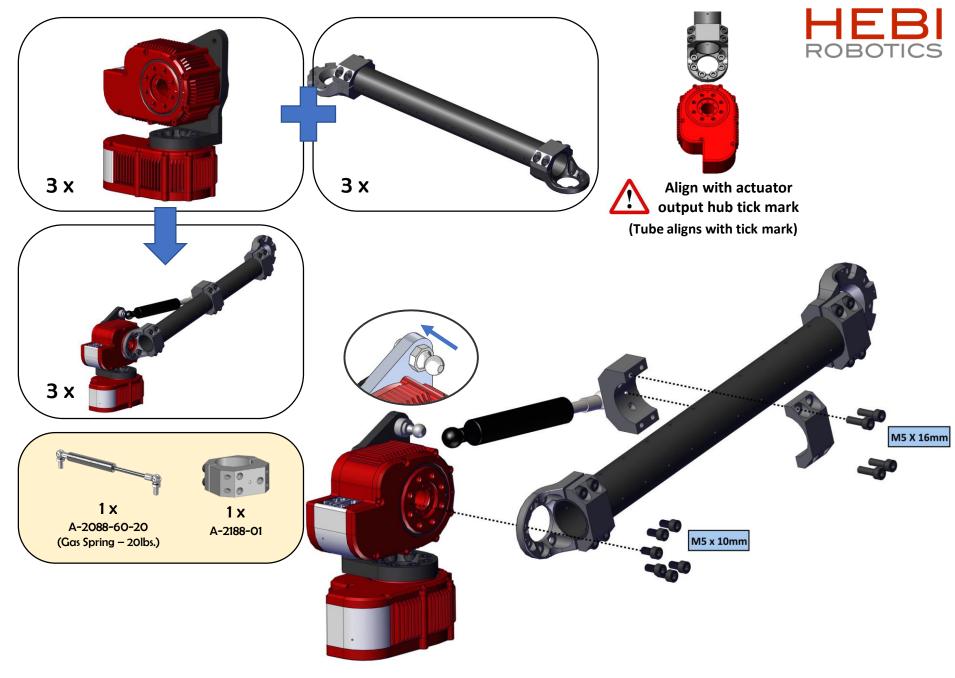


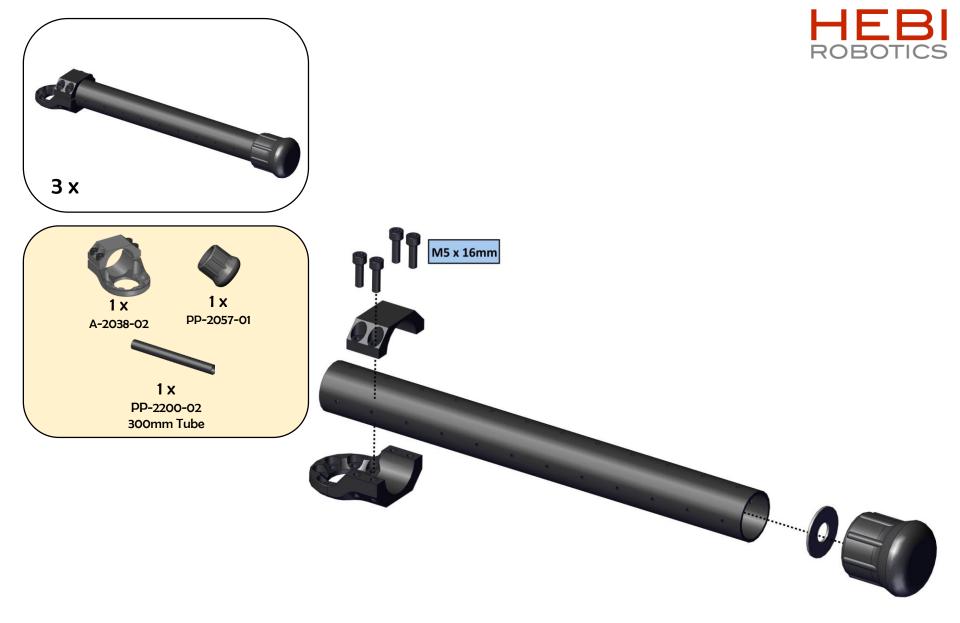
Align with actuator output hub tick mark (inside face parallel with tick mark and spring mounting hole going forward)

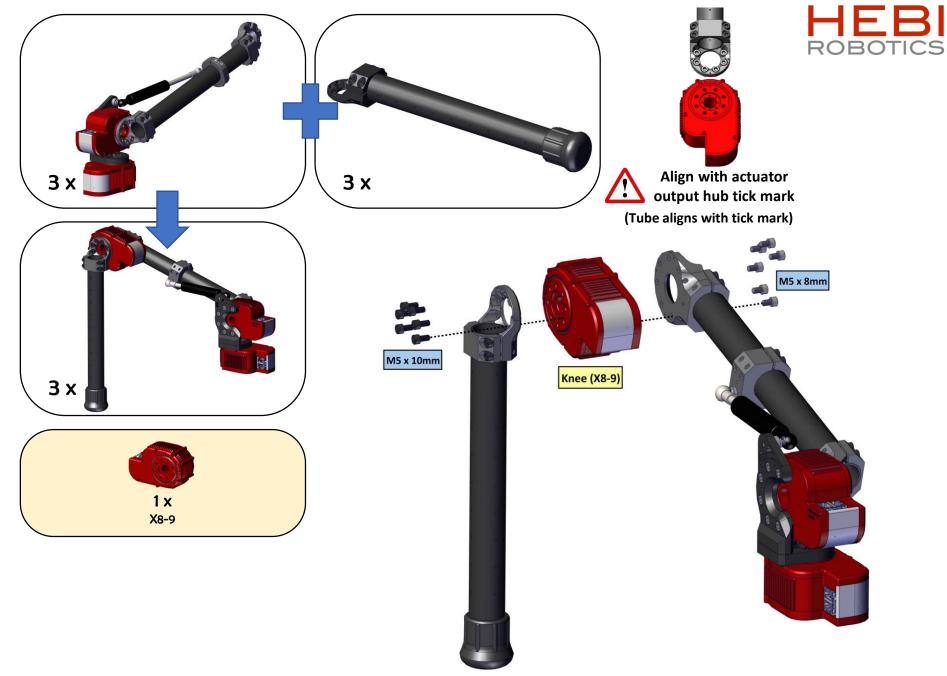


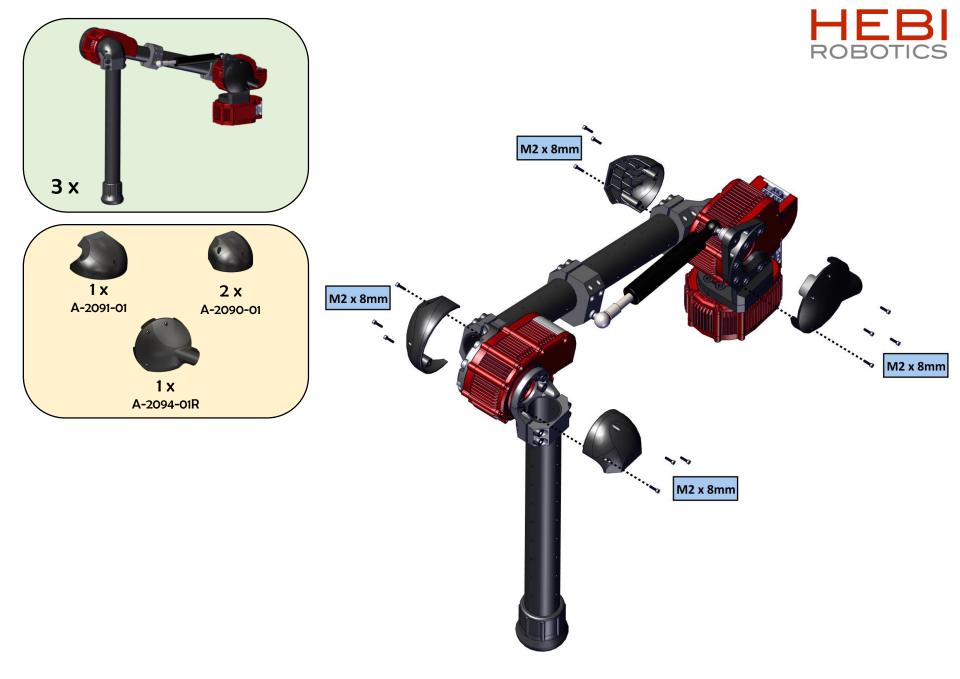






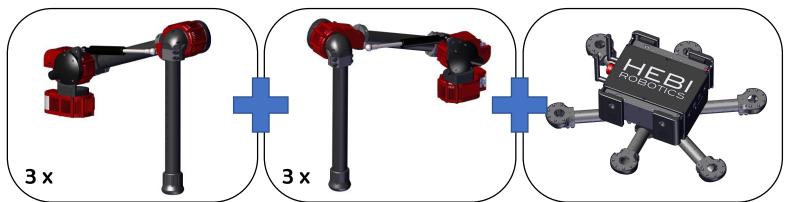


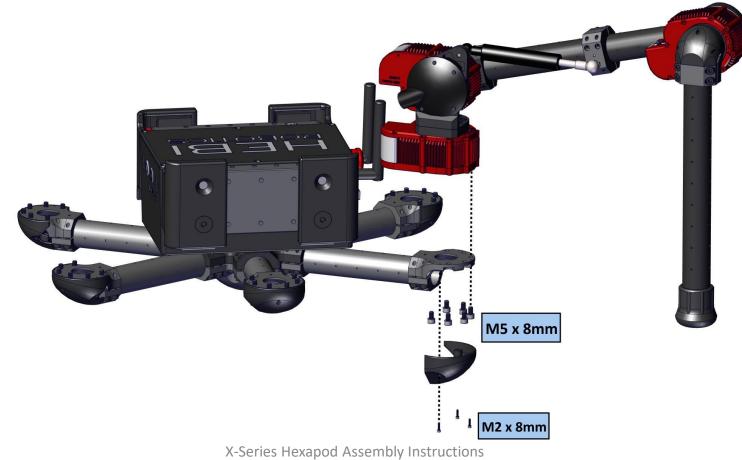












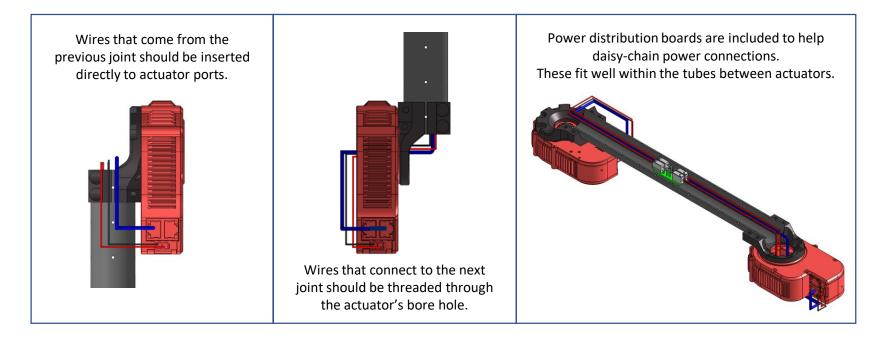


Wiring Notes

- 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
- HEBI X-Series actuators have a thru bore specifically designed to fit ethernet and power connectors.
 - Please pass connectors thru bore hole 1 at a time.



[Spiral sleeving]

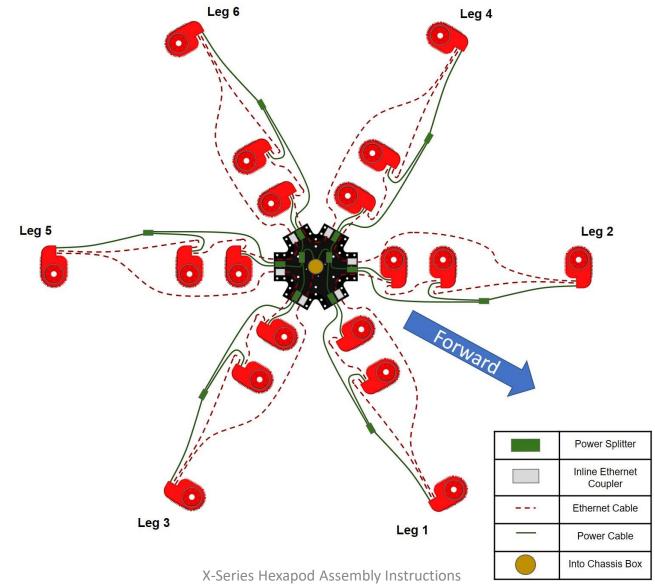


For more information visit: *docs.hebi.us*



Wiring Diagram

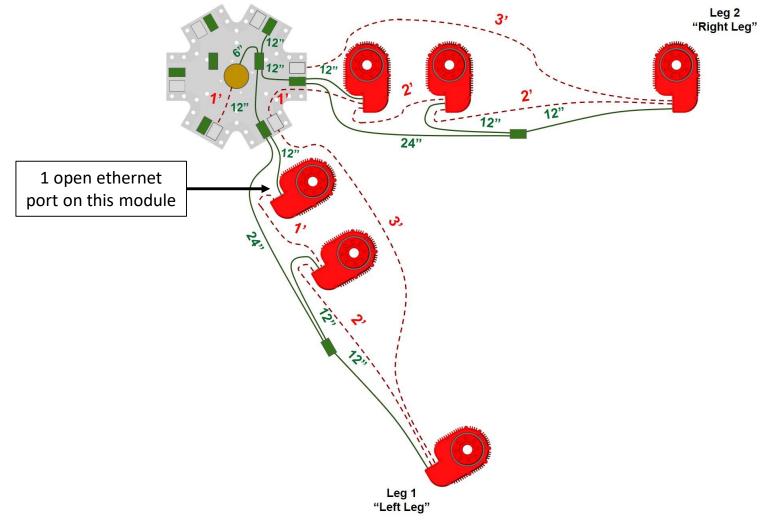
▲ View from Bottom of Robot



Wiring Lengths



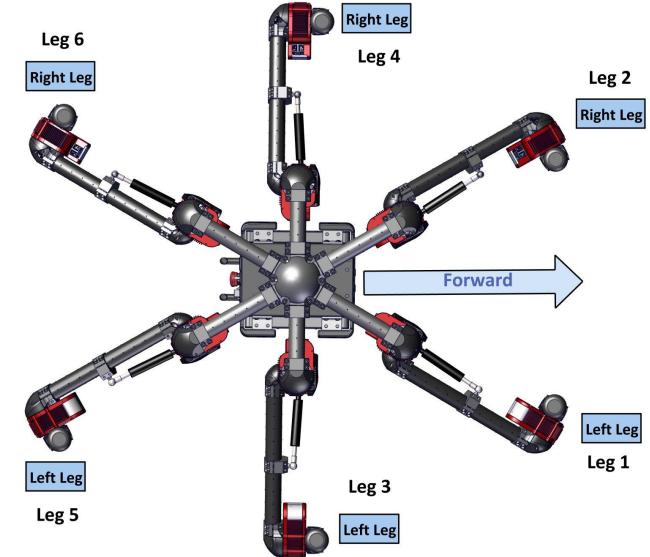
View from Bottom of Robot Lengths are common across type of Leg* (Left vs Right)





Leg Layout

⚠ View from Bottom of Robot



HEB ROBOTICS