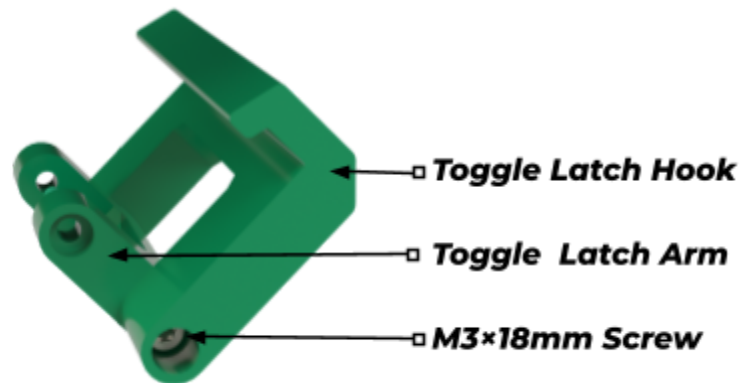


Assembly Instruction Manual

Body Assembly

Step 1: Tap the four toggle-latch arms with an M3×0.5 tap. For each arm, align the matching latch hook and secure it using two M3×18 mm screws passing through the hook into the tapped arm (2 screws per latch).



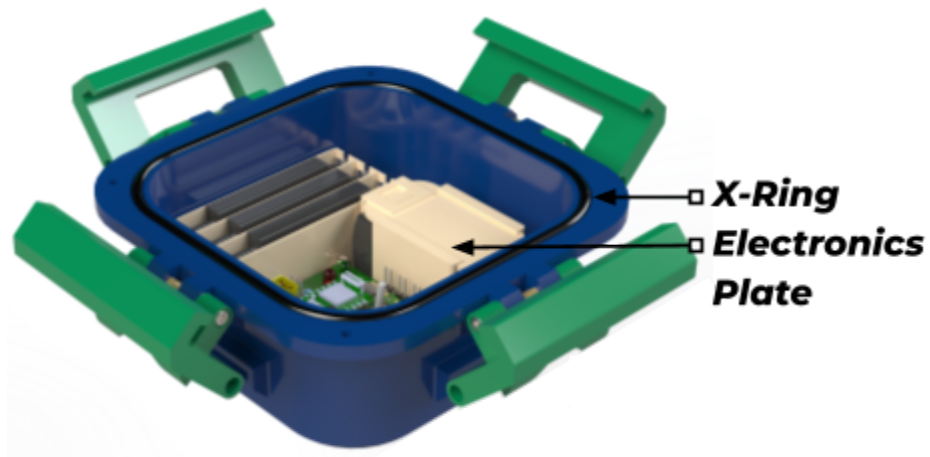
Step 2: Press-fit one M3×8×4.2 mm brass knurled insert into each of the four clevis features (one per side). Align each toggle latch assembly with its corresponding clevis and secure it using two M3×18 mm screws passing through the latch arm into the threaded insert.



Step 3: Clean and dry the groove. Place the X-ring into the groove and

ensure the lobes sit symmetrically. Run a finger around the circumference to confirm the seal is fully seated.

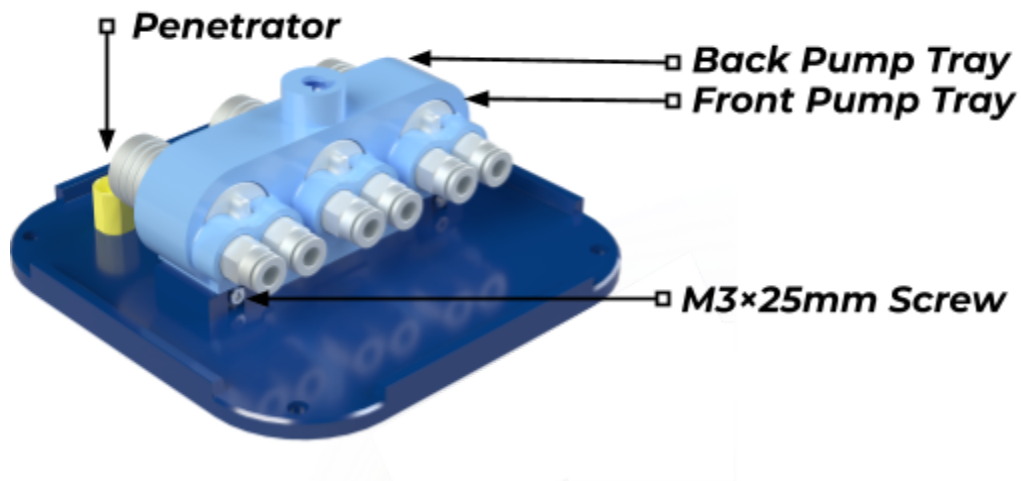
Step 4: Secure the electronic components, such as the battery, PCB, and ESCs, onto the electronics mounting plate using the designated screw holes or slots. Once assembled, gently lower the plate into the enclosure body.



Lid Assembly

Step 5: Insert the three potted cable penetrators through their respective holes in the lid from the top side. Ensure each penetrator's O-ring sits flat against the lid surface. From the underside of the lid, tighten each penetrator using a M6×1.0 nut.

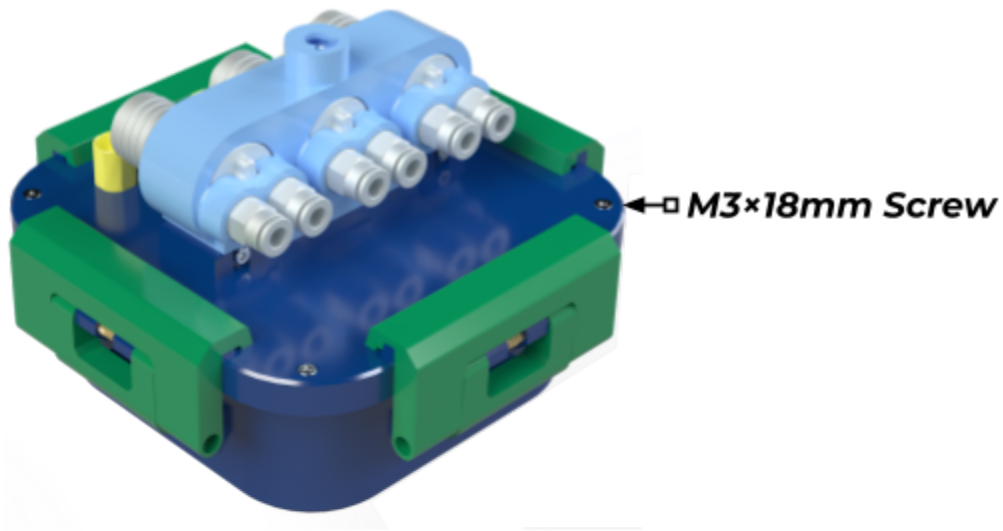
Step 6: Place the three hydraulic pumps onto the front pump tray and route wires through the cable penetrators. Align and close with the back pump tray. Position the pump assembly on top of the lid, align to the respective slot, and secure with two M3×25 mm screws.



Enclosure Body and Lid Assembly

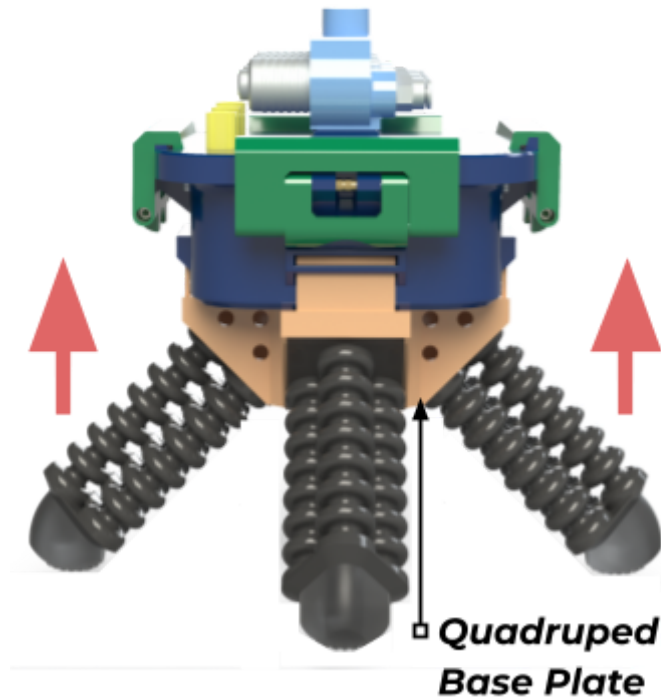
Step 7: Carefully align the lid with the enclosure body and ensure the X-ring remains seated and undisturbed in its groove. Once aligned, bolt down the four corners using M3×18 mm screws and tighten them gradually in a cross pattern to achieve an even seal. Avoid over-tightening to prevent warping or damaging the printed enclosure.

Step 8: Engage all four toggle latches by pressing their arms down.



Final System Assembly

Step 9: Secure the four legs to the quadruped base plate using the designated screw holes. Align the cantilevers on the base plate with the hooks located on the sides of the enclosure body. Once aligned, press the base plate firmly against the bottom of the enclosure body until the snap-fits engage.



Step 10: Insert and fully seat the six leg tubes into the corresponding three pump ports located on top of the enclosure (two tubes per pump).

Step 11: Apply a thin layer of adhesive to the turtle shell insert and seat it fully into the matching slot on the underside of the turtle shell.
(Optional) After curing, align the shell with the slot on the top of the pump tray and twist to lock until it stops.

