

Robot Body Stage 4: Assembly guide

Concept assembly guide derived from the staged build plan. Not a certified engineering drawing. Prices are estimates (Oct 2026); nothing here is a purchase.

Stage 4



Concept render (illustrative).

- 1** **Insert two Molice P28A cells into the X1200 (check polarity).**
Part R24: Molice P28A 18650 cells (UNVERIFIED owned; still a buy) x2 (\$15) Buy: [18650 Battery Store](#)
- 2** **Stack the X1200 UPS board under the brain board.**
Part R23: Geekworm UPS board (OWNED, from video; exact model unverified) x1 (\$0 owned) Buy: [Geekworm](#)
- 3** **Replace the main battery lead with the XT90-S anti-spark pair + VBAT sense.**
Part R25: XT90-S anti-spark pair + VBAT sense lead x1 (\$8) Buy: [Amazon search](#)
- 4** **Pull the main pack and confirm the brain stays on.**
Part R23: Geekworm UPS board (OWNED, from video; exact model unverified) x1 (\$0 owned) Buy: [Geekworm](#)
- 5** **(Optional) Swap in the Pi 5 2GB as brain; Pi 4 moves to drone ground station.**
Part R26: Raspberry Pi 5 2GB (optional brain upgrade) x1 (\$77.50) Buy: [Raspberry Pi](#)
- 6** **(Optional) Press the Active Cooler onto the Pi 5.**
Part R27: Pi 5 Active Cooler x1 (\$5) Buy: [Raspberry Pi](#)
- 7** **(Optional) Flash the second microSD for the Pi 5.**
Part R28: 64 GB microSD (second card) x1 (\$10) Buy: [Amazon search](#)