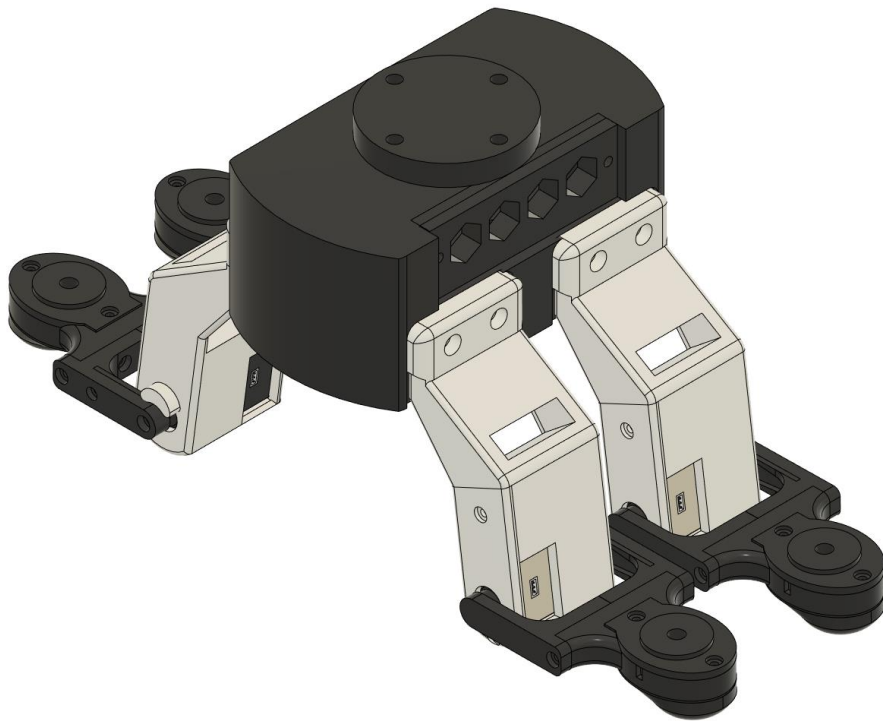









Hardware Assembly Instructions

Last updated: June 27, 2024



Parts List

Part image	Part name and vendor link	Comments
	Hiwonder LX-224 Serial Bus Servo with Three Connectors /20KG Large Torque	One per finger.
	Hiwonder TTL / USB Debugging Board	One for the four motors.
	Stabilizer Balance Weights	Two pieces per fingertip.
	Contact Microphone	One per fingertip.

	USB Guitar Cable	Four connect to the base.
	Servo horn	One per fingertip.
	M2 screw	One per finger on the servo horn.
	M3 screw	Multiple.
	M4 screw	Multiple.
	M3 heat insert	Multiple.
	M4 heat insert	Multiple.

Base Assembly

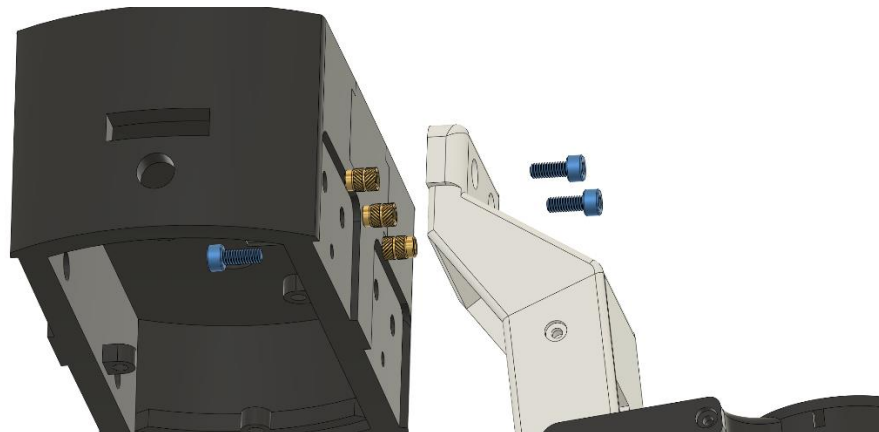
- Necessary parts include all the 3D printed parts (as shown in the figure below), M3 and M4 screws, M3 and M4 heat inserts, Hiwonder Debugging board, and four contact microphones.



- Place the audio jack of the four contact microphones inside the base and pull the contact microphone from the bottom of the base. Place the Hiwonder controller board at the bottom of the base. The wire of the controller and the power supply come out from the side of the base.

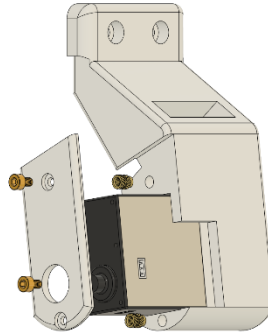


- Connect the base finger with the base as the way demonstrated in the figure below.



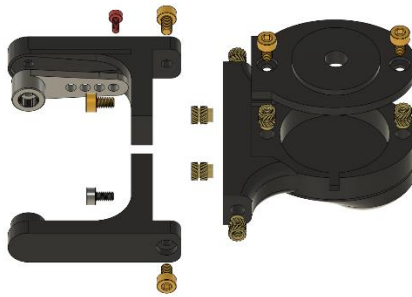
Base Finger Assembly

- Necessary parts include all the 3D printed parts (as shown in the figure below), M3 screws and M3 heat inserts, and one LX-224 servo motor. Assemble the parts as shown in the figure below.

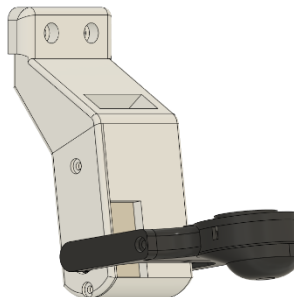


Fingertip Assembly

- Necessary parts include all the 3D printed parts (as shown in the figure below), M2 and M3 screws, M3 heat inserts, one servo arm, two pieces of counterweights, and one contact microphone.



- Assemble the fingertip and base finger.



- Mount the two counterweights on top of the fingertip and put the contact microphone inside the fingertip.

