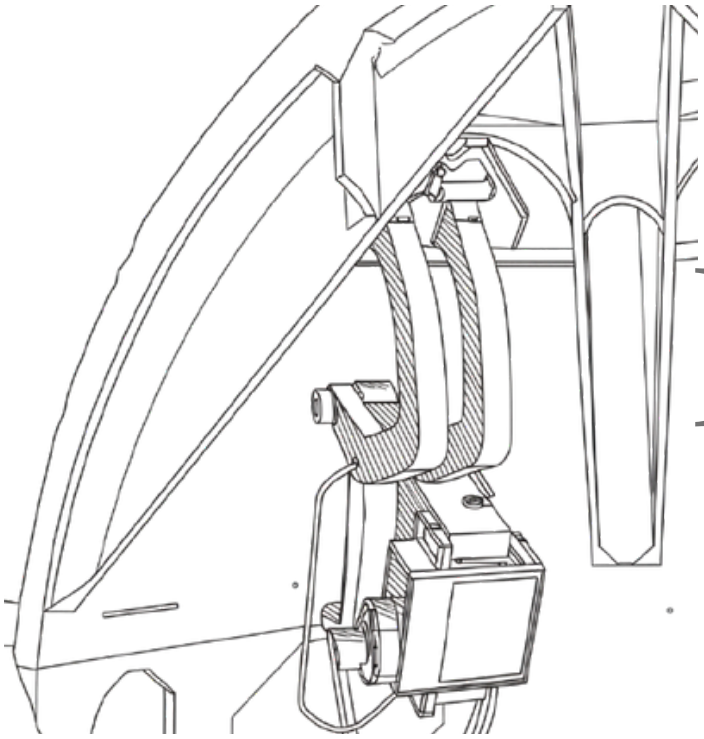
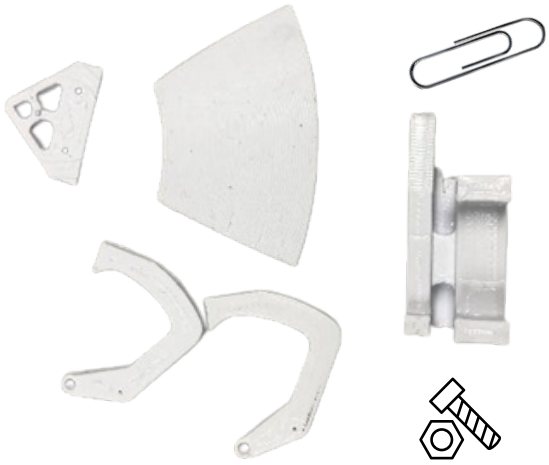


LET'S BUILD A HINGE

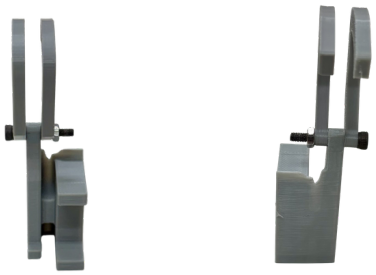
actuator

- Connect 2 legs to the base using an m3 nut and bolt from your parts kit. Secure the servo motor to hinge base with two pointed screws in the bag that came with the motor.



- Glue both legs onto the hinge plate. Glue the hinge base onto the inside of the dome. Make sure the mechanism moves through the pie plate opening and is centered. Once centered tape and glue the hinge base inside the dome.

- Glue hinge plate to backside of pie plate. This step can be tricky. tape the pie plate into the dome prior to gluing. Then glue the hinge plate to the pie plate. This will give exact alignment for the mechanism.



- Secure all pieces with tape and let dry. Once dry, attach the small wing to the servo motor and verify it has a full range of motion. If the pie plate catches on the outer dome, sand it down until it fits and moves freely on its hinges.

- Bend a paperclip into two parallel 90-degree angles. Insert one end through the hole in the leg and the outer (or second to outer) hole of the servo wing—drill out the wing hole slightly if needed. Bend the paperclip ends to lock both pieces in place.

