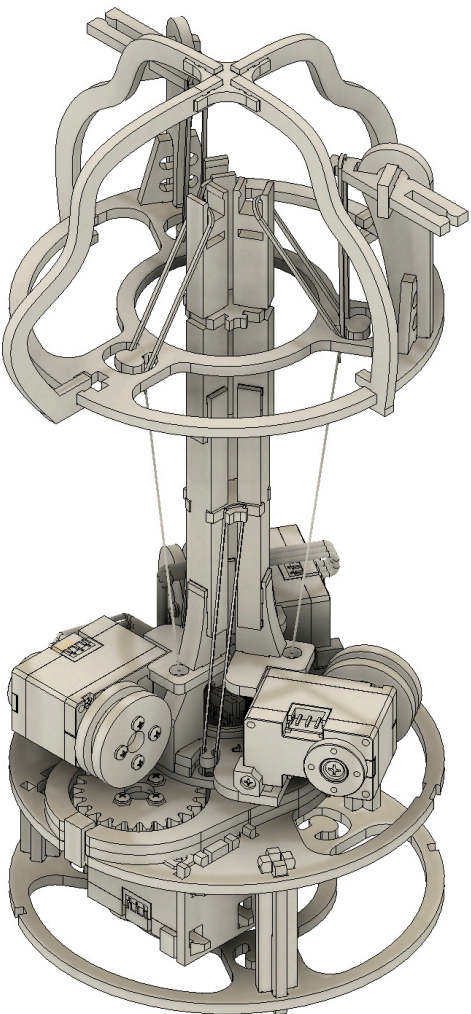
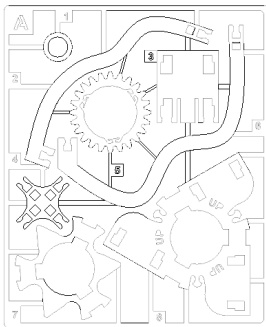


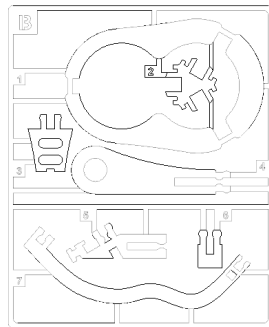
BLOSSOM



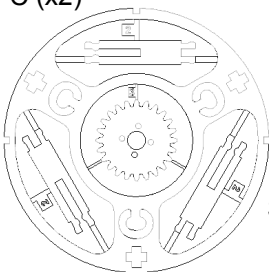
A (x1)



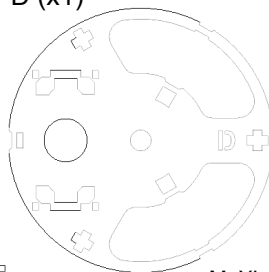
B (x2)



C (x2)



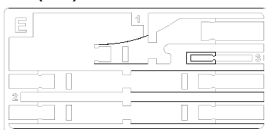
D (x1)



SR (x1)



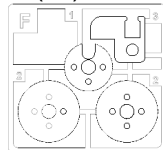
E (x3)



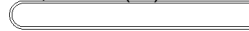
Rubber band, 4mm diameter (x6)



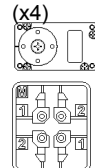
F (x3)



String or fishing line, >25cm (x3)



M, XL-330 (x4)

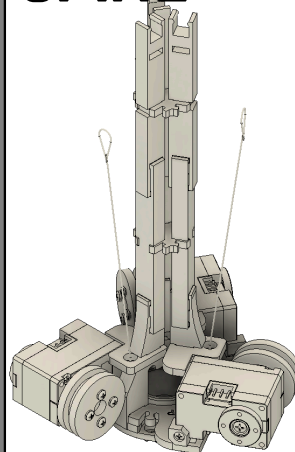


M2: 8mm (x14), 10mm (x12)



Not pictured: components for motor controller (Dynamixel U2D2, X3P cables x4, USB breakout board, male-female and male-male wires).

SPINE



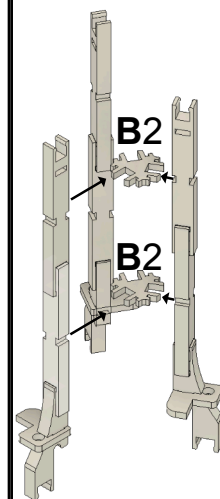
Spine Body

x3

E2

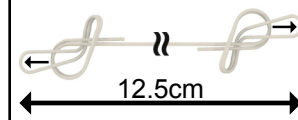
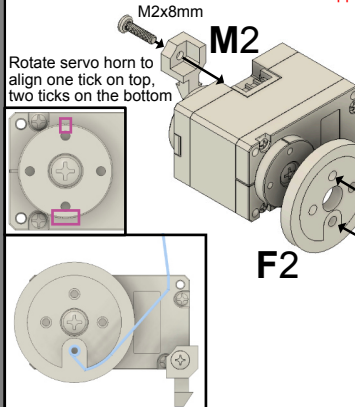
E2

F3

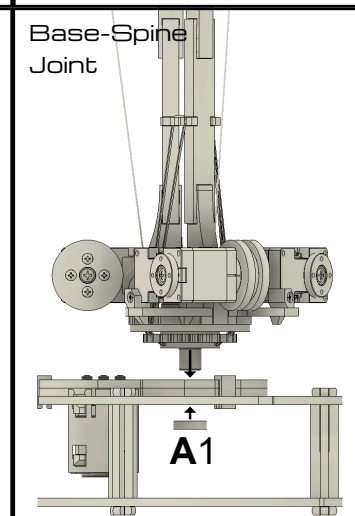
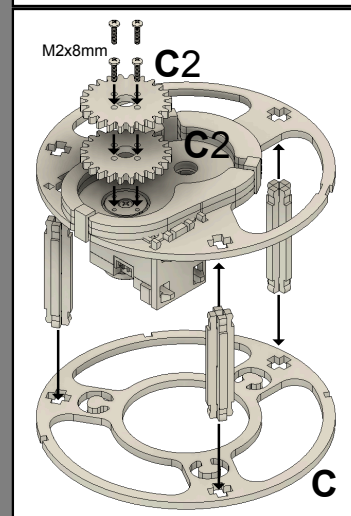
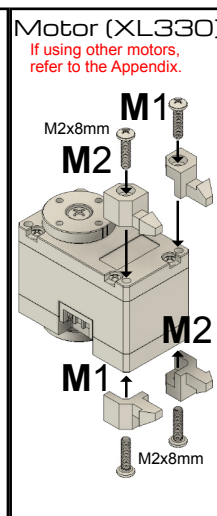
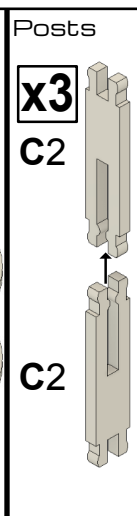
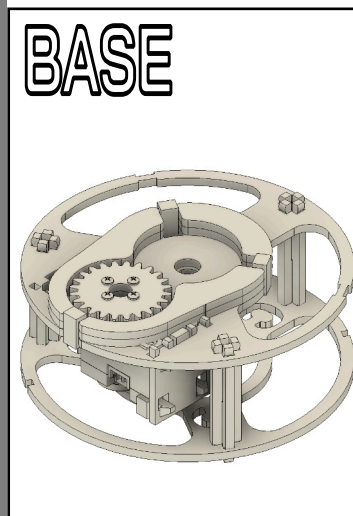
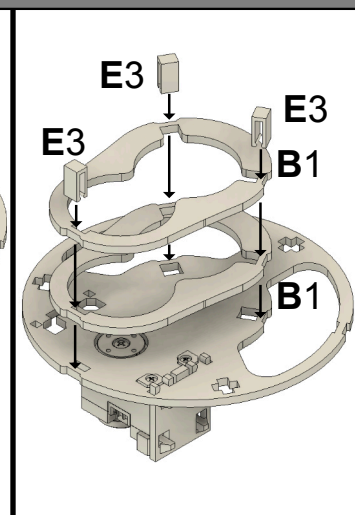
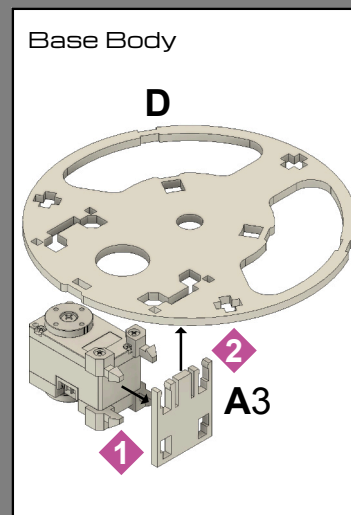
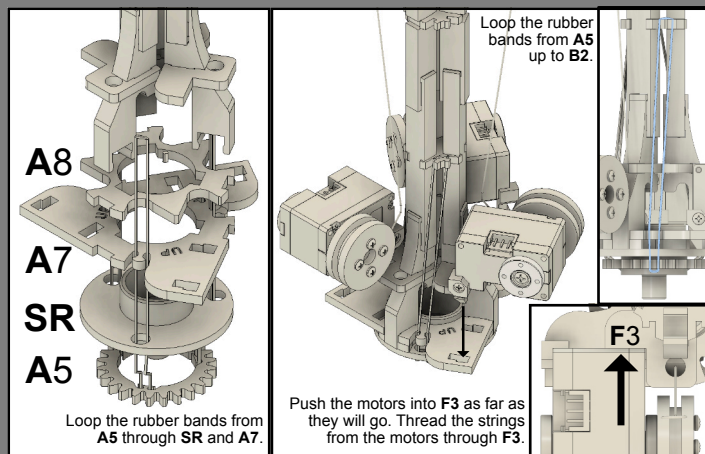


Motors (XL330) If using other motors, refer to the Appendix.

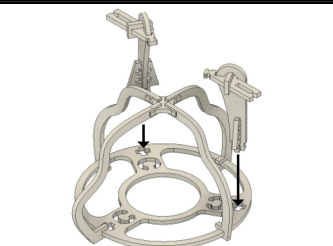
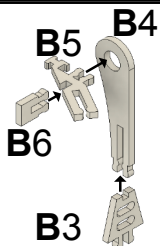
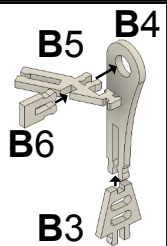
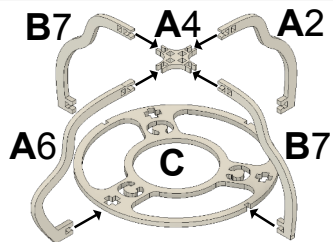
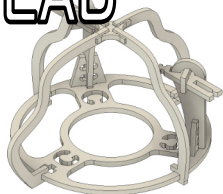
Strings



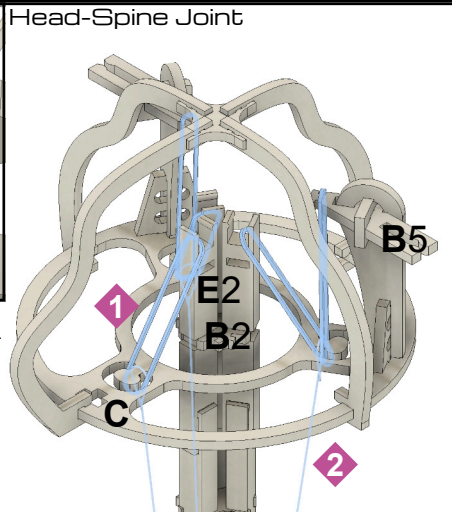
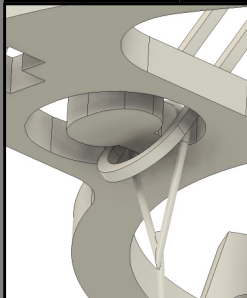
x3



HEAD



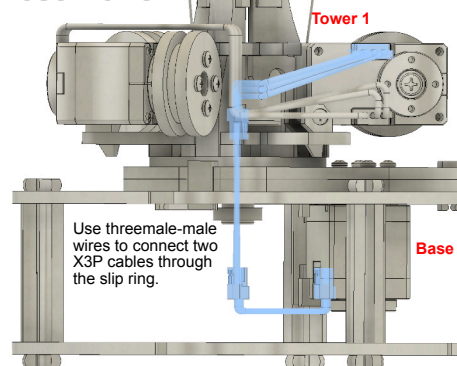
Head-Spine Joint



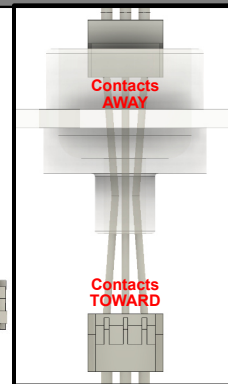
Loop the rubber bands first, then loop the strings from underneath. Double- or triple-loop the rubber bands between E2 and C until they are taut while the head is aligned with B2. Repeat for the bands between B5 and C.

WIRING

Base-Tower

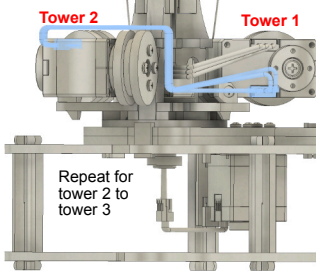


Use three-male-male wires to connect two X3P cables through the slip ring.



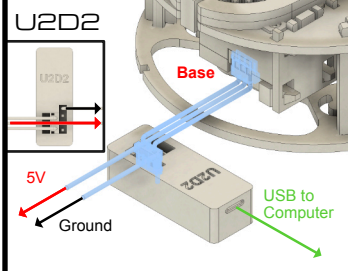
Make sure to invert the orientation to maintain the proper connectivity. For the **upper** cable, the metal pin contacts are facing **away**. For the **lower** cable, the contacts are facing **towards**.

Towers



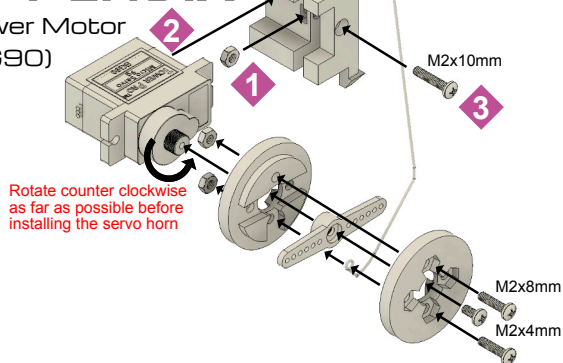
Repeat for tower 2 to tower 3

Base-U2D2

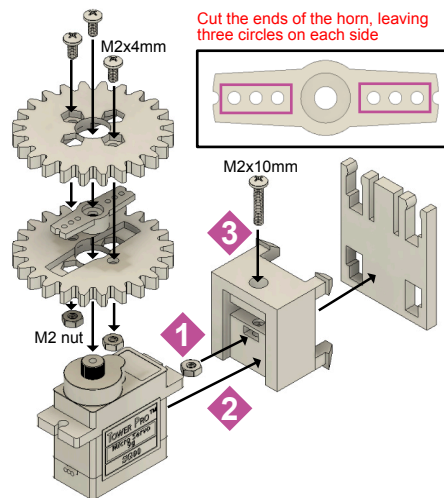


APPENDIX

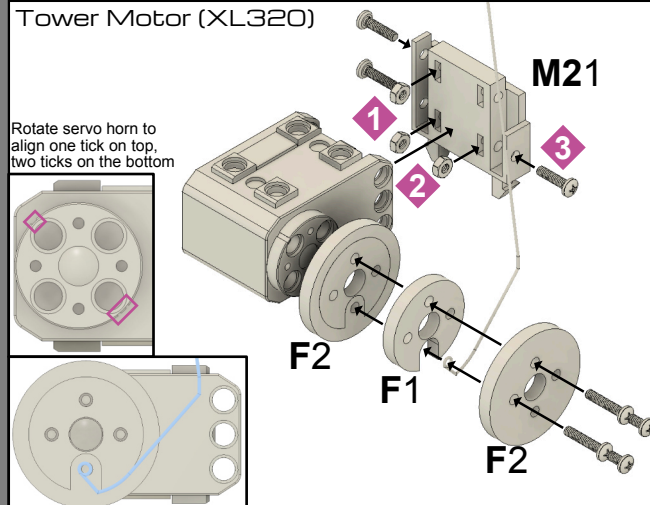
Tower Motor (SG90)



Base Motor (SG90)



Tower Motor (XL320)



Base Motor (XL320)

