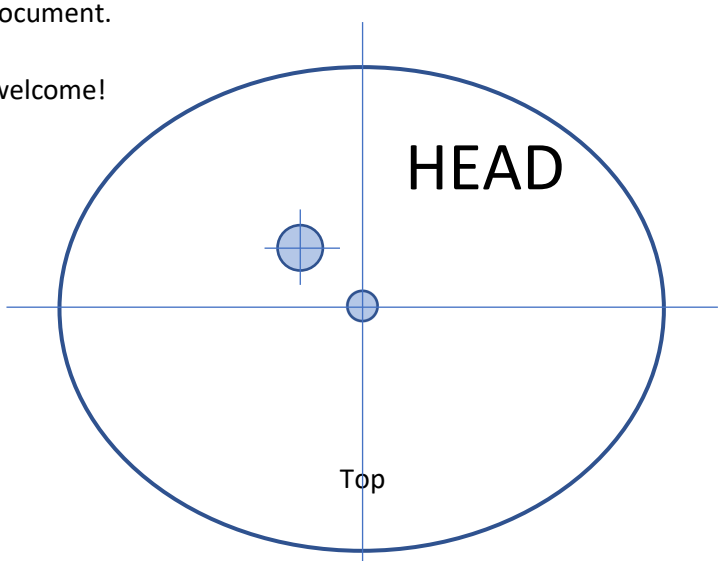
Print.
Rib design size is 80mm x 64mm - check that on printing.
Cut-out the "Head" and "Ribs".
Glue to 3mm (1/8 inch) craft plywood with PVA then cut out.
See photos and notes at the end of this document.
TODO - upgrade to 3D printing for these!
3D Printing advice and help is especially welcome!

Ruler 15.5 x 10

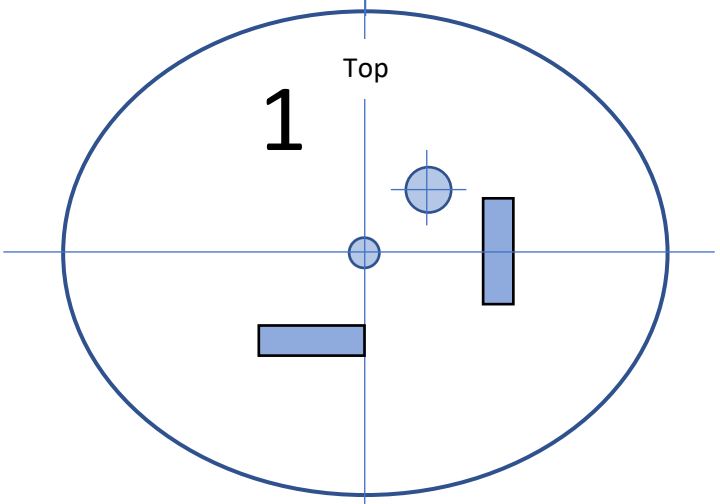
Ruler 8 x 8



Head piece or "neck"
Holds the head items.

It may work well to make this smaller than the "Ribs"

Rib01

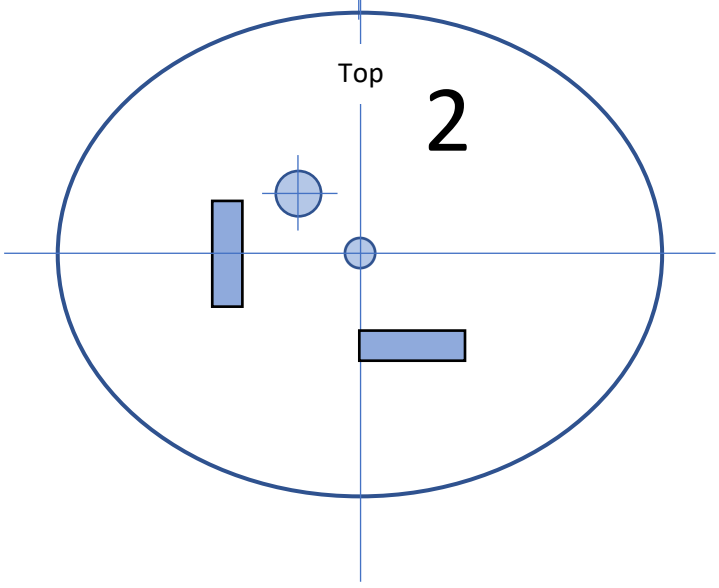


Note that Ribs all have a 4mm hole (5/32 inch) drilled in the centre.

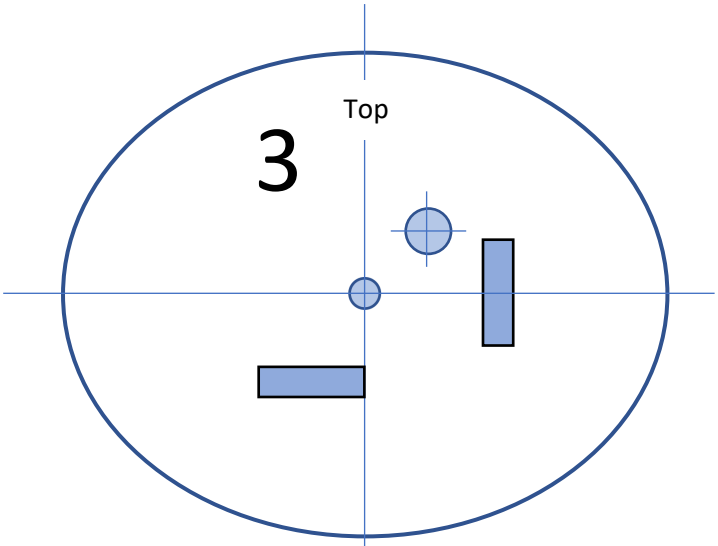
The offset hole is 6mm (1/4 inch) for running cables through.

Compare with Rib02 below to see how we aim to "balance" the weights of the servos by staggering their positions rib by rib.

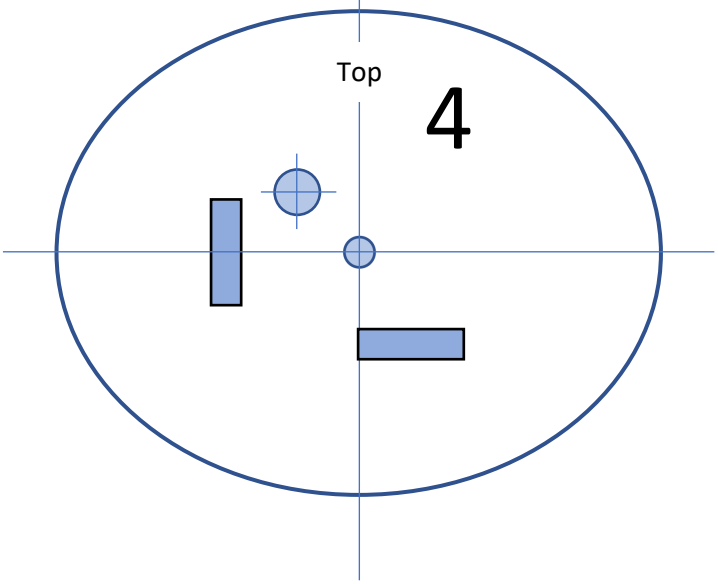
Rib02



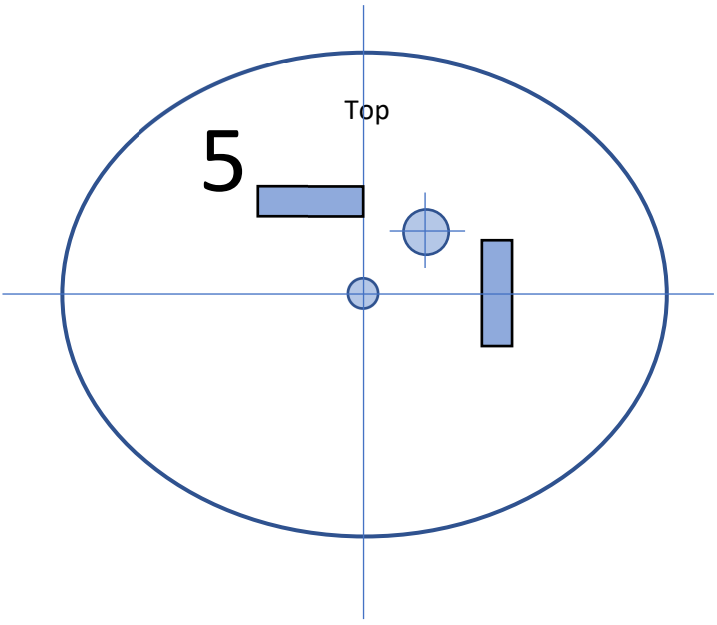
Rib03



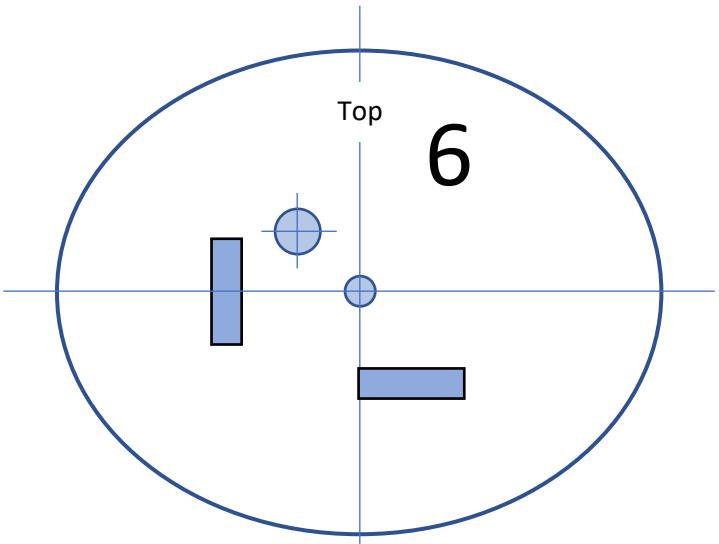
Rib04



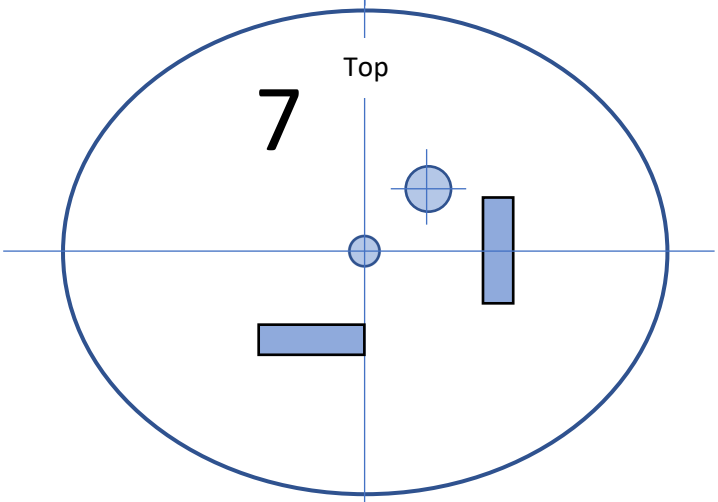
Rib05 is a Battery Holder.
The horizontal movement servo mounts in the top of the rib to make space at the bottom for the battery.



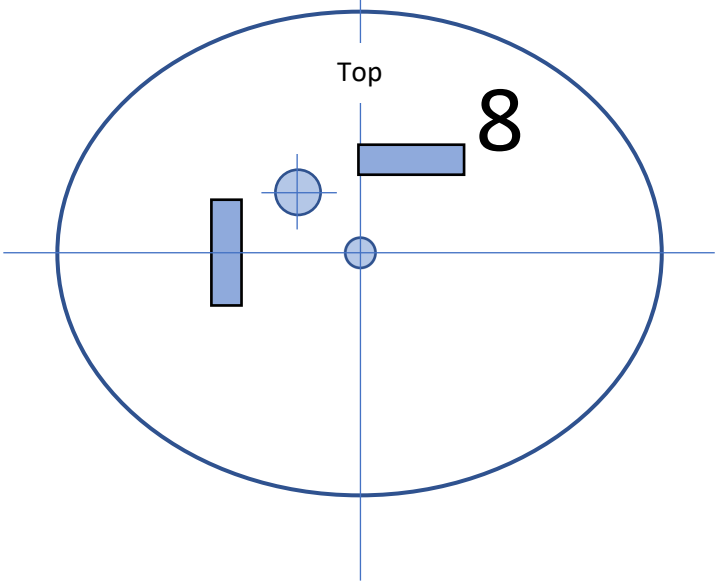
Rib06



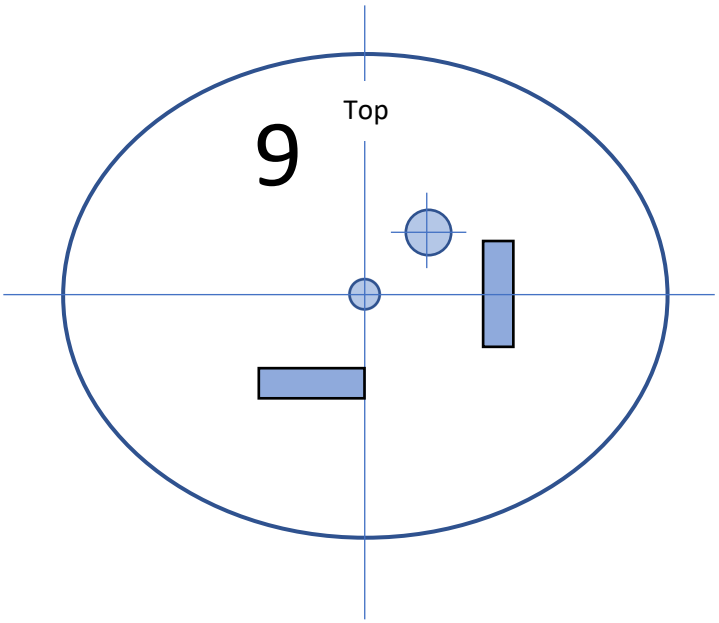
Rib07



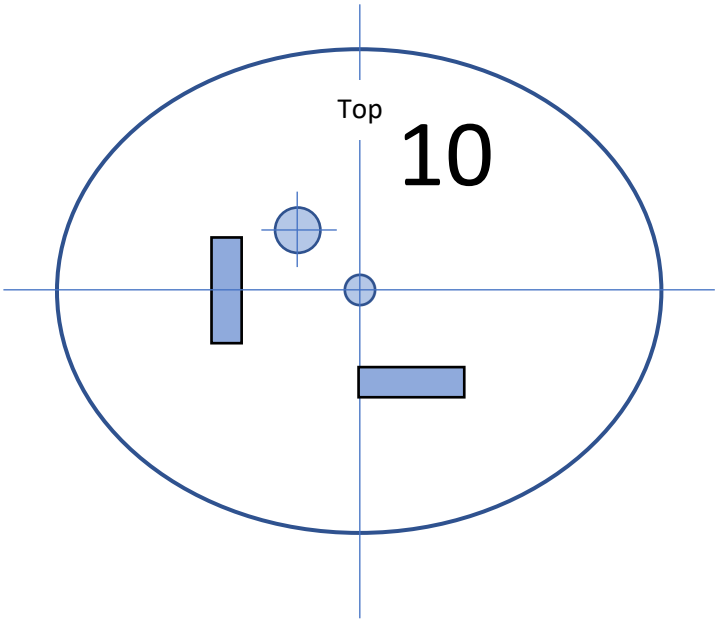
Rib08 is the second Battery Holder.
The horizontal movement servo
mounts in the top of the rib
to make space at the bottom
for the battery.



Rib09



Rib10



Notes.
Cutting out worked best for me with my basic home workshop resources by:

1. Rough cutting out with a power jigsaw
2. Working around the edge with a sanding disc attachment for my electric drill
3. Taking the pieces to my neighbour to borrow the use of his drill press to drill the holes accurately - thanks Dave!

Note
Scraping away the paper design from the plywood so the servos stick better.