

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!

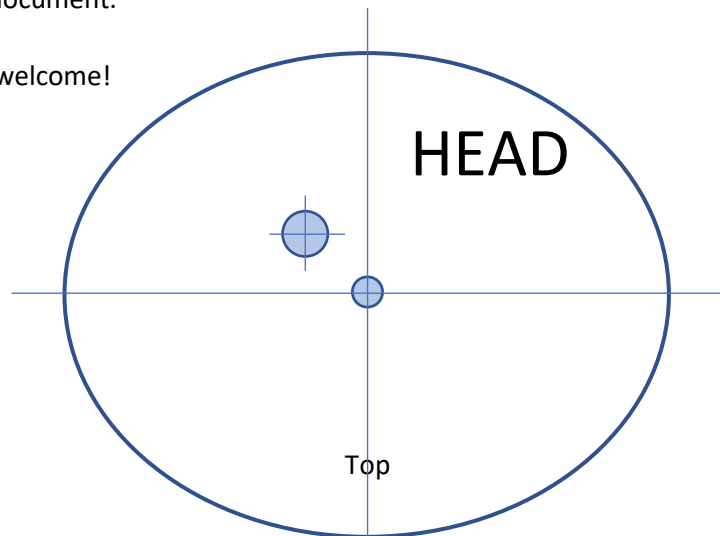
Ruler
15.5 x 10

Ruler
8 x 8

Head piece or "neck"

Holds the head items.

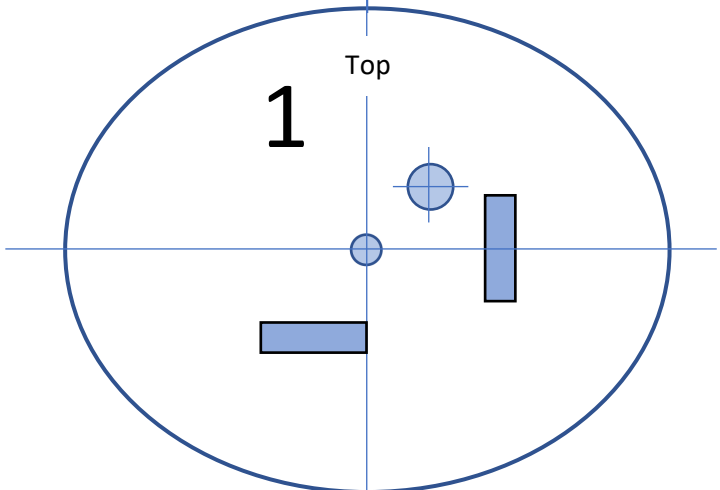
It may work well to make this
smaller than the "Ribs"



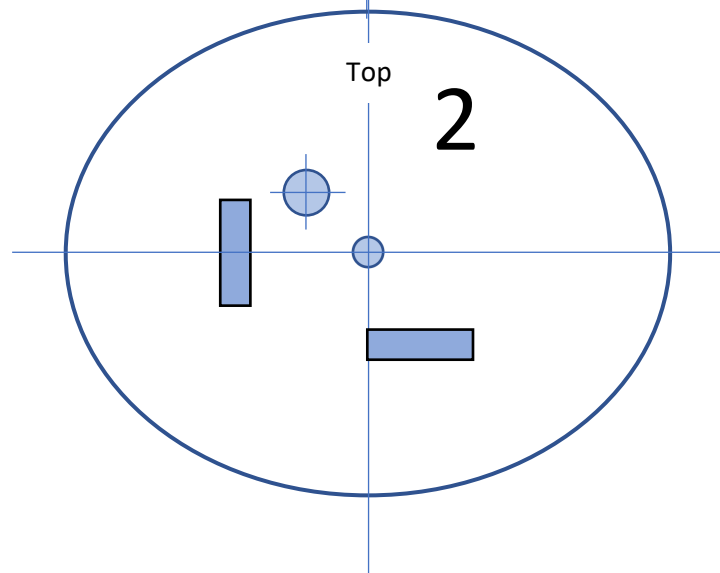
Rib01

Note that Ribs all have a 4mm hole
drilled in the centre.

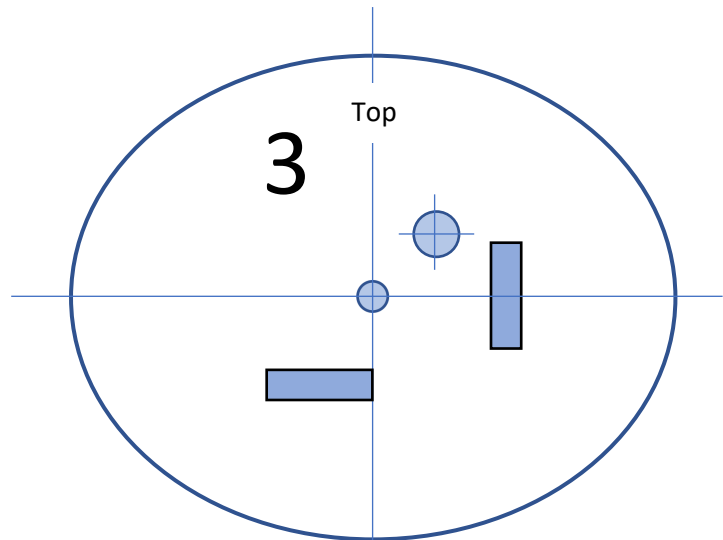
Compare with Rib02 below
to see how we aim
to "balance" the weights
of the servos by
staggering their positions
rib by rib.



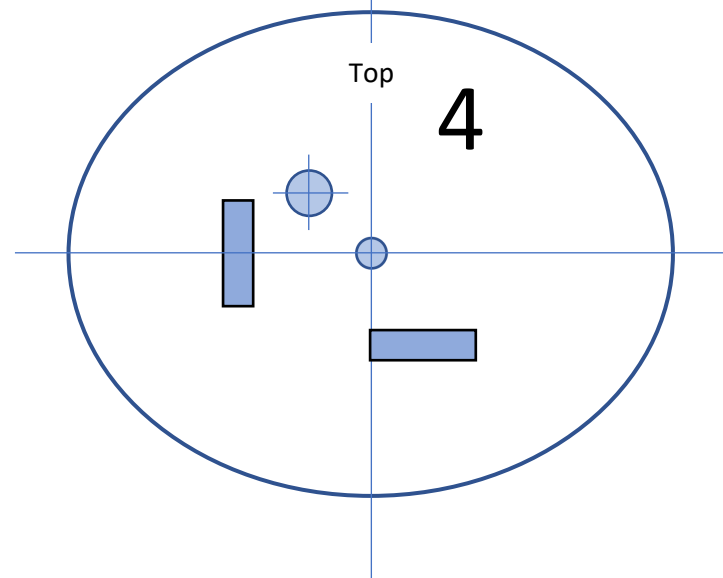
Rib02



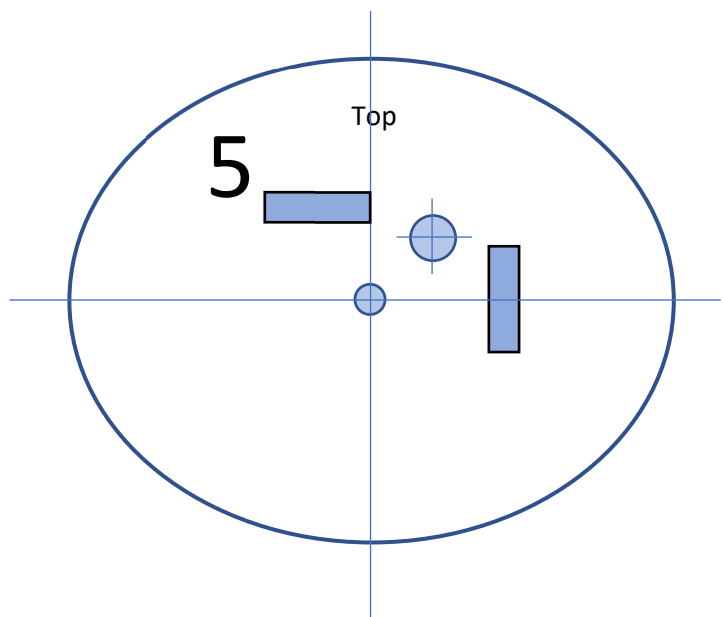
Rib03



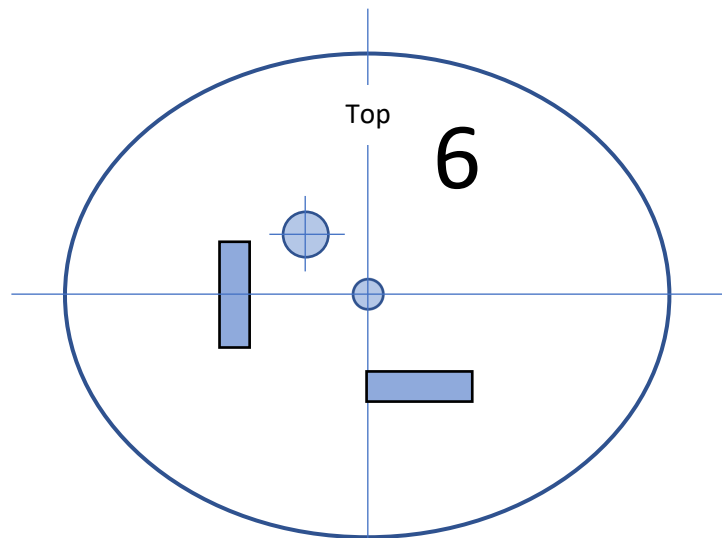
Rib04



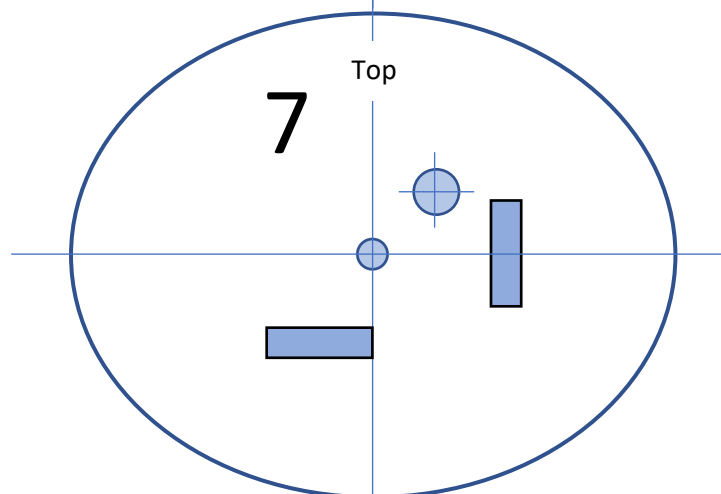
Rib05 is a Battery Holder.
Therefore horizontal movement servo
mounts in the top of the rib
to make space at the bottom
for the battery.



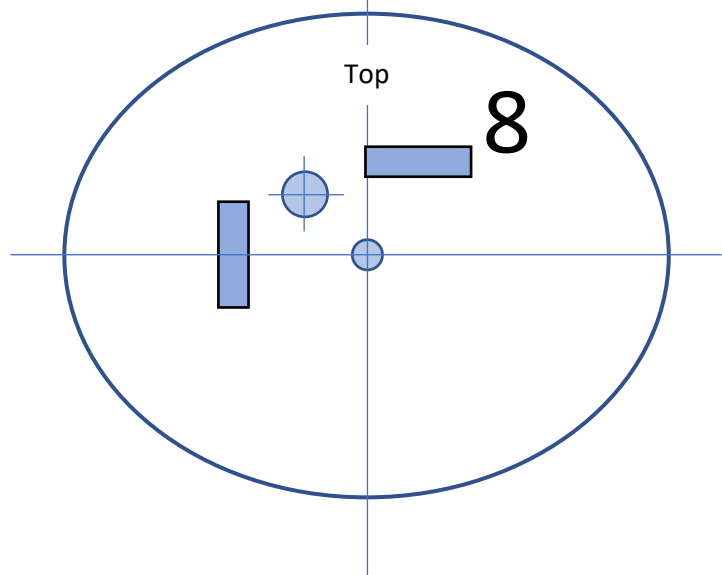
Rib06



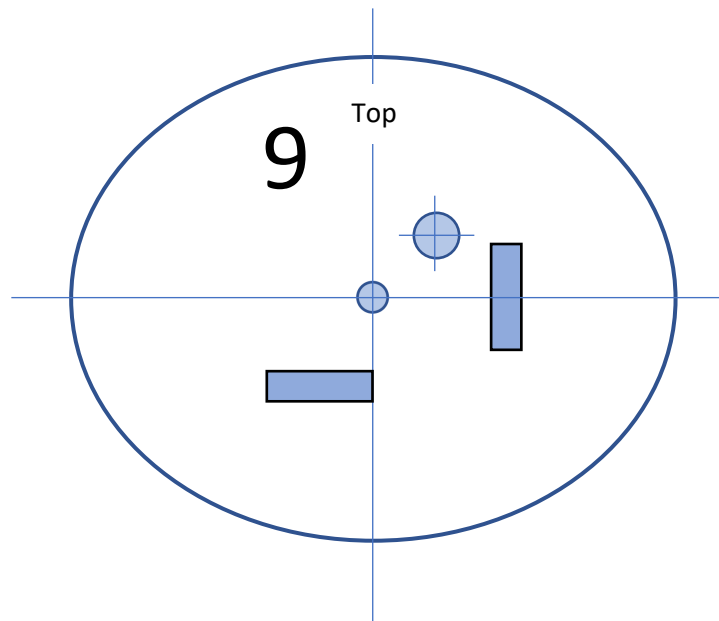
Rib07



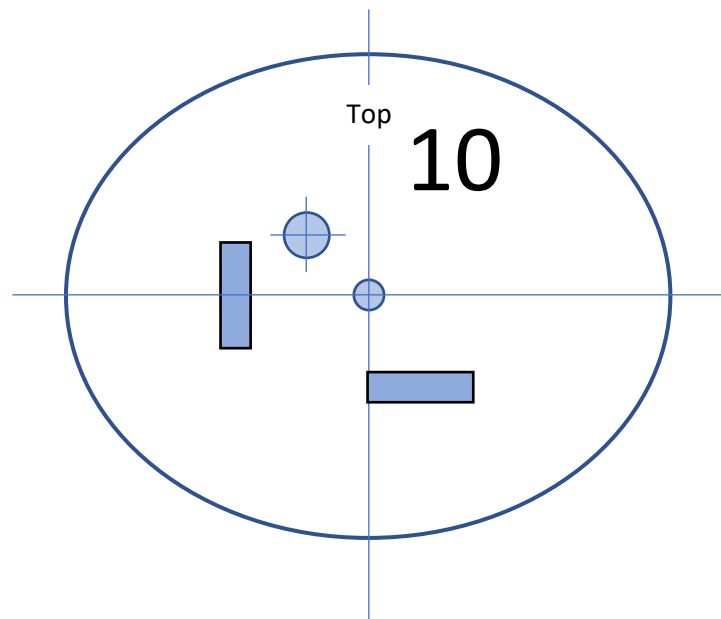
Rib08 is the second Battery Holder.
Therefore horizontal movement servo
mounts in the top of the rib
to make space at the bottom
for the battery.



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.

