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!

Head piece or "neck"  
Holds the head items.

Top

Ruler  
8 x 8

Ruler  
15.5 x 10

Top

2

1

HEAD

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

Top

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

Top

1

Rib03

Top

4

Top

3

Top

Rib04

5

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

Top

7

6

Top

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.

8

Top

Top

Rib09

10

Top

9

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.





