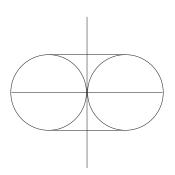
Cover Page

Internal 'Clockwise' Rotating Central Assembly 'X2' Prototype Part Construction Workshop Schematics 12 (twelve) pages including cover page



Contents

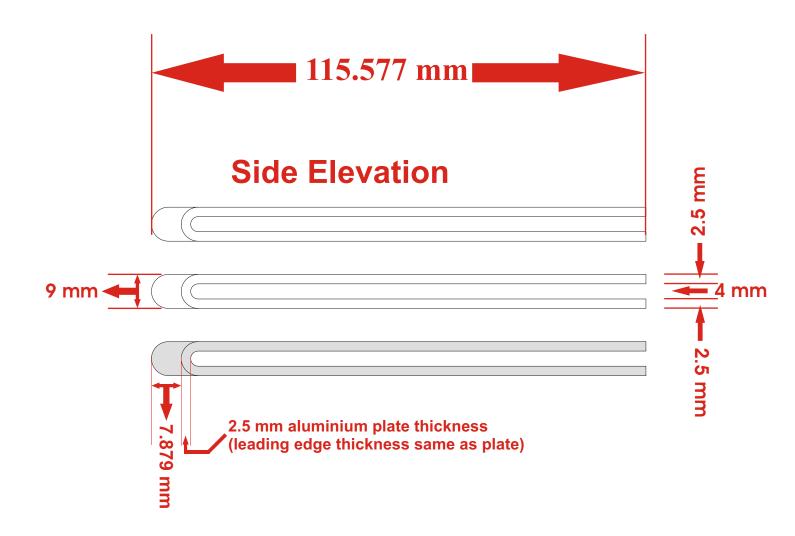
- 1. Cover Page
- 2. Contents
- 3. Capacitor Plate page 1
- 4. Capacitor Plate page 2
- 5. Capacitor Plate page 3
- 6. Capacitor Plate page 4
- 7. Capacitor Plate page 5
- 8. Outer Utron
- 9. Trunnion page 1
- 10. Trunnion page 2
- 11. Central Accumulator page 1
- 12. Central Accumulator page 2

Red lines & text: represent measurement, angular lines of interaction, angular degrees, thickness lines, design lines and technical information / specification.

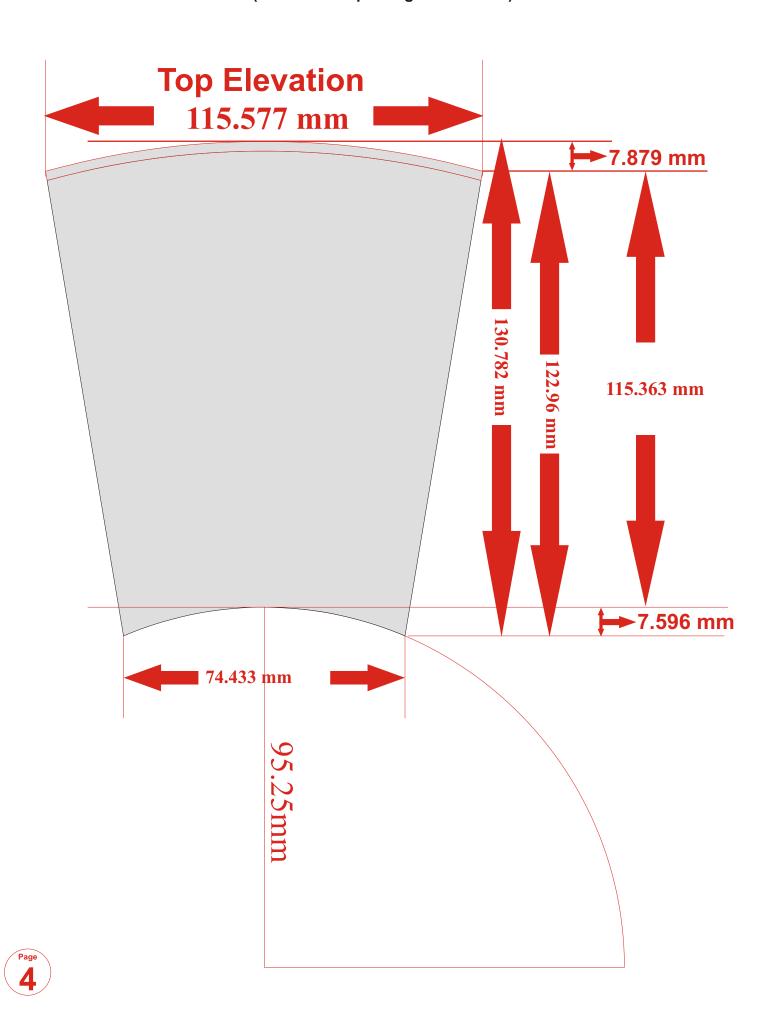
Black lines: represent actual shape and final component design to be machined.

All drawings are actual size, background page size is A4 or 21 cm x 29.7 cm.

X2 - Capacitor Plate x 6 - pg - 1

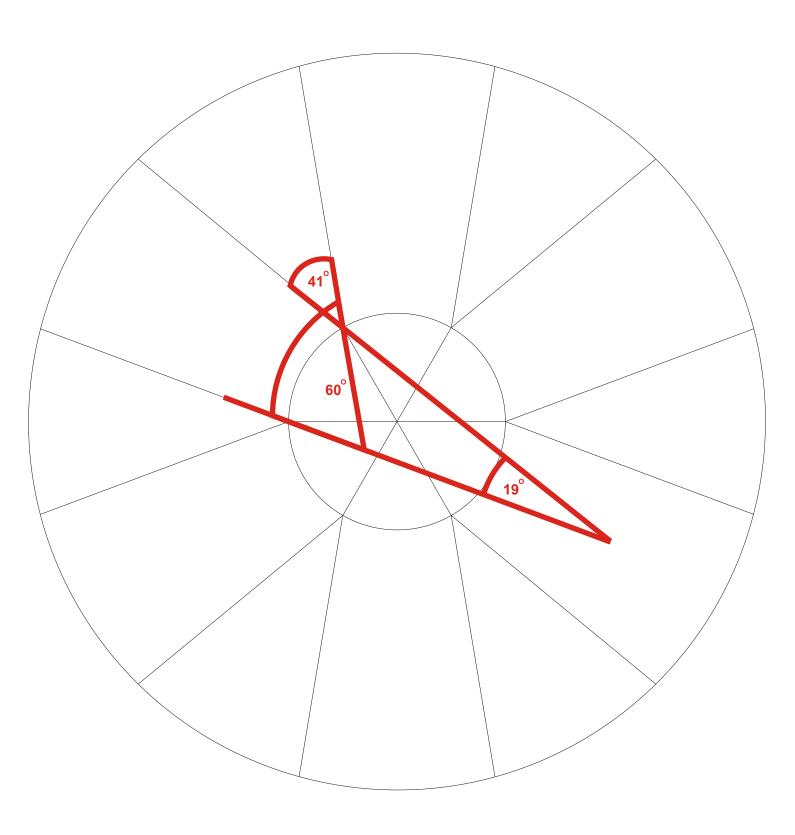


X2 - Capacitor Plate x 6 - pg - 2 (Machine Shop Design Schematic)

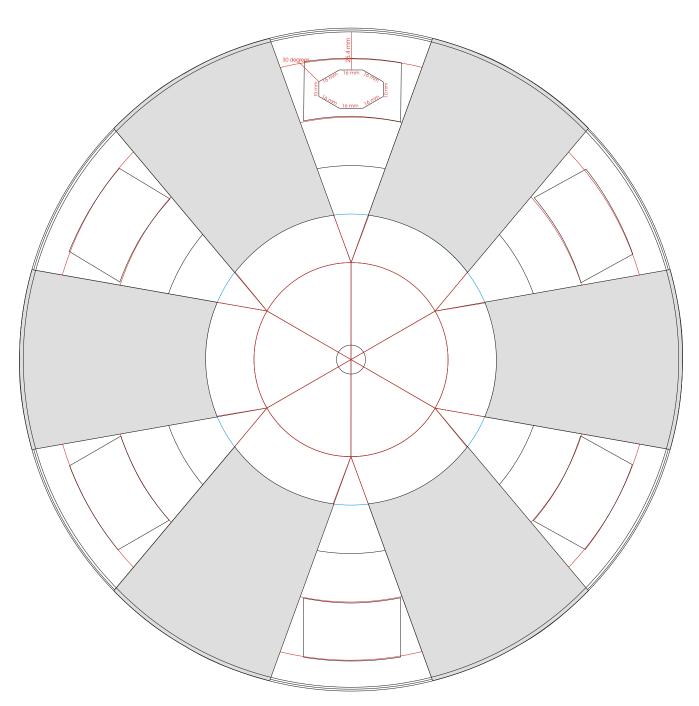


X2 - Capacitor Plate x 6 - pg - 3 (Machine Shop Design Schematic) **Capacitor plate Utron Segment** spacing spacing How to determine the geometric **3**00 angular spacing of the six Capacitor Plate segments and the six Utron segments.

X2 - Capacitor Plate x 6 - pg - 4 (Machine Shop Design Schematic)



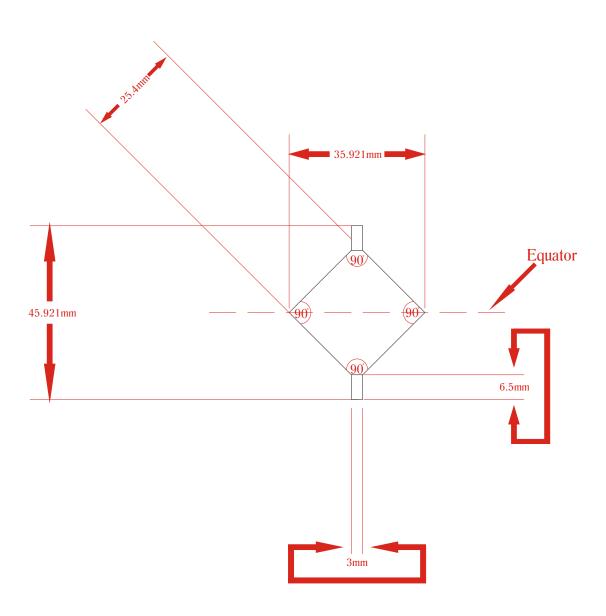
X2 - Capacitor Plate x 6 - pg - 5 (Machine Shop Design Schematic)



Inner assembly, need circumference adjustment for 2.5mm recess to fit inlayed capacitor plate.

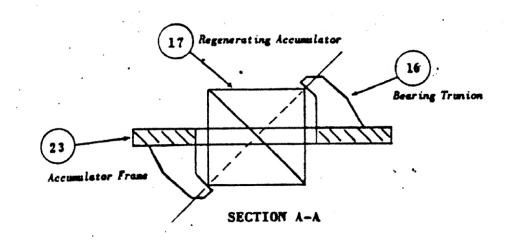
X2 - Outer Utron x 6

(Machine Shop Design Schematic)

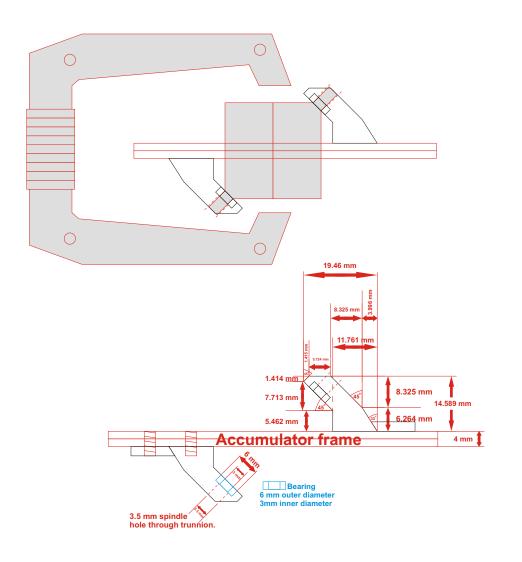


All one piece, double cones including spindle.

X2 - Trunnion x 12 - pg - 1 (Machine Shop Design Schematic)

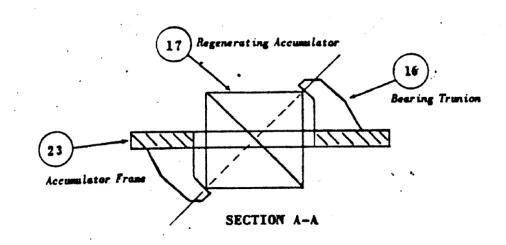


Side elevation

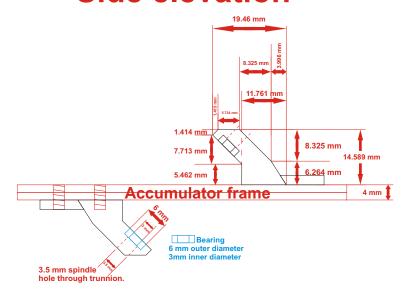


X2 - Trunnion x 12 - pg - 2

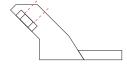
(Machine Shop Design Schematic)



Side elevation



Side elevation



Trunnion Bearing

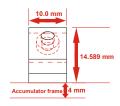


Outer diameter W - 6 mm x H - 2 mm **Center hole** W - 3mm x H - 2mm.

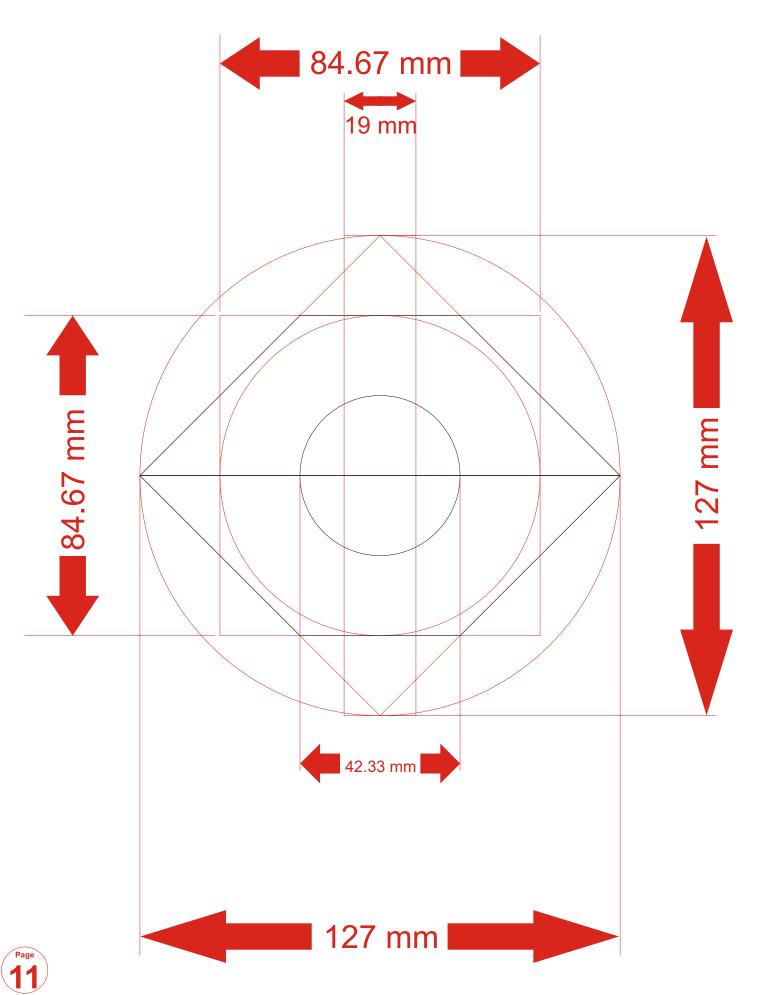


W - 3.5mm hole on top of bearing through trunnion, in counter - sunk arrangement with bearing, for the **Utron spindle to** fit in and free spin.

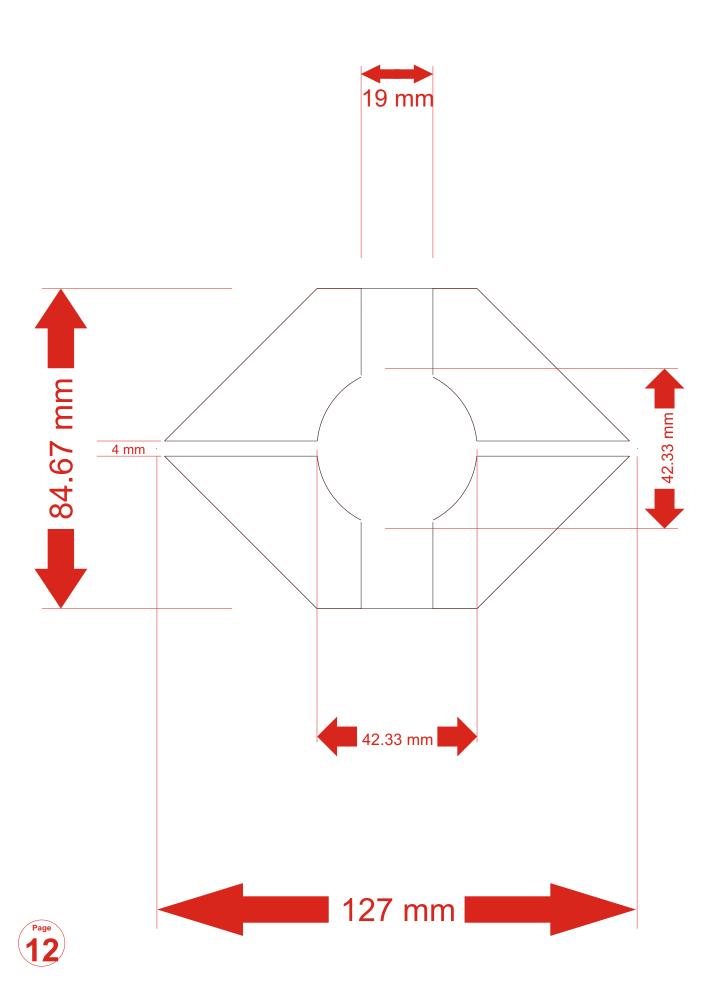
End elevation



X2 - Central Accumulator - pg - 1



X2 - Central Accumulator - pg - 2



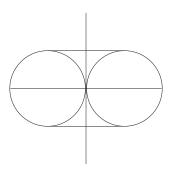
Cover Page

External 'Counter - Clockwise' Rotating Frame Work Assembly

'X2' Prototype Part Construction

Workshop Schematics

22 (twenty two) pages including cover page



Contents

- 13. Cover Page
- 14. Contents
- 15. Top Rib
- 16. Bottom Rib
- 17. 'C' Magnet
- 18. 'C' Magnet Coil Former
- 19. 'C' Magnet Contact Former
- 20. Landing Gear
- 21. Keystone
- 22. To 34. Illustrations & Photos

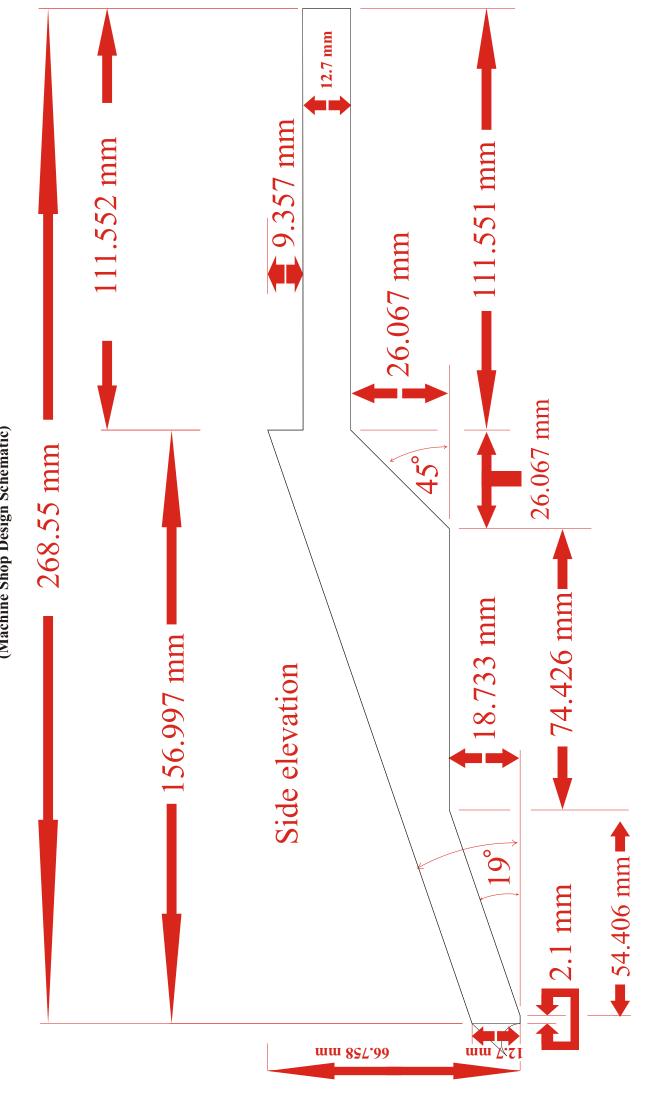
Red lines & text: represent measurement, angular lines of interaction, angular degrees, thickness lines, design lines and technical information / specification.

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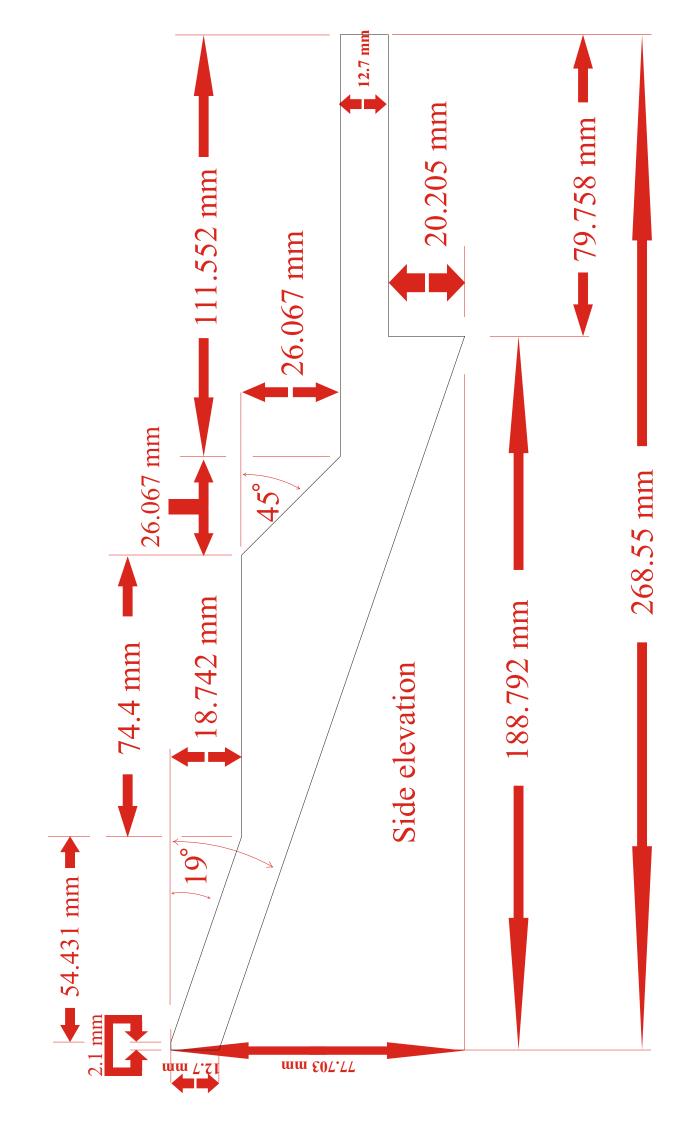


X2 - Hull (Top Rib / Cab Support) x 12
(Machine Shop Design Schematic)



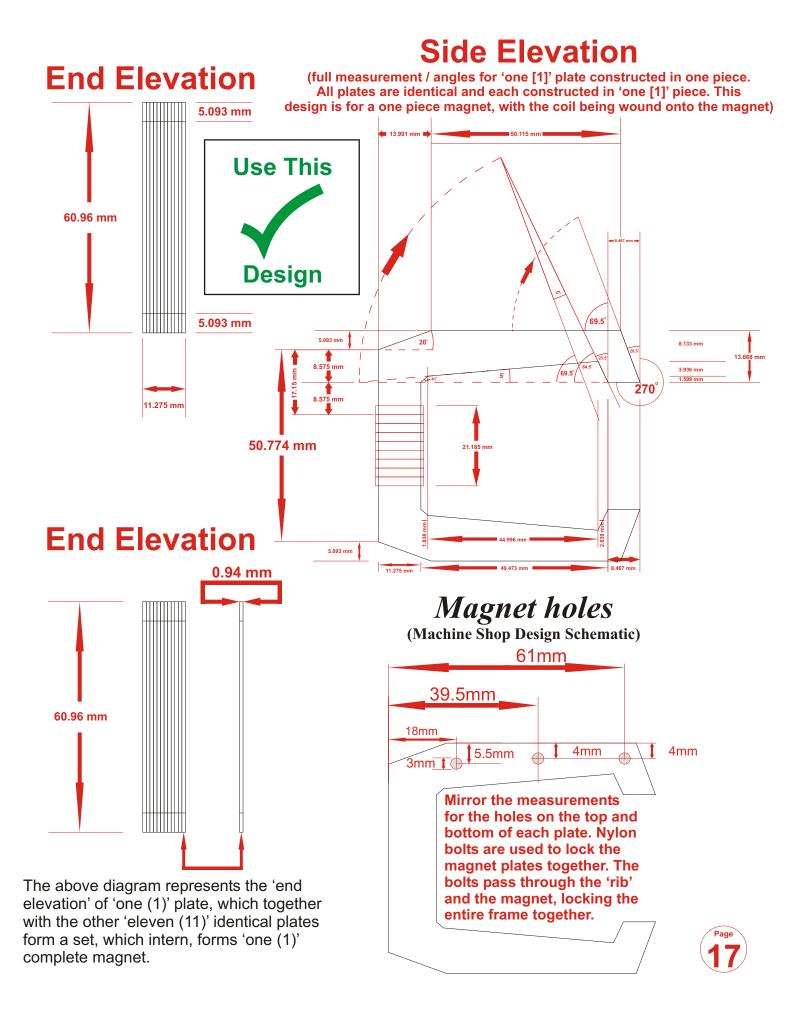


X2 - Hull (Bottom Rib / Landing Gear Support) x 12



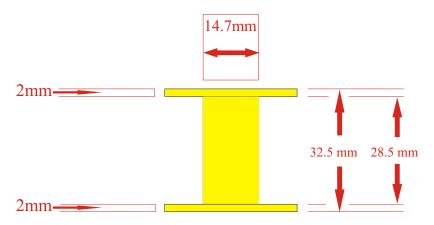


X2 - 'C' Magnet x 12

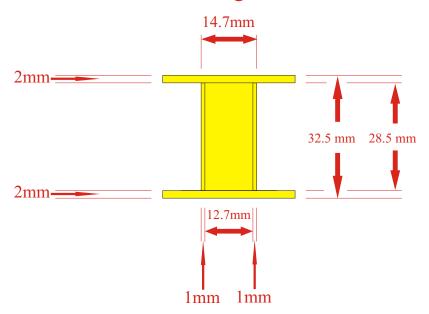


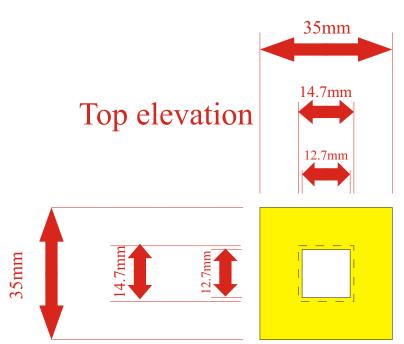
X2 - 'C' Magnet Coil Former x 12 (Machine Shop Design Schematic)

Side elevation

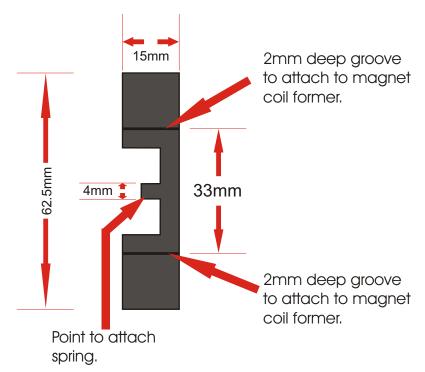


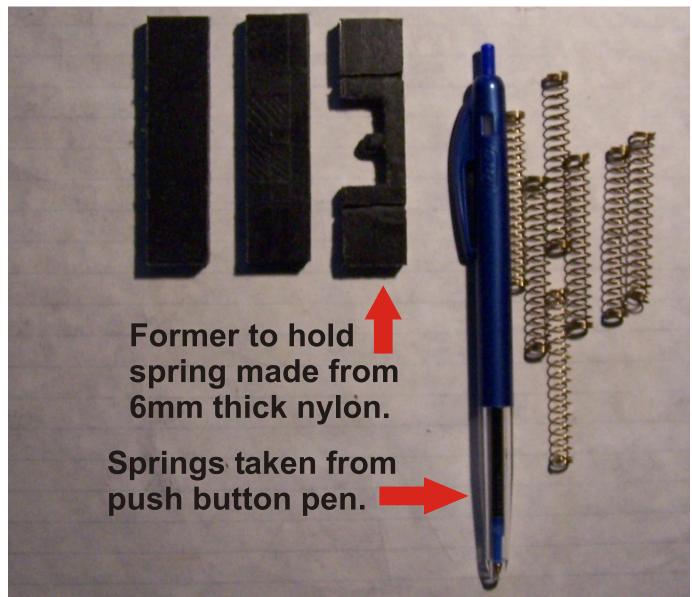
Side cut through elevation





X2 - 'C' Magnet Electrical Contact Former x 12



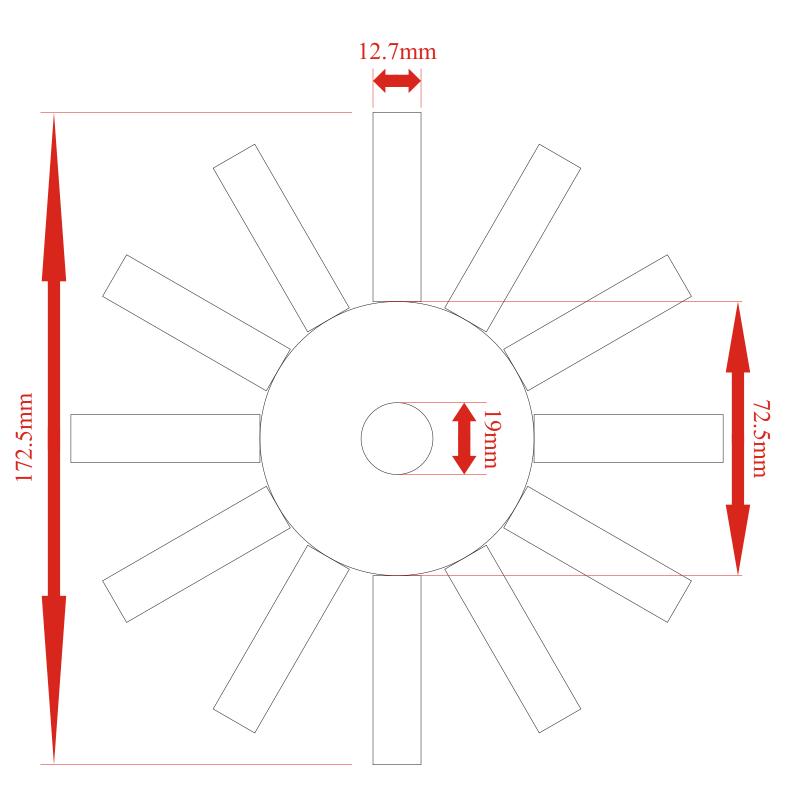




Outer ring 211mm X2 - Landing Gear - page 1 (Machine Shop Design Schematic) 35777 120 degree spacing 58mm 75mm Landing gear 191mm

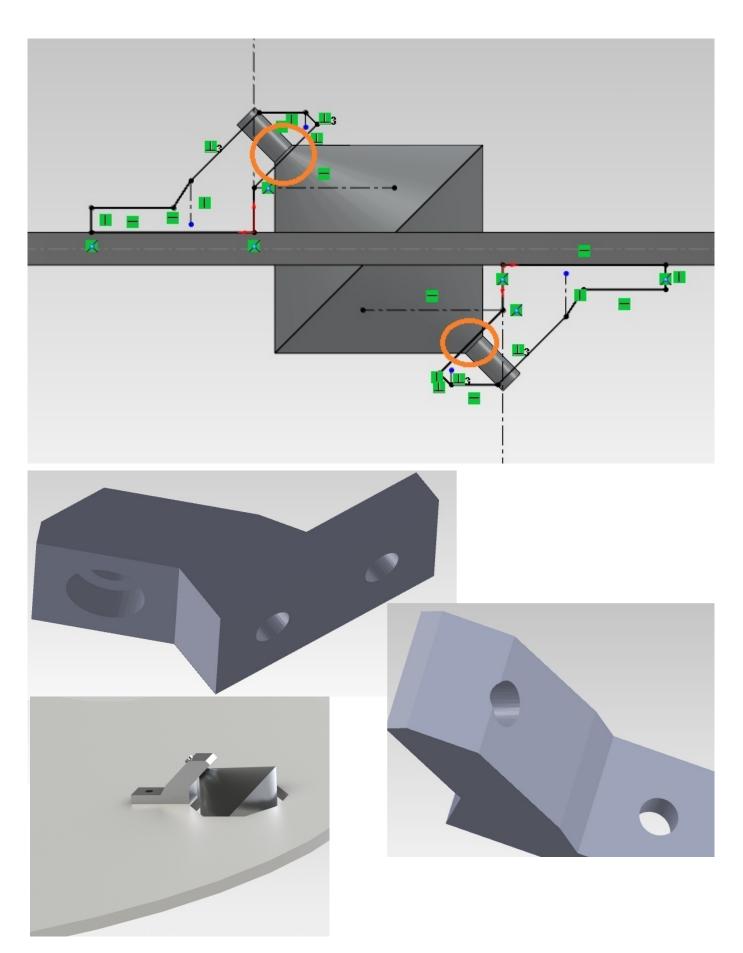
X2 - Keystone

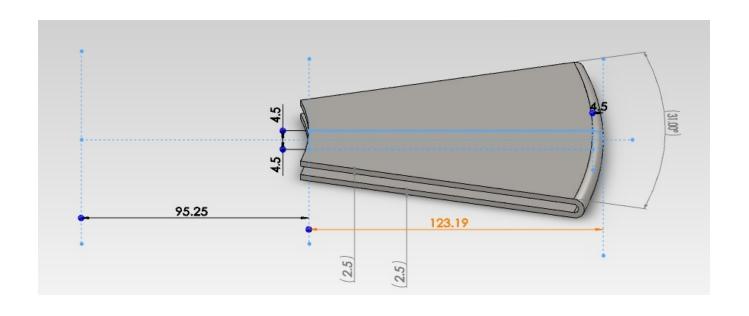
(Machine Shop Design Schematic)

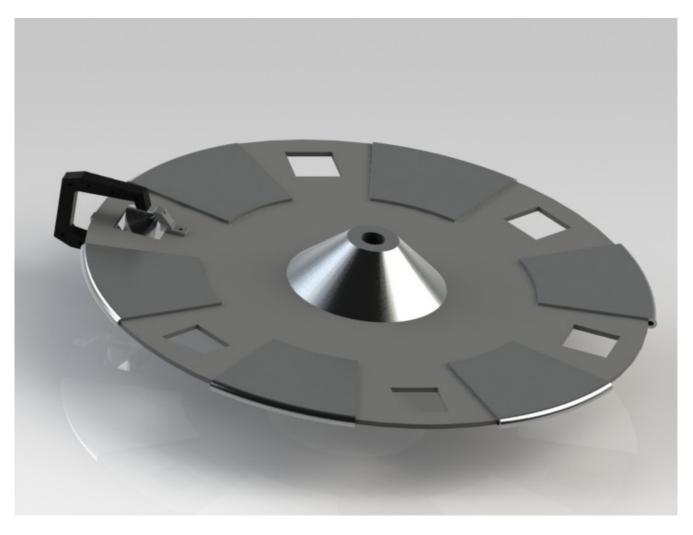


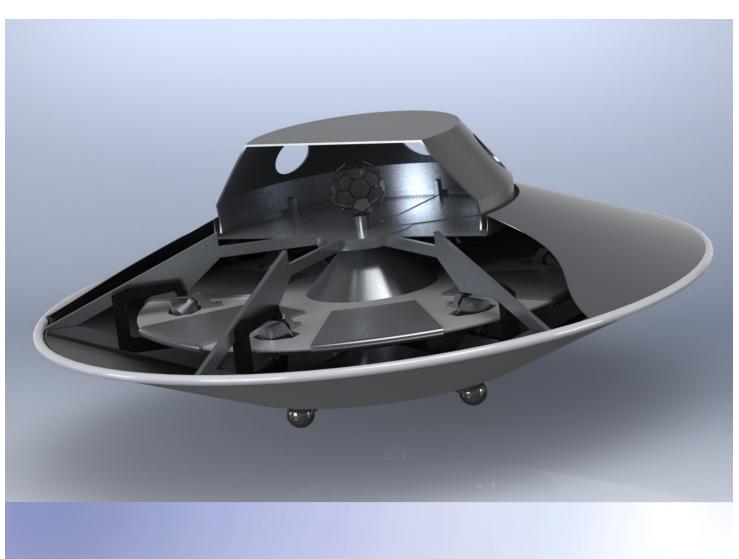
This is the piece that all of the rib sections join to. The hole through the center is for the 19mm bearing. This can be printed out and used as a template if you are making this piece from balsa or ply etc.

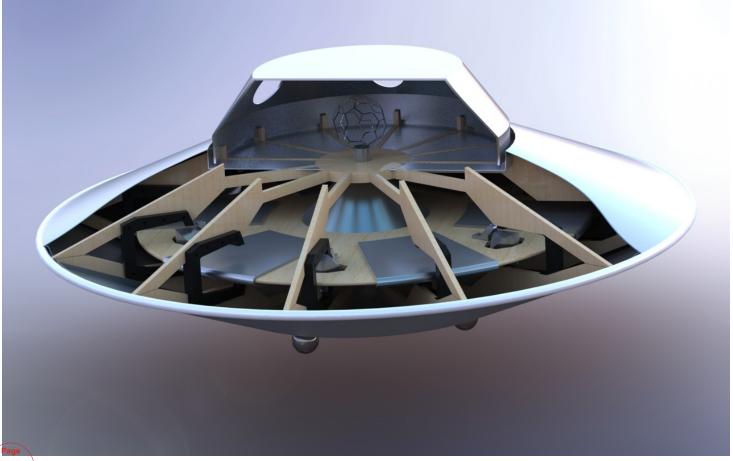


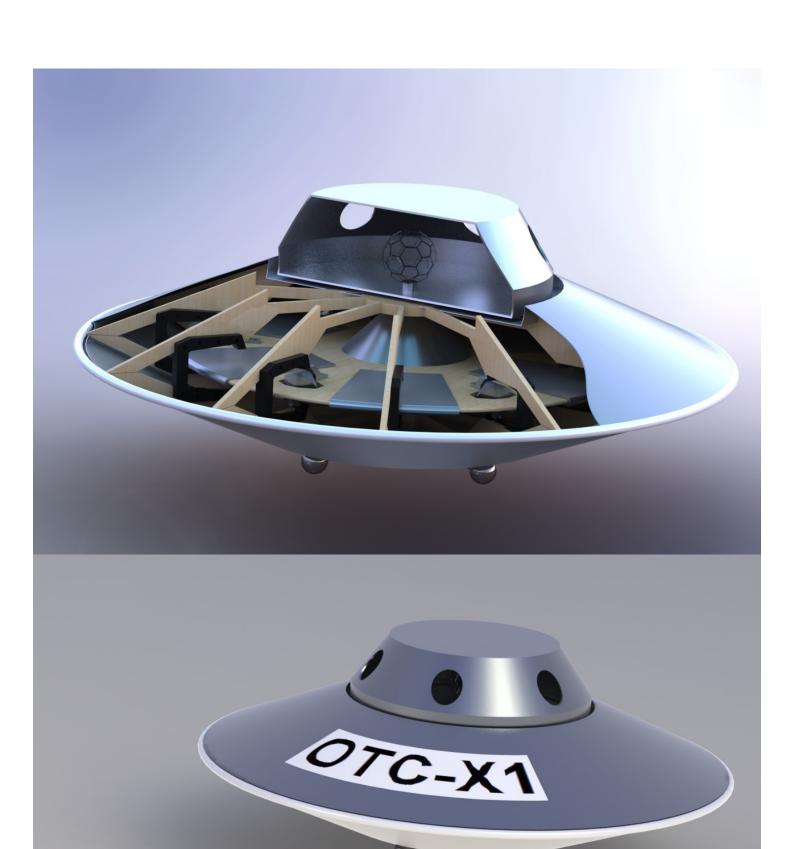
















Landing gear with central shaft.



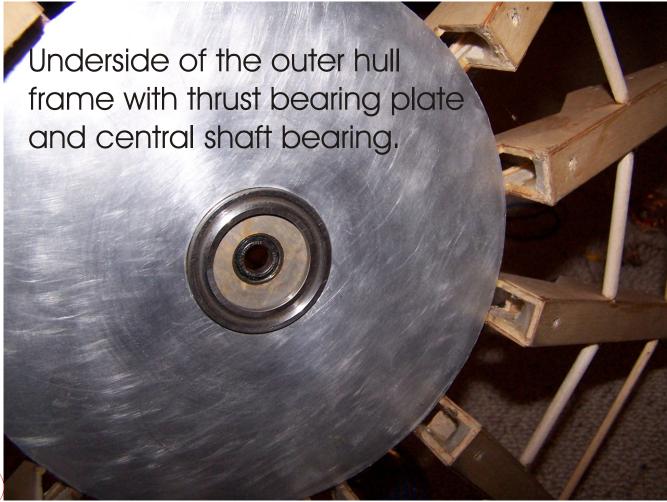




Landing gear bearing assembly.









Bottom half of the outer hull frame mounted on the landing gear and the central accumulator thrust bearing assembly.





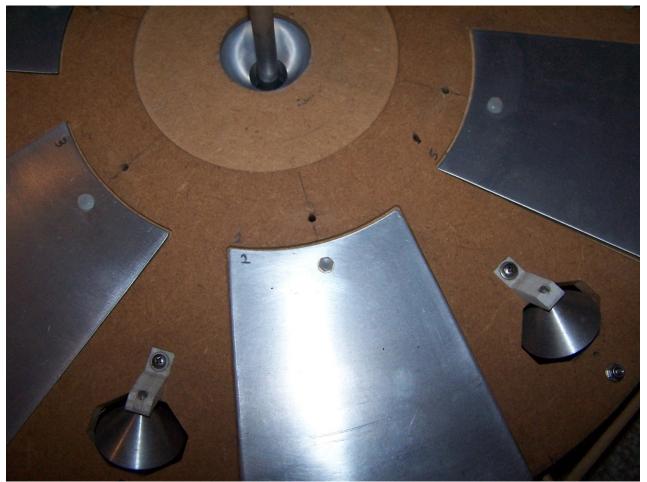


Central accumulator shaft bearing and the bottom half of the central accumulator mounted on the thrust bearing assembly.





Central disk assembly mounted on the bottom half of the central accumulator and close up showing the nylon bolts used to hold the capacitor plates on to the central disk assembly.





Top half of the central accumulator with shaft bearing and the top half of the central accumulator mounted on the central disk assembly.





'C' magnet with nylon spring former and spring attached. Spring needs to be cut to size.

