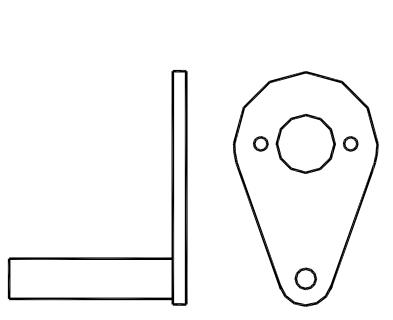
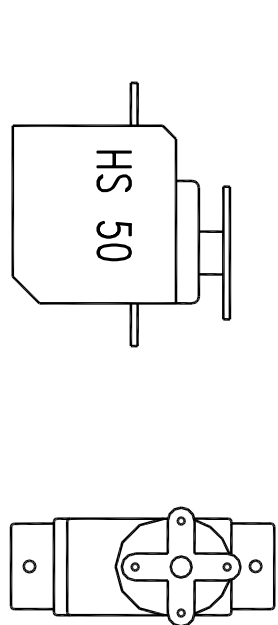


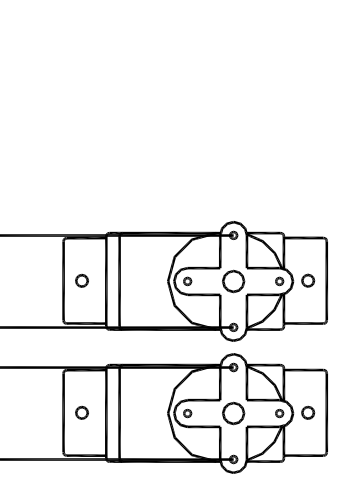
DC 1717 motor mount.
 Make from 0.050 glass
 sheet. Secure to short
 length of dowel with small
 screw. Epoxy in boom.
 Thrust line is 0 Deg. Rt.
 and 0 Deg. Down.



Cover center section of
 wing with 1/32" Sheet
 balsa. Top only. Leave
 bottom of center section
 uncovered for equipment
 access.



Control Linkage



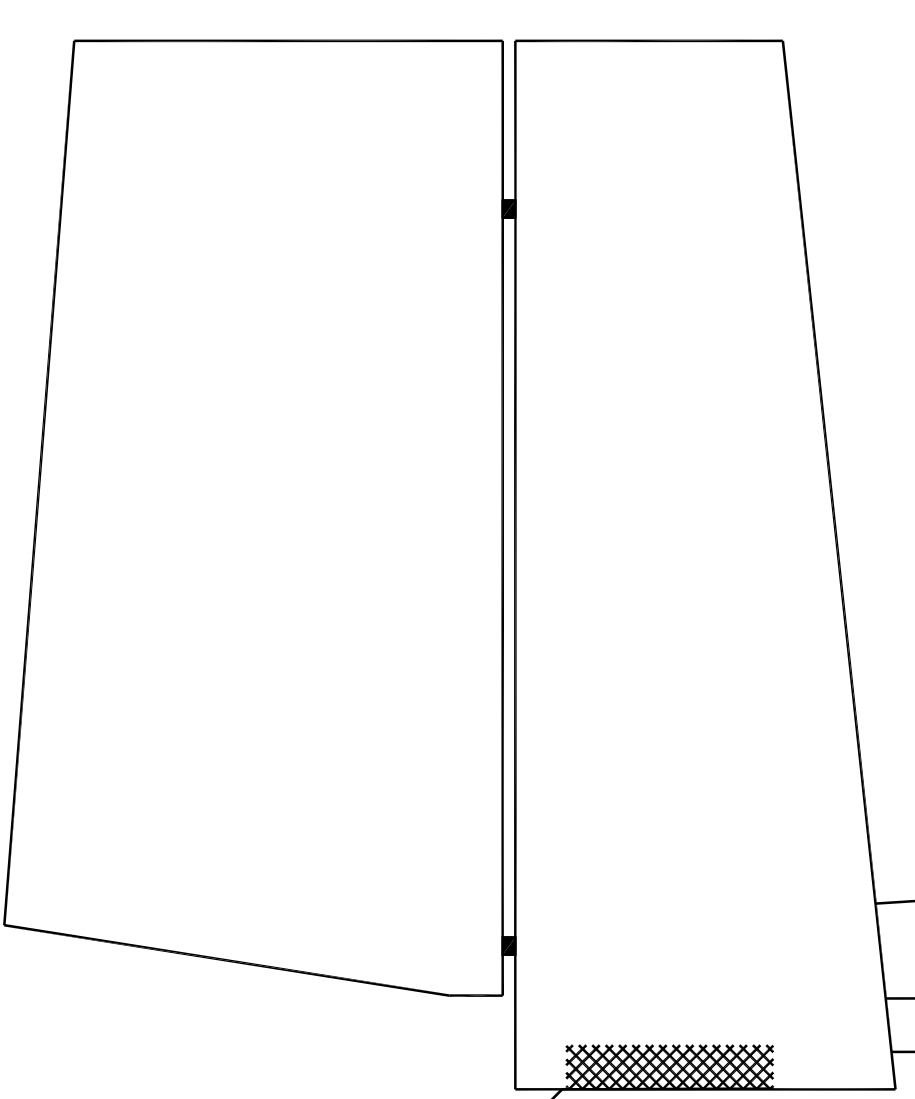
L. Ail. R. Ail.

L. Rdv. R. Rdv.

Control Throws: $\pm 3/4"$
 at tip of rudder and
 $\pm 1/2"$ at tip of Flaperon.
 Up and down elevator only
 when measuring.

1/32" Ply.

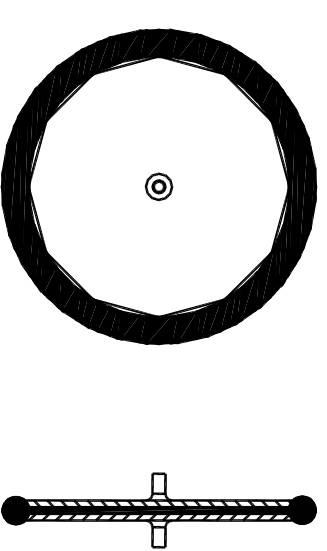
Servo Rail 2 Req.
 Control Horn 4 Req.



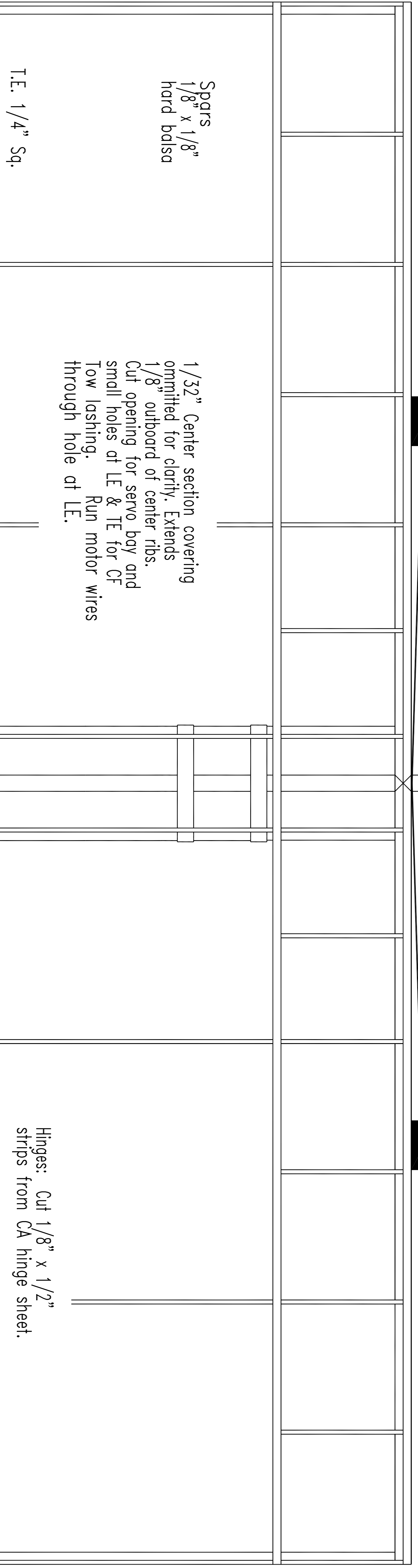
Lndg. Gear (true length): 0.080 Carbon rod. Bind to
 fuselage tube at wing LE with CF Tow or thread and
 CA.
 Axle: 1/32" Dia. wire. Note small loop in wire at rod
 end. Fasten to Carbon rod with heat shrink tubing and
 CA.
 Wheels: No. 1 Trexler Air Wheels shown.

L.E. 1/4 Sq.

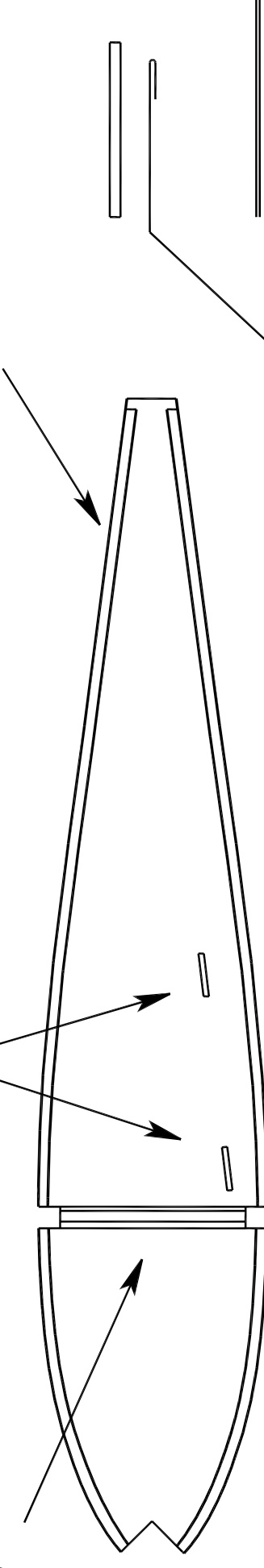
Wheel option: Laminiate
 1/32" balsa disks on
 either side of a 1/32" ply
 disk. Use 0 ring for file
 if desired and epoxy
 small Dia. Al. tube for a
 bearing.



CG

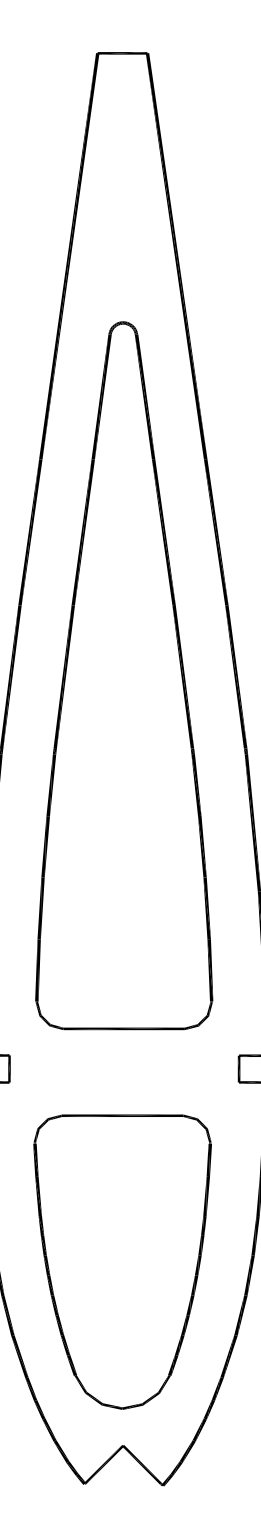


Add 1/16" Sq. stiffeners to
 center and tip ribs. Top
 stiffeners not required on
 center ribs.
 Cut slots for
 servo rolls in
 center ribs



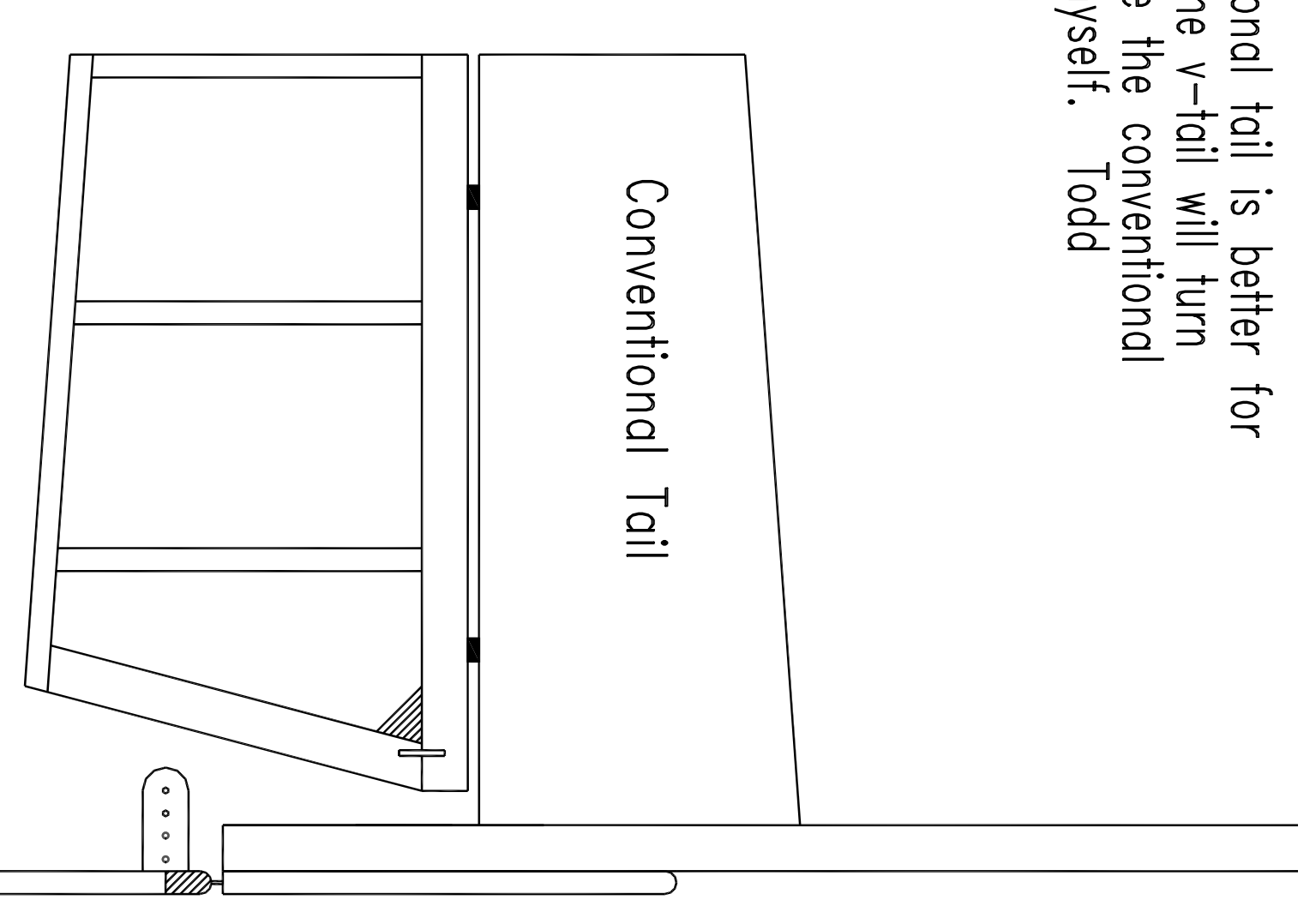
Bind Fuselage to
 Lndg. Gear and
 wing at LE & Wing to
 fuselage at TE with CF
 Tow or Thread.

Add 1/16" x 1/8"
 shear strips to all
 ribs.
 Main Rib, 8 Req.
 4 with lightening holes
 1/16" Sheet.

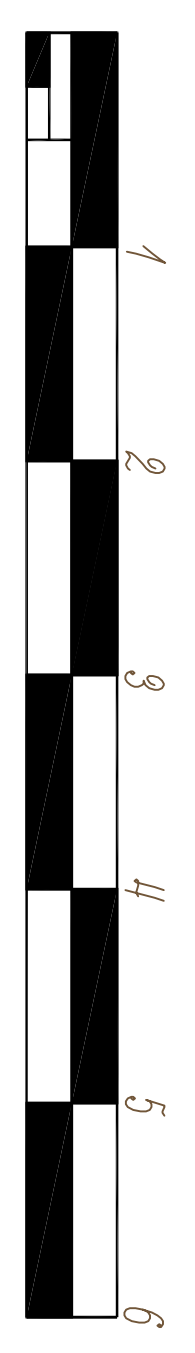


Sub Rib, 6 Req.
 1/16" Sheet.

Note:
 The conventional tail is better for
 loops while the v-tail will turn
 tighter. I like the conventional
 tail better myself. Todd



For mixing rudder with
 ailerons run a pushrod from
 the left aileron to the left
 side of the rudder.



TINY
<http://www.toddmodels.com>

Design: Todd Long 1/1/99
 Drawing: Todd Long & Chuck Clemens
 Wing Span: 24
 Wing Area: 220 In. Sq.
 Motor: 1717-1524 11.8:1 gear reduction
 Weight: 4~5.5 ounces
 Battery: 8~10 cell 50mAh
 ESC: 4 amp type
 Servos: 6 gram type
 Rx: 14g or less
 Prop: Braun Lightweight Carbon
 Control Setup:
 Flapperon Mix with V-Tail or
 rudder coupled with ailerons and elevator

Rev: 11/1/99
 Todd Long

Fuselage: 1/4" Dia. CF tube.
 Carbon fiber rods and tubes
 are available at kite stores.
 All wood is medium or light
 balsa unless noted.
 Two coats of thin dope on tail
 surfaces. KEEP LIGHT!!!!!!
 Cover open framework with
 5 ml mylar.

Pushrods: 0.050 CF
 Assemble with heat
 shrink tubing.
 Adjust & apply CA.
 no scale

Control horn end
 Servo end

Make hinges from thin
 CA hinge material.

