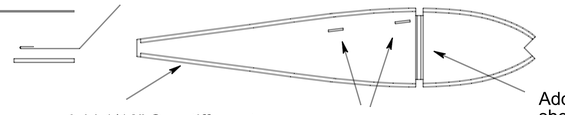
DC 1717 motor mount. Make from 0.060 glass sheet. Secure to short length of dowel with small screw. Epoxy in boom. Thrust line is 0 Deg. Rt. and 0 Deg. Down.

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.

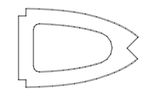


Add 1/16" Sq. stiffners to center and tip ribs. Top stiffners not required on center ribs.

Cut slots for servo rails in center ribs

Add 1/16" x 1/8" shear strips to all ribs.

Main Rib, 8 Req.
4 with lightening holes
1/16" Sheet.

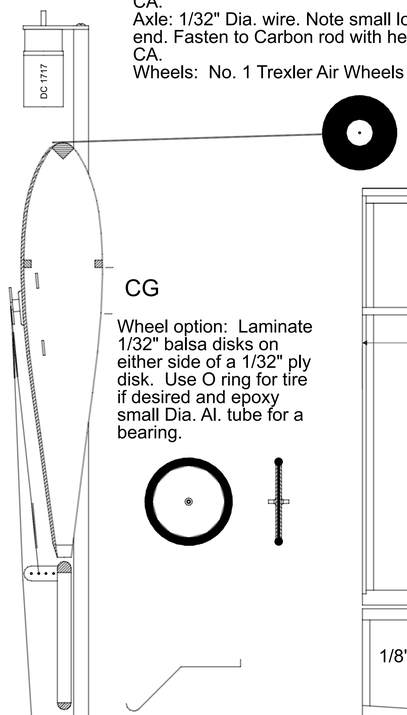


Sub Rib, 6 Req.
1/16" Sheet.

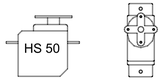
Note:

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

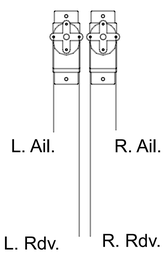
Bind Fuselage to Lndg. Gear and wing at LE & Wing to fuselage at TE with CF Tow or Thread.



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

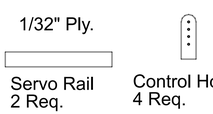


Control Linkage



Control Throws: +- 3/4" at tip of rudervator and +- 1/2" at tip of Flaperon. Up and down elevator only when measuring.

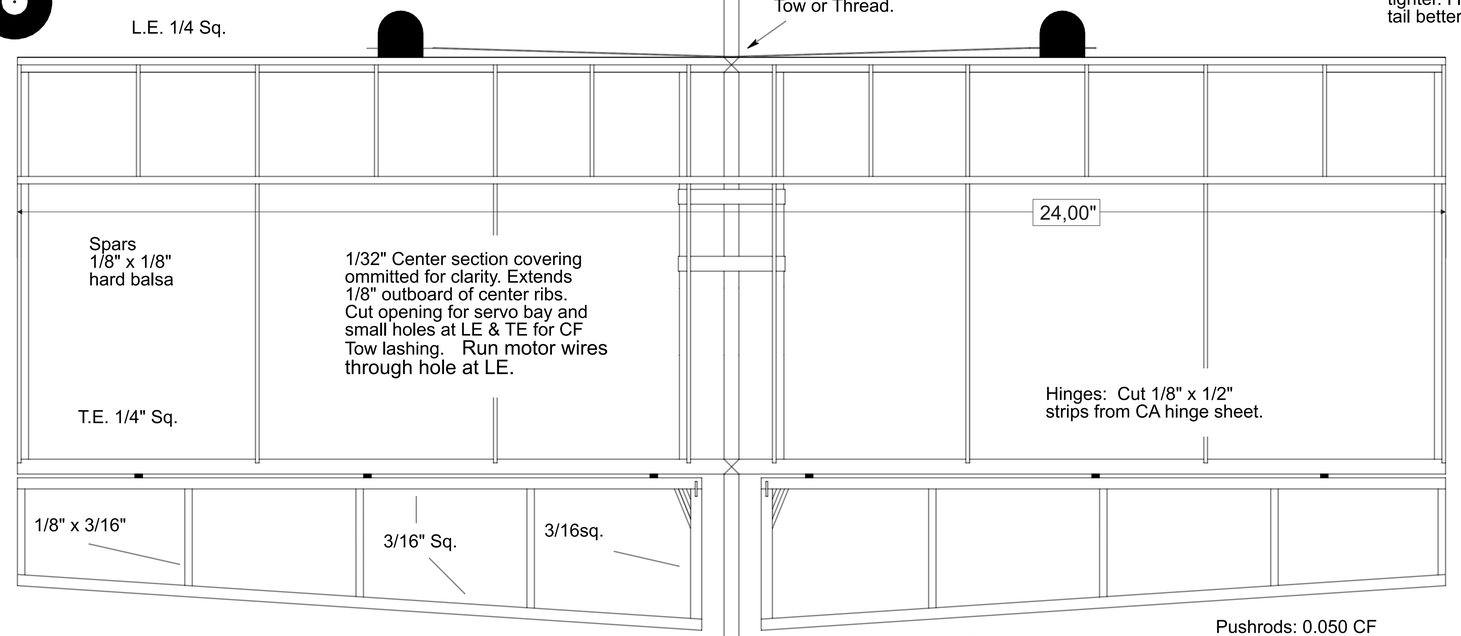
1/32" Ply.



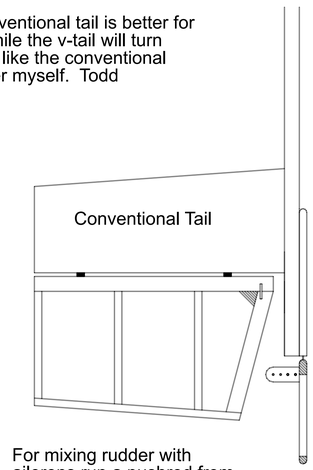
Servo Rail
2 Req.

Control Horn
4 Req.

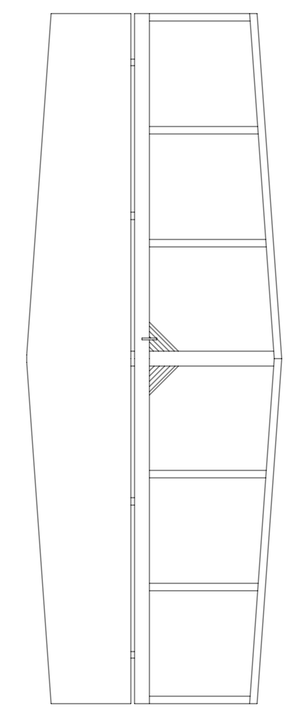
Wheel option: Laminate 1/32" balsa disks on either side of a 1/32" ply disk. Use O ring for tire if desired and epoxy small Dia. Al. tube for a bearing.



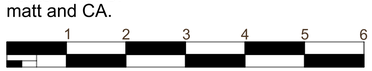
Conventional Tail



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



Tailskid:
1/32" Dia. wire.
Fasten with CF matt and CA.



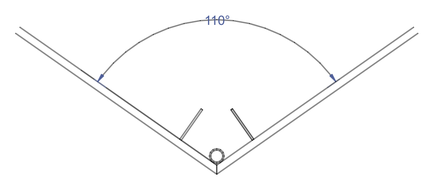
TINY

http://www.toddsmodels.com

Design: Todd Long 1/1/99
Drawing: Todd Long & Chuck Clemans
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.

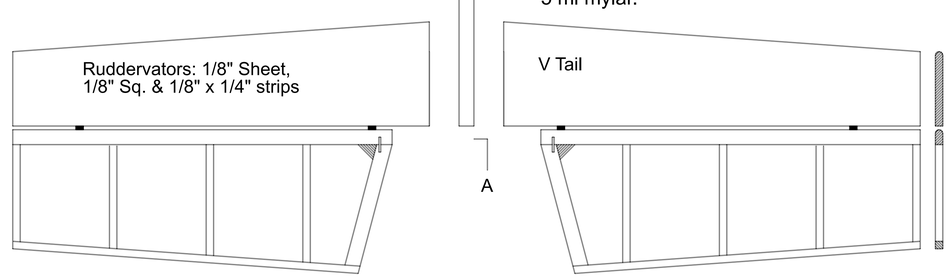
All wood is medium or light balsa unless noted.

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



Make hinges from thin CA hinge material.