

Martin XB-51

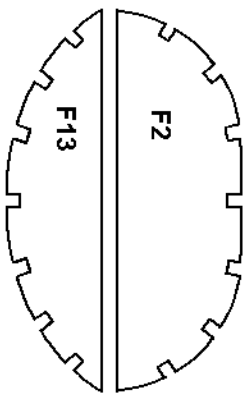
flying scale model for twin Rapier L2 motors
 Designed and drawn by
 Mike Stuart - Sheet 1 of 5

Prototype weighed 64 grams with two loaded Rapier L2 motors, 50.5 grams empty.
 Model has been successfully flown on motors in the power range 80 to 100 mN

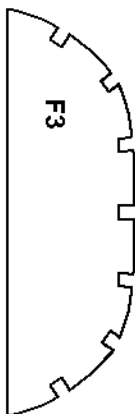


Nose logo in red outlined in white (only red shown)

1/16" sheet on centreline

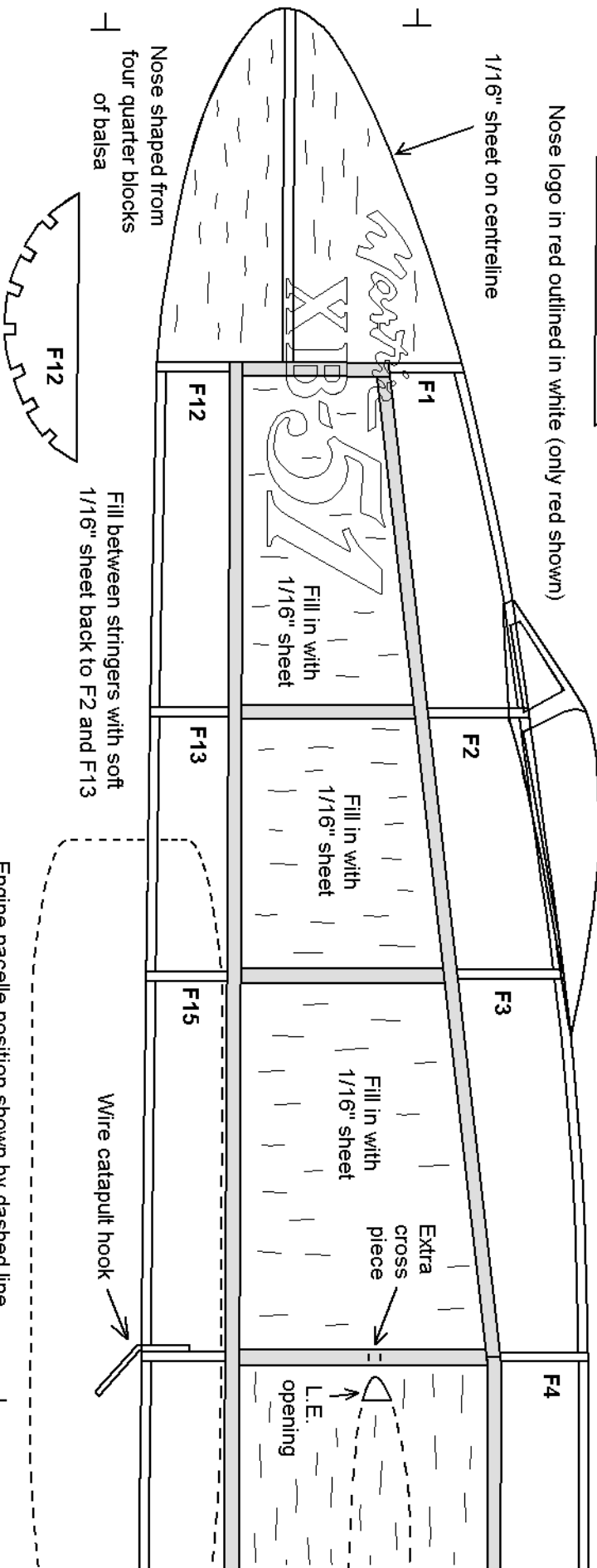


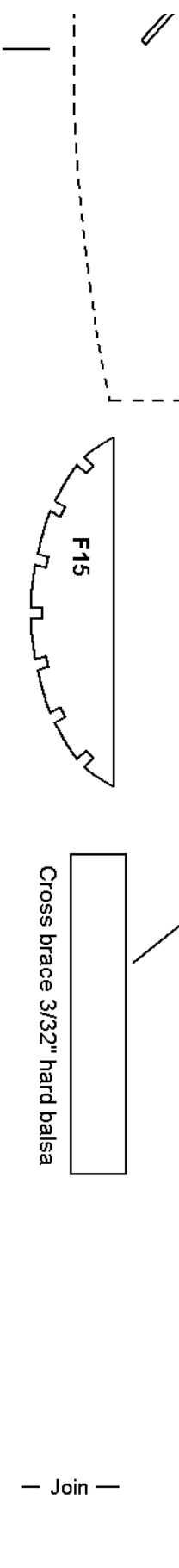
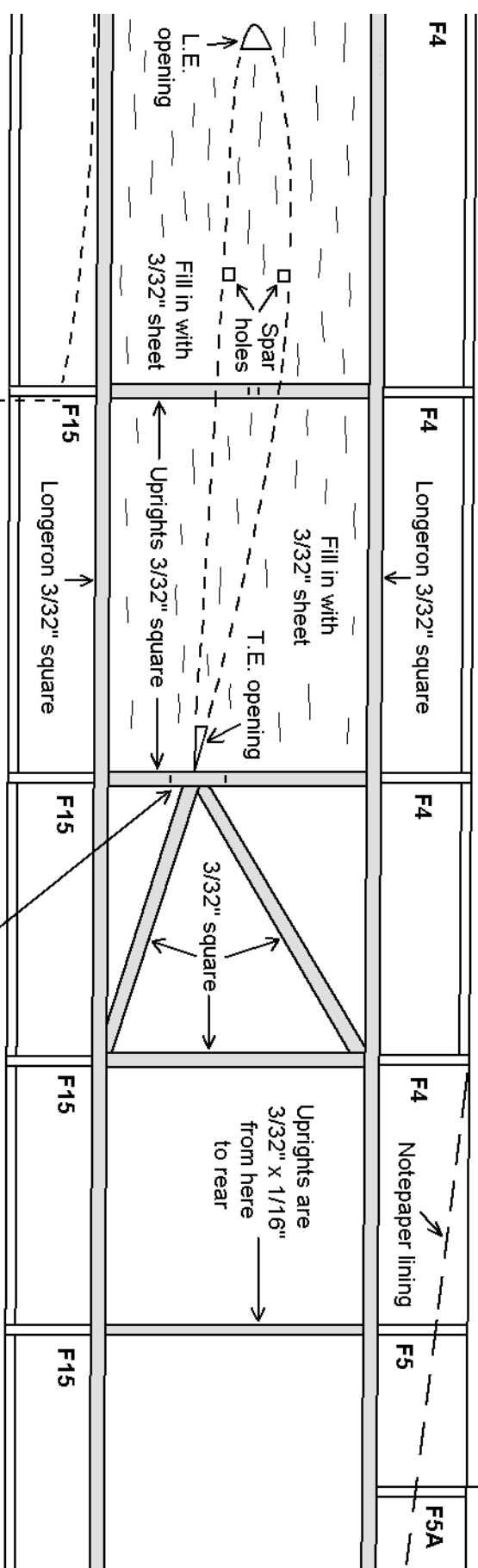
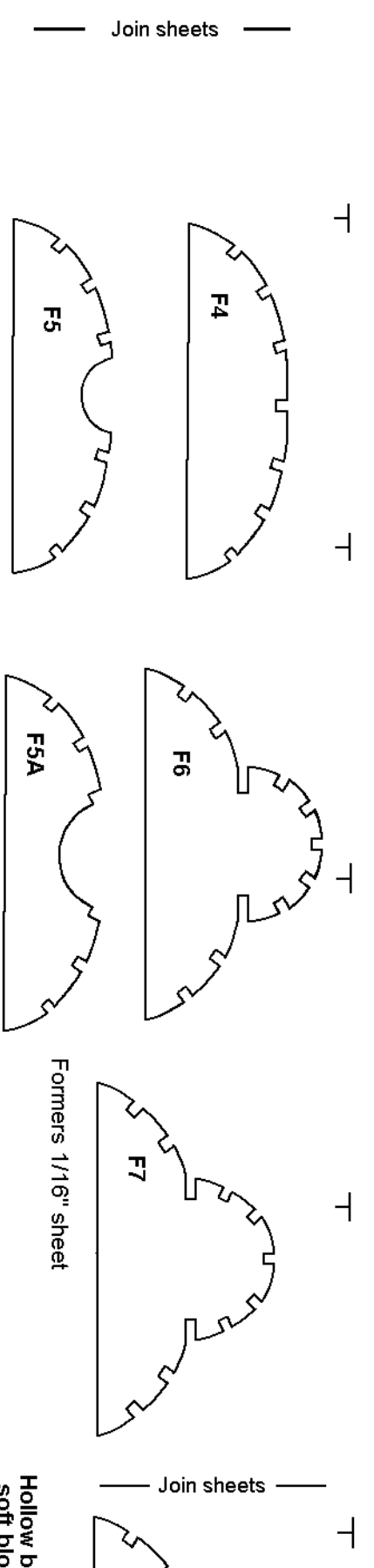
Formers 1/16" sheet



Add extra sheeking under canopy if desired

Join sheets





Join sheets

Hollow b. soft blo.

Formers 1/16" sheet

Join sheets

Uprights are 3/32" x 1/16" from here to rear

Uprights 3/32" square

Fill in with 3/32" sheet

Longeron 3/32" square

Uprights 3/32" square

Fill in with 3/32" sheet

Notepaper lining

Longeron 3/32" square

Uprights 3/32" square

Fill in with 3/32" sheet

Uprights 3/32" square

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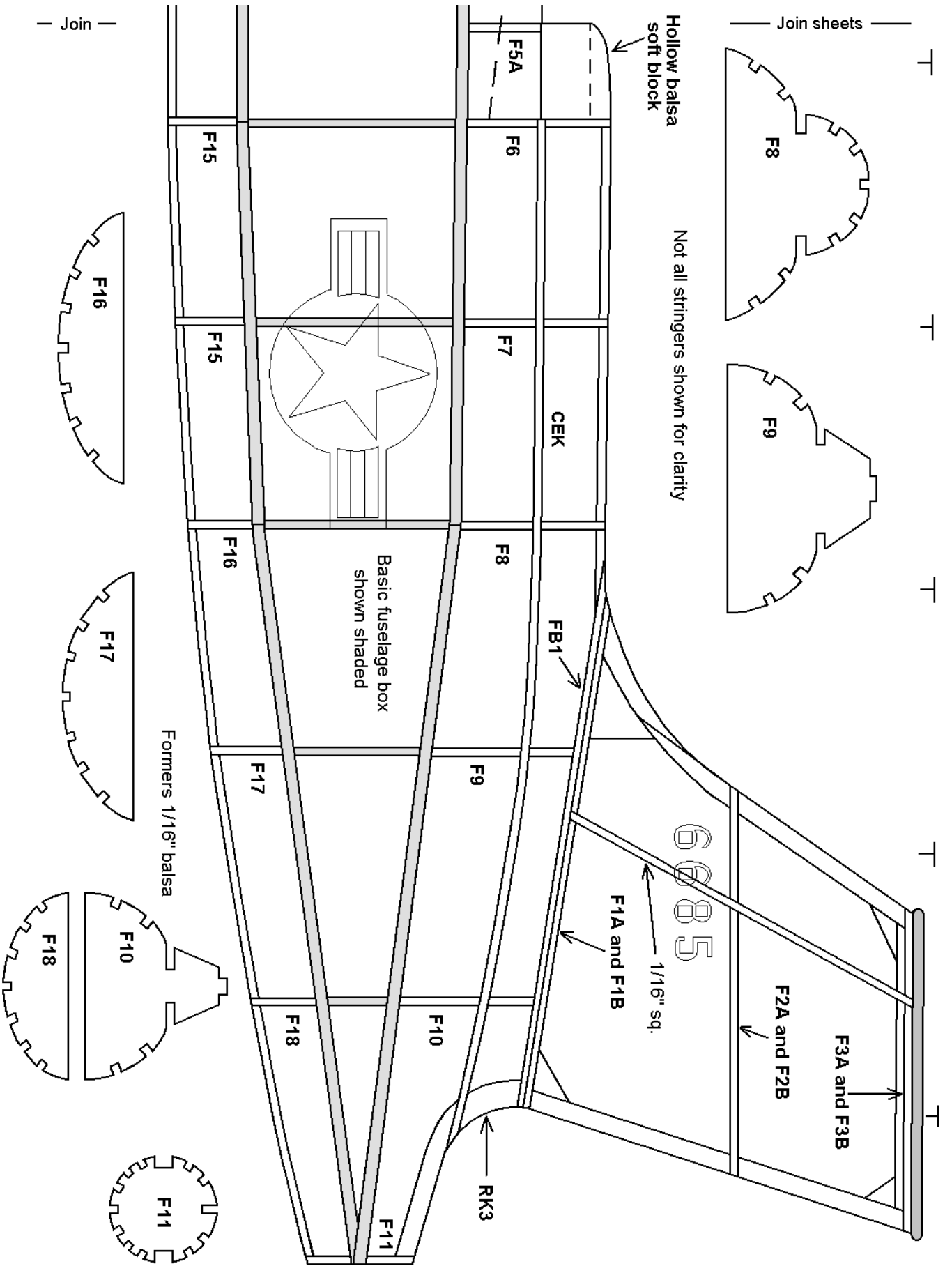
Join sheets

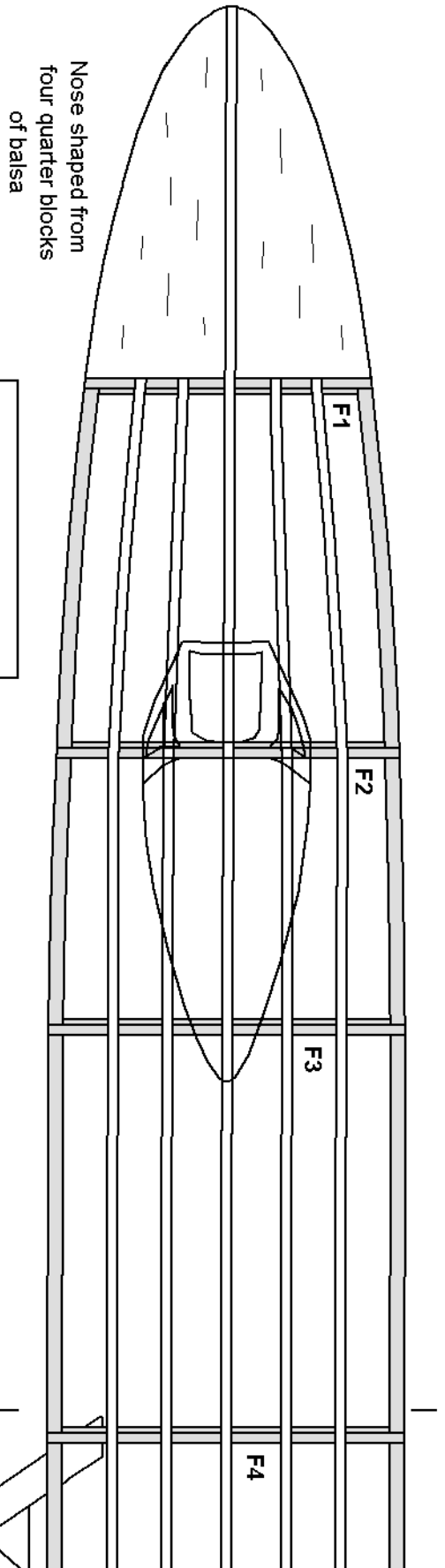
Uprights 3/32" square

Uprights 3/32" square

Uprights 3/32" square

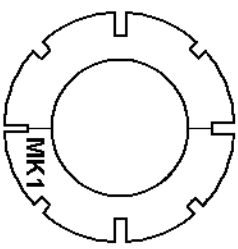
Uprights 3/32" square





Nose shaped from four quarter blocks of balsa

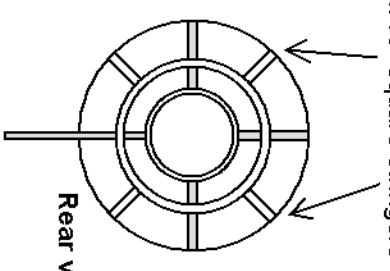
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Nacelle formers 1/16" balsa

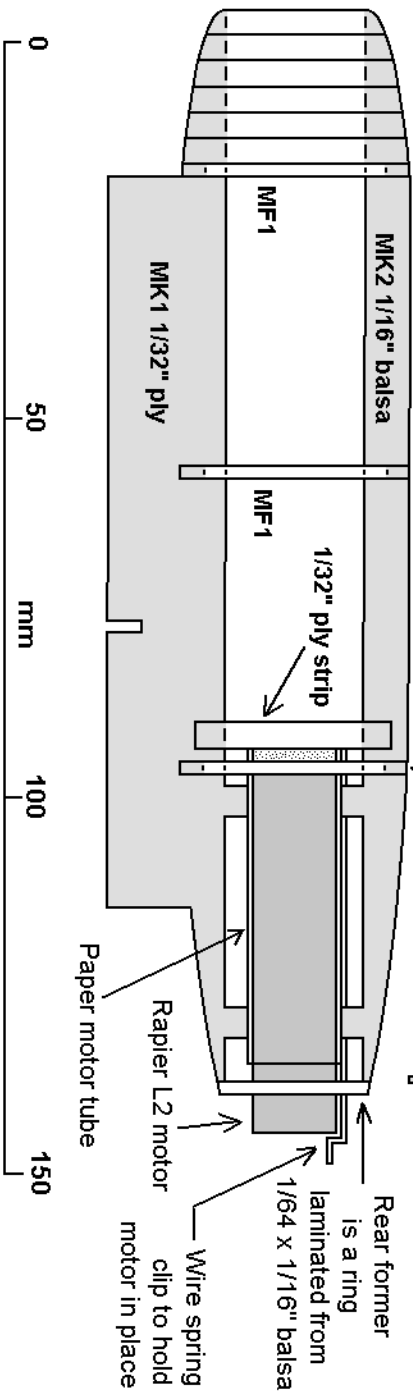
Each nacelle uses 3 keels MK2 and one keel MK1

Intake laminated from 6 disks of 1/8" soft balsa



Rear view

1/16" square stringers



Rear former is a ring laminated from 1/64 x 1/16" balsa

Wire spring clip to hold motor in place

Rapier L2 motor

Paper motor tube

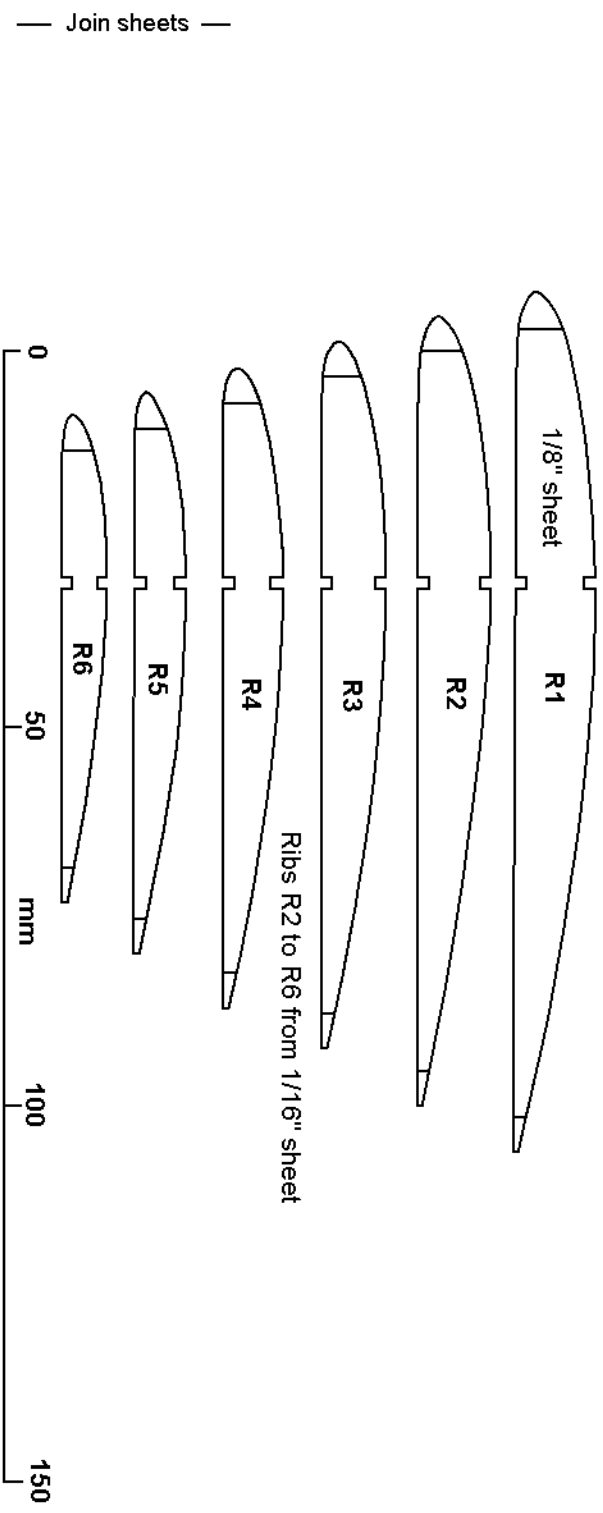
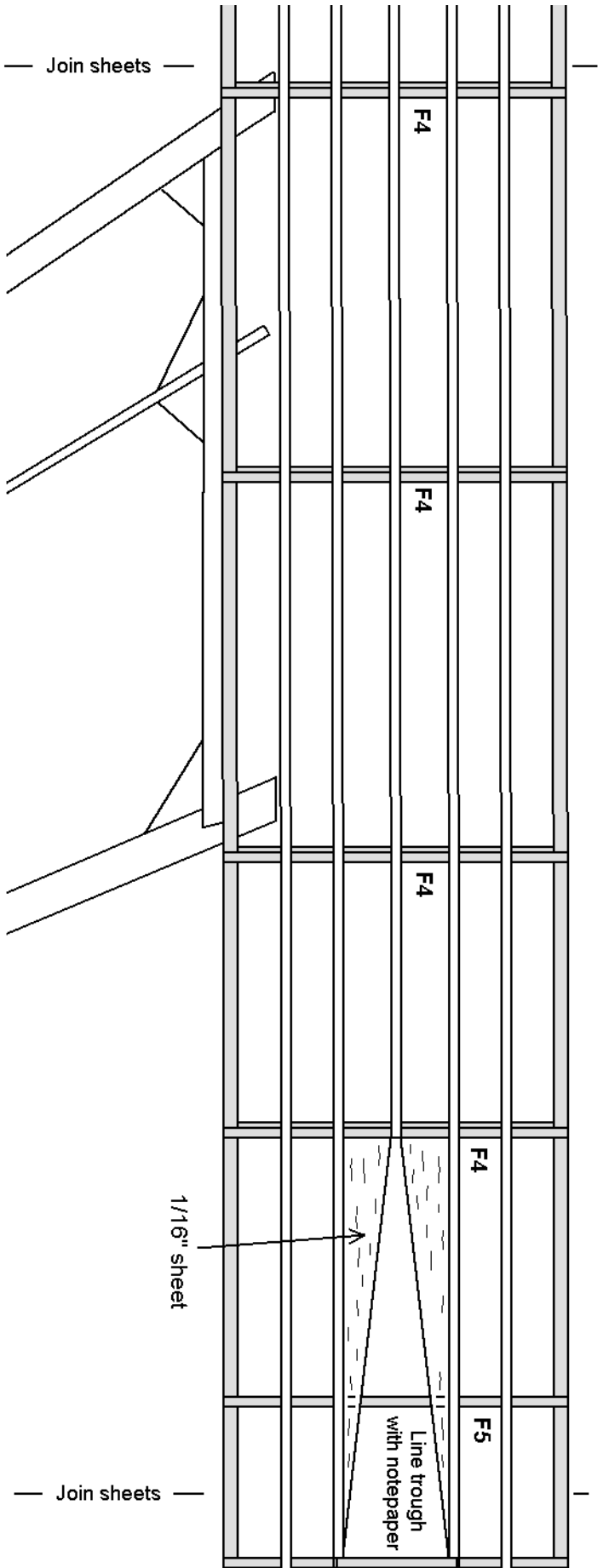
mm

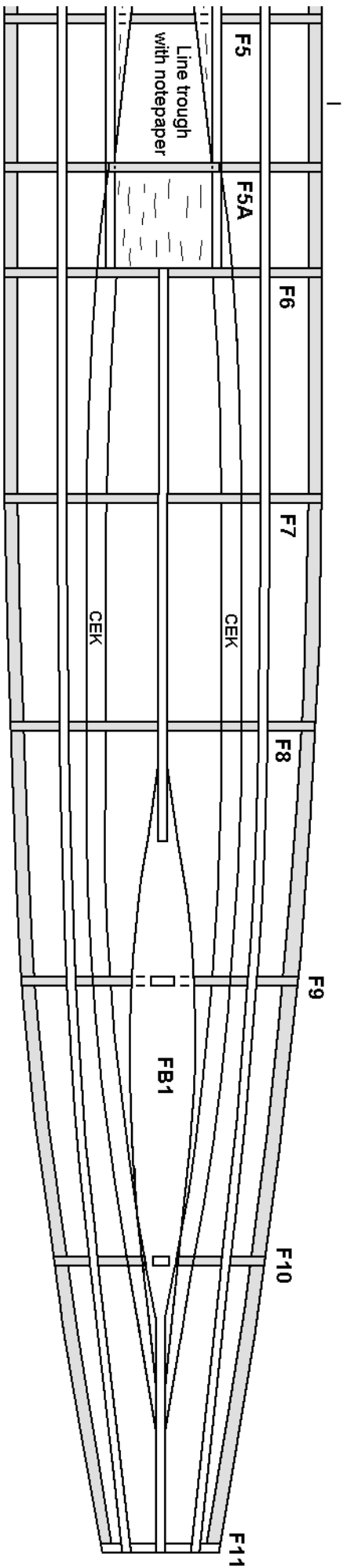
50

0

Join sheets

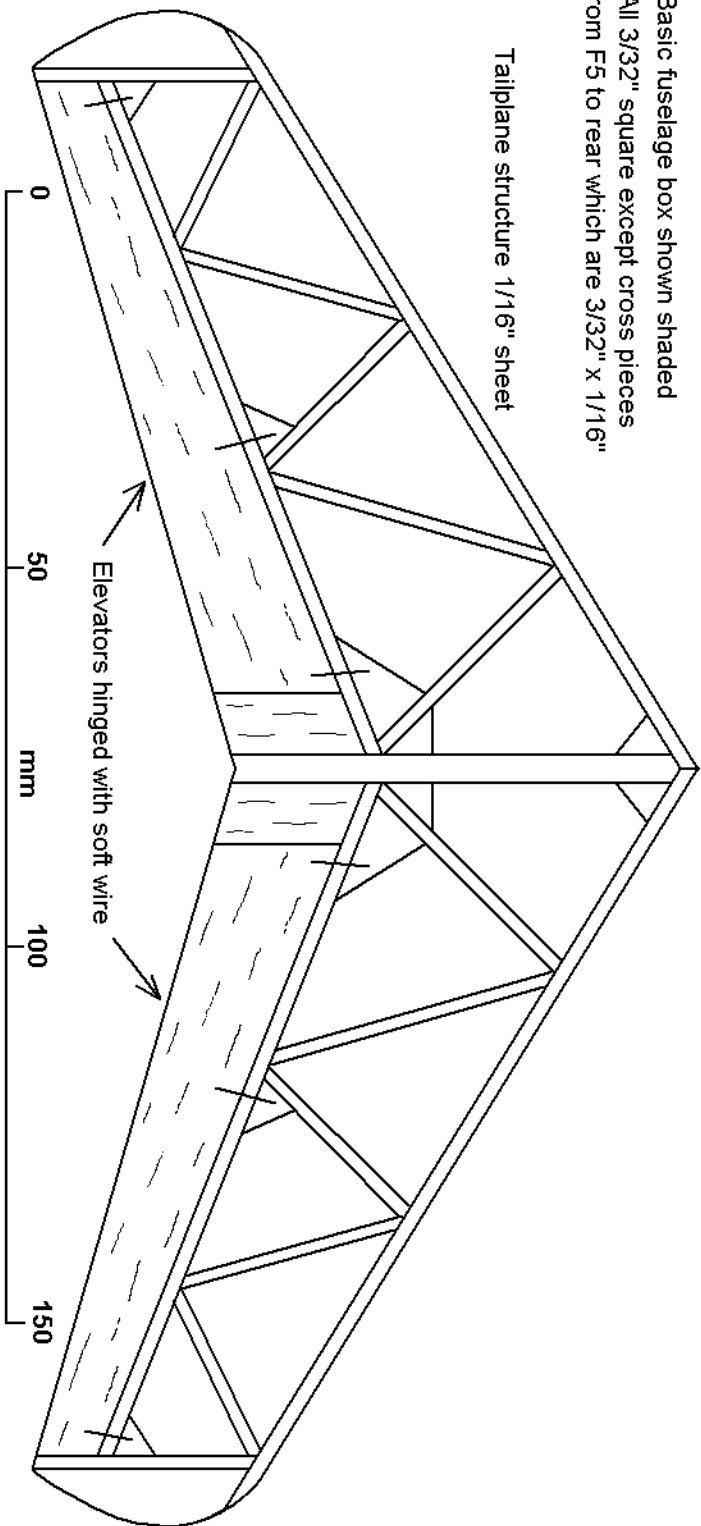
Join sheets





Basic fuselage box shown shaded
 All 3/32" square except cross pieces
 from F5 to rear which are 3/32" x 1/16"

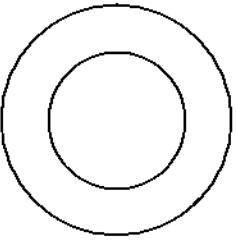
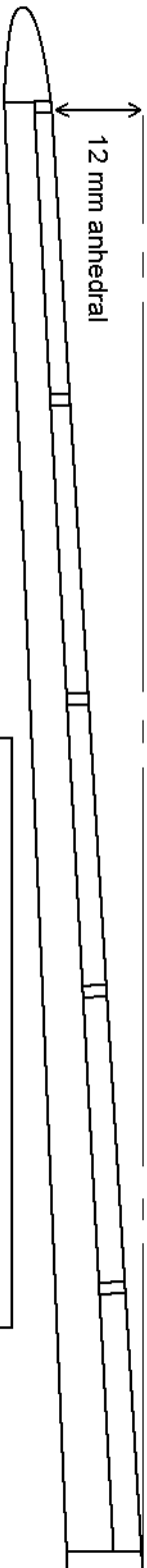
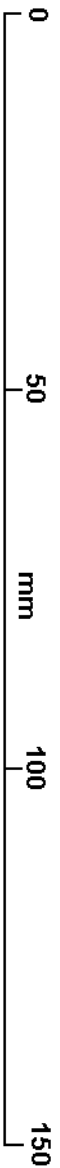
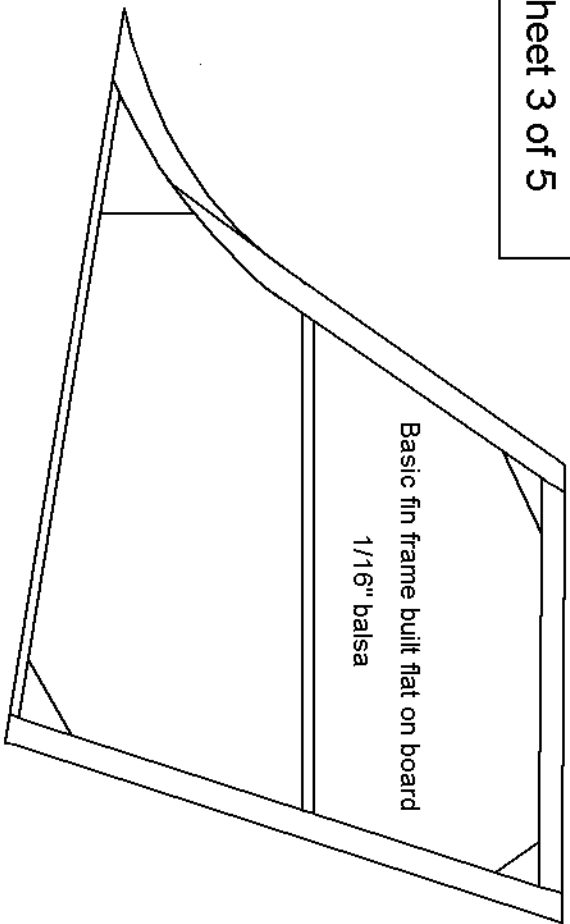
Tailplane structure 1/16" sheet



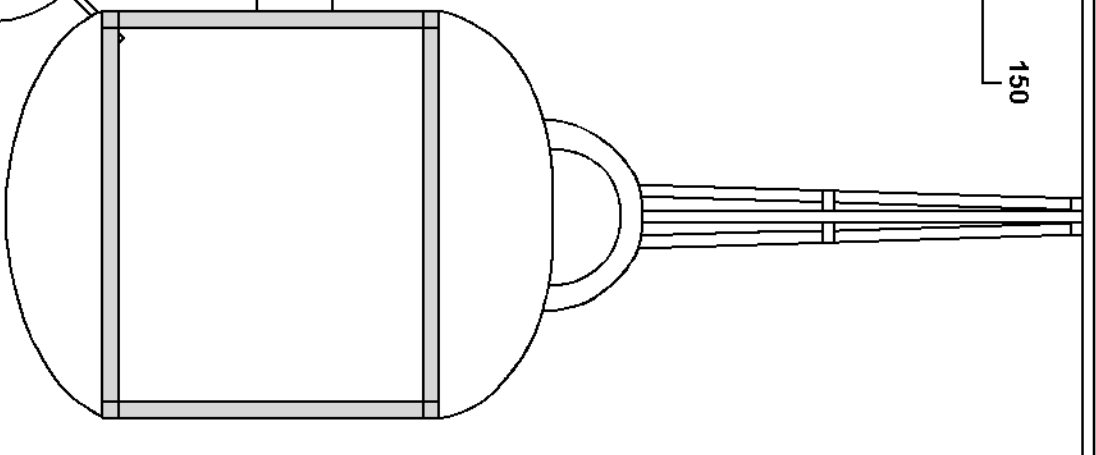
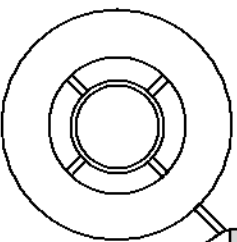
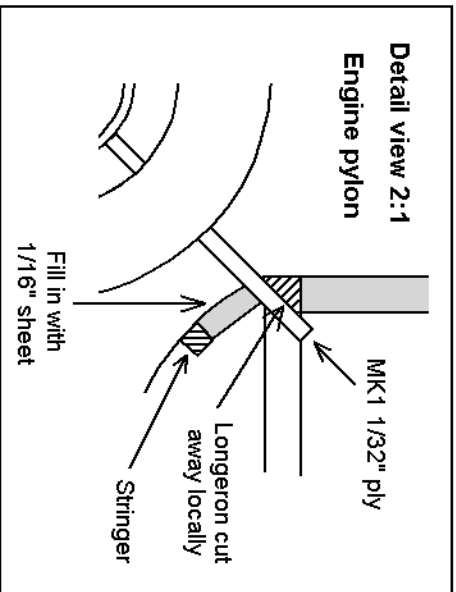
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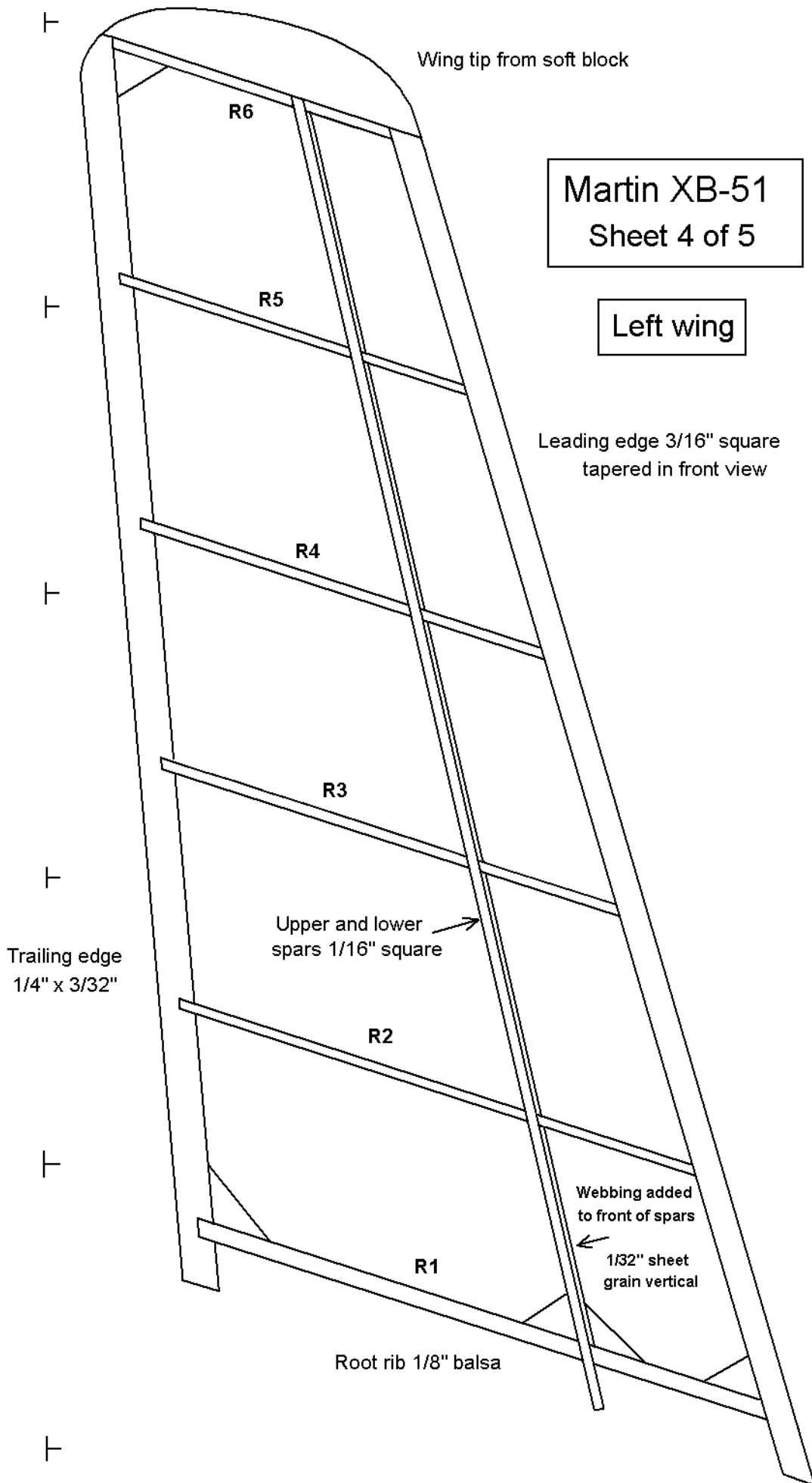
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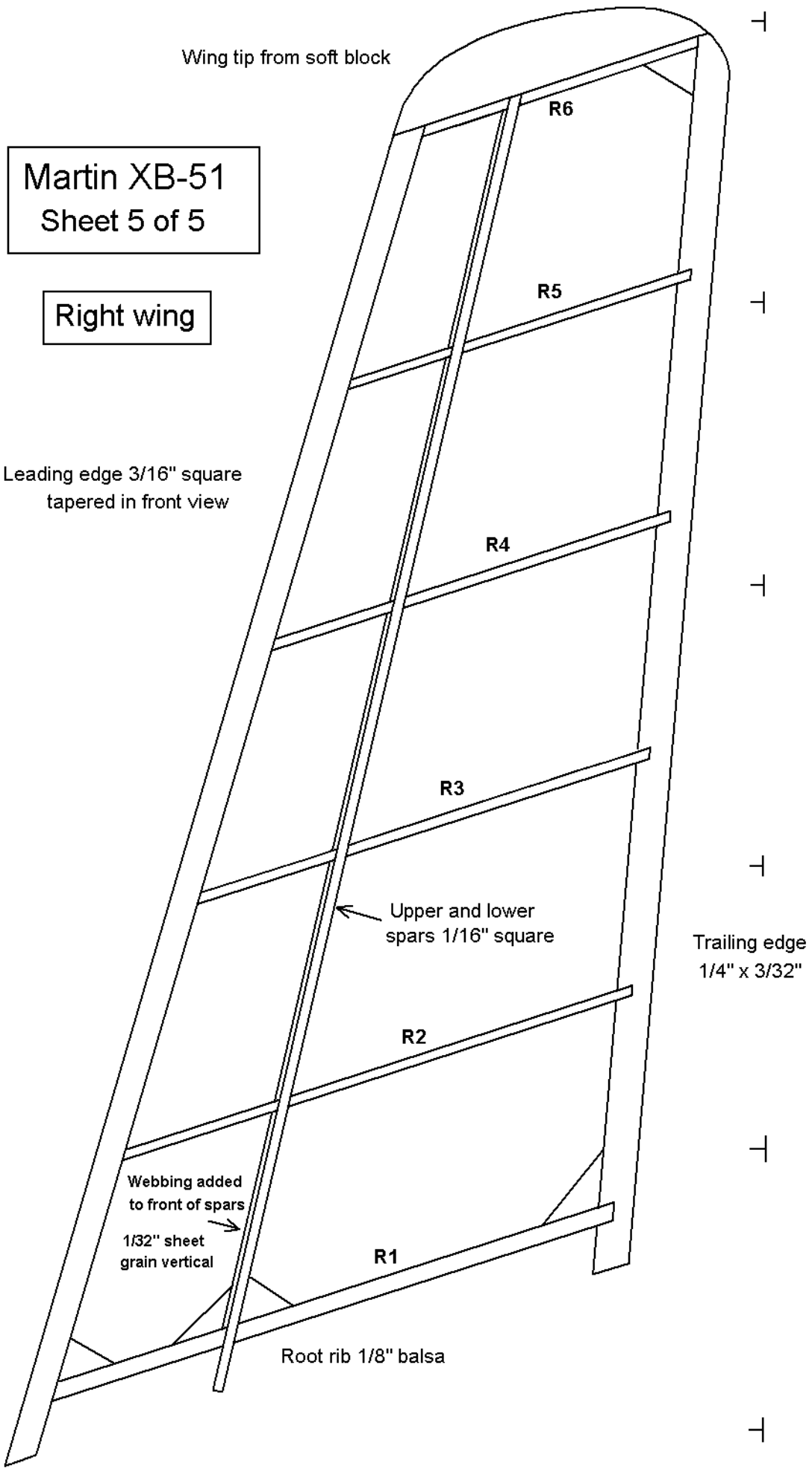
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Shape of laminated disks for nacelle intake
12 required, soft 1/8" balsa







Wing tip from soft block

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Right wing

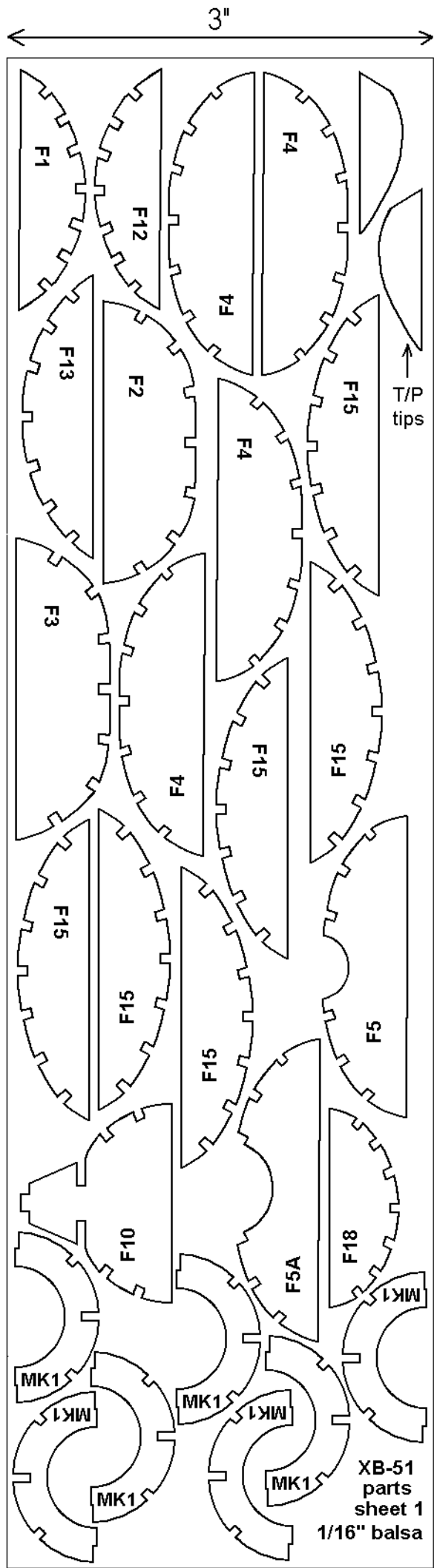
Leading edge 3/16" square
tapered in front view

Trailing edge
1/4" x 3/32"

Upper and lower
spars 1/16" square

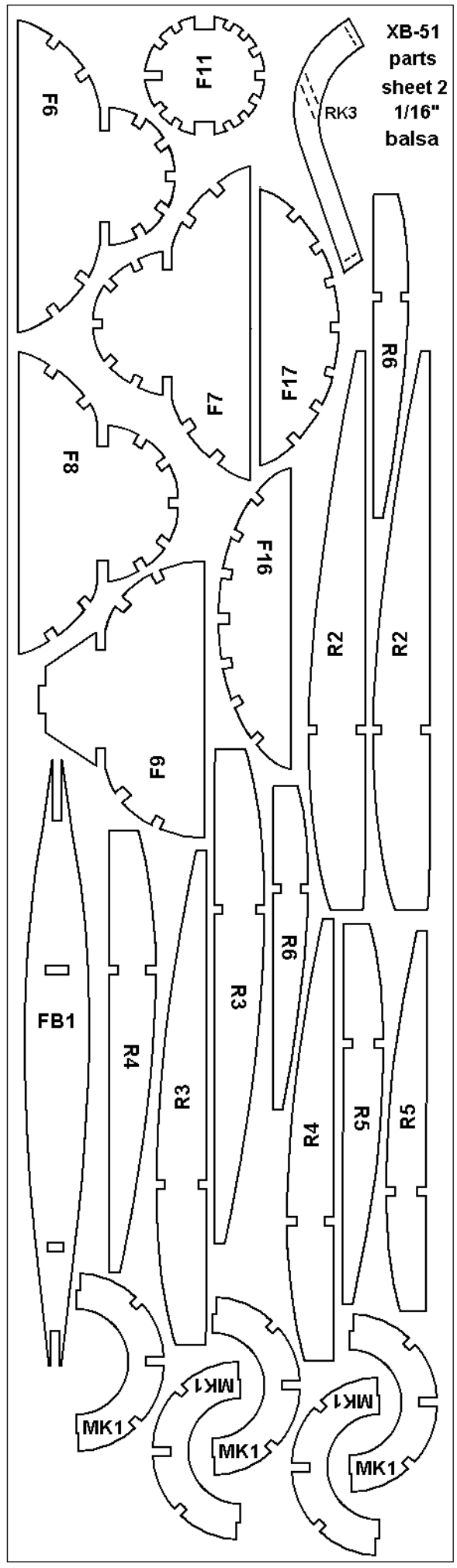
Webbing added
to front of spars
1/32" sheet
grain vertical

Root rib 1/8" balsa



3"

T T T T T T T T



**XB-51
parts
sheet 2
1/16"
balsa**

