

"Accuracy Measure" (line should be +/- 200 mm)

bending.

1' down
thrust

2" spinner

F1

F6

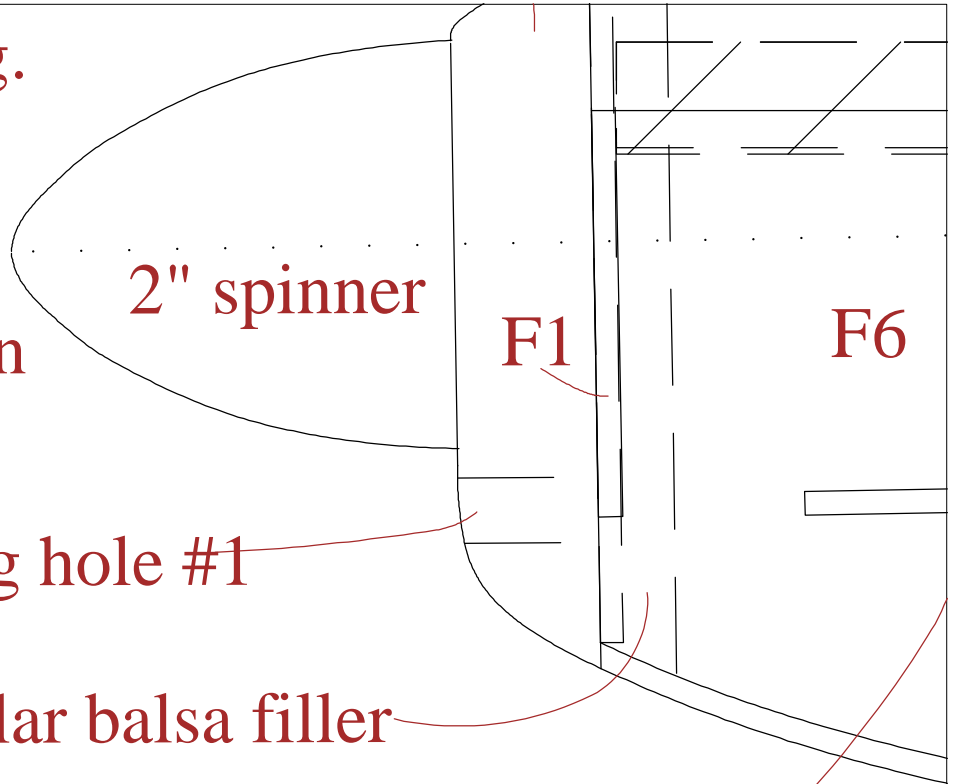
Cooling hole #1

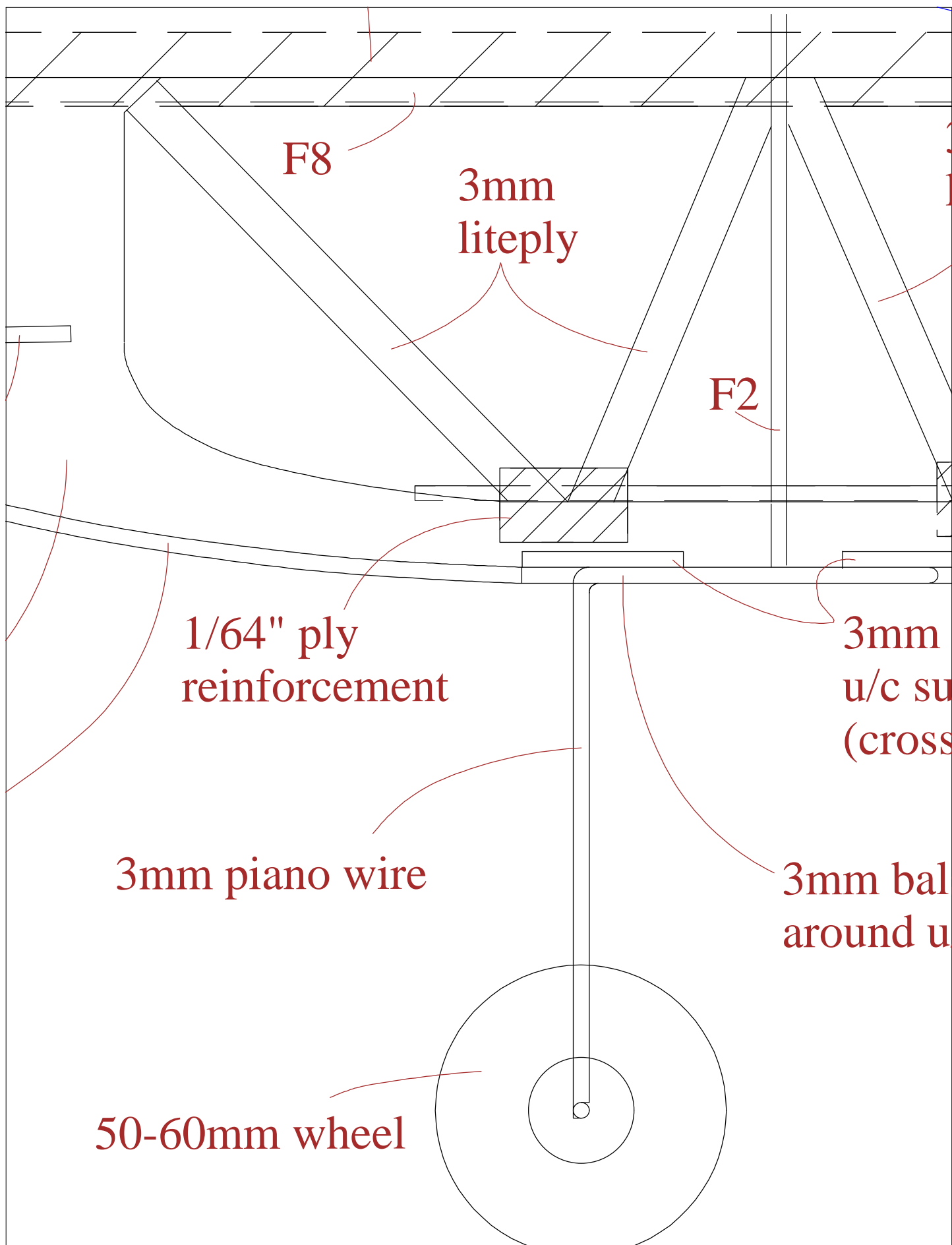
Triangular balsa filler

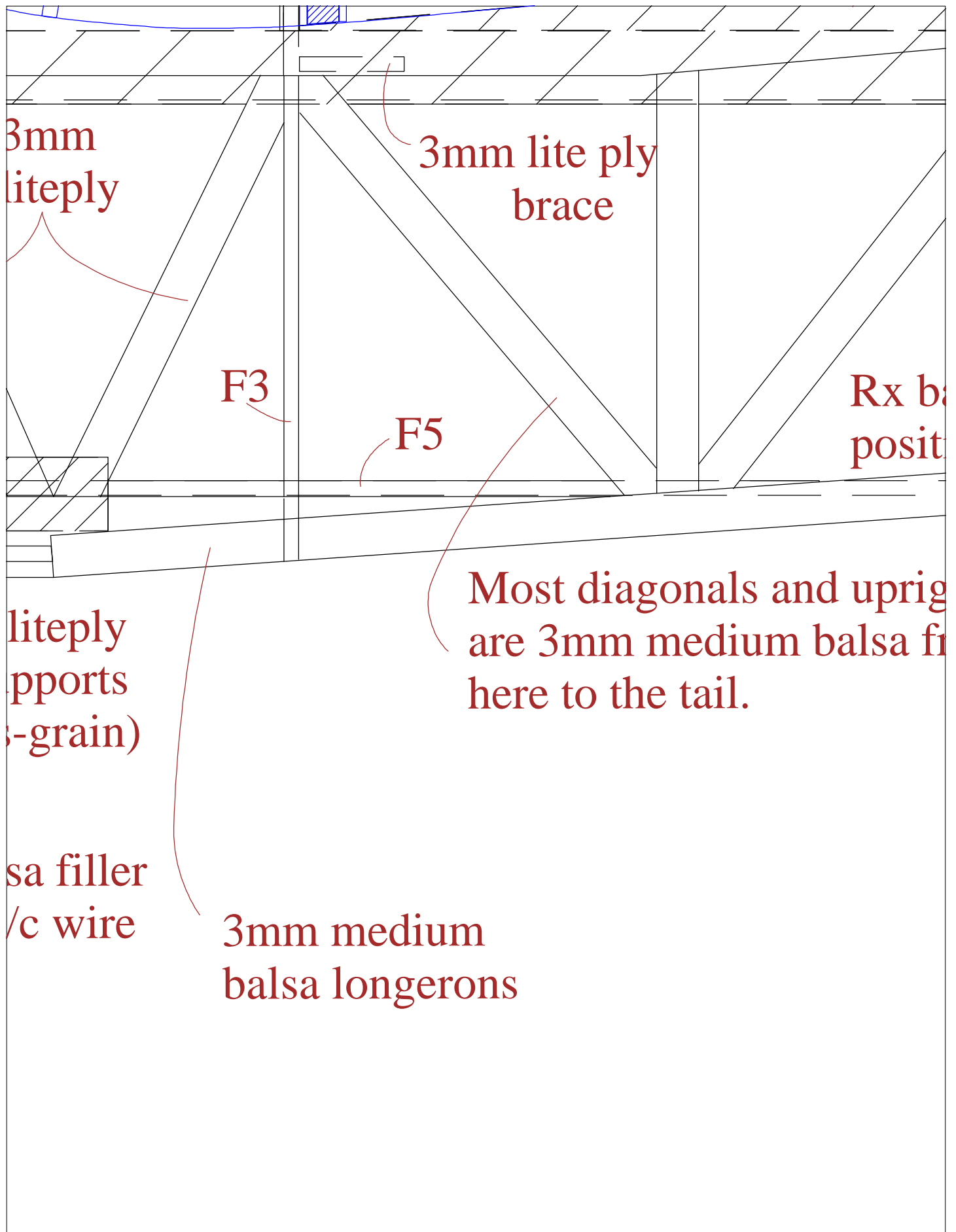
Support plate for Astro 15G motor
(cross-grain 3mm liteply through sides)

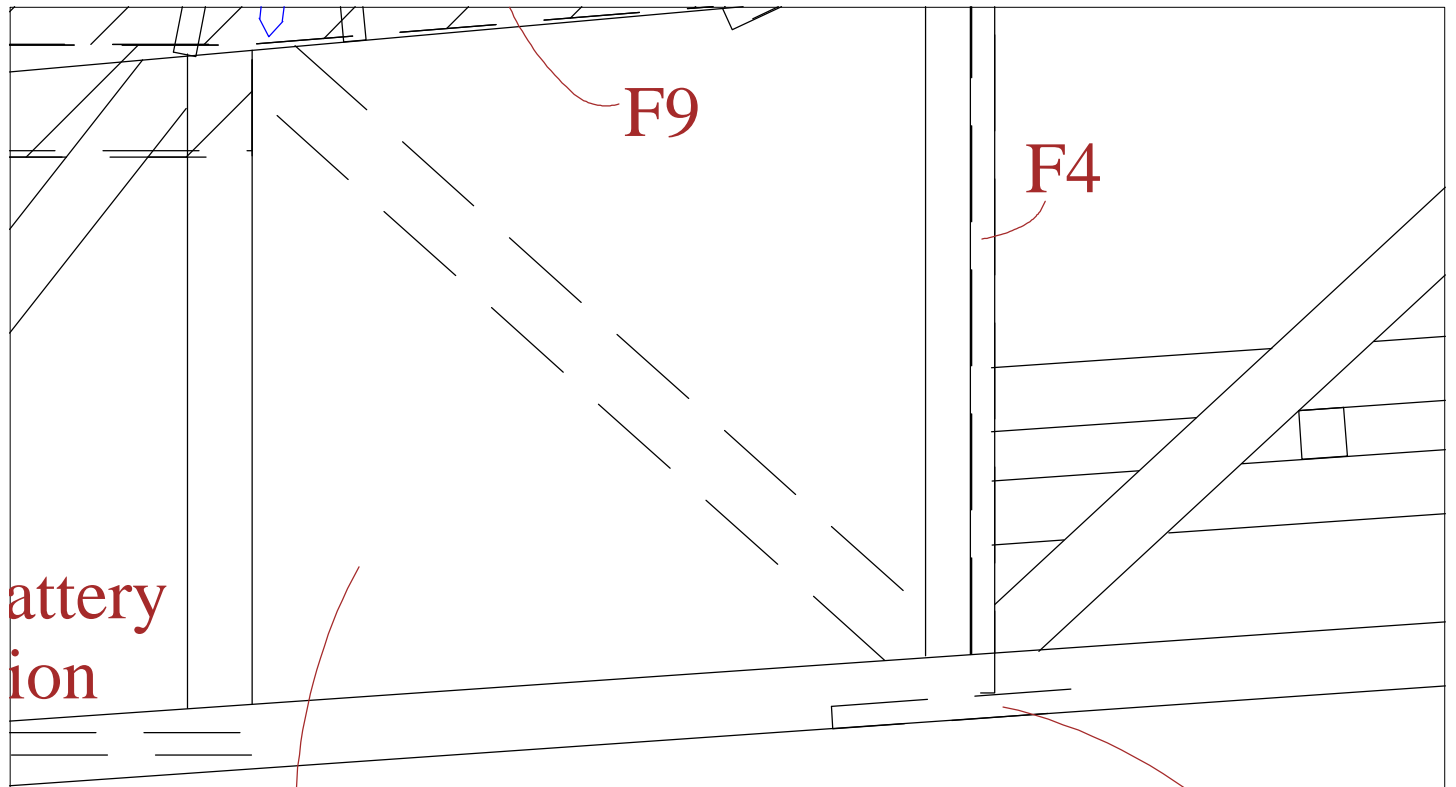
Fuz sides 3mm liteply
(2mm per prototype is also OK)

3mm soft balsa cross-grain

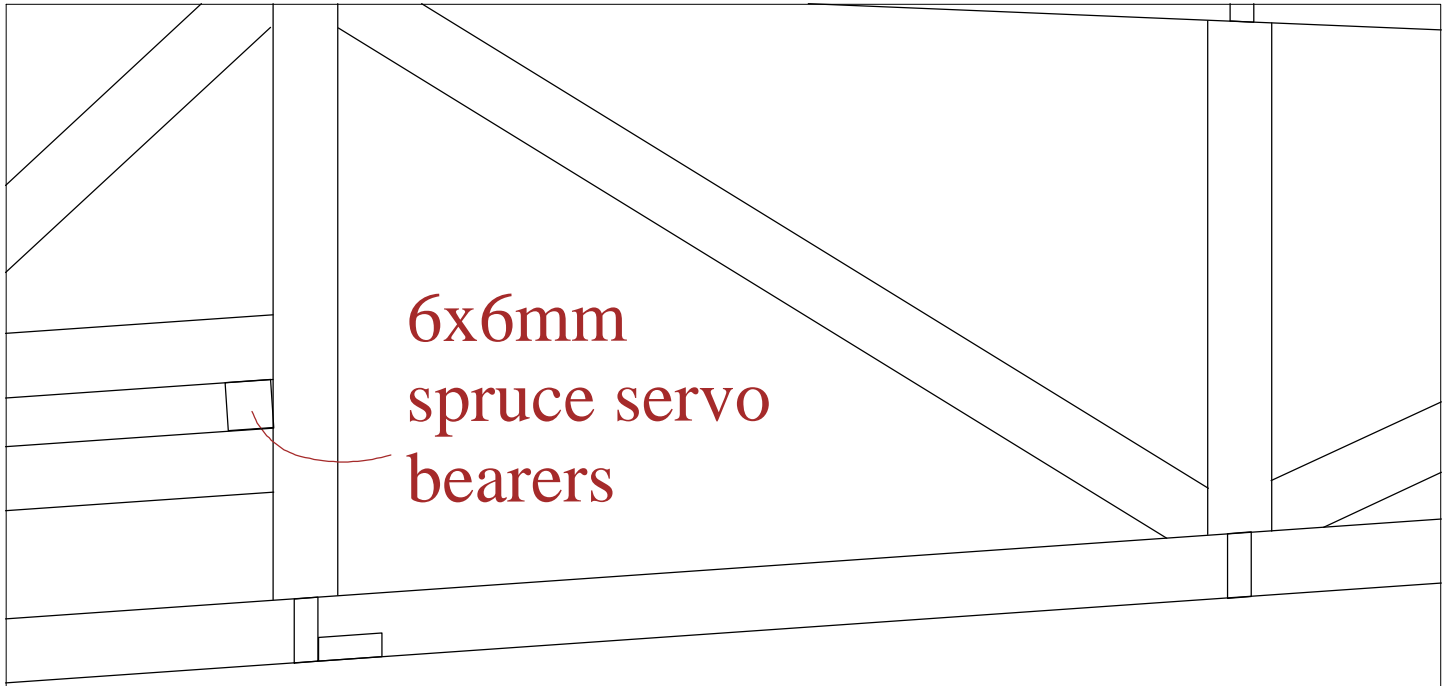








Camera (inside fuz):
In theory this can be
made to point left, right
or down, but in practice
one direction is adequate.
Omit one side diagonal
and construct simple
hatch for when camera
is not installed.

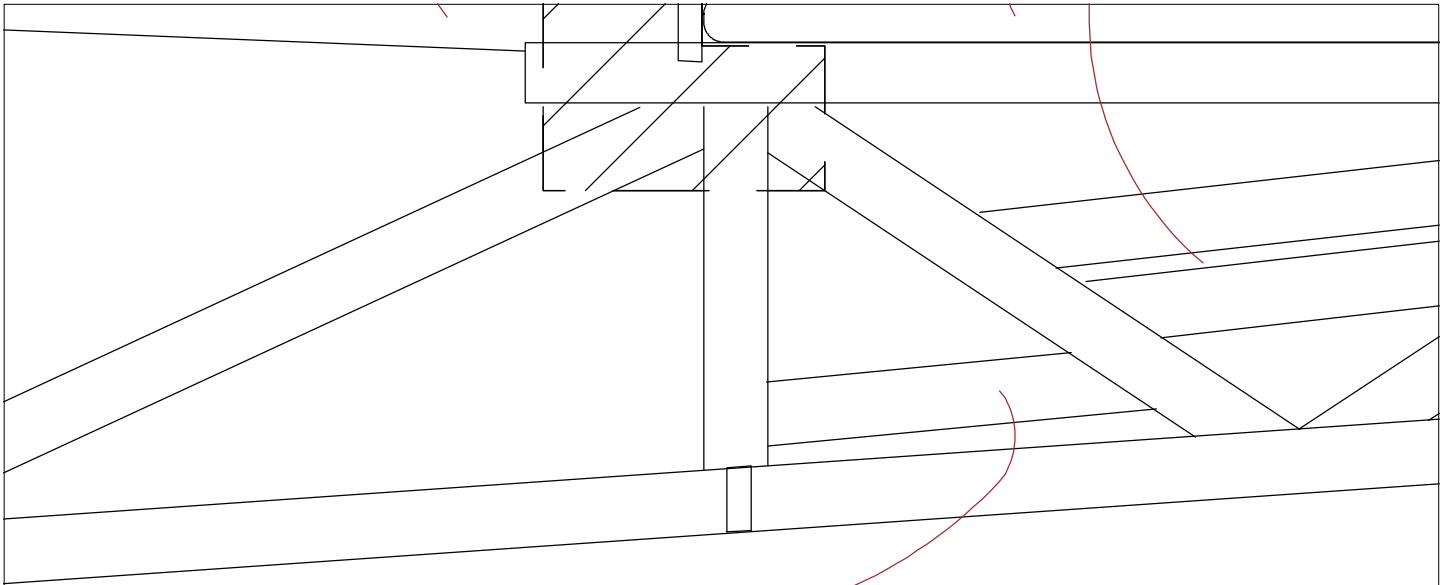


6x6mm
spruce servo
bearers

Install servos before covering.
Cut through bottom covering later if
access is required. Alternatively
build a simple hatch (extra weight!).

near float mounting point if
required (3mm cross-grain liteply)



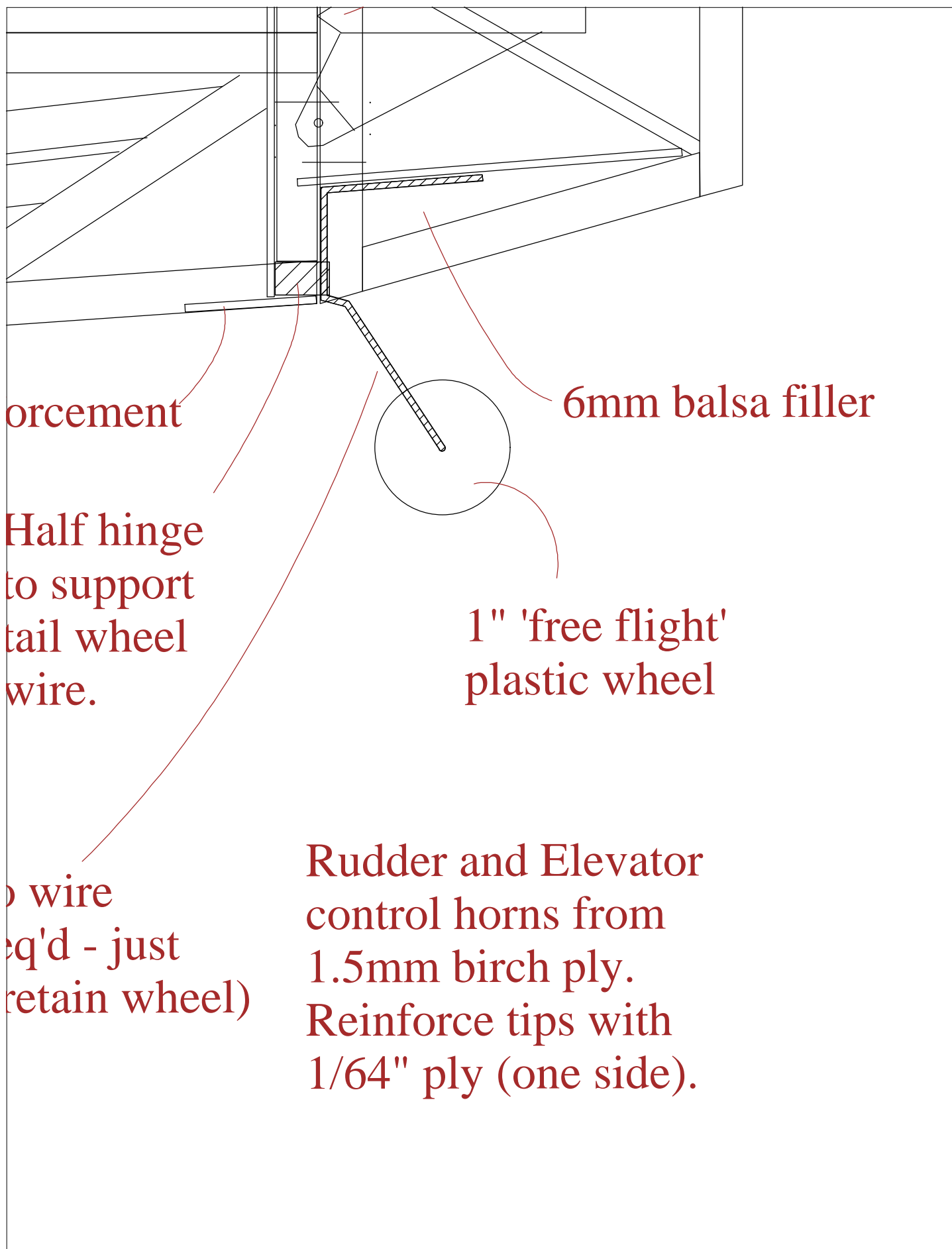


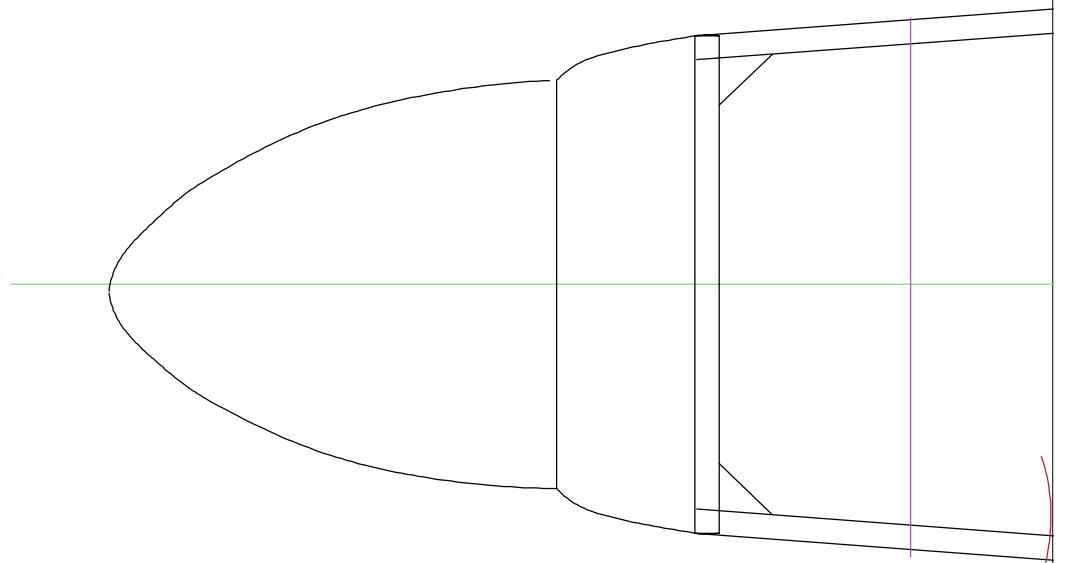
Drill small hole on each side for rudder wires 1.5mm ply reinforcement

Use closed loop control mechanism for rudder and the same for elevator. Or laminate elevator pushrod from three 3x6mm firm balsa lengths (or a single hardwood dowel would be easier) with threaded metal ends.

Control Movements:
Elevator - 20mm each way
Rudder - 45mm each way

1.2mm piano wire
(no collets required)
bend end to fit





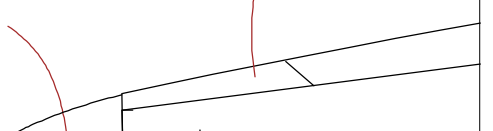
Support plate for Astro 15G motor
(cross-grain 3mm liteply through sides)

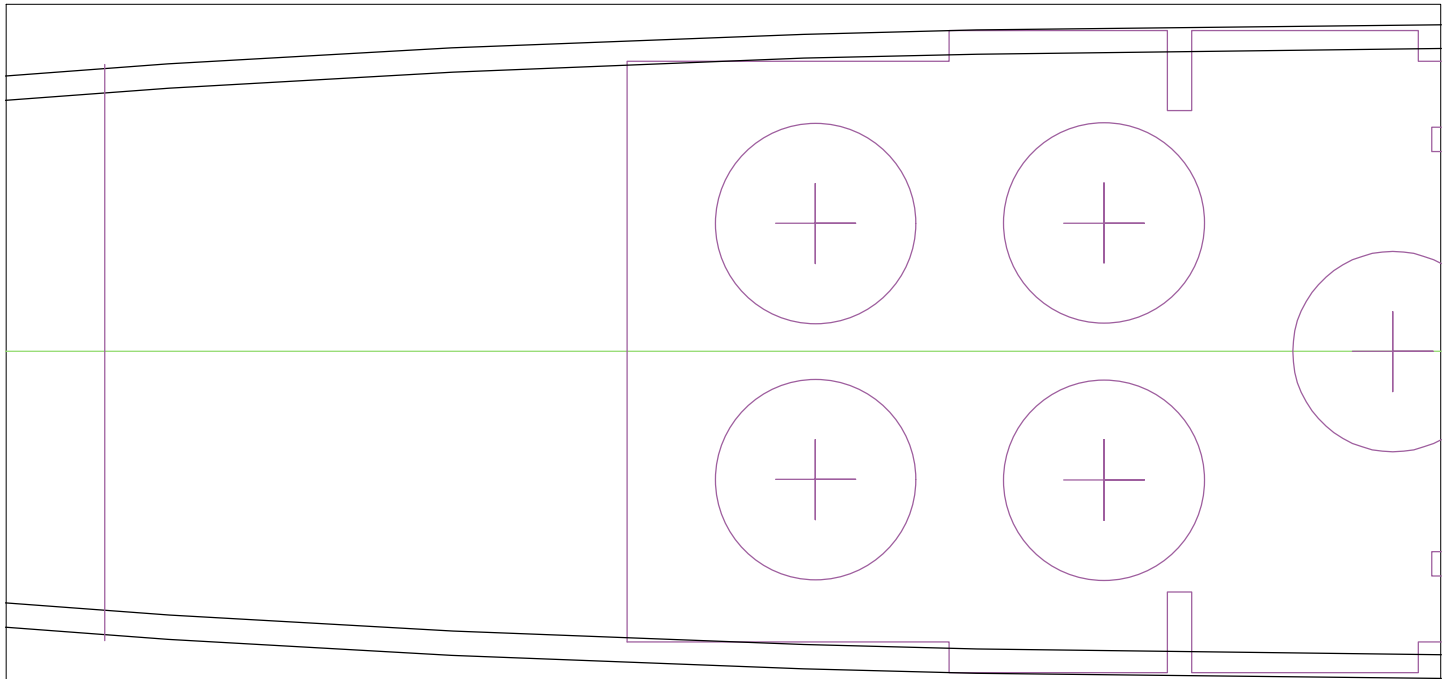
Soft balsa nose section.

Note: if direction of grain is
horizontal from F1 to spinner
(instead of vertically)

and the gap to the spinner
is kept as small as possible,
this nose section can support
the spinner in the event of a
crash and possibly help
prevent motor shaft

Cooling
(triangul
in hatch)





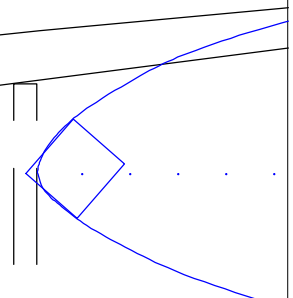
Formers F2, F3, F8 and F9 omitted

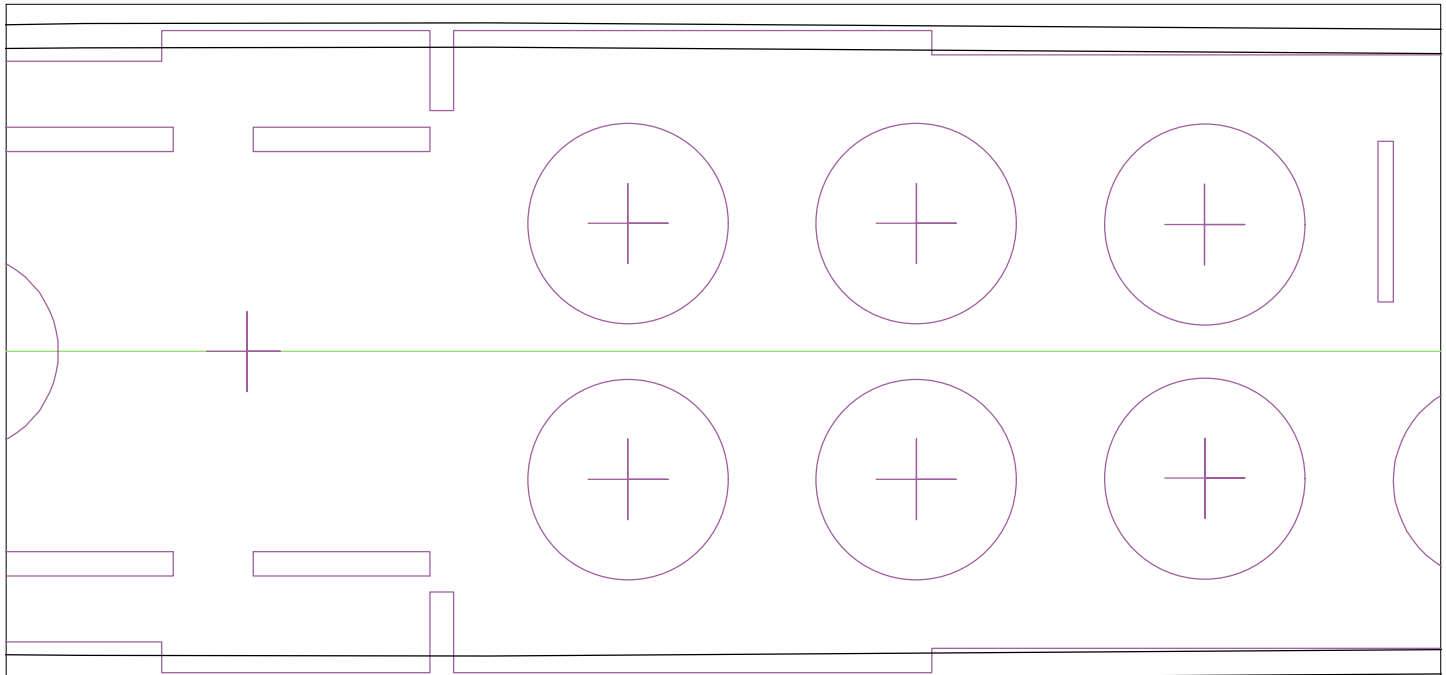
F8 & F9:
1/32" (0.8mm)
ply doubler

hole #2
air opening

Hatch: 6mm Depro
blue foam or soft b
Support foam with
balsa around circun
on inside (not show
front locating pins
sliding catch to hol

F7





d for clarity

This diagonal bottom or
(wing position on top)

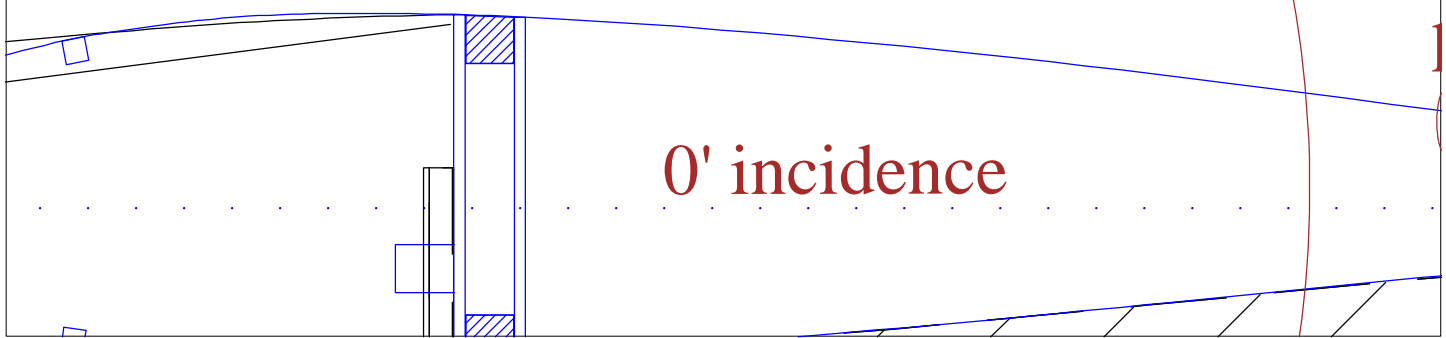
on although
also is OK.

6x6mm
ference
(n). Add 2
and rear
d to wing.

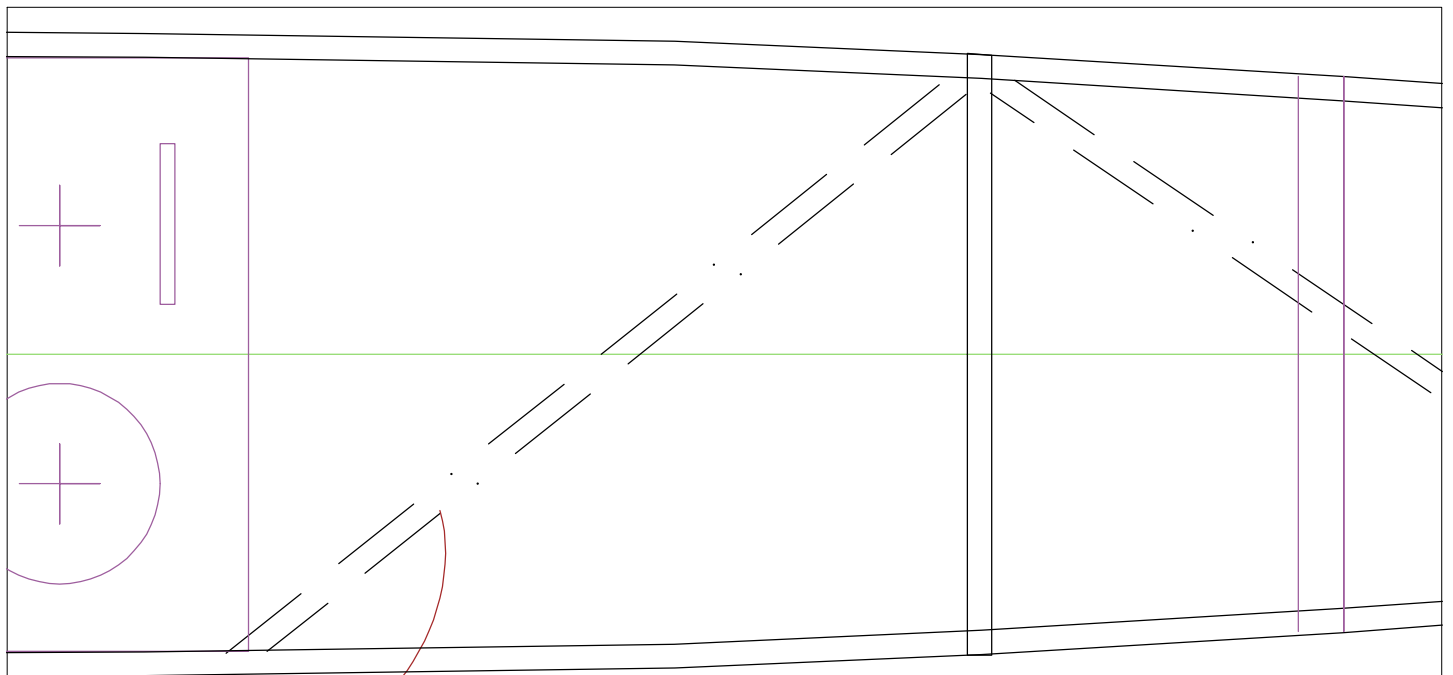
CG is on spar although
can be varied safely.



1/32" (0.8mm)
ply doubler



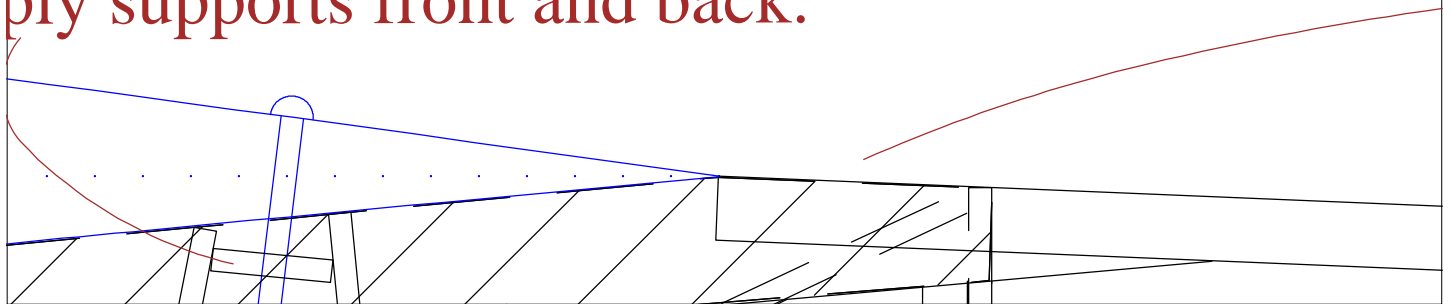
0' incidence

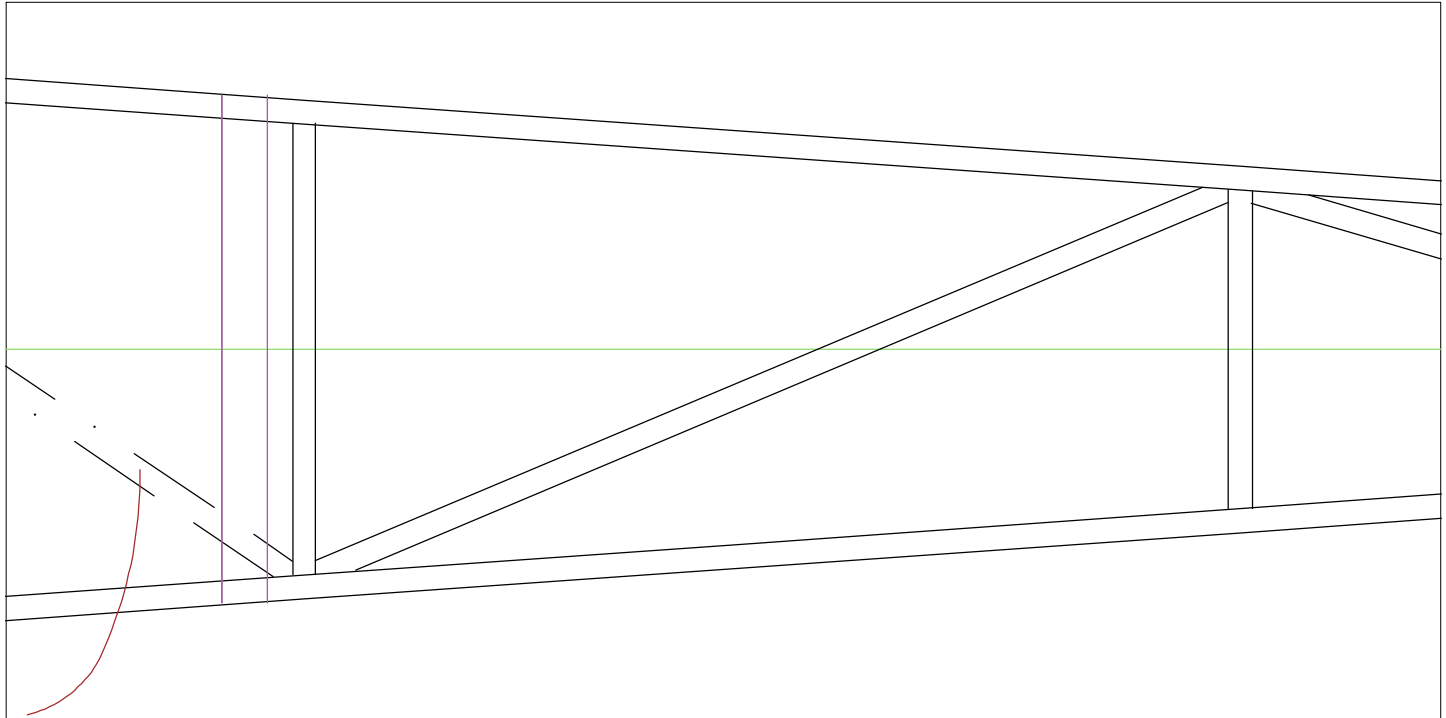


ply

This diagonal top only (hatch
in bottom to access servos)

3mm lite ply through fuz sides for
wing mounting screw. Add 1/32"
hard ply at hole position. 3mm lite
ply supports front and back.



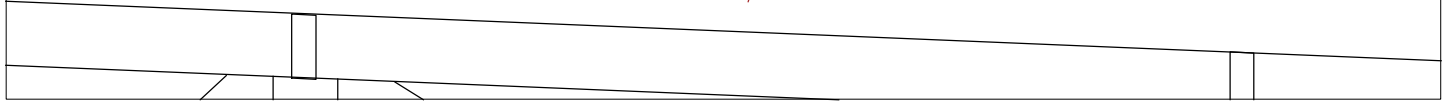


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Bubbles
Copyright: David Theunissen
January 2001
(Version: h)

Cooling exit hole with
balsa plate beneath
to make hole look
more attractive.

3mm balsa cross-
pieces and diagon
top and bottom
(similar to sides)





3x8mm balsa cross-
pieces and diagonals
top and bottom

Rudder

Fin and Rudder:
Mostly 3mm soft balsa laminated
to make 6mm. Overlap joints
where possible (corners).

2.5mm bamboo skewer
through to bottom of
fuz. Fin post can
end at stabiliser.

3x6mm

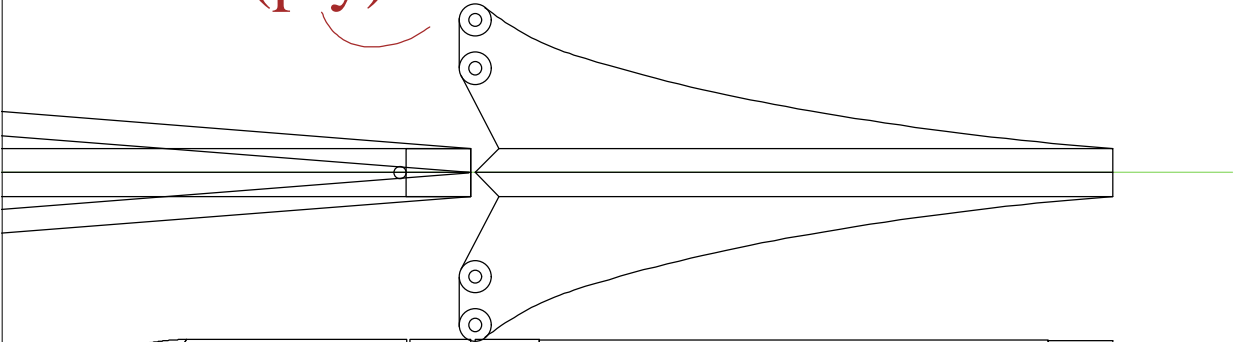
3mm medium
balsa longerons

Stabiliser (0')

Elevator post

als

der horn (ply)



Mylar
hinges

mm soft balsa

Hole for
Elevator
wire

ushrod slot

