CF Rod cutout slot

Hand-launch Grip Cut (3) and laminate
Attach to centerline center on CG point

Exhaust Duct side piece
Cut (2)

Cut notch near end to pass servo connector thru

R
Cu

Rear Wing/ Base (Cut 1)

ed lines indicate elevon cut lines

t elevons and bevel to 45 deg. angle

CF Rod Rear crossbrace

CG


Blue li
Mount strips as follows: un
CF Rod Cutout
Use .210 CF for
Forward Wing/B
Cut (1) Attach
Wing/ Base
CF Rod Cutout Slot

Slot

all

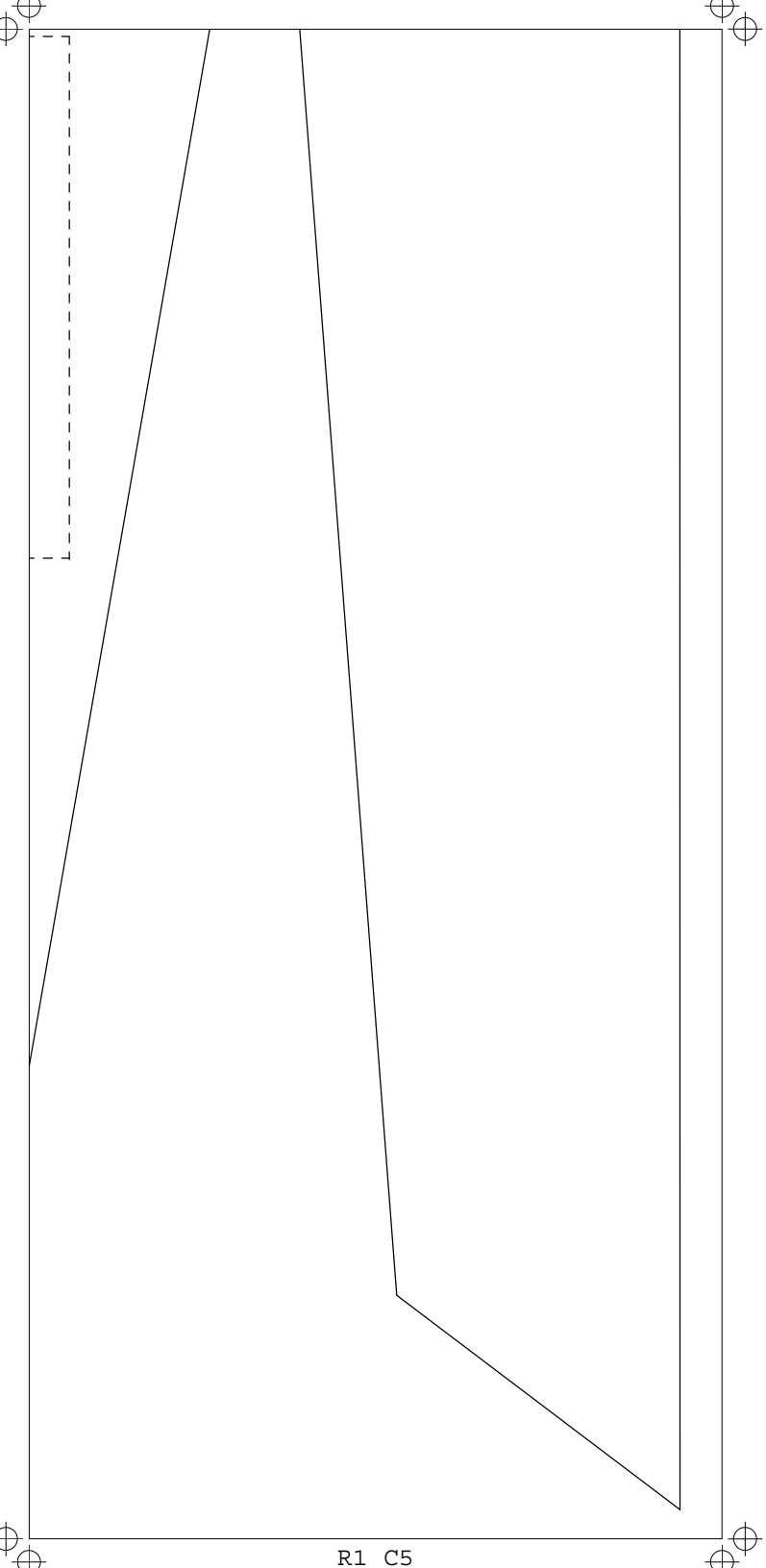
ase Piece
to Rear
Piece

ockpit front Cut (1)

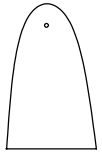
Cut at approx. 60 deg. for tails (no need to be exa

st center keystone cut (1)

Vertical Tail Template
Place between tails
until glue dries


R1 C5

Control Horns



Cut (2) from 1/32 ply or polycarbon plastic

top

Intake bottom piece Cut (2)

bottom

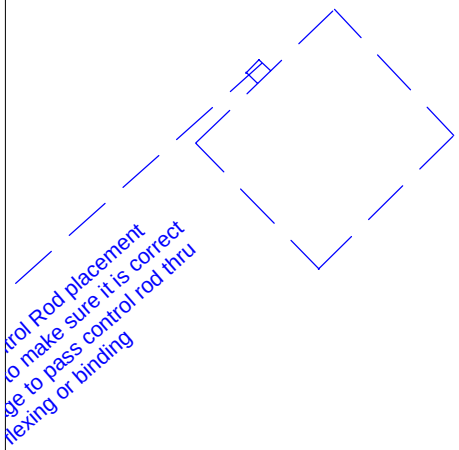
inside edge

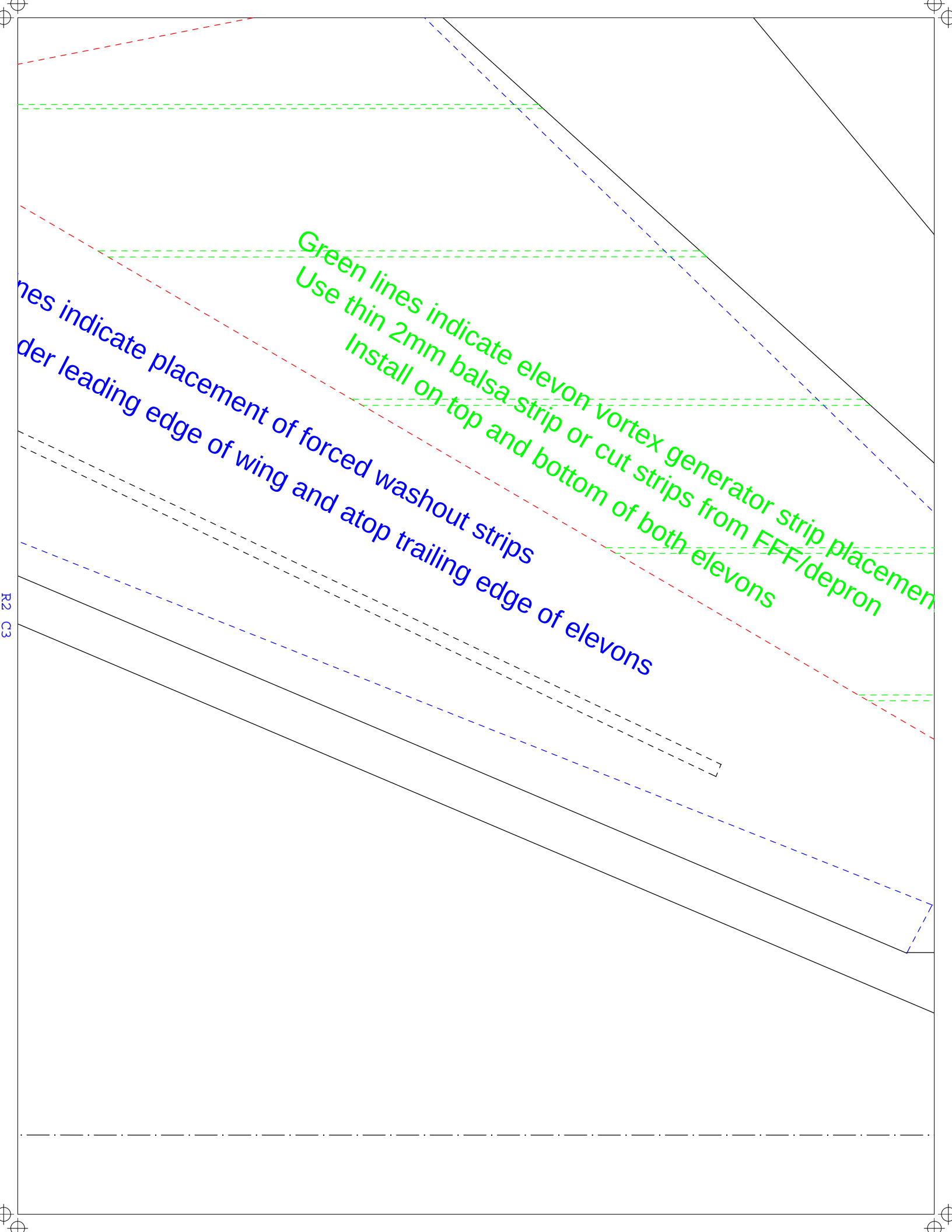
Lower cockpit side piece
Cut (2)

Bottom side

Approximate Servo/Con
Double check angles
Cut notch in Fusela
Double check no

R2 C1


trol Rod placement
to make sure it is correct
ge to pass control rod thru
flexing or binding


Green lines indicate elevon vortex generator strip placemen
Use thin 2mm balsa strip or cut strips from FFF/depron
Install on top and bottom of both elevons
nes indicate placement of forced washout strips
der leading edge of wing and atop trailing edge of elevons

R2 C3

bottom edge

ce Cut (2)

Rear

Cockpit side piece Cut (2)

bottom edge

Exhaust panel Cut (2)

Rear Edge

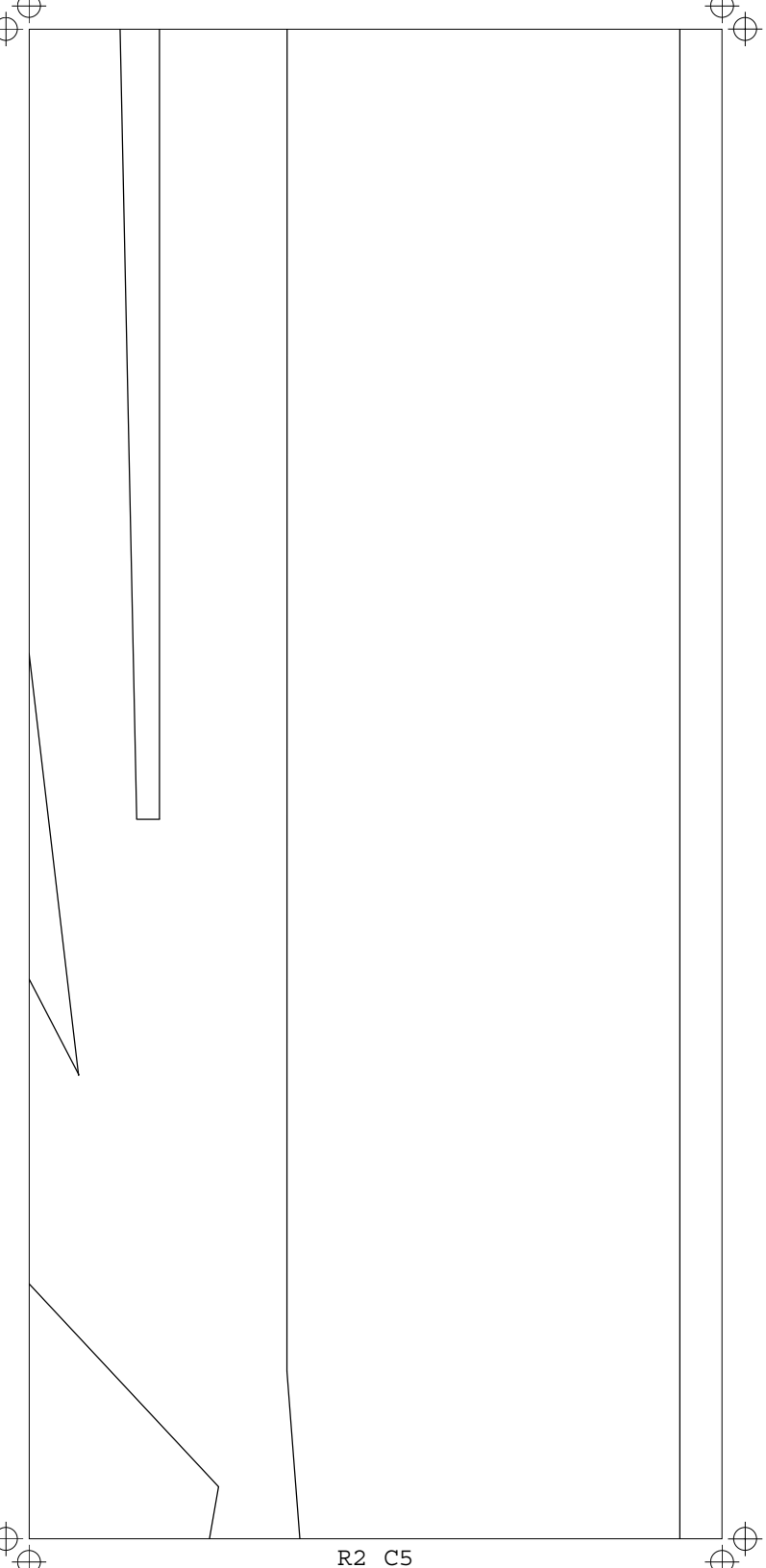
Front Edge

Top Cockpit Piece

Cut (1)
Trim to shape

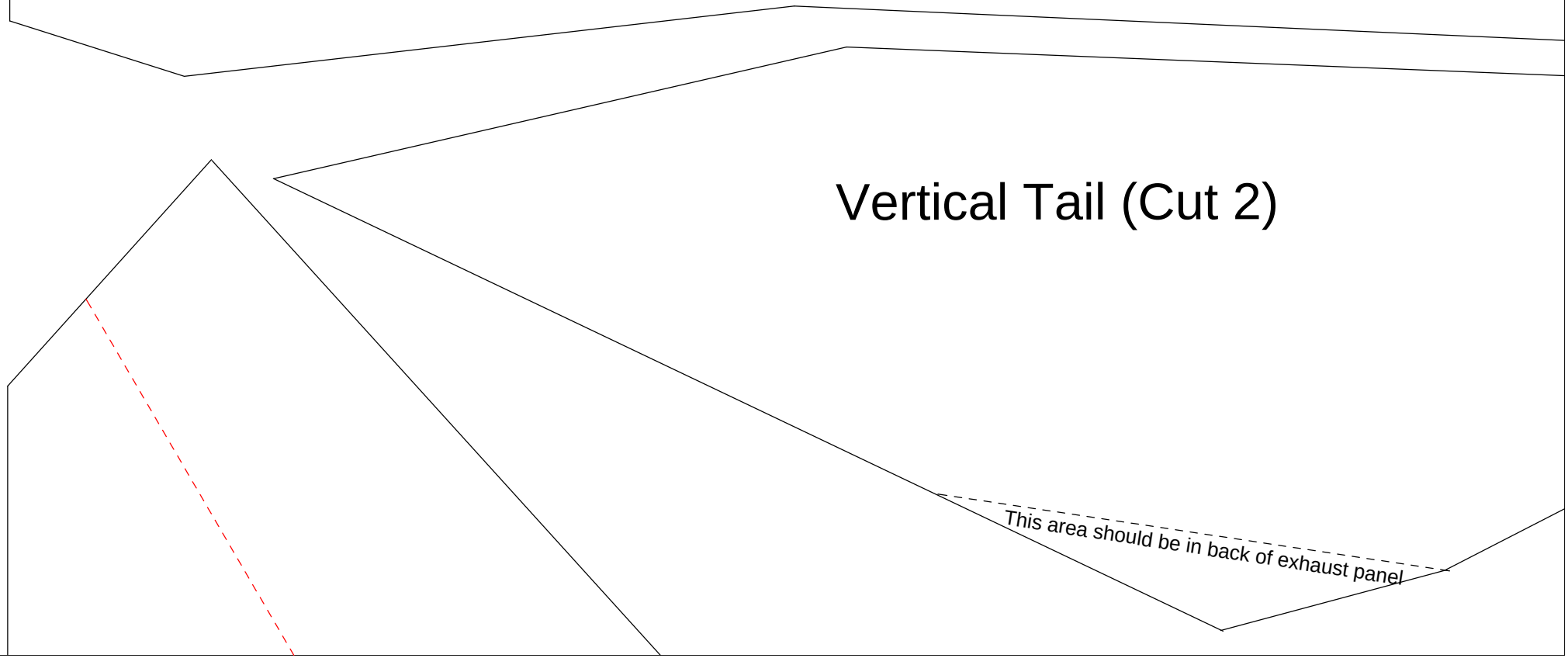
Exhau

ct)


R2 C5

Keep in mind...any angle variation from my build will result in a differ
Also, try to minimize curving of fuselage base piece during fuse cons

9. When placing magnets, space them evenly
along the edges of the Fuselage Base piece.
Use more magnets at the front and rear, and remember to
avoid placing magnets where the CF spars are. My advice is to
mount the magnets to the fuselage base piece before building the fusela
then press the fuselage base piece against the wing/base piece to make



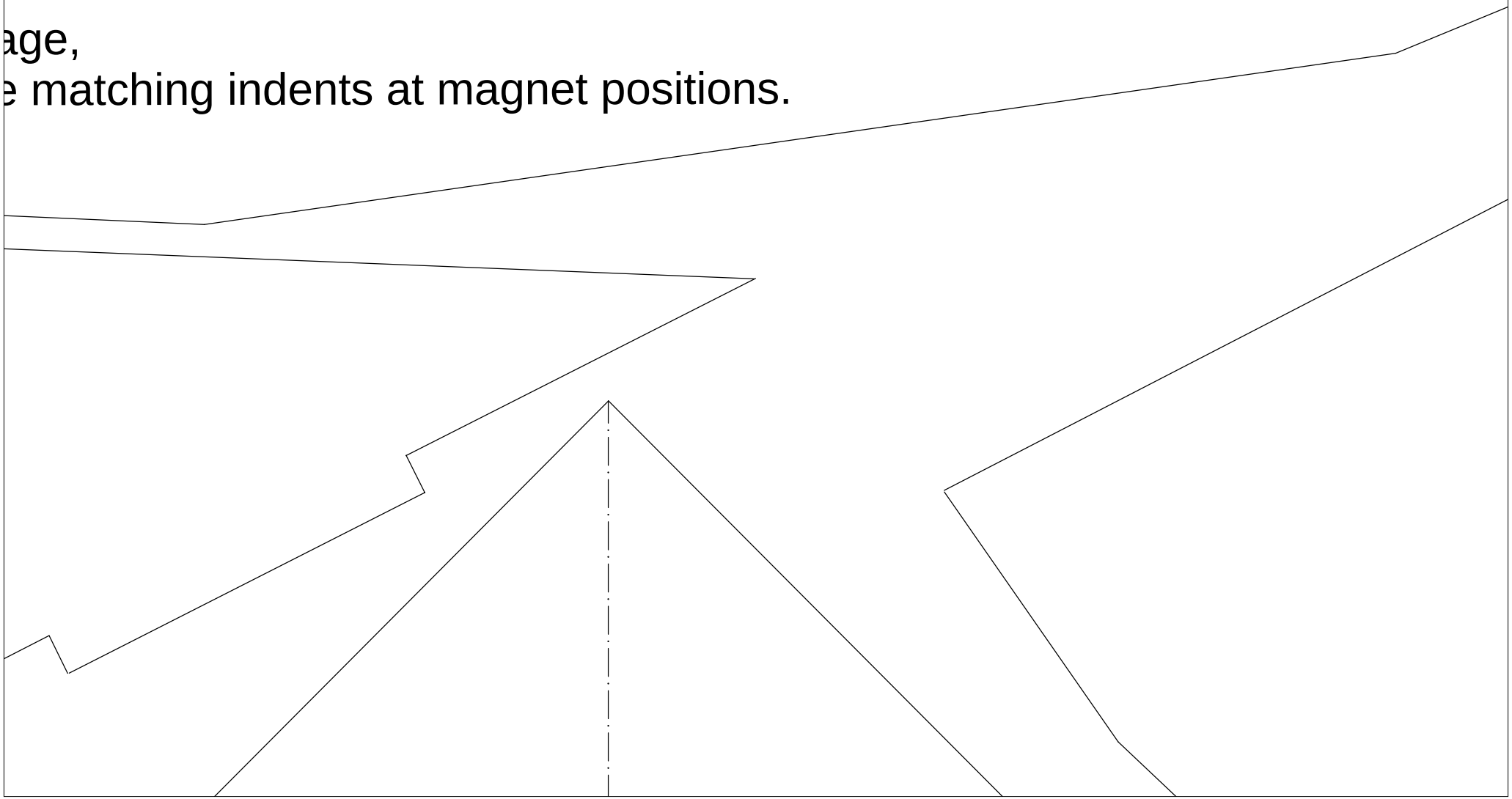
for that step...depending on placement of parts, adjustments may need to b

ent result for you. Keep in mind these plans are BETA only.

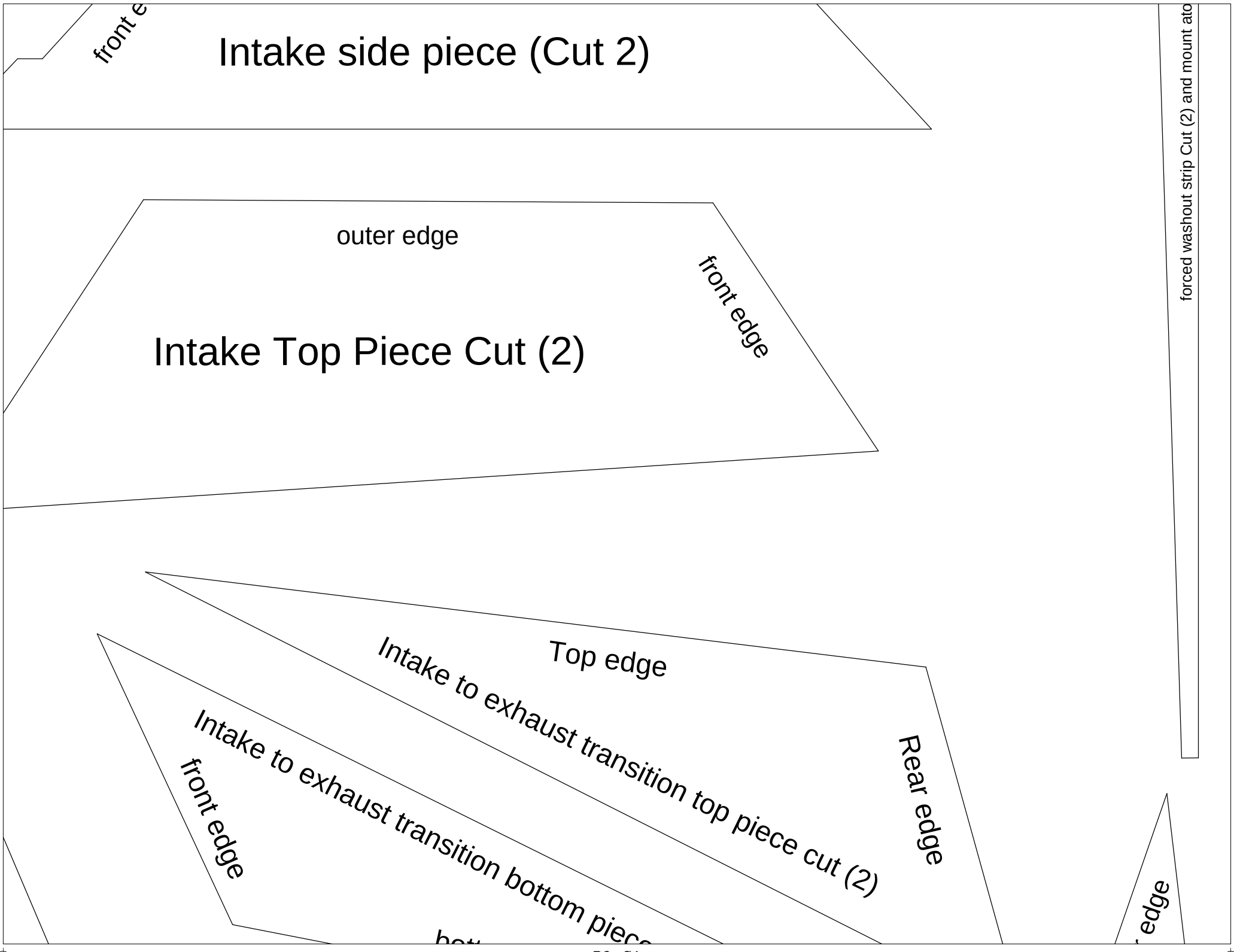
truction, but a little curvature won't hurt the flight characteristics.

age,

e matching indents at magnet positions.



be made to part sizes on subsequent steps.


front e
Intake side piece (Cut 2)
outer edge
front edge
Intake Top Piece Cut (2)
forced washout strip Cut (2) and mount ato
Top edge
Intake to exhaust transition top piece cut (2)
Rear edge
Intake to exhaust transition bottom piece
front edge
edge

forced washout strip Cut (2) and mount und

R3 C5

Internal spine /motor mount pie

General Tips

1. All fuselage pieces need to be beveled at varying degrees for proper fit.
2. I recommend using UHU Creativ glue for joining fuselage pieces for flexibility
3. Start with 1/2 inch up and down deflection on elevons and adjust to your flyin
4. If possible, use exponential on radio mixing to soften control throws.
5. Have fun! Any questions please email me at dcobra_98@yahoo.com or visit
6. CG measurement on 100% scale is 52cm along centerline from nose t
7. Materials needed /recommended:
   2-3 sheets depron/FFF/sturdyboard
   1/32 lite ply for control horns
   Polyurethane glue, foam safe CA, UHU Creativ Glue
   Thin balsa strips (1/32 I think)
   (2) Servos I used Hitec HS-55's
   (1) Brushless motor/ESC/Prop - I used HET Typhoon 15/10, EFlite 20 a
   (1) Reciever - I used Hitec Electron 6. Minimum Rx would be 4 channe

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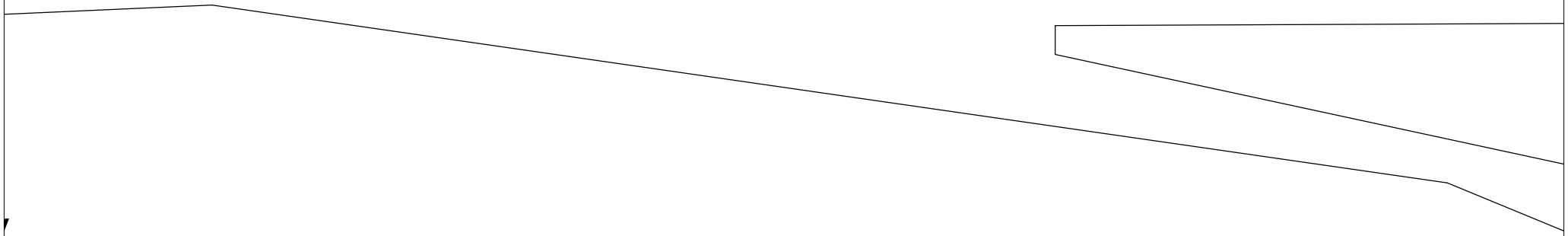
   (3) 61mm .210 CF rods or equivalent length
   Scotch Satin tape for elevon hinges, tape over CF rods
   (124) 1/8 x 1/16 N48 Neodymium disc magnets (doubled-up) or approx
   (1) 3/8 hardwood stick for motor mount.



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g style.

discussion thread at http://www.rcgroups.com/forums/showthread.php?t=481872
ip, or 56cm along wing leading edge from nose tip.

amp ESC, and APC 8x6 SF prop
l and Transmitter needs to be capable of elevon or V-Tail mixing

Fuse

imately (62) 1/4 x 1/16 magnets.

p Spinal Piece Cut (2)

Aft In

elage Base Piece (Cut 1)

Lockheed-Martin F-117 Nighthawk

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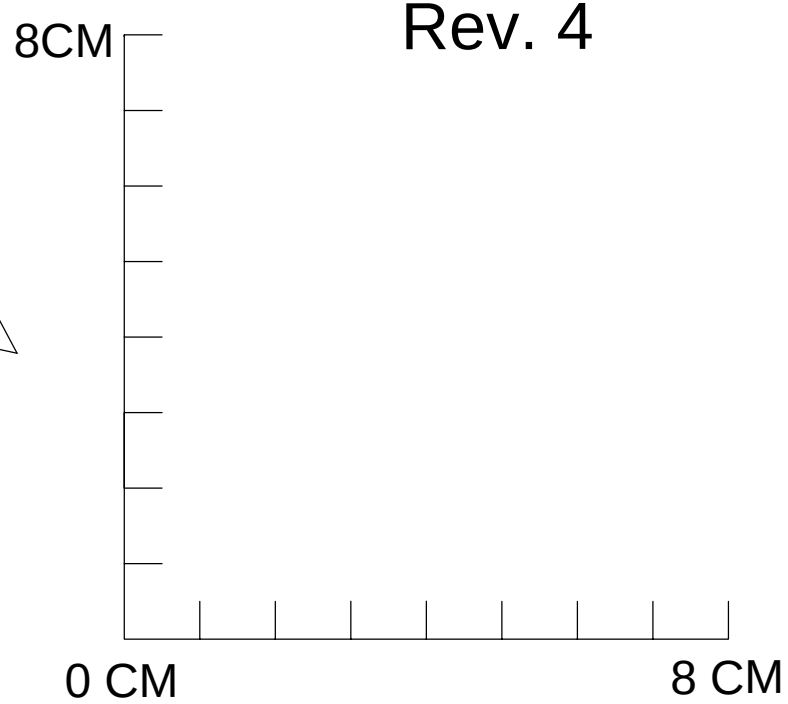
Rev. 4



rear edge

top edge

ntake top Cut (2)

front edge

p trailing edge of each elevon (refer to blue sticth lines)

'A

use without
consider a
com

ler leading edge of wing (follow blue stiched lines)

ce Cut (3) and laminate

Cut away corner after motor mount glue dries for better appearance

Cutout for motor mount stick

Cut stick to length for motor setup used