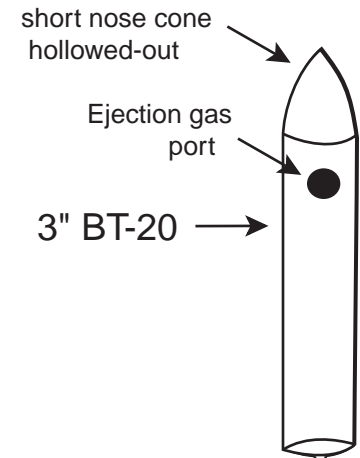


CHRIS KING'S XP-2 B R/G

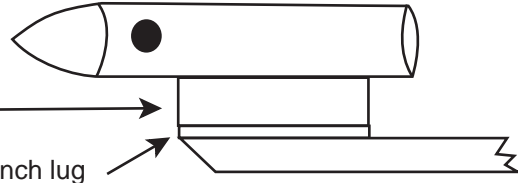
based on original design by Al Nienast
 redrawn by Wolfram von Kiparski from plans published in the
 "Midwest Rocketeer," issue #8, Summer 1979
 Plate 1 of 2



Fuselage
 1/8" x 3/8"
 spruce

1/8" x 1/2" balsa pylon

launch lug



NOTE: Balance glider at point 0.6" from leading edge of wing,
 i.e. C.G. at 30% point on wing. Place pod to balance,
 and fine-tune glide by adjusting stab incidence.

1/16"
 balsa
 brackets

2" x 12" - 3/32" light balsa wings
 airfoiled

DIHEDRAL - 2 1/2"
 under each wing

glue wire
 hooks to
 underside
 of wing
 here

full-size wire hook for wings

Approx. 1/16"
 Stab. incidence

use this contour
 for wing tips

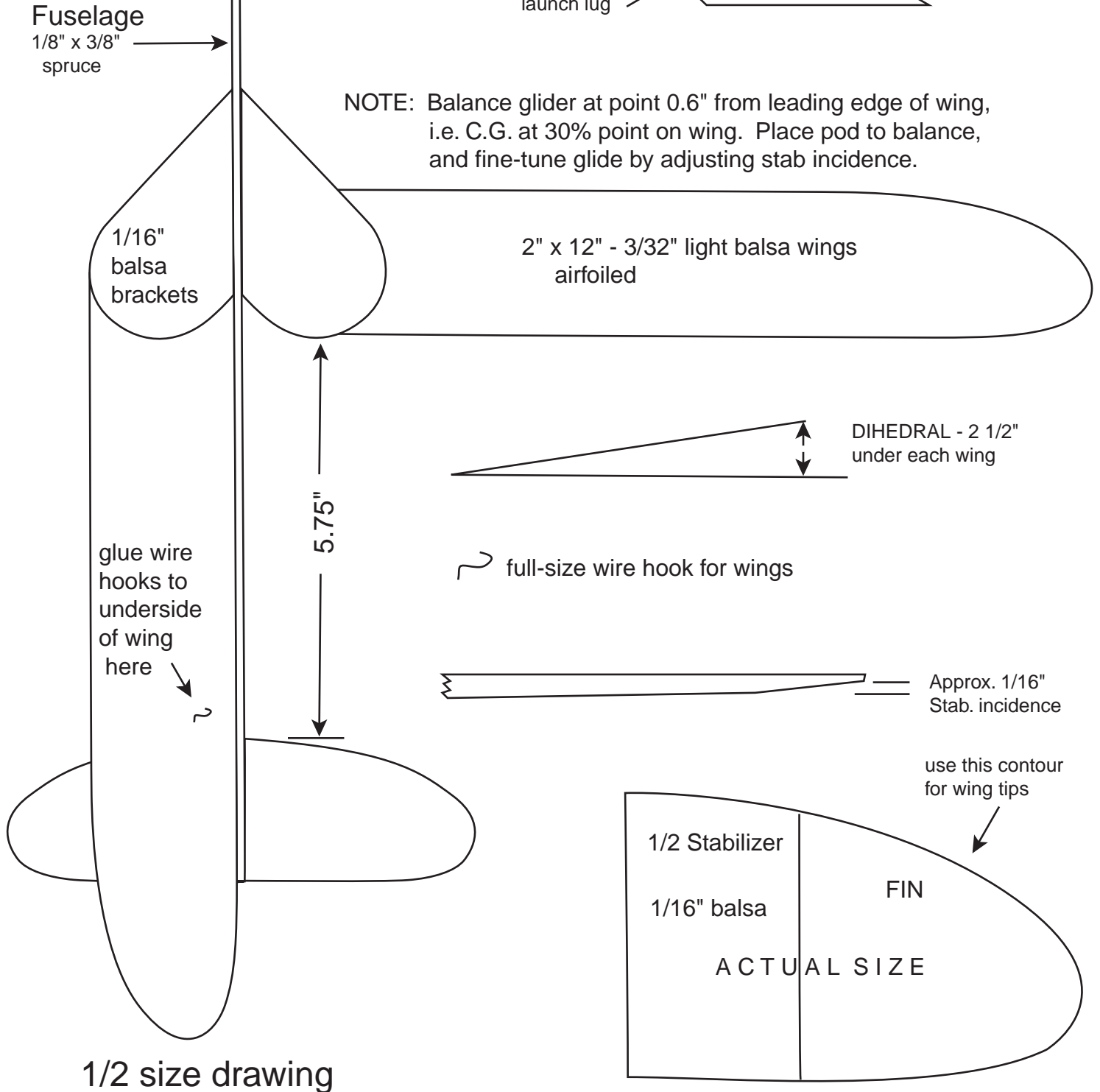
1/2 Stabilizer

1/16" balsa

FIN

ACTUAL SIZE

1/2 size drawing



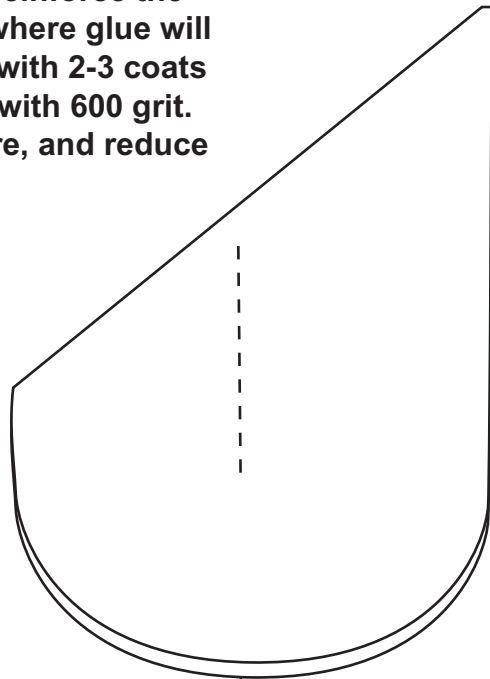
The Nienast swing-wing hinge

The original XP-2 gliders used bare balsa axles. Here is a version that uses BT-5/TT-5 tubing and an adapter ring to reinforce the assembly with almost no weight penalty. Except where glue will be applied to assemble the glider, finish the parts with 2-3 coats of clear dope and talcum powder, sanded smooth with 600 grit. This will help protect the mechanism from moisture, and reduce friction between moving surfaces.

Upper wing bracket

(1/8" balsa)

- epoxy to top of balsa/TT-5 axle
- DO NOT glue to wing

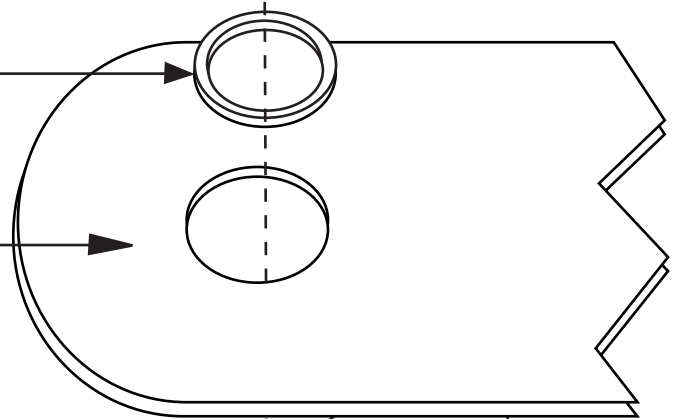


1/8" high TT-5/TT-20 adapter ring

Wing

(1/8" balsa)

- drill 11/16" hole
- glue TT-5/TT-20* adapter ring into 11/16" hole.
- assembly should swing freely around axle on lower wing bracket



Lower wing bracket

(1/8" balsa)

- balsa/TT-5* axle
- glue balsa bulkhead into TT-5 tubing and cut off slightly more than a 1/8" thick "wheel"
- epoxy to lower bracket

