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

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.

1/8" x 1/2" balsa pylon

DIHEDRAL - 2 1/2" under each wing

full-size wire hook for wings

Approx. 1/16" Stab. incidence

use this contour for wing tips

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

**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

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Artwork and text by Wolfram von Kiparski

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