Keil Kraft

Bantam

SEMI-SCALE FREE FLIGHT
POWER MODEL 38.5" Span

Designed and Drawn by
Albert E Hatfull

BUILD the motor bearers assembly as shown here, then BEND the U/C wire and cement in place. Remove from plan, BIND the U/C wire to the motor bearers with strong thread and cement again

CUT pieces from trailing edge stock and cement to Wing platform to fit undercamber of the wing

1/4" x 1/8"

Windscreen

Class 'A' team race pilot from your model shop. Cement to sheet floor

FIRST STEP in building FUSELAGE is to cement the UPPER FORMERS to the CRUTCH side members

THE ORIGINAL MODEL WEIGHTED 6.4 ozs. powered with the ALLBON 'MERLIN'

SUITABLE FOR THE ALLBON DART OR MERLIN, E.D. BABY OR FROG 50

WING PLATFORM`

SEE PATTERN 'Z' for nose cowling. Cement inplace before tissue covering, paint inside with coloured dope, then coat with fuel proofer

Make holes for wing dowels cement inplace after covering

Cut gussets from 1/4" x 1/8"

SEE pattern 'Y' for cockpit coaming

BEFORE covering paint entire nose, motor - bearers etc. with fuel proofer

STRINGER 'X' (ref)

1/16" sheet cemented across stringers 'X' to support pilot

1/8" x 1/8" stringers

ED Baby

SIDE VIEW OF FUSELAGE

CRUTCH 3/8" x 1/8"

FIN

Typical joint

Sharpen match -stick, press in and cement

8 B.A. Bolts

Heads soldered

Tinplate

U/C wire

FILL IN between 9 and 10 with pieces of scrap 1/4" x 1/8"

CEMENT SUB-FIN under rib T1 of the TAILPLANE after tissue covering

MOTOR

BEARERS

BUILD the motor bearer assembly over this top view

Wing Platform

CEMENT 4A across stringers 'X'

CRUTCH from 3/8" x 1/8"

BUIL TE FUSELAGE over this TOP VIEW

Cement matchstick across as shown for the rubber bands holding tailplane

WING DOWELS are 2" long and protrude each side as shown

Cut the windscree from sheet celluloid

BEND the U/C wire to this pattern then bend the top portion back as in side view

14 s.w.g. (0.080")

PATTERN 'Y' CUT this shape from postcard and cement over cockpit position before tissue covering

FRONT VIEW

2.5" Dihedral

RETAIN wheels on axles by soldering washers on each side

Use four 1/8" X 2" Rubber bands to secure tailplane (two each side)

Tailplane

1/8" X 1/8" leading edge

1/8" X 1/8" Top spar

Cut gussets from 1/4" x 1/8"

1/8" X 1/8" lower spar

1/2" X 3/16" 'Shaped' T.E. stock

Cut tips from trailing edge stock

T1 T2 T3 T4

PATTERN 'Z' for Nose cowling cut from hard thin card or thin aluminium sheet from a cigerette or food tin

Hole for fuel line

Top Centre

CARVE the tip blocks roughly to shape, cement to R3 and finish shape with sandpaper

Use four 1/8" X 3.5" Rubber Bands to hold the wings in place (No 33)

Cut gussets from 1/4" x 1/8"

1/8" x 1/8" TOP FRONT SPAR

1/8" x 1/8" LOWER SPAR

LEFT WING

Dash lines indicate position of Dihedral braces. Add after joining wing halves together

1/8" x 1/8" TOP REAR SPAR

TILT this rib on each wing. See note on plan

CENTRE RIB

Top spar

USE the Dihedral template as shown to TILT the centre rib on each wing. This gives 2.5" Dihedral at each wing tip when wings are joined

TYPICAL WING SECTION

SAND Leading edge as shown

R1

R2

R3

leading edge 1/4" x 1/8" raised 1/32" from plan with suitable packing

TIP BLOCK

ENLARGE the slots alongside the spars to fit the dihedral braces

RIGHT WING

Typical Tip Section

R1 R1 R1 R1 R1 R1 R1 R2 R3

3 ply DIHEDRAL BRACE

CEMENT pieces of celluloid to Trailing edge after covering to stop rubber bands 'cutting in'

NOTCH the Trailing edge to receive ribs

1/2" x 3/16" Shaped Trailing Edge

1 2 3 9 10 11 12 13 14 15 16 4A