A 35" span sport model for 55–98 c.c. (A.P.S. code C.D)

ENDEAVOUR

DESIGNED BY

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THE AEROMODELLER PLANS SERVICE
38 CLARENDON RD. WATFORD HERTS.

6/-

ALL WOODS ARE BALSA UNLESS OTHERWISE STATED

Materials Required	
1 strips of 1/16" x 1/16" x 36" balsa	Scrap 1/4" sheet 4 1/2" x 1 3/4"
1 " " 3/16" x 3/16" x 36" hard "	8" of 3/4" x 3/4" balsa block
4 " " 1/8" x 1/8" x 36" " "	1 sq ft of 1/16"
1 " " 1/4" x 3/16" x 36" "	1 sq ft - 1/8"
1 " " 1/4" x 1/4" x 36" "	1ft of 1/8" dia hardwood dia
2 " " 1/2" x 1/16" x 36" "	40" of 16 s w g piano wire
2 sheets - 1/32" x 3" x 36" "	8" " 18 " " "
1 " " 3/32" x 3" x 36" "	5" " 20 " " "
4 " " 1/16" x 3" x 36" "	Scrap thin acetate sheet
8" of 1/2" x 1/2" strip	2 sponge wheels 1 1/2" dia.
Scrap 1/8" sheet	1/2" dia plastic tailwheel
Scrap 3/16" "	7 1/2" x 3" of thin guage Alum^m

St'bd cabane strut
RCS 1/2"
Port cabane strut
FCS
Cabane brace
1/2" overlap Bind and solder

Cabane brace
RCS Bind and solder 1/2" to cabane struts
FCS Cabane cross struts true length before forming ends into hooks

Thin ply ring or fibre washer
Wind shield shape
Note slight overlap of noseblock
Metal cowling
Noseblock shaped from block
FIA
Cabane brace
EB
1/32" sheet top covering
1/8 dia dowel
1/4" sheet
Hinge pin
1/8" sq
3/32" sheet trim tab
1/8" dia dowel
3/32" sheet T E
1/4" sheet
FE
F6
TB
F5
F4
F3
F2
F1
UB
3/32" sq strengtheners
3/32 sq
1/8 I/D paper tube
Bind and solder
Thin piano wire
Mills 75 shown
Cross brace wire from here to opposite axle
True length of cabane struts before bending ends to overlap 1/2
WR Cemented here on inside
1/8" sheet gussets
F2,3,4 and 5 3/32" sheet
1/32" sheet fuselage bottom
Cover between T1 ribs with 1/32" sheet top only
Plastic wood fillet
1/16 hard sheet T.E.
T1
T2
T3
T4
T5
T6
1/16 x 3/16 ply strengthener
1/8 sq hard balsa spar
1/4 x 3/16 L E
3/16" sheet tips
1/4 x 3/16 hard balsa
True shape main U/C leg
Forward U/C brace
16 swg piano wire
U/C cross brace 20 swg piano wire
1 1/2 dia sponge wheels
Top
F1
1/16" ply
F6 1/4" sheet
FIA 1/8" sheet
F5
F4
F3
F2
Bay sides 1/16 ply
Choke tube outlet
Bend over thin steel rule
Insert hinge wire then press down with screwdriver to wrap round wire
1/8 dia dowel
Tail mount 1/16" sheet inserted
TB
1/16" sheet insert
1/16" ply
F6
COWLING DETAIL
Position of hinge wire
Pin holes
Cowling top with unhinged side
Cowling side
Thin guage Aluminium
This strip bent 90° to clip under edge of engine bay
6 1/2 track
Balsa fairings or thin shim brass formed into tubes and soldered to U/C struts
WR
1/16 hard sheet lower wing mount
1/16 ply
UB
1/8" ply
Holes for cabane strut binding
EB
LW2
LW1
LW2
LW1
LW2
LW1