A 38-1/2" span sport model suitable for radio control

POPSIE

Designed by

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The Aeromodeller Plans Service

THE AERODROME, STANBRIDGE, BEDS

All wood balsa unless otherwise stated

DATA	
Wingspan	38-1/2"
Wing area	230 sq. ins.
Tailspan	18"
Tail area	84 sq. ins.
Length	28"
Weight -	
Bare	15-3/4 ozs
With radio	23 ozs
Power -	
With radio	E.D. Bee
Without radio	Mills 0.75 cc

MATERIAL REQUIRED

Strip		Sheet	
2 strips of	3/32" x 3/32" x 36" med	2 sheets of	1/16" x 3" x 36" med
8 strips of	3/16" x 3/16" x 36" med	1 sheet of	3/32" x 3" x 36" med
1 strip of	1/4" x 1/4" x 36" hard	1 sheet of	1/8" x 3" x 36" med
4 strips of	3/32" x 3/16" x 36" med	1 sheet of	3/16" x 3" x 36" med
	or	Miscellaneous	
6 strips of	1/16" x 3/16" x 36" med	1 sq. ft. of	1/16" ply
1 strip of	1/4" x 1/8" x 36" med	6" x 7" of	1/32" ply
1 strip of	3/16" x 1/8" x 36" med	6" x 5" of	3/32" ply
1 strip of	1/2" x 1/8" x 36" med	9" of	3/8" x 3/8" beech
1 strip of	1/4" x 3/4" x 36" med	36" of	12 swg. piano wire
		Soft block	5" x 3" x 1/2"

NOTE: do not use an airscrew of under 7-3/4" dia.

Scrap fairing

W1

3/16" sq. hard

1/8" sheet

3/16" dowel

F5

3/16" sq.

F6

F7

3/8" sq. bearers (Beech)

3/16" planking

3/16" sheet side panels

F1

F2

F3

1/8" sheet infill bind with silk

Linen hinge

1/8" sheet

Cabin floor 1/8" sheet

F4

3/32" sheet

3/16" sheet doors hinged at front. For sport use build in dotted 3/16" sq. and omit doors

2 strips of 3/16" x 3/32" or 3 strips of 3/16" x 1/16"

U2

U4

U1

U3

3/32" sheet

2-1/2" dia. wheels

1/32" ply cabin top, partially cut away for clarity

soft iron wire

3/16" sq.

3/16" gusset

3/16" sheet

3/16" dowel

T1 F8

Cut out

3/16" sheet

Linen hinges

Hole for band

Bush

Escapement if required

3/4" dia. wheel

Ply key

1/8" sheet 2off

Undercart, true length of 12 swg. wire, alternatively bind 12 swg. brass tube to formers and plug legs in

Back leg

Front leg

Side view of rear leg

Carve to this line

Recess for bearers

Dummy

F1

F4

F5

F6

F7

F8

16 swg. tail wheel axle. Bind and cement to F8

- FORMERS -

No F1	1/2" sheet
No F2	3/32" ply
Nos F3, F4 and F8	1/16" ply
Nos F5, F6 and F7	3/32" sheet

I f no radio is used , F3 and F4 may be 1/8" sheet

Mills .75 shown

3 degrees right thrust

3/32" stringers

1/8" sheet infill

3/32" sq. between stringers

Additional 3/16" sq. cemented insdie top longeron before assembly

Formers and stringers omitted on this half of top view for clarity

Model is suitable for lightweight radio (under 7 1/2 ozs) control. Mount batteries against F3 and suspend receiver over C.G.. Wing spars may be webbed for additional strength

1/32" ply

3/16" sheet

3/16" dowel

- Wing Ribs -

W1	4 off 1/8" sheet
W2	12 off 1/16" sheet
W3	2 off 1/16" sheet

- Tail ribs -

T1	2 off 1/16" sheet
T2	4 off 1/16" sheet
T3	2 off 1/16" sheet

L.E. 3/16" x 3/16"

3/16" x 1/8" spars

T1 T2 T2 T3

1/8" sheet tips

1/2" x 1/8" T.E.

1/16" sheet top only

1/16" ply dihedral brace

L.E. 1/4" x 1/4" hard

2 lams. 3/16" sheet

1/4" x 1/4" hard

1/16" ply brace

3/16" x 3/16" spars

W1 W1 W2 W2 W2 W2 W2 W2 W3

Grain

Grain

1/8" sheet tips

dihedral 3-1/2"

1/4" x 3/4" T.E.

1/16" sheet top and bottom

1/4" x 1/8" spar

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