A 39" Wingspan Free Flight Sports Model for ·5 - 8cc engines (·049) A.P.S Code BC.

ISABEL

designed by

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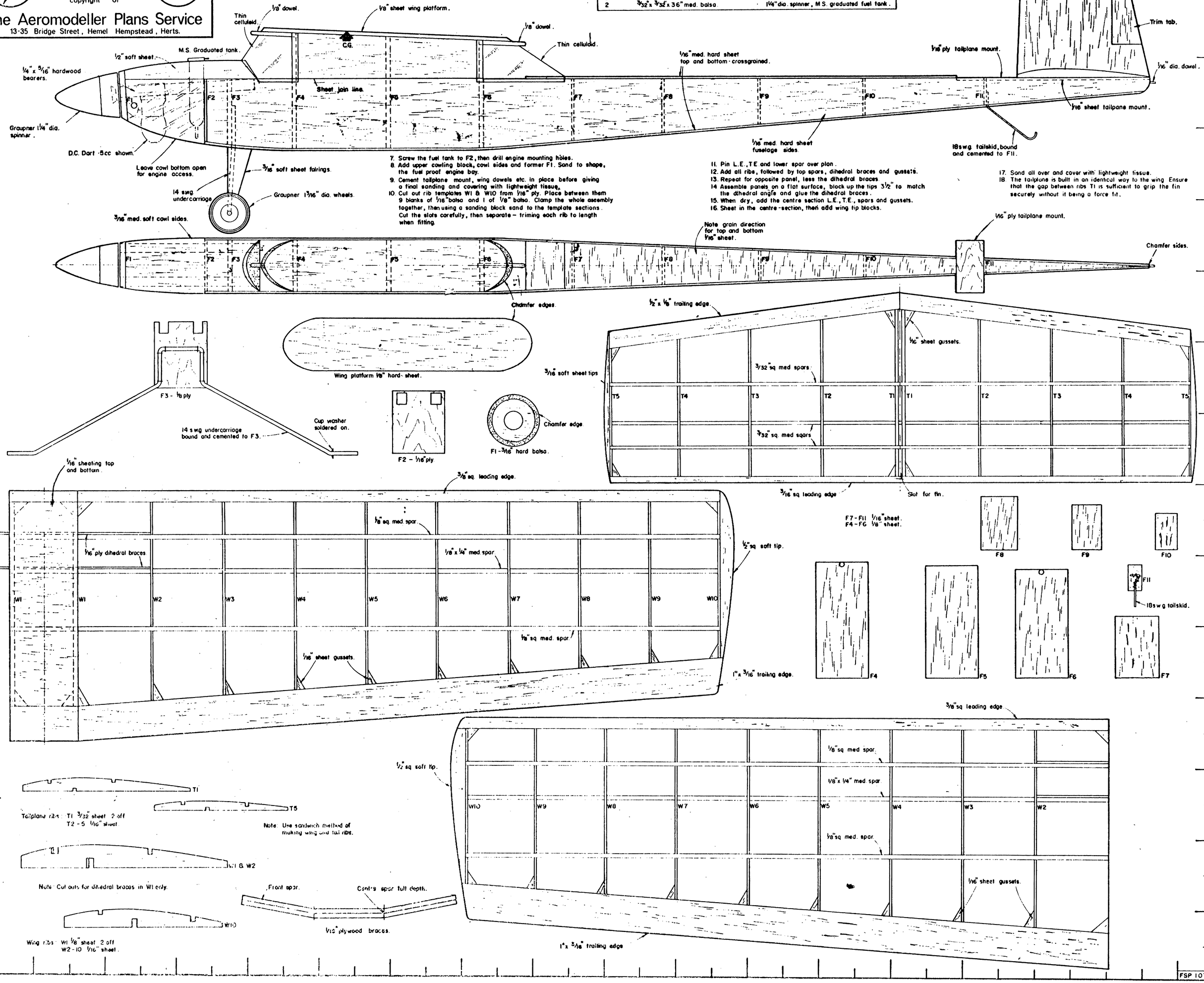
40p

Construction Sequence

1. Cut out fuselage sides and formers.
2. Bend U/C to shape, then attach to F3. Likewise tailskid to F11.
3. Cement formers F2-F6 in position, ensuring that fuselage is true and square.
4. Cut engine bearers to length and cement to F2 & 3.
5. Join fuselage sides at rear, then add remaining formers, checking that the fuselage is still straight.
6. Add the wing mount, followed by the top and bottom 1/16" sheeting, noting the grain direction.
7. Screw the fuel tank to F2, then drill engine mounting holes.
8. Add upper cowling block, cowl sides and former F1. Sand to shape, the fuel proof engine bay.
9. Cement tailplane mount, wing dowels etc. in place before giving a final sanding and covering with lightweight tissue.
10. Cut out rib templates W1 & W10 from 1/16" ply. Place between them 9 blanks of 1/16" balsa and 1 of 1/8" balsa. Clamp the whole assembly together, then using a sanding block sand to the template sections. Cut the slots carefully, then separate - trimming each rib to length when fitting.
11. Pin L.E., T.E. and lower spar over plan.
12. Add all ribs, followed by top spars, dihedral braces and gussets.
13. Repeat for opposite panel, less the dihedral braces.
14. Assemble panels on a flat surface, block up the tips 3½" to match the dihedral angle and glue the dihedral braces.
15. When dry, add the centre section L.E., T.E., spars and gussets.
16. Sheet in the centre-section, then add wing tip blocks.
17. Sand all over and cover with lightweight tissue.
18. The tailplane is built in an identical way to the wing. Ensure that the gap between ribs T1 is sufficient to grip the fin securely without it being a force fit.

Materials Required

2 sheets	1/16" x 3" x 36"	med. hard balsa.
2 "	1/16" x 3" x 36"	" balsa.
1 "	1/8" x 3" x 18"	hard "
1 "	3/16" x 3" x 18"	soft "
1 "	1/2" x 3" x 12"	" "
1 strip	3/16" x 3/16" x 36"	shaped L.E. med. balsa.
2 "	3/8" x 3/8" x 36"	" " " "
1 "	1/2" x 1/8" x 36"	" T.E. " "
2 "	1" x 3/16" x 36"	" " " "
2	3/32" x 3/32" x 36"	med. balsa.
4 strips	1/8" x 1/8" x 36"	med. balsa.
2 "	1/8" x 1/4" x 36"	" "
1 length of	1/4" x 3/16" x 12"	hardwood.
1 "	14 s.w.g. wire.	
1 "	1/8" dowel, 6" long.	
1 piece	1/16" plywood, size 3" x 12"	
1 "	celluloid, size 6" x 12"	
3 sheets lightweight tissue.		
Pair of small rubber wheels.		
1¼" dia. spinner, M.S. graduated fuel tank.		



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