APPRENTICE

A 48" wingspan power assisted glider for .020-. mounted engines, and single channel radio cont

by D. Boddington

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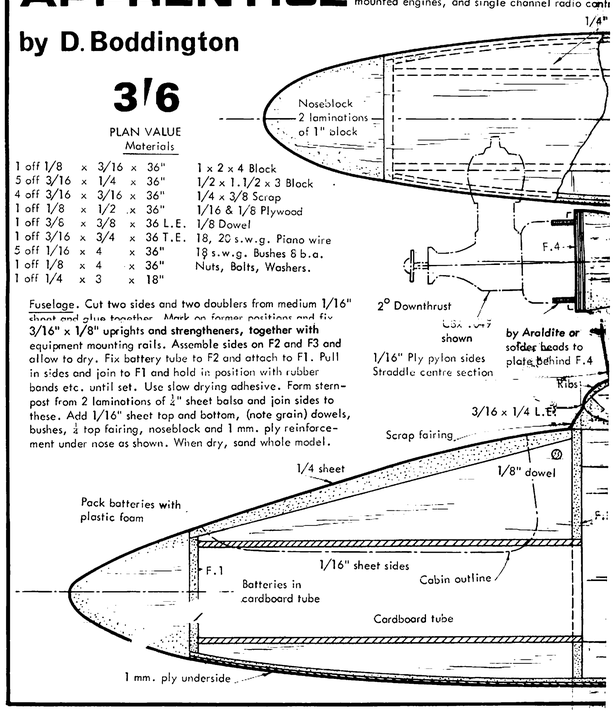
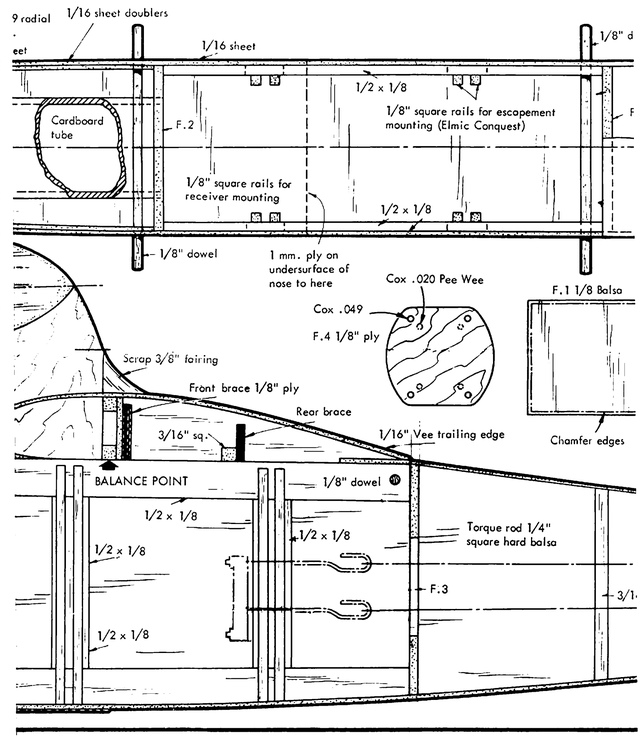
PLAN VALUE

Materials

1 off	1/8	x	3/16	x	36"	1 x 2 x 4 Block
5 off	3/16	x	1/4	x	36"	1/2 x 1.1/2 x 3 Block
4 off	3/16	x	3/16	x	36"	1/4 x 3/8 Scrap
1 off	1/8	x	1/2	x	36"	1/16 & 1/8 Plywood
1 off	3/6	x	3/8	x	36 L.E.	1/8 Dowel
1 off	3/16	x	3/4	x	36 T.E.	18, 20 s.w.g. Piano wire
5 off	1/16	x	4	x	36"	18 s.w.g. Bushes 6 b.a.
1 off	1/8	x	4	x	36"	Nuts, Bolts, Washers.
1 off	1/4	x	3	x	18"	

Fuselage. Cut two sides and two doublers from medium 1/16" sheet and glue together. Mark on former positions and fix 3/16" x 1/8" uprights and strengthners, together with equipment mounting rails. Assemble sides on F2 and F3 and allow to dry. Fix battery tube to F2 and attach to F1. Pull in sides and join to F1 and hold in position with rubber bands etc. until set. Use slow drying adhesive. Form sternpost from 2 laminations of 1/4" sheet balsa and join sides to these. Add 1/16" sheet top and bottom, (note grain) dowels, bushes, 1/4 top fairing, noseblock and 1 mm. ply reinforcement under nose as shown. When dry, sand whole model.





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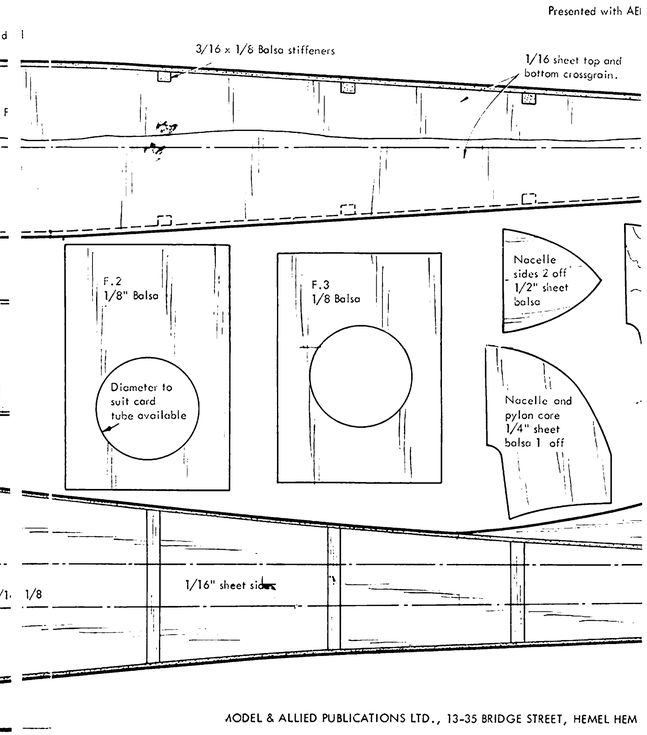

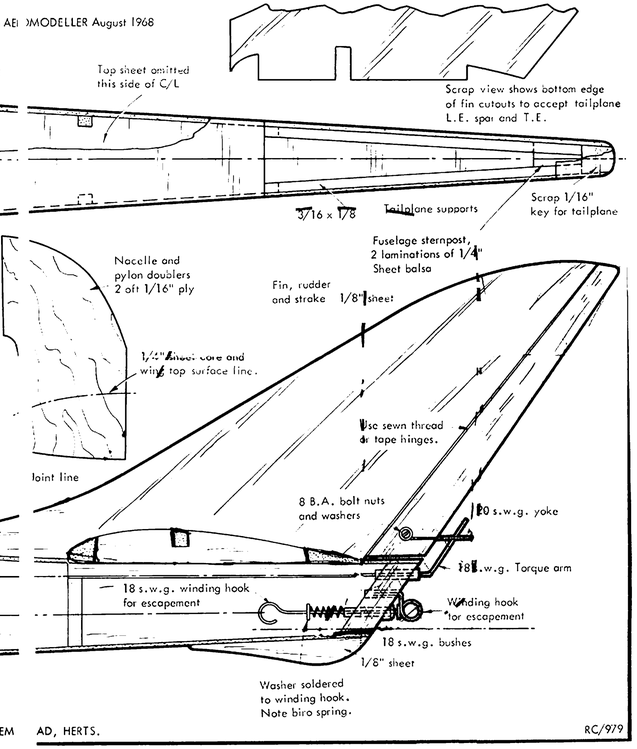

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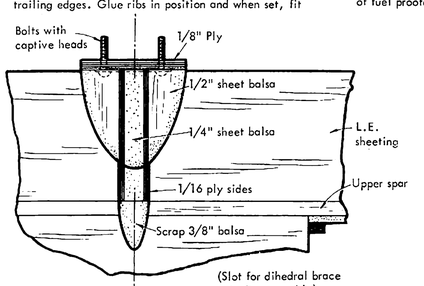
by D. Boddingto

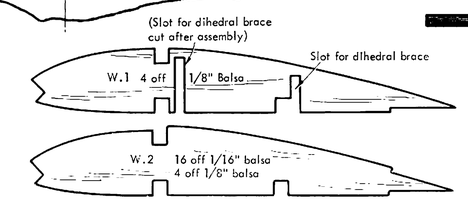
Wings. Prepare all balsa and ply parts. Cover plan with Polythene to prevent parts sticking, and pin directly over plan, lower trailing edge and lower 3/16" square spars, passing pins through T.E. and either side of spars. Glue ribs in place (remember to set root ribs at angle for dihedral) and when set add upper spar, upper T.E. and 3/16" x 1/4" leading edge (held in place by pins as lower spars). Allow to set thoroughly and remove from board. Build port wing, reversing centre ribs etc. Add 1/16" sheet webs to rear faces of forward spars in first two bays, and when set carefully cut slots (with razor saw) for dihedral braces. Assemble wing onto braces with 2" dihedral under each tip, and butt centre ribs using PVA or similar glue. Add tips, gussets, 1/16" leading edge and centre section sheeting using a slow setting adhesive.

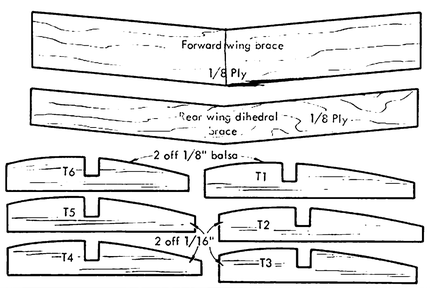
Tail surfaces. Prepare parts and pin down leading and trailing edges. Glue ribs in position and when set, fit upper spar. Add scrap gussets. When thoro nly dry remove from board and add tips. Fin, strak nd rudder are simply cut from 1/8" sheet balsa. (Not grain direction).

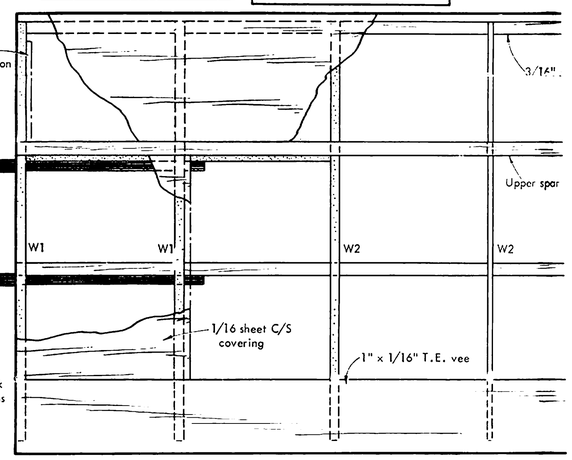
Engine Mounting. Cut parts, and using PV attach ply doublers to 1/4" balsa core and 1/8" nacelle si s to doublers. Fix engine mounting bolts (see note) and A dite com- plete former F4 to pylon. Firmly glue pylor o wing in position shown, completing with scrap fairi .

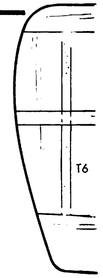
Finishing. Apply two coats clear dope to elage and sheet surfaces and sand smooth. Now cover ith light- weight tissue (coloured if required) using d e as adhesive, and give a further two coats of c r dope and decorate as required. Cover wing and t plane with heavyweight tissue using tissue paste as adh ive. Spray with water to shrink and give three coats of lear dope and decorate as required. Give whole mode a good coat of fuel proofer (two coats to pylon and engi mount.)

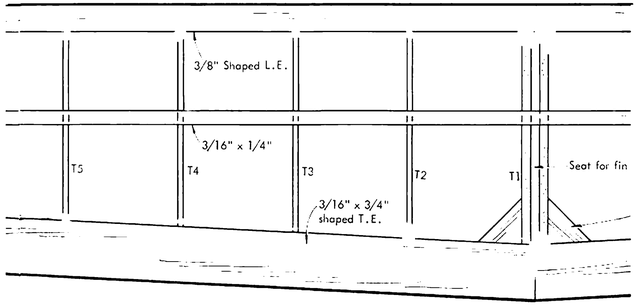


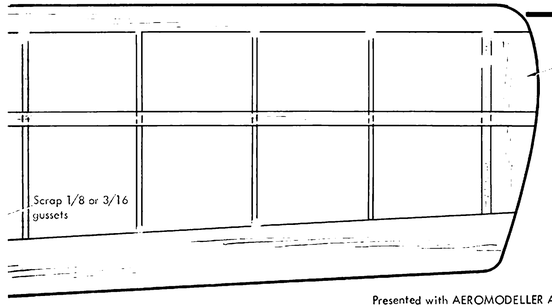












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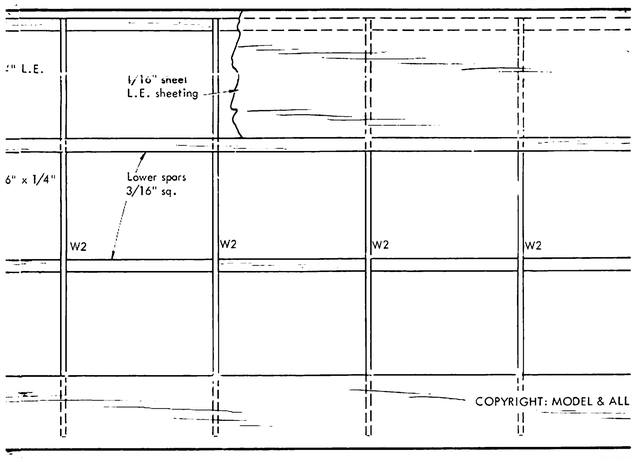

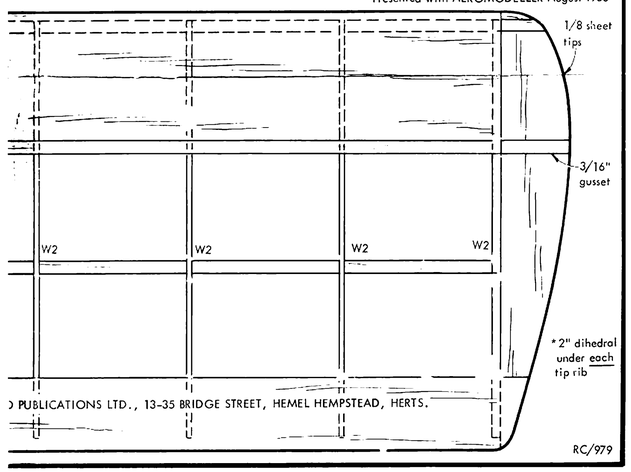

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