



POPS

by Colin Reed

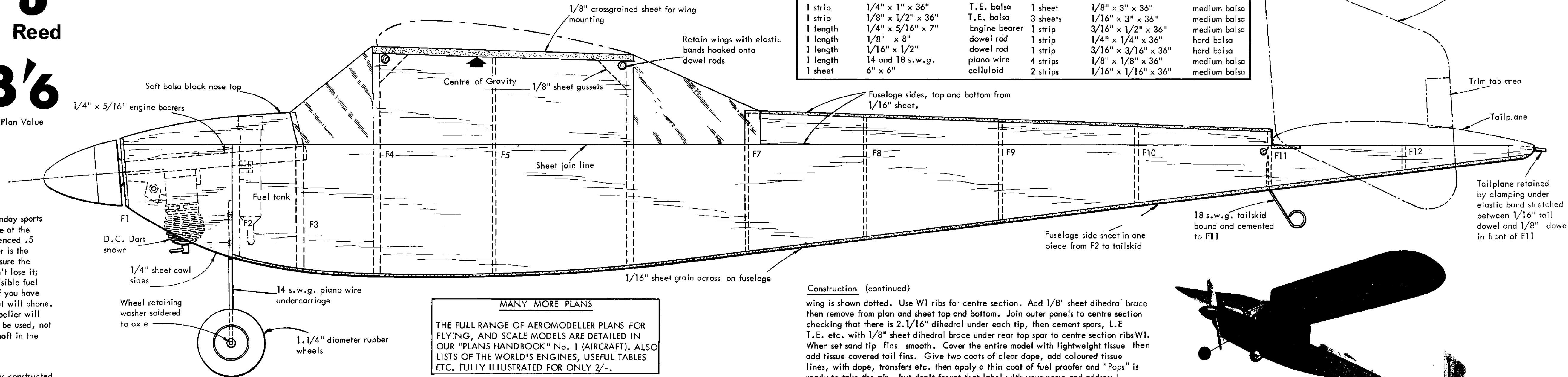
3'6"

Plan Value

A 37 inch wingspan free flight sports model for .5 - .8 cc. engines.

COPYRIGHT OF: MODEL AERONAUTICAL PRESS LTD. 13/35 BRIDGE STREET, HEMEL HEMPSTEAD, HERTS.

Materials Required					
1 strip	1/4" x 1" x 36"	T.E. balsa	1 sheet	1/8" x 3" x 36"	medium balsa
1 strip	1/8" x 1/2" x 36"	T.E. balsa	3 sheets	1/16" x 3" x 36"	medium balsa
1 length	1/4" x 5/16" x 7"	Engine bearer	1 strip	3/16" x 1/2" x 36"	medium balsa
1 length	1/8" x 8"	dowel rod	1 strip	1/4" x 1/4" x 36"	hard balsa
1 length	1/16" x 1/2"	dowel rod	1 strip	3/16" x 3/16" x 36"	hard balsa
1 length	14 and 18 s.w.g.	piano wire	4 strips	1/8" x 1/8" x 36"	medium balsa
1 sheet	6" x 6"	celluloid	2 strips	1/16" x 1/16" x 36"	medium balsa



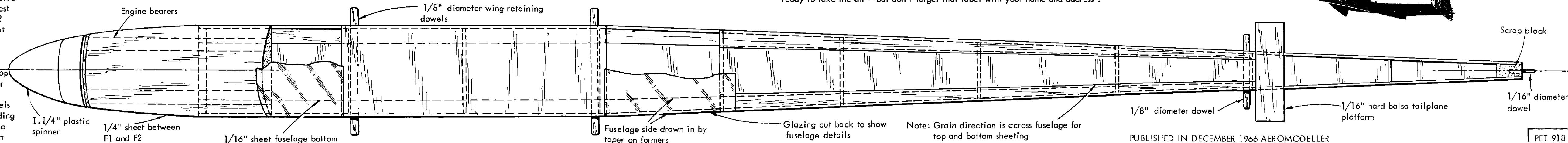
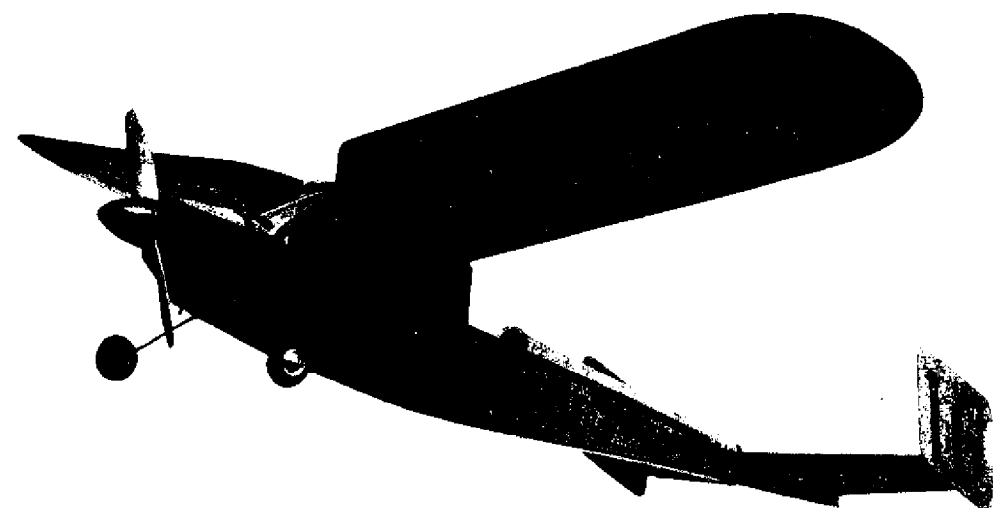
"Pops" is not a fast contest type model by any means, but an ideal Sunday sports flier for small local fields. With twin fins and swept forward leading edge at the centre it is quite "out of the rut" and the hardly noticeable noise of a silenced .5 cc. engine should not arouse complaints from locals. A point to remember is the fuel tank size, if you are using an M.S. type as shown on the plan make sure the fuel is put in with a measuring syringe or similar device to ensure you don't lose it; alternatively you can attach the tank on the outside of the fuselage for visible fuel fitting. Always put your name and address on "Pops" and phone number if you have one, as it is surprising how many people are too lazy to write a letter, but will phone. Best position for this is on the fuselage side under the wing. A nylon propeller will repay its cost many times over, if flown on a rough field a spinner should be used, not only to improve the look of "Pops" but to protect the protruding engine shaft in the event of it crashing, as this will absorb the impact.

Construction

Fairly simple to build, "Pops" will cause no trouble to anyone who has constructed a free flight power model before, but for the guidance of the inexperienced it is best to adopt the following sequence. Cut formers F1 to F12 sewing pre-bent U/C to F2 and tailskid to F11. Cement engine bearers through F2 and F3 at angle shown. Cut 1/16" fuselage sides then cement F2 to F6 in place. Clamp rear end with a peg to the small tail block then cement F7 to F12 in place. Cement cross grained 1/16" sheet bottom in place, angled top decking and cross grained top. Next add 1/16" sheeting for centre section between F4 and F6, then gussets and dowel rods, also top 1/8" sheet wing platform. Add soft block of top of nose and 1/4" side sheets, after fitting engine bolts and fuel tank. Sand block to clear shaft and cement in F1. Cement tailplane platform, dowels and cockpit glazing, sand all over, solder wheels on and the fuselage is complete. Build the tailplane over the plan by pinning leading and trailing edges down, then lower spar, cement ribs in position then top spars, do not add tip fins yet. Construct wings over plan in the same manner noting that port

Construction (continued)

wing is shown dotted. Use W1 ribs for centre section. Add 1/8" sheet dihedral brace then remove from plan and sheet top and bottom. Join outer panels to centre section checking that there is 2.1/16" dihedral under each tip, then cement spars, L.E T.E. etc. with 1/8" sheet dihedral brace under rear top spar to centre section ribs W1. When set sand tip fins smooth. Cover the entire model with lightweight tissue then add tissue covered tail fins. Give two coats of clear dope, add coloured tissue lines, with dope, transfers etc. then apply a thin coat of fuel proofer and "Pops" is ready to take the air - but don't forget that label with your name and address!



MANY MORE PLANS
THE FULL RANGE OF AEROMODELLER PLANS FOR FLYING, AND SCALE MODELS ARE DETAILED IN OUR "PLANS HANDBOOK" No. 1 (AIRCRAFT). ALSO LISTS OF THE WORLD'S ENGINES, USEFUL TABLES ETC. FULLY ILLUSTRATED FOR ONLY 2/-.

