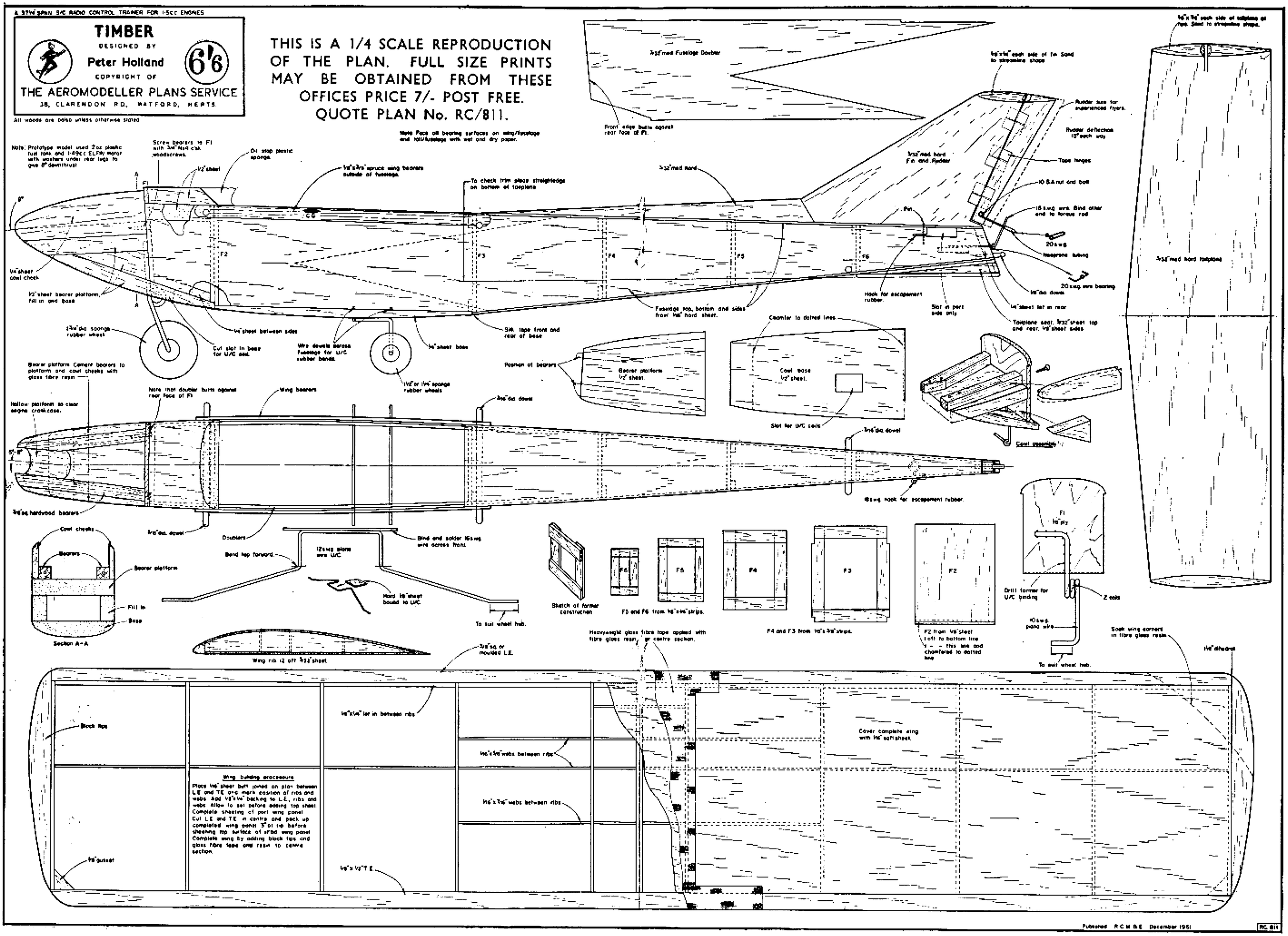
A 37½" span S/C RADIO CONTROL TRAINER FOR 1·5cc ENGINES
TIMBER
DESIGNED BY
Peter Holland
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THE AEROMODELLER PLANS SERVICE
38, CLARENDON RD., WATFORD, HERTS.
6/6
All woods are balsa unless otherwise stated
THIS IS A 1/4 SCALE REPRODUCTION OF THE PLAN. FULL SIZE PRINTS MAY BE OBTAINED FROM THESE OFFICES PRICE 7/- POST FREE. QUOTE PLAN No. RC/811.
Note: Prototype model used 2oz plastic fuel tank and 1·49cc ELFIN motor with washers under rear legs to give 8° downthrust
Screw bearers to F1 with 3/4" No4 csk woodscrews.
Oil stop plastic sponge.
1/2" sheet
1/8"x3/8" spruce wing bearers outside of fuselage.
Note: Face all bearing surfaces on wing/fuselage and tail/fuselage with wet and dry paper.
To check trim sides straightedge on bottom of tailplane
3/32" med hard
Fuselage Doubler
Front edge butts against rear face of F1.
1/8"x1/8" each side of fin. Sand to streamline shape
Rudder size for experienced flyers.
Rudder deflection 15° each way
3/32" med hard Fin and Rudder
Tape hinges
10 B.A. nut and bolt
18 s.w.g. wire. Bind other end to torque rod
Pin
20 s.w.g.
Neoprene tubing
20 s.w.g. wire bearing
1/8" dia dowel
1/4" sheet let in rear
Tailplane seat. 3/32" sheet top and rear. 1/8" sheet sides
Hook for escapement rubber.
Slot in port side only
3/32" med hard tailplane
1/4" sheet cowl cheek
1/2" sheet bearer platform, fill in and base
3¼" dia sponge rubber wheels
1/4" sheet between sides
Cut slot in base for U/C seat.
Wire dowels across fuselage for U/C rubber bands.
1/4" sheet base
Silk tape front and rear of base
Fuselage top, bottom and sides from 1/16" hard sheet.
Position of bearers
Bearer platform 1/2" sheet.
Cowl base 1/2" sheet.
Chamfer to dotted lines
Slot for U/C seats
Cowl assembly
1/2" or 1¼" sponge rubber wheels
Bearer platform. Cement bearers to platform and cowl cheeks with glass fibre resin
Hollow platform as clear engine crankcase.
Note that doubler butts against rear face of F1
Wing bearers
1/16" dia dowel
1/16" dia dowel
18 s.w.g. hook for escapement rubber.
3/16" sq. hardwood bearers
1/16" dia. dowel
Doublers
Cowl cheeks
Bearers
Bearer platform
Fill in
Base
Section A-A
Bend tap forward.
12 s.w.g. piano wire U/C
Bind and solder 18 s.w.g. wire across front.
Hard 1/8" sheet bonded to U/C
To suit wheel hub.
Sketch of former construction
F6
F5
F4
F3
F2
F5 and F6 from 1/8"x1/8" strips.
F4 and F3 from 1/8"x3/8" strips.
F2 from 1/8" sheet left to bottom line - - this line and chamfered to dotted line
F1 1/8" ply
Drill former for U/C binding
Z coils
10 s.w.g. piano wire
To suit wheel hub.
Wing rib 12 off 3/32" sheet
3/8" sq. or moulded L.E.
Heavyweight glass fibre tape applied with fibre glass resin, or centre section.
Soak wing dorsal in fibre glass resin
1/16" dihedral
1/8"x1/8" let in between ribs
Block tips
1/8"x1/8" webs between ribs
Cover complete wing with 1/16" soft sheet.
Wing building procedure
Place 1/16" sheet butt jointed on plan between L.E. and T.E. and mark position of ribs and webs. Add 1/8"x1/8" backing to L.E., ribs and webs. Allow to set before adding top sheet. Complete sheeting of port wing panel. Cut L.E. and T.E. in centre and pack up completed wing panel 3" at tip before sheeting top surface of stbd wing panel. Complete wing by adding block tips and glass fibre tape and resin to convex section.
1/8"x1/8" webs between ribs
1/8" gusset
1/8"x1/2" T.E.
Published R.C.M.&E. December 1961
RC 811