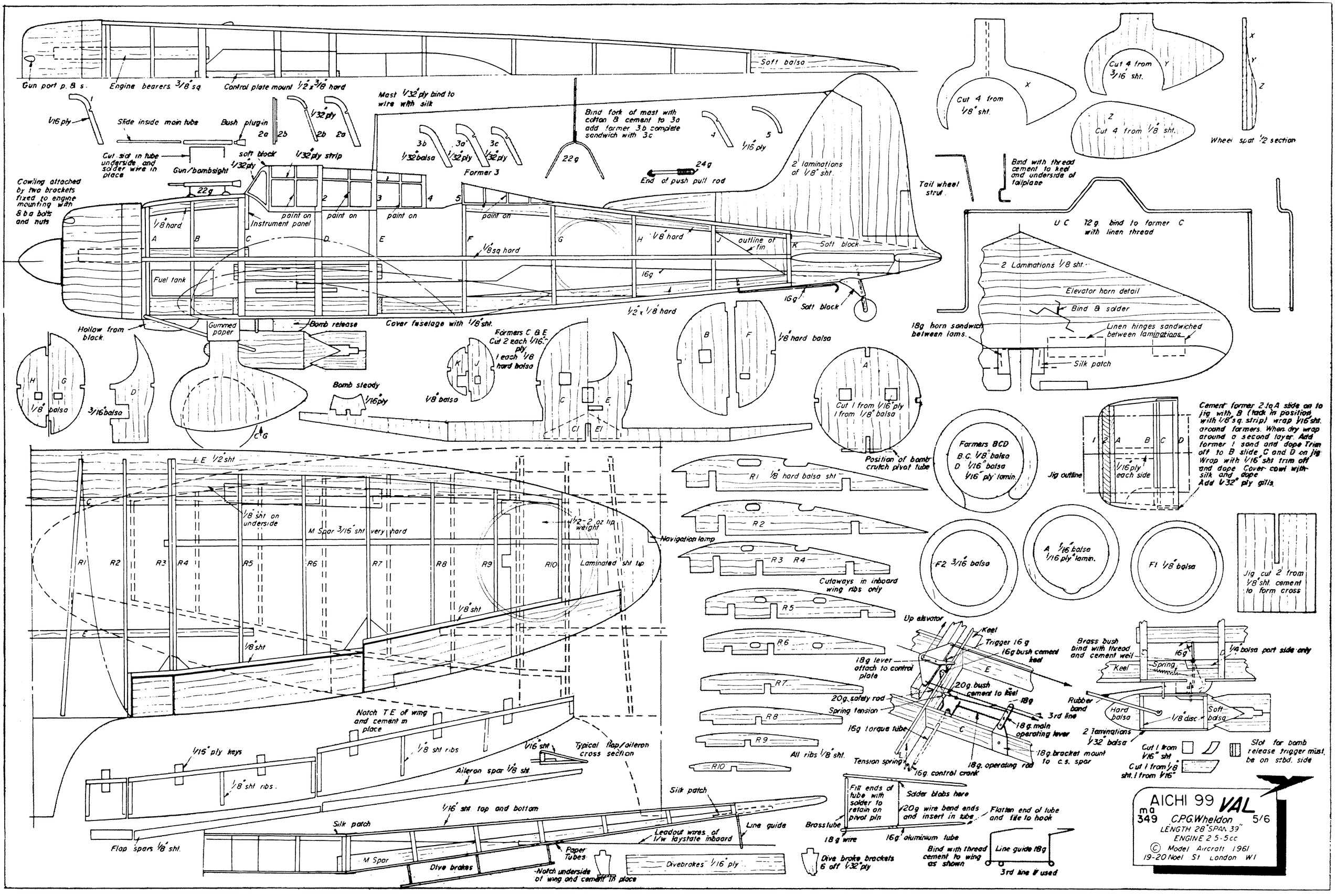

Gun port p. & s.
Engine bearers 3/8" sq.
Control plate mount 1/2" x 3/8" hard
Soft balsa
Mast 1/32" ply bind to wire with silk
Bind fork of mast with cotton & cement to 3a add former 3b complete sandwich with 3c
1/16" ply
Slide inside main tube
Bush plug-in
1/32" ply
Cut slot in tube underside and solder wire in place
Gun/bombsight
soft block
1/32" ply strip
1/32" balsa
Former 3
22g
24g
End of push pull rod
2 laminations of 1/8" sht.
Cowling attached by two brackets fixed to engine mounting with 8 b.a bolts and nuts
1/8" hard
Instrument panel
paint on
1/8" sq hard
outline of fin
Soft block
Fuel tank
16g
1/2" x 1/8" hard
Hollow from block
Gummed paper
Bomb release
Cover fuselage with 1/8" sht.
Formers C & E Cut 2 each 1/16" ply 1 each 1/8 hard balsa
1/8" hard balsa
Bomb steady
1/16" ply
1/8" balsa
3/16" balsa
Cut 1 from 1/16" ply 1 from 1/8" balsa
Position of bomb crutch pivot tube
Cut 4 from 1/8" sht.
Cut 4 from 3/16" sht.
Cut 4 from 1/8" sht.
Wheel spat 1/2 section
Tail wheel strut
Bind with thread cement to keel and underside of tailplane
U C 12g bind to former C with linen thread
2 Laminations 1/8 sht.
Elevator horn detail
Bind & solder
18g horn sandwich between lams.
Linen hinges sandwiched between laminations
Silk patch
Cement former 2 to A slide on to jig with B (tack in position with 1/8" sq. strip) wrap 1/16" sht. around formers. When dry wrap around a second layer. Add former 1 sand and dope Trim off to B slide C and D on jig Wrap with 1/16" sht trim off and dope Cover cowl with silk and dope Add 1/32" ply gills
Formers BCD B.C. 1/8" balsa D 1/16" balsa 1/16" ply lamin.
Jig outline
1/16" ply each side
F2 3/16" balsa
A 1/16" balsa 1/16" ply lamin.
F1 1/8" balsa
Jig cut 2 from 1/8" sht. cement to form cross
L E 1/2" sht
1/8" sht on underside
M Spar 3/16" sht very hard
1/2-2 oz tip weight
Navigation lamp
Laminated sht tip
1/8" sht
Cutaways in inboard wing ribs only
R1 1/8" hard balsa sht
R2
R3 R4
R5
R6
R7
R8
R9
R10
All ribs 1/8" sht.
Up elevator
Keel
Trigger 16 g
16g bush cement keel
18g lever attach to control plate
20g bush cement to keel
20g safety rod
Spring tension
16g torque tube
18g
3rd line
18g main operating lever
18g bracket mount to c.s. spar
Tension spring
16g control crank
18g operating rod
Brass bush bind with thread and cement well
1/4" balsa port side only
Spring
Rubber band
Hard balsa
1/8" disc
Soft balsa
2 laminations 1/32" balsa
Cut 1 from 1/16" sht
Cut 1 from 1/8" sht. 1 from 1/16"
Slot for bomb release trigger must be on stbd. side
Notch T E of wing and cement in place
1/16" ply keys
1/8" sht ribs
1/16" sht
Typical flap/aileron cross section
Aileron spar 1/8" sht
1/8" sht ribs
1/16" sht top and bottom
Silk patch
Flap spars 1/8" sht.
M Spar
Dive brakes
Paper Tubes
Notch underside of wing and cement in place
Leadout wires of 1/w laystate inboard
Line guide
Divebrakes 1/16" ply
Dive brake brackets 6 off 1/32" ply
Fill ends of tube with solder to retain on pivot pin
Solder blobs here
20g wire bend ends and insert in tube
Flatten end of tube and file to hook
Brass tube
18g wire
16g aluminium tube
Bind with thread cement to wing as shown
Line guide 18g
3rd line if used
AICHI 99 VAL
ma 349
C.P.G. Wheldon
5/6
LENGTH 28" SPAN 39"
ENGINE 2.5-5cc
© Model Aircraft 1961
19-20 Noel St London W1