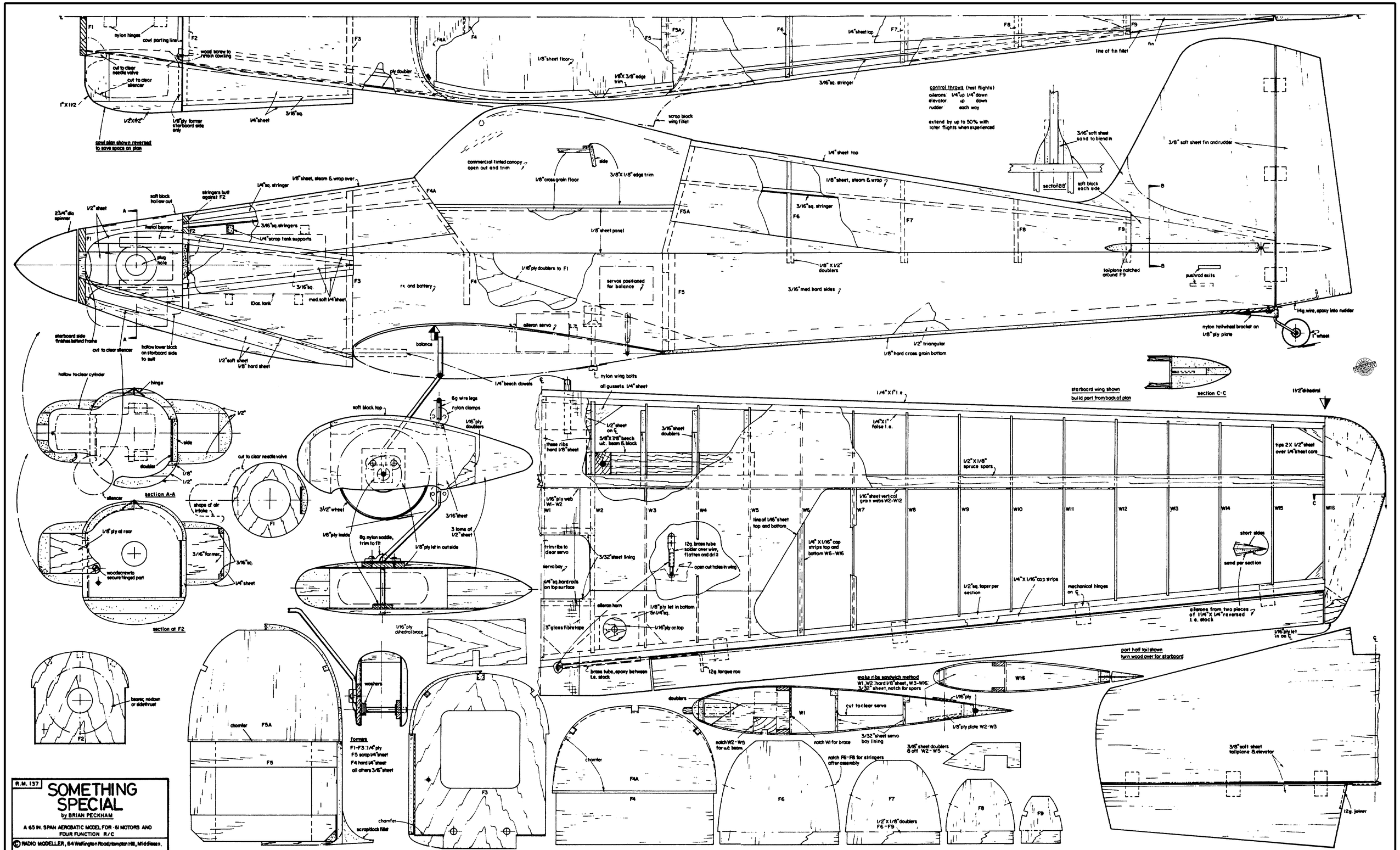
R.M. 137
SOMETHING SPECIAL
by BRIAN PECKHAM
A 65 IN. SPAN AEROBATIC MODEL FOR 6I MOTORS AND FOUR FUNCTION R/C
© RADIO MODELLER, 64 Wellington Road, Hampton Hill, Middlesex.
control throws (test flights)
ailerons 1/4" up 1/4" down
elevator up down
rudder each way
extend by up to 50% with later flights when experienced
cowl plan shown reversed to save space on plan
starboard side finishes behind frame
hollow to clear cylinder
section A-A
section at F2
section B-B
section C-C
starboard wing shown
build port from back of plan
1 1/2" dihedral
port half tail shown
turn wood over for starboard
formers
F1-F3: 1/4" ply
F5 scrap 1/4" sheet
F4 hard 1/4" sheet
all others 3/16" sheet
make ribs sandwich method
W1, W2: hard 1/8" sheet, W3-W16: 3/32" sheet, notch for spars
notch W2-W5 for u.c. beam
notch W1 for brace
notch F6-F8 for stringers after assembly
3/16" sheet doublers 8 off W2-W5
1/2" x 1/8" doublers F6-F9
3/8" soft sheet tailplane & elevator
12g. joiner
ailerons from two pieces of 1 1/4" x 1/4" reversed t.e. stock
short sides
send per section
mechanical hinges on ℄
1/2" sq. taper per section
1/4" x 1/16" cap strips
tips 2 x 1/2" sheet over 1/4" sheet core
1/16" sheet vertical grain webs W2-W12
1/2" x 1/8" spruce spars
line of 1/16" sheet top and bottom
1/4" x 1/16" cap strips top and bottom W6-W16
12g. brass tube solder over wire, flatten and drill
open out holes in wing
1/8" ply let in bottom on 1/4" sq.
1/16" ply on top
3/32" sheet lining
trim ribs to clear servo
servo bay
1/4" sq. hard rails on top surface
aileron horn
3" glass fibre tape
brass tube, epoxy between t.e. stock
12g. torque rod
these ribs hard 1/8" sheet
1/2" sheet on ℄
5/8" x 7/8" beech u.c. beam & block
3/16" sheet doublers
1/4" x 1" false t.e.
1/4" x 1" l.e.
all gussets 1/4" sheet
nylon wing bolts
1/4" beech dowels
balance
aileron servo
1/2" triangular
1/8" hard cross grain bottom
nylon tailwheel bracket on 1/8" ply plate
1" wheel
14g. wire, epoxy into rudder
tailplane notched around F9
pushrod exits
3/16" med. hard sides
1/8" x 1/2" doublers
servos positioned for balance
1/16" ply doublers to F1
rx and battery
10oz. tank
med. soft 1/4" sheet
3/16" sq.
1/4" scrap tank supports
3/16" sq. stringers
stringers butt against F2
1/4" sq. stringer
1/8" sheet, steam & wrap over
soft block hollow out
metal bearer
plug hole
2 3/4" dia spinner
1/2" sheet
1/8" cross grain floor
commercial tinted canopy open out and trim
3/8" x 1/8" edge trim
1/8" sheet panel
1/8" sheet, steam & wrap
3/16" sq. stringer
1/4" sheet top
3/16" soft sheet sand to blend in
soft block each side
3/8" soft sheet fin and rudder
line of fin fillet
fin
1/4" sheet top
3/16" sq. stringer
1/8" ply doubler
1/8" x 3/8" edge trim
scrap block wing fillet
1/8" sheet floor
1/8" ply former starboard side only
1/4" sheet
3/16" sq.
cut to clear needle valve
cut to clear silencer
1" x 1 1/2"
1/2" x 1/2"
cut to clear silencer
hollow lower block on starboard side to suit
1/2" soft sheet
1/8" hard sheet
hinge
1/2"
side
doubler
1/8"
1/2"
silencer
1/8" ply at rear
3/16" former
3/16" sq.
woodscrew to secure hinged part
1/4" sheet
cut to clear needle valve
shape of air intake
3 1/2" wheel
soft block top
6g wire legs
nylon clamps
1/16" ply doublers
3/16" sheet
3 layers of 1/2" sheet
1/8" ply inside
8g. nylon saddle, trim to fit
1/8" ply let in outside
1/16" ply dihedral brace
washers
chamfer
F5A
F5
chamfer
scrap block fillet
chamfer
F4A
F4
F6
F7
F8
F9
F3
F2
F1
W1
W2
W3
W4
W5
W6
W7
W8
W9
W10
W11
W12
W13
W14
W15
W16
1/16" ply web W1-W2
1/4" x 1" l.e.
1/4" sq. stringer
3/16" sq. stringer
3/16" sq. stringers
1/4" scrap tank supports
1/16" ply doublers to F1
1/8" sheet, steam & wrap over
1/8" cross grain floor
3/8" x 1/8" edge trim
1/8" sheet panel
1/8" x 1/2" doublers
3/16" med. hard sides
1/2" triangular
1/8" hard cross grain bottom
1/4" beech dowels
nylon wing bolts
all gussets 1/4" sheet
1/2" sheet on ℄
5/8" x 7/8" beech u.c. beam & block
3/16" sheet doublers
1/4" x 1" l.e.
1/4" x 1" false t.e.
1/2" x 1/8" spruce spars
1/16" sheet vertical grain webs W2-W12
1/4" x 1/16" cap strips top and bottom W6-W16
1/2" sq. taper per section
1/4" x 1/16" cap strips
mechanical hinges on ℄
ailerons from two pieces of 1 1/4" x 1/4" reversed t.e. stock
short sides
send per section
tips 2 x 1/2" sheet over 1/4" sheet core
1/16" ply let in on ℄
3/8" soft sheet tailplane & elevator
12g. joiner
1/16" ply
1/8" ply plate W2-W3
3/32" sheet servo bay lining
cut to clear servo
doublers
W1
W16
1/2" x 1/8" doublers F6-F9
F4A
F4
F6
F7
F8
F9
F5A
F5
F3
F2
F1
bearer, nodown or sidethrust