

Italair F20 TWIN PEGASUS

BY DENNIS TAPSFIELD

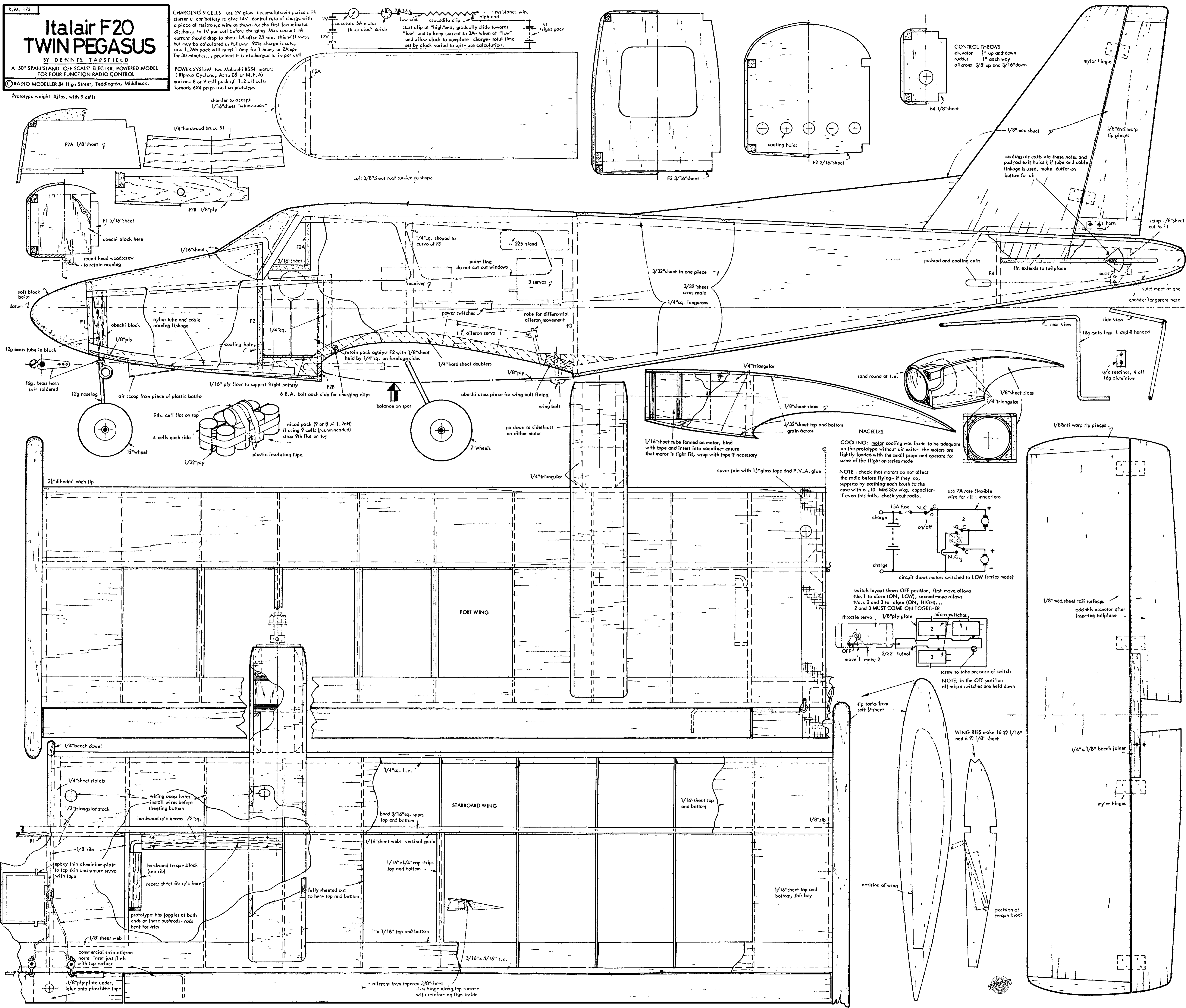
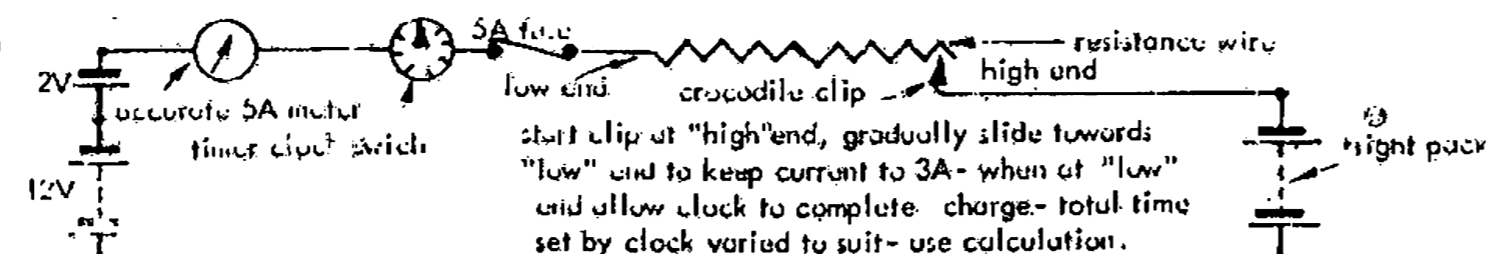
A 50" SPAN STAND OFF SCALE ELECTRIC POWERED MODEL FOR FOUR FUNCTION RADIO CONTROL

© RADIO MODELLER 84 High Street, Teddington, Middlesex.

Prototype weight: 41 lbs. with 9 cells

CHARGING 9 CELLS use 2V glow accumulator series with starter or car battery to give 14V control rate of charge with a piece of resistance wire as shown for the first few minutes discharge to 1V per cell before charging. Max current 3A current should drop to about 1A after 25 mins. this will vary, but may be calculated as follows: 90% charge is 1.2Ah, so a 1.2Ah pack will need 1 Amp for 1 hour, or 2Amps for 30 minutes... provided it is discharged to 1V per cell

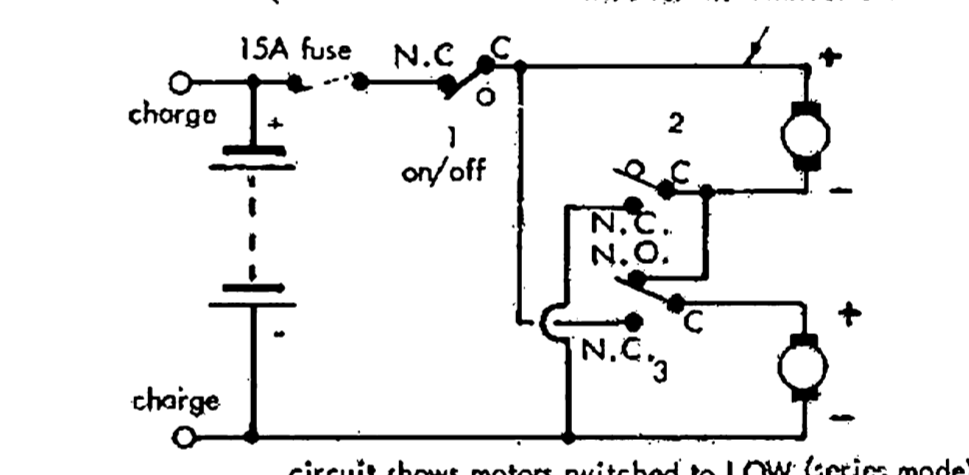
POWER SYSTEM two Mabuchi RS54 motor (Ripoux Cyclonic, Actro 05 or M.F.A) and one 8 or 9 cell pack of 1.2 c.H. cell. Turnado 6X4 props used on prototype



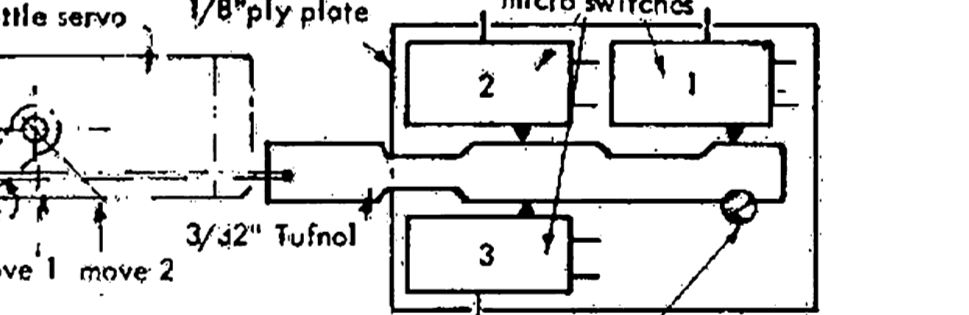
CONTROL THROWS
elevator 1/2" up and down
rudder 1" each way
ailerons 3/8" up and 3/16" down

COOLING: motor cooling was found to be adequate on the prototype without air exits - the motors are lightly loaded with the small props and operate for some of the flight on series mode

NOTE: check that motors do not affect the radio before flying - if they do, suppress by earthing each brush to the case with a .10 Mfd 30v wkg. capacitor - if even this fails, check your radio.



switch layout shows OFF position, first move allows No. 1 to close (ON, LOW), second move allows No. 2 and 3 to close (ON, HIGH)... 2 and 3 MUST COME ON TOGETHER



tip tanks from soft 1/8" sheet

WING RIBS make 16 @ 1/16" and 6 @ 1/8" sheet

position of wing

position of torque block

1/8" med sheet tail surfaces add this elevator after inserting tailplane

1/4" x 1/8" beech joiner

mylar hinges

12g main legs L and R handed

1/4" c restainer, 4 off 16g aluminium

12g noseleg

air scoop from piece of plastic bottle

9th. cell flat on top

4 cells each side

nicad pack (9 or 8 @ 1.2Ah) if using 9 cells (recommended) strap 9th flat on top

plastic insulating tape

12" wheel

21" dihedral each tip

1/4" triangular

1/16" sheet tube formed on motor, bind with tape and insert into nacelle - ensure that motor is tight fit, wrap with tape if necessary

cover joint with 1 1/2" glass tape and P.V.A. glue

no down or sid thrust on either motor

obechi cross piece for wing bolt fixing

balance on spar

6 B.A. bolt each side for charging clips

1/16" ply floor to support flight battery

12g noseleg

top brass horn soft soldered

soft block base datum 1

12g brass tube in block

round head wood screw to retain noseleg

obechi block here

1/16" sheet

1/4" sq. shaped to curve of F3

225 nicad

point line do not cut out windows

3 servos

3/32" sheet in one piece

3/32" sheet cross grain

1/4" sq. longerons

receiver

rate for differential aileron movement

aileron servo

1/4" hard sheet doublers

1/8" ply

retain pack against F2 with 1/8" sheet held by 1/4" sq. on fuselage sides

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