W2 W2 W2 W2 W1 W1 W1 W1 W1 W1 W1 W1 W1 W1 W1 W1 W2 W2 W2 W2

Cross section at tip

3/16" sq. spruce spars (top & bottom)

Brass cable inside of nylon or teflon tubing, solder Kwik-links to each end

1/8" ply dihedral brace

1/16" balsa webbing between spars grain vertical

1/16" balsa sheeting (top & bottom)

1/16" x 1/2" cap strip on bottom for aileron cable to be inserted through

1/16" x 1/4" cap strips (top & bottom)

1/16" balsa sheeting (top & bottom)

1/16" balsa sheeting (top & bottom)

1/4" x 1/2" spruce rails glued to top sheeting

1/2" T.E. stock

3/16" sq. spruce spars (top & bottom)

3/16" sheet balsa

W4

1/16" ply aileron horn backing

3/16" balsa block for hinge stiffener (3 places)

W3 W3 W3 W3 W3

3/16" balsa tips - grain chordwise

3/16" balsa stabiliser and elevator

3/8" sq. balsa L.E.

3/16" sq. spruce spars

W2

3/16" balsa

Mylar hinge or builders choice

W3

1/16" sheet balsa (top & bottom)

Brass cable inside of nylon or teflon tubing

Solder Kwik-link to brass cable

Jensen aileron horn cement securely between W3 and W4

1/16" sheeting

1/4" x 1/2" spruce rails

3/16" sq. spruce spars (4 places)

3/8" sq. L.E.

W5

W6

1/8" ply dihedral brace at front and rear spars. Epoxy in place

1/2" T.E. stock at centre section only

For Class I & II trainer use 6 degrees dihedral each panel
For Class II omit ailerons and use 4 degrees dihedral each panel
For Class III use 3 degrees dihedral.

W1 - 3/32" sheet balsa
14 required

W2 - 3/32" sheet balsa
8 required

W3 - 10 reqd. 3/32" balsa
W4 - 2 reqd. 1/16" ply

W5

W6

Dihedral braces made from 1/8" ply. 1 each reqd.

F1

Tank compartment

F2

Engine servo

Elevator servo

Rudder servo

F3

F4

1" x 1/4" T.E. stock

1/4" dowels

1/4" dowel

F4
3/16" balsa

Epoxy F1 & T.E. stock in place, coat inside of tank compartment wea.

1/16" ply hatch lock for rear hold down. Glue to hatch only

1/16" ply stiffener across hatch

3/8" balsa hatch

1/8" dowel hatch hold down

F1

Tank location

F2

C.G.

Switch location

Battery pack location

Receiver location

F3

F4

3/16" sheet balsa top

3/16" sheet balsa sides, top & bottom

F1
1/4" ply

3/16" sheet balsa fin & rudder

Fin extends to bottom of fuselage

Tail wheel arm sewn to rudder

3/16" sheet balsa bottom

1/16" i.d. brass tubing soldered to brass sheet stock & bolted to fuselage

1/16" piano wire for tailwheel

1" tail wheel

3/16" sheet balsa sides

3/16" sheet balsa doublers

F3
3/16" balsa

3/16" sheet balsa bottom

Use a .35 to .60 engine. No side or down thrust reqd. Engine mounted horizontal for better fuel flow. Use a radial mount on engine.

3/16" ply

1/8" ply L.G. stop

1/4" x 1/2" spruce servo mounts. Mount servo with sheet metal or wood screws

3/8" sheet balsa hatch cover

F2
3/16" ply

3/16" sheet balsa sides

3/16" sheet balsa doublers

2-3/4" Du-Bro wheels
2 degrees toe in each wheel mandatory

3/16" ply bottom at landing gear mount

Radio Control modeler Magazine

CIRCUS

Designed by	Don Dewey	Drawn by	C. Virga

0 1 2 3 4 5 6