Polikarpov Po-2

Designed by Christian Moes
A 37 3/8" span electric sport-scale model for 80W brushless outrunner & 3 function R/C

Sheet 1 of 2

Notch to suit at Final Assembly

3/32" sheet sides x2

1/2" dia.

3/32" sht

Nose blocks
1/4" sheet - x4

1/32" ply doublers - x2

Dummy engine backplate
1/32" ply

F7
3/32" sheet

F9
3/32" sheet

F10
3/32" sheet

1/8" Sq.

1/16" sheet

Fin & Rudder
3/32" sheet

3/32" X 1/8" stiffener

BALANCE POINT

Removable hatch

1/16" sheet

Soft Block - removable
for battery access

F4 F4

F4

1/16" sheet
Cockpit floor
(cross grain)

Clear plastic (typ)

1/16" sheet

F6 F7

3/32" x 3/16" top longerons

1/16" sheet

1/8" Sq. top stringer

F9

F10

F1 F2

Tailplane &
Elevators

Tapered wedge
basswood or ply

2° DOWN THRUST

3/8" Sq. pine
(or equiv.)

1/8" Sq. uprights

Elevator control horn
not shown in this view

1/8" stern post

Slots for control rods - to suit

E-Flite Park 300
used on prototype

Battery Pack

Rx & ESC
here

Servos

3/16" dowels

1/8" Sq. bottom
crossmembers

Rudder control horn
(opposite side)

Tail skid - dural

F3

1/16" ply

Slot for Rudder Control Horn

F1
1/16" ply

Soft block

3/32" ply

F5

F5

F8

1/4" triangle

U/C mounting strips
.025" dural - x4

Retain with screws

1/16" ply

1/16" sheet - cross grain

F4
3/32" sheet - x4

F6
3/32" sheet

1/16" sheet

bevel to suit
nose blocks

F2
1/8" sheet

bevel

Section View at Elevator control horn

3/32" fuselage side

1/32" ply doubler

F5
1/8" LitePly - x2

U/C mount
3/32" ply

F8
1/8" LitePly

Tailskid - 0.025" Dural
Bend as shown in side view

F3
1/8" LitePly

Top block - removable

Bottom block - glued in place

bevel top & bottom as shown in Side View

2 1/2" vintage wheels

TYPICAL WING CROSS SECTION

Bind & solder (typ)

3/16" dowel - Lower wing hold downs
(front dowel not shown in this view)

Control horns
1/32" ply - x2 Required

Top block

Lower wing

Notch as required to provide
clearance for control horn

Finished contour

top sheeting ends here

Rudder control horn

2° RIGHT THRUST

1/8" Sq. top stringer

1/8" Sq. bottom
crossmembers

1/8" Sq. uprights

Slot for Elevator control horn

Elevator control horn (bottom)

Tapered wedge
basswood or ply

3/32" x 3/16" top longerons

Laminate fuselage sides & nose blocks as shown

Bind & glue

Cabane struts - 14 SWG piano wire (see sht 2)

Cabane diagonal brace
not shown in this view

3/32" sheet fuselage sides

Tailplane shown this side only

1/4" triangle

Upper wing mount rails - 14 SWG piano wire - x2

ALL WOOD IS BALSA - UNLESS OTHERWISE NOTED