MODEL WORLD

MW3808

Fairchild PT-19

A sport-scale version of Fairchild's famous primary trainer powered by an inexpensive outrunner electric motor and using 4-channel RC

Sheet 1 of 2

Designed by Bill Browne

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Bottom magnet plate 1/8" liteply

Top magnet plate 1/8" liteply

Wing saddle 1/8" balsa

Velcro battery strap

Battery tray 1/8" liteply

F11 1/8" liteply

Windscreen pattern 1/32" birchply

R&E servo tray 1/8" liteply

Servo tray braces (x2) 1/8" balsa

Motor 400XT 3 degrees right & downthrust

Hatch locating peg 1/8" hardwood dowel

Hatch base 1/16" balsa (cross-grain)

Hatch from block balsa or foam

Approx. pilot size

Plastic tube or 1/8" hardwood dowel pylon flat plate on top

1/16" sq anchor

Notch top stringers at F7 for cockpit fairing

Exhaust vent

Exhaust vent

1/32" balsa

F11

1/32" balsa

1/32" balsa

Hatch guides 1/8" square balsa

Hatch magnets (top & bottom)

1/16" bass stringers

HS-55

1/8" balsa diagonals

Fuselage sides 1/32" basla

1/8" sq balsa

Fuselage sides 1/32" balsa

Wing saddle 1/8" balsa

F5

F6

Wing at fuselage side

C.G.

F1

F2

F3

F4

1/32" balsa bottom

1/16" sq anchor

Cooling vent

Wing saddle nests in F4

6" Propeller

Nose from balsa block or papier mache over foam

Fuselage sides (front and rear) 1/32" balsa

Fuselage side doubler (front)

8-32 nylon wing bolts (x2)

F7

1/8" balsa gusset

Card stock fillet

.032" (.81mm) music wire pushrods in plastic tubing. Brace tubing with scrap balsa at F7, F8 & F9

F8

1/8" sq balsa

1/16" sq bass stringers

F9

F10

Taper base longeron

Taper rudder post inside fuselage

Fin LE 1/8" x 1/4" balsa

1/8" sq balsa

V1

1/4" sq balsa

Rear fuselage sides 1/32" balsa (grain vertical)

Hatch floor

Hatch block

Hatch alignment strips

2" wheels

F1 1/8" liteply

F2 1/8" liteply

F3 1/8" liteply

F4a 1/8" liteply

F4b 1/8" liteply

1/8" sq balsa temp brace

F5 1/8" liteply

1/8" sq balsa temp brace

F6 1/8" liteply

F7 1/8" liteply

F8 1/8" liteply

F9 1/8" liteply

F10 1/8" liteply

Rudder TE from 3 laminates of 1/16" balsa

Red

White

Red

White

Red

White

Red

White

Red

White

Red

Dark Blue

1/8" sq horizontals & 1/16" x 1/8" diagonals

R1 1/8" balsa

1/4"

Cowl front pattern

Pylon hole guide

Fuselage cross-section at front of crash pylon

UC leg (x2) 3/32" music wire

Tail wheel strut 1/16" music wire

Elevator joiner 1/16' music wire

Outside fuselage doubler ends here

Groove 1/32" side so 1/16" sq stringers curve smoothly

Motor 400XT

1/8" sq balsa hatch alignments strips

Hatch retaining magnets

1/8" sq balsa siude-to-side diagonals F7 to F10, even with top longeron only

Bottom magnet plate goes under fuselage longeron

Top magnet plate goes between fuselage longerons

1/8" x 1/4" bass servo tray supports

1/8" lite ply R&E servo trays