KEILKRAFT

PHANTOM

21in (530mm) span Control Line Trainer

1 3/4" (45mm) diameter spinner

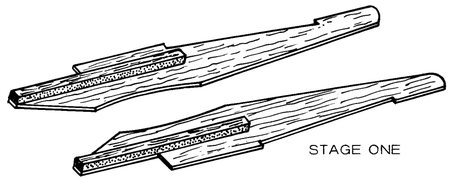
3/8" (10mm) sq hardwood engine bearers

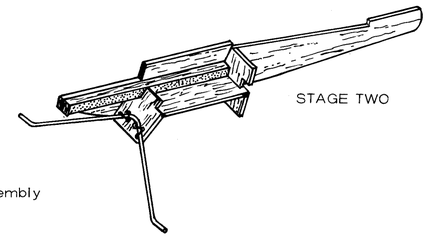
Ply line guide

20 gauge lead-out wires

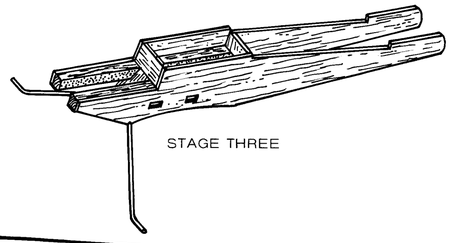
Ply dihedral braces

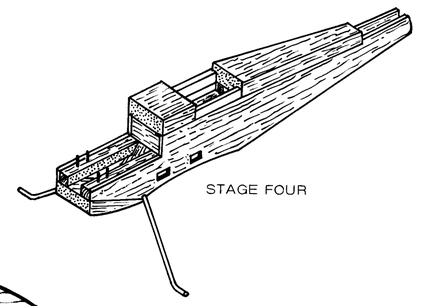
Typical wing section

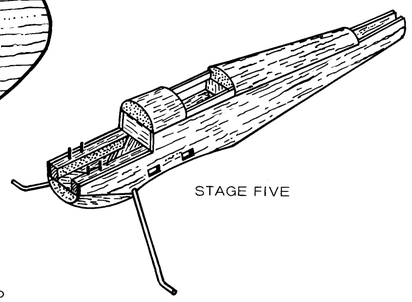




Sketches showing stages in fuselage assembly







Engine with integral tank shown installed.
If the engine you use has no tank, install separate tank in fuselage in position shown

Paint frame line on canopy

Canopy positioned farther back if separate fuel tank fitted

Front block

1/4"x3/16" (6 x 5mm)

F1A

Position for separate tank

Engine bearer

F2

Rear block

F1

Cut out*

Cockpit floor

Drain hole

Cut out*
*Left side only

Bottom block

BALANCE POINT

Bellcrank assembly

Fuselage bottom

Solder ends shut

Lock each pair of bolts by soldering a pin or piece of wire across slots in bolt heads

SIDE VIEW SHOWN WITH LEFT SIDE AND COWLING BLOCK REMOVED

Fillet from scrap balsa

F3

16 gauge wire pushrod

Elevator horn

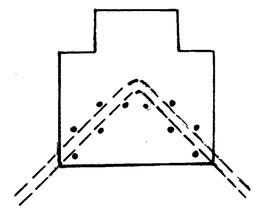
Cut rudder free along this line and cement back offset approx 15° to right

Tape hinges

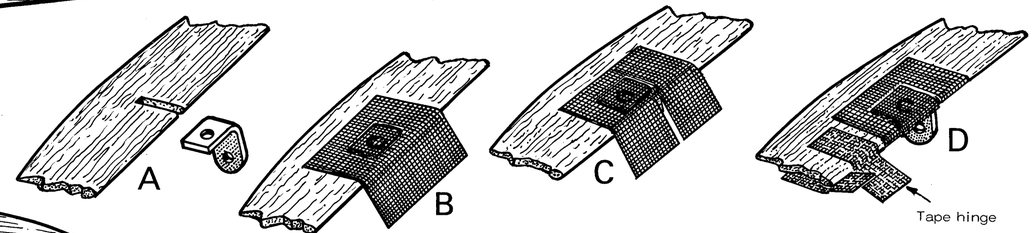
Cut elevator free along this line after shaping tailplane to section

Sketch showing cowling assembly

Cut cowling sides away to clear engine mounting lugs, also exhaust if necessary



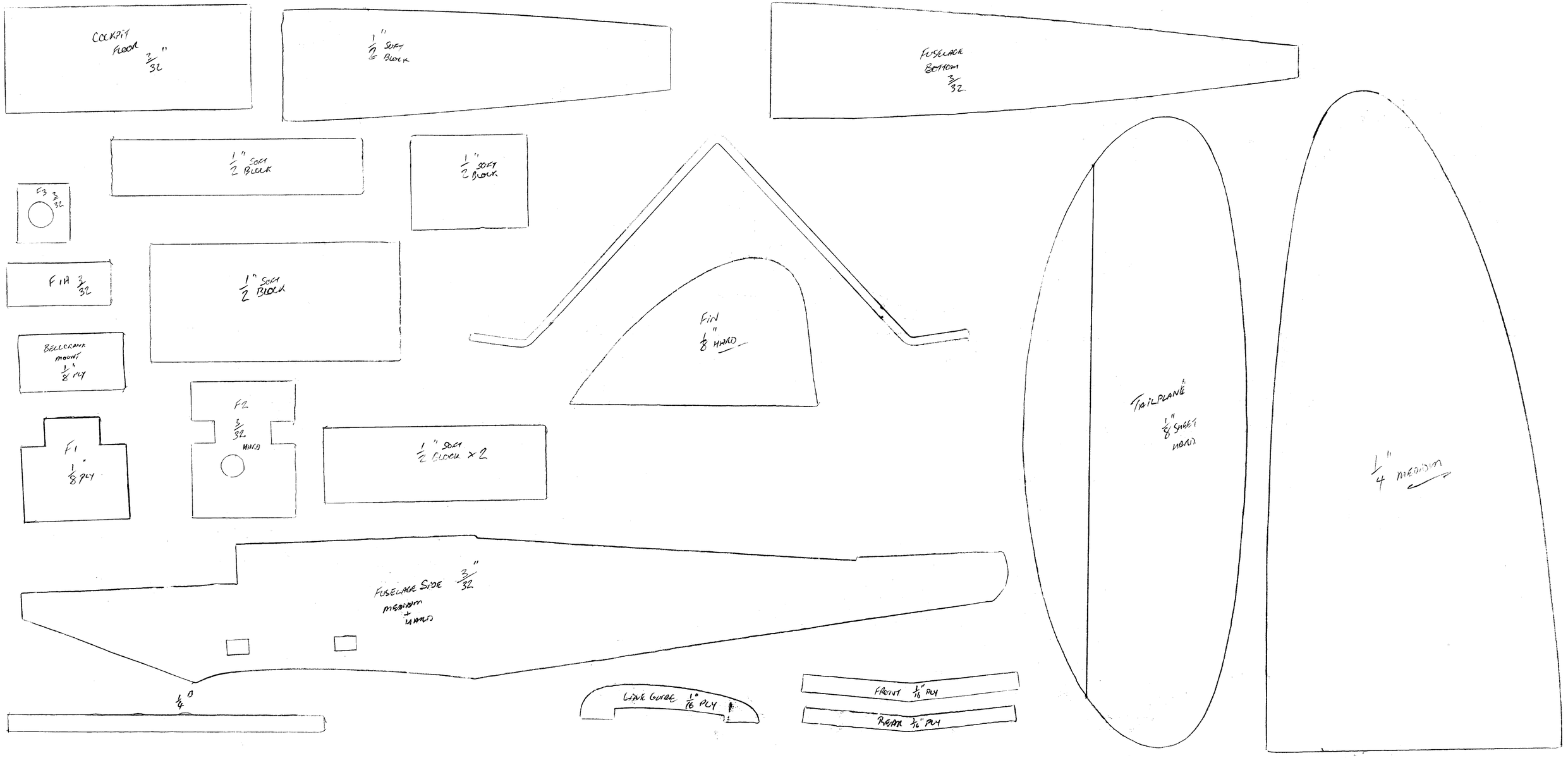
Drill small holes in F1 as above so that undercarriage wire can be bound in place



Tape hinge

Detail sketches showing mounting of elevator horn and hinges

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COCKPIT FLOOR 3/32"
1/2" SOFT BLOCK
FUSELAGE BOTTOM 3/32
1/2" SOFT BLOCK
1/2" SOFT BLOCK
F3 3/32
FIN 3/32
1/2" SOFT BLOCK
BELLCRANK MOUNT 1/8" PLY
FIN 1/8" HARD
F2 3/32 HARD
F1 1/8" PLY
1/2" SOFT BLOCK x 2
TAILPLANE 1/8" SHEET HARD
1/4" MEDIUM
FUSELAGE SIDE 3/32" MEDIUM HARD
1/4"
LINE GUIDE 1/16" PLY
FRONT 1/16" PLY
REAR 1/16" PLY