

2<sup>nd</sup>

# STILTFIN

The STILTFIN - designed by Jeffrie Selby of Greenfield Park, Quebec, Canada is the second place winner. Consider the many applications of this fin arrangement, either in its present form or modified to a more esthetic shape. Here is a method to easily convert that short bird (you've been meaning to replace those damaged fins anyway) to one of unusual appearance.

If you "scratch-build" this one, build the body tube portion as shown in standard 'chute recovered model rocket style. Mark the body tube for two fins and set the launching lug position half way between them on one side of the body tube as shown.

Trace all patterns onto stiff paper. Lay out the parts on the proper size balsa fin stock and cut them out. Lightly sand all parts before starting assembly. Glue the fins (F-1 & F-2) to the body tube. Glue the tail booms to the outer edges of the fins as seen in the side view. Glue a boom gusset on each side of the fin-boom joint as seen in the semi-assembled view. Set the assembly aside to dry while the tail fin unit is being put together.

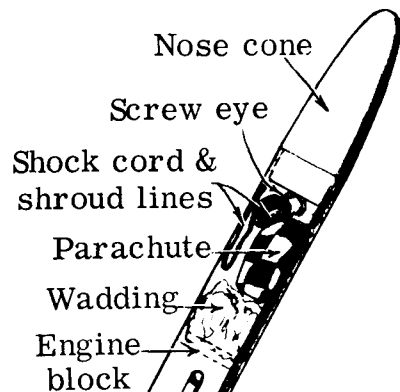
Apply a line of glue to the edge of Part T-2A and place against the inside edge of Part T-1A as seen in the semi-assembled view. Repeat this step with Part T-2B, placing it against the inside edge of Part T-1A as shown. Apply glue along the edges of Part T-1B and place it against the other end of parts T-2A & T-2B. Make sure this unit is square and allow the glue to set. Finally, glue Part T-3A & T-3B in their respective locations being sure they stick out at 90° from the parts to which they are mounted. Apply a line of glue along the bottom 2 inches of the outside edge of each tail boom and locate the fin unit as shown.

Sand all balsa surfaces once more and apply sanding sealer. Sand again and apply more sealer, repeating this step until the wood surfaces have become smooth to the sight and touch. Apply a base coat of white enamel and allow to dry. Your STILTFIN is now ready for the color and trim of your choice.

This model may be flown with any Series I single or upper-stage engine.

**PARTS LIST**

1 Body Tube	BT-20	1 Sheet Balsa Stock	BFS-20
1 Nose Cone	BNC-20B	1 Sheet Balsa Stock	BFS-30
1 Screw Eye	SE-2	1 Parachute Kit	PK-12
1 Shock Cord	SC-1	1 Engine Block	EB-20B
1 Launching Lug	LL-2B		



C/G  
W/engine

Wood grain direction is indicated by

Tail booms

Pattern for T-3A & T-3B

BFS-20

FULL SIZE PATTERNS

Trace onto stiff paper.

Pattern for T-1A & T-1B

BFS-20

Pattern for T-2A & T-2B

BFS-20

Fin Assembly

F-2

F-1

T-2A

T-3A

T-1A

BFS-20 (make 4)

Boom Gusset

T-1B

T-2B

T-3B

Pattern for F-1 & F-2

BFS-30

Tail Boom (make 2) BFS-30