





HALF-A

BY VINCE MICCHIA

SUPER SPORT TRAINER

The design goal for the 1/2A SST was to obtain the flight performance in a small, economical aircraft that is usually found only in the larger, more powerful R/C ships. Dozens of flights have proven that this little bird does just that.

There is an impressive speed differential between powered flight and glide. Several design factors contribute to this. These are the clean lines, an efficient wing with ample area, and overall light flying weight. Noticeably absent is the drag producing landing gear. To date there has been no problems with hand launching and landing on grass.

Another feature is the use of ailerons rather than rudder in a two channel ship. Besides smoother turns, ailerons allow a greater variety of maneuvers. Whether you want an aileron trainer or a super sport fun ship, you should give the SST a try!

Now for building this bird, we have placed the instructions, supplemented with illustrations, on the plans so there is no need to duplicate them in the text. The only thing we should mention concerns the wing. You can make templates for the airfoil and cut your own foam cores or you can buy a Sure Flite #206 constant chord wing kit for \$7.95.

We hope you will enjoy the 1/2A SST as much as we have.

1/2A SST

Designed By: Vince Micchia

TYPE AIRCRAFT

1/2A Sport Trainer

WINGSPAN

33 Inches

WING CHORD

6-15/16 Inches

TOTAL WING AREA

242 Square Inches

WING LOCATION

High Wing

AIRFOIL

Semi-Symmetrical

WING PLANFORM

Constant Chord

DIHEDRAL, Each Tip

3/16 Inch

O.A. FUSELAGE LENGTH

31-3/16 Inches

RADIO COMPARTMENT AREA

(L) 7 3/4" x (W) 1 7/8" x (H) 3"

STABILIZER SPAN

14 3/4 Inches

STABILIZER CHORD (incl. elev.)

3 3/4" (Average)

STABILIZER AREA

53 Square Inches

STAB AIRFOIL SECTION

Flat

STABILIZER LOCATION

Bottom Area of Fuselage

VERTICAL FIN HEIGHT

4 1/2 Inches

VERTICAL FIN WIDTH (incl. rudder)

4 1/4" (Average)

REC. ENGINE SIZE

.049 — .051 Cu. In.

FUEL TANK SIZE

Sullivan R-2 (2 oz.)

LANDING GEAR

None

REC. NO. OF CHANNELS

Two

CONTROL FUNCTIONS

Aileron and Elevator

BASIC MATERIALS USED IN CONSTRUCTION

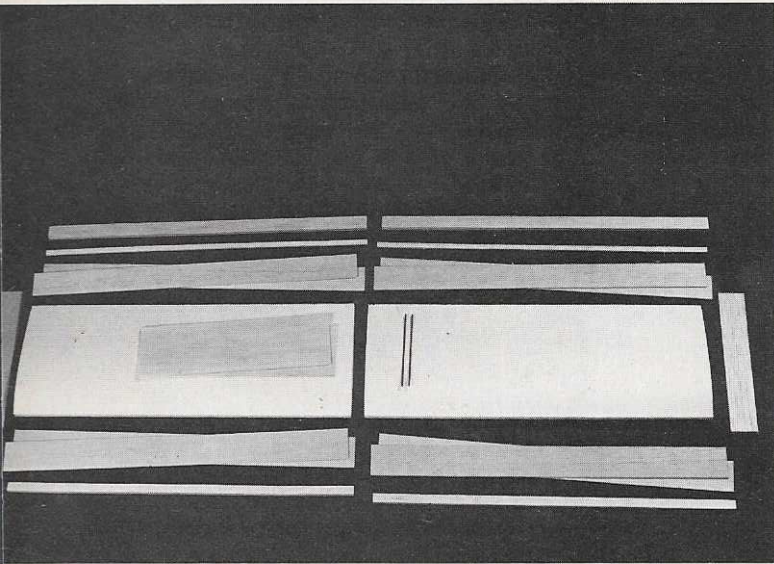
Fuselage Balsa and Ply

Wing Foam and Balsa

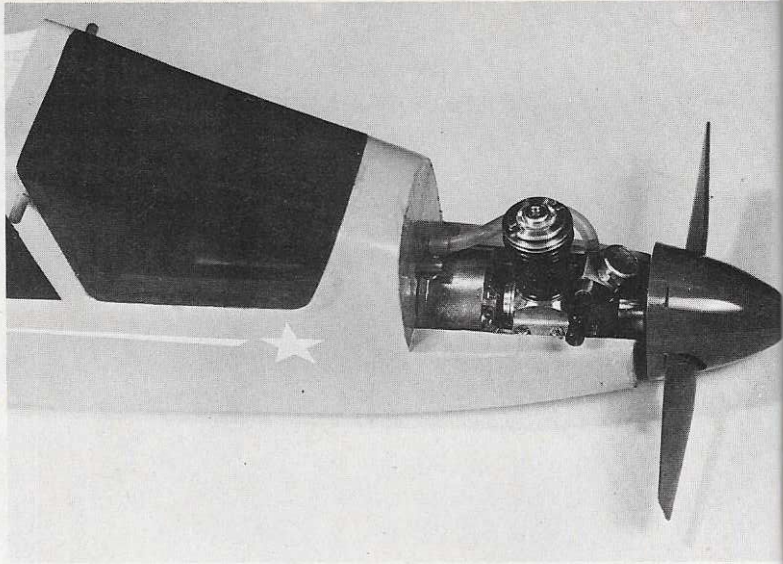
Empennage Balsa

Weight Ready-To-Fly 21 — 26 Ounces

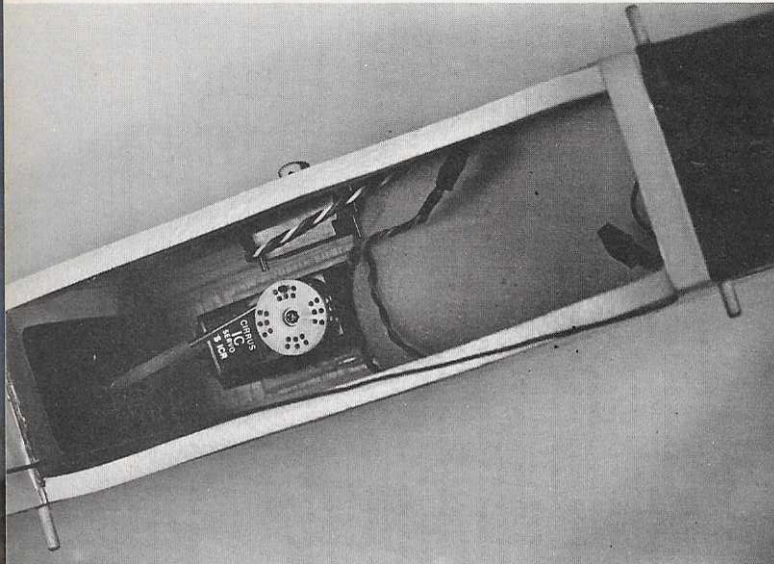
Wing Loading 12.5 — 15.4 Oz./Sq. Ft.



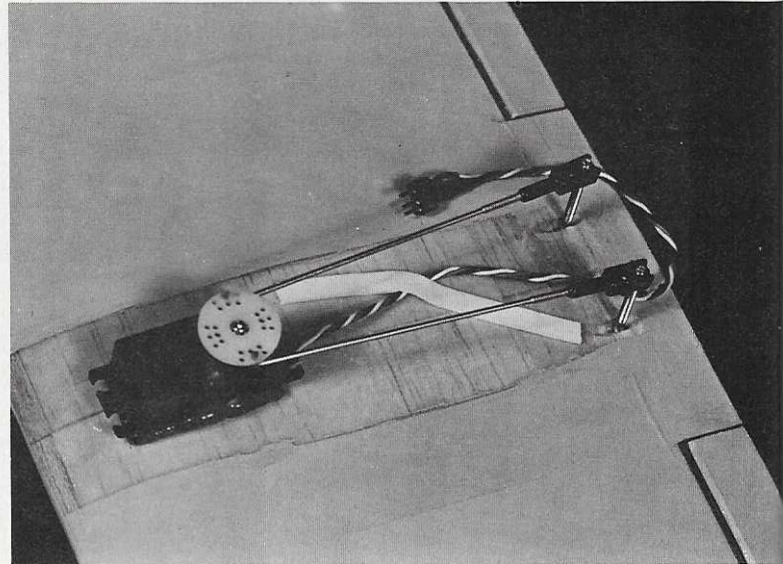
The SST wing cores can easily be cut, or are commercially available.



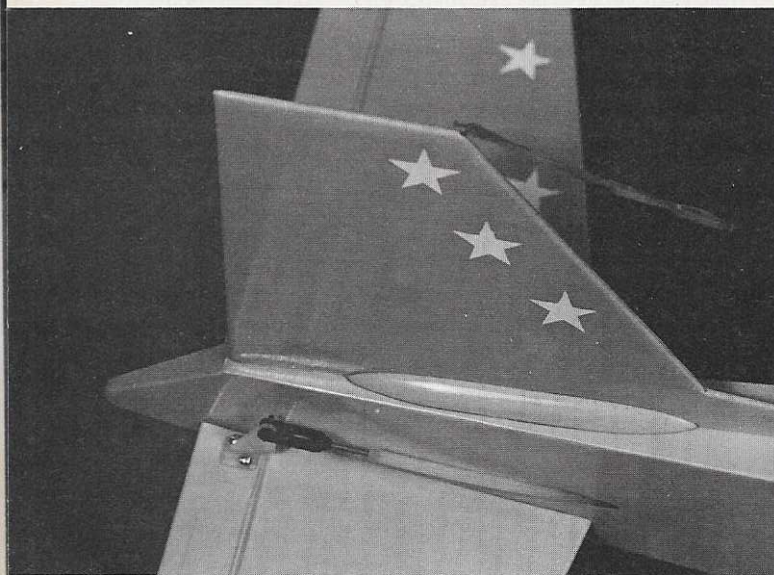
Cox .049 or .051 on Tatone mount is plenty of power for this low-drag machine.



Receiver packed in foam leaves plenty of room for the elevator servo.



Aileron servo installation and linkage in the foam core wing.



Gold'N-Rod pushrod connection from servo to elevator. Note vertical fin supports.



Fast building, good looking, and no frills make the SST an excellent aileron trainer or sport ship.