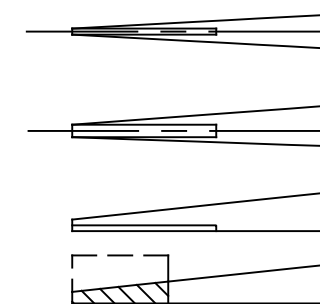
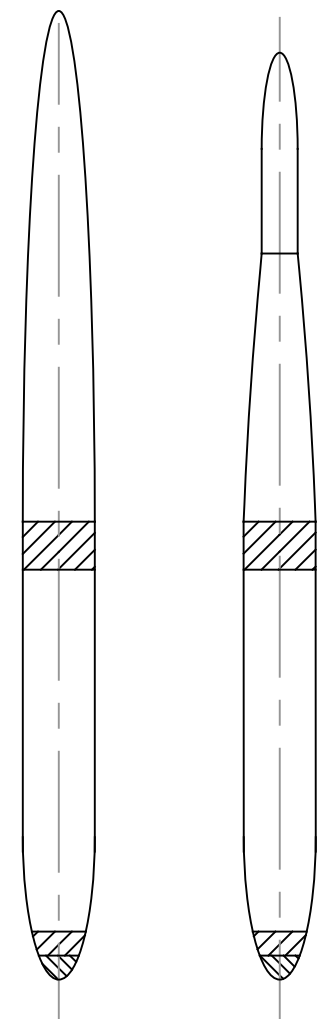


DUBRO / GOLDBERG TIP SKID  
MODIFIED FOR LEADOUT GUIDE  
USE LINE RAKE CALCULATOR  
ON NCLRA WEBSITE TO PLACE GUIDE

TRAILING EDGE OPTIONS:  
CARVE GROOVE WITH RAZOR SAW.  
INLAY  $\frac{1}{64}$  OR  $\frac{1}{32}$  PLY X  $\frac{3}{8}$ " WIDE STRIP.  
ON FLAT BOTTOM AIRFOIL, SAND RECESS  
INTO TRAILING EDGE BOTTOM, LAMINATE  
PLY TRAILING EDGE.  
SAND TO THE PLYWOOD FOR SHARP  
EDGE.  $\frac{1}{8}$  x  $\frac{1}{4}$  SPRUCE SANDED TO  
SHAPE IS ALSO COMMONLY USED.  
STRIP CAN BE MADE FROM 3 PLYS OF 5oz  
GLASS OR CARBON CLOTH, LAYED UP ON  
FLAT SURFACE. (VACUUM BAGGED  
PREFERABLE.)



$\frac{3}{8}$  Balsa  
TAPER TO  
TOP OF  
FUSELAGE



$\frac{3}{16}$  Balsa  
CANOPY TO  
DASHED LINE  
TAPER  
FUSELAGE INTO  
CANOPY  
SECTION

$\frac{1}{8}$  BASS OR  
 $\frac{1}{16}$  Balsa -  $\frac{1}{32}$  PLY -  
 $\frac{1}{16}$  Balsa SANDWICH  
FIN + RUDDER

FIBREGLASS ALL SURFACES  
PRIOR TO FINAL ASSEMBLY

$\frac{3}{16}$  OR  $\frac{3}{8}$  Balsa  
CANOPY AND TURTLEDECK  
SEE X-SECTIONS

WITH BOTTOM MOUNTED ELEVATOR  
HORN YOU MUST USE 'PUSH-TO-TRIP'  
FUEL SHUTOFF, OR WORK OUT A WAY  
TO 'PULL' FROM BELLCRANK OR  
ELEVATOR.

$\frac{1}{16}$  WIRE TAIL SKID

$\frac{1}{4}$  X  $\frac{3}{8}$  SPRUCE STRINGERS

$\frac{3}{8}$  Balsa FUSELAGE

$\frac{1}{16}$ " PLYWOOD DOUBLERS  
BEVEL AFT EDGES

HARDWOOD OR DOWEL  
INSERTS FOR LG HOLES

$\frac{1}{2}$ " Balsa CHEEK

FAIR NOSE AND  
CHEEK INTO  
NOSE RING

$\frac{3}{16}$  2024 ALUM  
MOUNT PLATE

$\frac{3}{8}$  x  $\frac{1}{2}$  MAPLE  
X2

BISCHOFF TANK AND SHUTOFF

$1\frac{1}{2}$  SPINNER SHOWN  
USE SPINNER OR SPINNER NUT  
OF YOUR CHOICE AND FAIR NOSE  
INTO IT

$1\frac{1}{2}$ " NOSE RING  
 $\frac{1}{32}$  PLY TO MATCH  
SPINNER

$\frac{1}{4}$  Balsa

$\frac{3}{8}$  x  $\frac{1}{2}$  MAPLE  
CARVE TO SHAPE

CUT AWAY FUEL TANK  
FLANGE AS REQUIRED

SCALE ELEVATOR END

$\frac{1}{32}$ " PLY STAB CORE  
CUT OUT FOR HINGES AND JOINER  
FACE WITH  $\frac{3}{32}$ " Balsa  
SAND TO AIRFOIL



Sport Scale Racer designed by Gerry van Dyk & Bill Bischoff  
© 2025 van Dyk / Bischoff  
structure based on Mayer / Bischoff designs

visit: <https://nclra.org/Plans>  
for other Sport Goodyear plans.

Bill Bischoff Racing Supplies. Fuel Tanks, Venturis  
Landing Gear, Shutoffs contact: [billbisch@hotmail.com](mailto:billbisch@hotmail.com)

Fuselage = 21.44"  
Wing Span = S 28.52"  
Stab Span = 12.09"  
Wing Area = S 151 in sq  
Stab Area = 32 in sq

# Al Williams' 28 W-18 Falcon