AIRCHILD

SPAN 54" WT. 3-3/4 TO 4 LBS
ENGINE .19 TO .25 4 CHANNELS
DESIGNED BY OWEN KAMPEN

INKED BY JOE DEMARCO

WING PLAN

3/8"x3/8" BALSA LEADING EDGE
1/4" DOWEL
1/16" PLY PLATE FOR STRUT ATTACH.
1/4" GUSSET
3/32" BALSA SHEET, TOP & BOTTOM WHERE SHOWN
1/8"x1/4" SPRUCE SPAR
TO SERVO
1/16" PLY
CAP STRIP
3/32" SHEET TOP & BOTTOM NOTE GRAIN DIRECTION
1/8" GUSSET
VERT. 1/8" WEB
SOFT BALSA FAIRING (SEE SIDE VIEW)
BOX FOR AILERON SERVO
1/8" PLY DIHEDRAL BRACE
JOINT LINE (BALSA SHEET)
1/8" VERT. WEBBING BETWEEN SPARS & RIBS
CUT DOWN HORN
3/32"x1/4" CAP STRIPS TOP AND BOTTOM OF ALL RIBS NOT SHEETED
GUSSET
JOINT LINE
AILERON SHEETED, 3/32" BALSA TOP & BOTTOM
AILERON HORN MOUNT 1/16" PLY
1/16" PLY HORN MT.
DRILL HOLES FOR 1/4" NYLON BOLTS
1-1/4" T.E. STOCK
1/4" WASHOUT AT EACH TIP RIB T.E.

TIP SECTION
1/8" PLY
1/8" PLY DIHEDRAL BRACES
R1A 1/4" BALSA
R1 1/4" BALSA
R2 1/4" BALSA
R3 1/8" & 1/4" BALSA
R4 1/8" BALSA
SAND TO POINT
HINGE AT TOP

STABILIZER
BUTT JOINT
1/4" BALSA
HINGE LOC.
ELEVATOR
TAPER
1/8"x1/4" SPRUCE
1/4" BALSA

O.S. MAX .20 SHOWN
1/8" LITE PLY
1/8" BALSA
1/8"x1/4" BRACE
4-6 OZ. TANK
FUSELAGE TOP VIEW
SCRAP BALSA
F N
F1
1/2"x1/4" BALSA
1/4"x1/4" DOUBLER
F2
F3
F4
F5
SIDE MOUNT ENGINE AS HIGH AS POSSIBLE ON F1.

NOTCH 1/8"x1/4"
STRINGER
F3B
1/8" BALSA
1/8" PLY DOUBLER
1/4" DIA
F2 1/8" PLY
F3A
1/8"
F3
1/8" BALSA OR LITE PLY
1/8"x1/2" STRINGERS
COVERING

F N 1/16" PLY
F1 1/4" PLY
CAP STRIP
1/8" WEB
SPAR
L.E.
T.E.
TYPICAL SECTION AT R3

BE SURE C.G. IS NOT BACK OF POINT SHOWN. MODEL IS VERY FAST ON A S.T. .23, A GOOD .19 GIVES MORE SCALE LIKE PERFORMANCE.

WINDSHIELD PATTERN
.015 ACETATE
(CUT OVERSIZE AND TRIM TO FIT)

1/4" DOWEL
ROUNDED SOFT BLOCK
F3A
F3B
1/4" PLY WING HOLD-DOWNS, TAP FOR BOLTS
R1A
W1
W2
W3
1/4"x1/4" DOUBLER
BALANCE
1/8"x1/4" SPRUCE OR HD. BALSA
1/4" BALSA, TAPER FROM 2" TO 1/2"
FILLET
F3
F4
F5
BLOCK FILLET
1/8" SHT FILLETS FOR SMOOTHER COVERING
1/8" BETWEEN SIDES STABILIZER SEAT
1/8"x1/4" BRACE
1/16" M.W.
1" WHEEL
2 - 1/8"x1/2" STRINGERS (SAND IN TAPER) SEE CROSS SEC. AT F3
3/4" BLOCK HATCH
TRIM OPEN RIGHT SIDE TO SUIT ENGINE
3/32"
1/2"x1/4"
FN
F1
1/4" BALSA
BATT. & RCVR COMPT
LITE PLY CROSS PIECE
CABIN 1/8" LITE PLY
1/8" BALSA SIDES
LITE PLY L/G DOUBLER
LITE PLY SANDWICH-GLUE & SCREW
3/32" BOTTOM, CROSS GRAIN
1/2"x1/4" DOUB.
1/2" BALSA BLOCK
CARVE & SAND CORNERS TO ROUND SHAPE
STRUT ATTACH. POINT
NOTE: USE TATONE EXHAUST MANIFOLD INSTEAD OF MUFFLER
FOR GOOD FIT, TEMPORARILY MOUNT ENG. BEFORE ADDING NOSE BLOCKING AND F N

1/8" M.W.
A
A
3/32" M.W
EPOXY BEAD
1/8"
7/8"
1/8" SCRAP
PLY. INSET
LANDING GEAR SECTION AT A-A
2.75 WILLIAMS BROS. SMOOTH CONTOUR WHEELS

1/8" MUSIC WIRE
4-1/4"
4-3/4"
NOTE: REAR L/G (3/32" M.W) IS 1/4" LONGER THAN FRONT, SEE SIDE VIEW

OPTIONAL WING STRUTS, MAKE 2 FROM 3/4" T.E. STOCK
SAND TO STREAMLINE SECTION
METAL STRAP
1.75"-2" DIHEDRAL EACH WING

NOTE: WING & TAIL SET AT 0° INCIDENCE
BE SURE TO HOLD FULL UP ELEV. ON ALL TAXIING & ON TAKE OFF UNTIL FLYING SPEED IS ATTAINED.

F5 1/8" BALSA

0" 1" 2" 3" 4" 5" 6"