RIGHT WING

(Bottom view shown)

Wing Assembly Sequence Overview

--Assemble a center section panel inverted over the plans, ribs elevated with the upper surface washout stick. Install flap and flap servo. Sheet the lower surface. Then remove the washout stick.
--Assemble an outer panel also inverted over the plans with upper washout stick while W11 and W10 are clamped together. Remove the clamp after the glue sets. Install the aileron servo and linkage.
--Glue the aluminum wing tube in the outer panel.
--Sheet the lower surface of the outer panel.
--Turn the outer panel over. Elevate with the lower washout stick. Sheet the upper surface of the outer panel.
--Use the outer panel to align and glue the socket in the center section.
--Sheet the upper surface of the inner section while resting on the lower washout stick
--Repeat the above for the other wing.
--Join the center sections elevated as shown on the plans. Install the dihedral braces.

WING TIPS, 1" SHT (2)

AILERON SKIN, 3/32" SHT (4)

MAIN SPAR, 1/4" X 1" MEDIUM BALSA (4)

FIBERGLASS COWL & NACELLE FROM MICKO AIRCRAFT

C2, ATTACH TO F/W WITH 1/4" NYLON BOLTS
EPOXY TO COWL

3/8" PLY REMOVABLE FIREWALL

3-1/4"

16 OZ DUBRO OR SULLIVAN TANK HERE

N5

N7

TANK BOX REAR

WING BOLT SUPPORT,
1/8" LITE PLY (2)

1" X 2" LEADING EDGE

W1 W2 W3 W4 W5 W6 W7 W8 W9 W10 W11 W12 W13 W14 W15 W16 W17 W18 W19 W20

3/8" DOWEL

D1

RED GAS CAP, UPPER SURFACE

1/2" X 1-1/2" LEADING EDGE

COVER OUTER PANEL WITH 3/32" SHT

1/4" DOWEL

1/8" X 3/4" SQ LITE PLY

3/4" TRIANGULAR STOCK

1/8" SHT SHEAR WEB,
VERTICAL GRAIN

1/2" X 1/4" HARDWOOD SPAR

D2, UPPER & LOWER

D3, UPPER & LOWER

SIERRA RETRACTS

1/2" X 1" BASSWOOD SPAR, LOWER SURFACE
1/2" X 1" BALSA SPAR, UPPER SURFACE

1/8" SHT SHEAR WEB
VERTICAL GRAIN

1/4" X 1" BALSA SPARS

TILT W1 3°
USE THIS TEMPLATE

PANEL LINES

1/8" SHT SHEAR WEB

W13 PLY DOUBLER

1/4" SQ

1-1/4" O.D. ALUM TUBE

1-3/8" PHENOLIC TUBE

1/2" X 1/2" X 2" H'WOOD

SOCKET-HEAD MACHINE
SCREWS, UNDERSIDE ONLY
DRILL & TAP ALUM TUBE

DOOR

1/4" SQ SPARS

MORTISE END OF SPARS
HALFWAY THRU

1/8" X 1/4" SPAR

3/32" SHT SHEAR WEB

3/32" SHT AILERON SURFACES

Leave a gap here. Then cut aileron loose after sheeting both surfaces. Use a backless X-Acto razor saw.

Fill with ½" x 1" balsa between aileron ribs at aileron leading edge.

100± OZ-IN AILERON SERVO

NOTE: INNER PANEL COVERED W' 1/8" SHT,
AND OUTER PANEL COVERED W' 3/32" SHT.

3/32" SHT SHEAR WEB,
VERTICAL GRAIN

COVER INNER PANELS
W/ 1/8" SHT

W1 BOTTOM VIEW SHOWN

1/4" SHT SERVO MOUNT

100± OZ-IN FLAP SERVO

DOOR

ENLARGE AS NEEDED FOR WHEEL CLEARANCE

BALSA HINGE SUPPORT, TYP

ROBART HINGE POINT

SCALE UPPER SURFACE FREIZE AILERON HINGE LINE

1/4" DOWEL

1/8" X 3/4" SQ LITE PLY

KLETT OR DUBRO FLAP HINGES

WASHOUT STICK UNDER THIS SPAR

1/4" SHT SERVO MOUNT

100± OZ-IN FLAP SERVO

1/4" X 3/8" SPARS

3/32" SHEAR WEB

1/4"X24 NYLON WING BOLT(2)

SCALE RIB STITCHES

Place the washout stick here, halfway between the rear spar and the trailing edge of the aileron.

NB: 1-1/2" WASHOUT IN OUTER PANEL, NONE IN INNER PANEL

ALUMINUM TRIM TAB

WASHOUT STICK

REMOVE RIB MATERIAL AFTER SHEETING
AS REQUIRED FOR HORN CLEARANCE

WING BOLT SUPPORT

1/8" LITE PLY (2)
INSTALL BEFORE SHEETING

1/32 X 1/8" CARBON FIBER STRIP

Flap is a 3/32" sheet balsa core between two layers of 1/64" ply. Hinges are recessed into the 3/32" sheet core before gluing the layers together with epoxy finishing resin.

CONVENTIONAL AILERON SERVO INSTALLATION

1/16" ALUMINUM HORN

100 OZ-IN MINIMUM

BALL LINK PUSHROD RECOMMENDED

ROBART HINGE POCKETS RECOMENDED (NOT SHOWN)

SPANGENBERG AILERON CONTROL ROD

3/16" & 7/32" BRASS TUBING, BALL LINK, BOLT

±8°

AILERON SERVO TRAY,
1/8" PLY (2)

W10 W10
2-3/4" 2-3/4"

ELEVATE 2-3/4" AT W10 WHEN JOINING WING PANELS

0 1 2 3 4 5 6 7 8 9 10 11 12

0 1 2 3 4 5 6 7 8 9 10 11 12

Ki 45 DRAGON SLAYER, "Nick"

Designed and drawn by David P. Andersen