ESPRIT

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0 1 2 3 4 5 6

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1/16 Sheet Fill In Between Ribs On Bottom, 3/32 Sheet On Top
Top Sheet Omitted For Clarity
Trailing Edge From Hard 1/8 Sheet - Use Jig As Shown
1/8 D. M.W.
1
.045 D. M.W. Scrap Sheet
Epoxy Wires To Sheet - Insert Blank Carve & Sand Taper Using Wires As Guide
Double Cement Break Joints
Alternate Tip T.E. Cut From 1/8 Sheet Join As Shown & Taper
Notch 1/8 Deep X 3/32 Wide For Ribs Use Warding File
Tip Washout NOT Required But Must Not Wash-In
Assemble Wing & Tail With TITEBOND Glue
3/32 X 1/8 Balsa Tip Rear Spars Top & Bottom
1/8 X 1/4 Balsa Tip Front Spars
3/16 Sheet Balsa Tip
Sand Taper In Elevator On Bottom Surface Only To Maintain Straight Line For Full Span Top Surface Film Hinge
Alternate T.E. 3/32 Hard Sheet
1/16 X 3/16 Ribs
1/8 I.D. Brass Tubing - Use SIG Epoxy To Secure
1/4 Sheet Balsa Tip
Angle Root Rib 5° - Use Gauge Bevel L.E. & T.E Before Ass'y Spars When Complete
1/4 Sq. Spruce Center Panel Leading Edge Bevel Top Face Before Ass'y
1/8 X 1/4 Spruce Spars With 1/32 Vertical Balsa Webs
3/32 Sq. Hard Balsa Diagonals Don't Leave Out!
3/32 X 1/8 Spruce Spars With 1/16 Sheet Ties At Diagonals
Cut Thru These Ribs For Dihedral Braces
Tip False Ribs Are 3/32 Sheet Balsa Rectangles - Shape After Ass'y
1/4 Sq. Balsa Tip L.E.
10°
5°
8
110°
2 13/16
6 1/2
2 1/8
DIHEDRAL DETAIL - 1" = 10"
W-1 W-2A B C W-3 W-3A W-3 W-4 W-5 W-6 W-7 W-8 W-9
3/16 Sq. Balsa
Trim After Ass'y
Laminate Tip T.E. From 8 Pcs Of 1/8 Sq. Balsa - Taper When Dry
Cut Out After Ass'y
1/8 Dia. All Holes - Redrill 3/32 Dia. After Ass'y
Make 2 Without Spar Notches
3/32 Ply Root (4)
1/16 Ply - (2) Each These Ribs To Same Outline Stack Together For Cutting Drill Holes In Each Pair & Mark For Ass'y
W-1
W-2A
W-2B
W-2C
26 Req'd - Use W-2 As Template
W-3
Center Panel Ribs
W-3A
22 Req'd
3/32 Sheet Balsa
NOTE: Flying Surfaces On Original Models Covered With SOLARFILM
3/32 Sheet Balsa Grain Vertical 1 7/8 Wide Cut To Fit Between Spars
FRONT
REAR
Diagonal
1/16 X 3/8 Balsa Tie Glue To Spars & Diagonal
NOTE: Install Spar Webs & Ties Before Top Spar
SPAR DETAIL
L.Edge
Front Spar
Rear Spar
T. Edge
Dihedral Braces (2) Each - 1/16 Bass
Tip Ribs (2) Each 3/32 Sheet - Cut In Pairs
LEE
Assemble Fuselage With DEVCON 5 Min. Epoxy
W-4
W-5
W-6
W-7
W-8
W-9
V-TAIL NOTE: Model Turns TOWARD Down Elevon
1/8 Dia. (2)
3/16 Sheet Balsa
RUDDER
Right Panel Shown - Left Throws Reversed
ELEVATOR
Movements Shown For Independent Commands Without Trim - Simul Commands Will Increase Movements
L N R U N D
Handiwrap Over Shims
Work Surface
1/8 X 1/2
3/32 Shim At Rear
3/16 Sq.
1/8 X 1/4
WING CONSTRUCTION DETAIL
ELEVON CONTROL SET-UP
1/32 Gap
1.) Cover Top - Seal
2.) Fold Elevon & Cover Faces - Seal To Top Covering
3.) Reseal Top
SECT. A
SECT. B
SECT. C
Bend Latch From Pin
1/16 O.D. Alum. Tube Epoxy Firmly
REAR LATCH
1/8 Bass Front Holddown Epoxy Inside Hatch
1/4 Sheet Balsa Top
+3 1/2°
B
C
A
Ballast In Spinner Cap
3/32 X 1/4 Spruce Doubler
1/4 Triangular Stock Corners
Glue Root Rib To 1/8 Filler Rib Glue Ass'y To First Side & Drill Thru
Slit Side From F-2 Aft Along Bottom Edge Of Rib
Former Locations
1/8 Sheet Balsa To This Outline (2)
Slide Rail Ass'y
Bevel Inside
Taper Corner As Shown
1/4 Sheet Balsa Top Rear
BASIC SIDE ASSEMBLY
NOTE: Right Side Shown - Build up Left Opposite - Stack & Transfer Holes To Locate L.H. Root Rib
Lightweight Tapered Fiberglass Boom - .020" Wall
Balsa Fairing
+1/4°
Purchase Boom From AIRTRONICS P.O. Box 132, Sierra Madre, Cal. 91024 U.S.A.
Blind Nuts (2)
FULL SPAN PLASTIC FILM HINGE
Saddle Floor - 1/8 Ply
C Clam
5/32 D. Tubing For Spacers
2X 5/16 S.M.S.
.032 Aluminum Skid 3/8 Wide
1/8 Servo Mounting Tape
1/4 Ply Towhook Mount
4-40 Blind Nut
AIRTRONICS Fixed Towhook
Forward For Wind Or Slope Rearward For Dead Air
Floor
3/32 Sheet Balsa
Bevel
Switch Beside Servo Use Mounting Tape
Inside Hole On Single-Ended Arm GOLDBERG Mini-Snap & Rod
Mount Jack To Receiver
3/32 Min. With Elevator Servo Neutral
Floor
KB-4C 225mah Battery
KPR-3B Receiver
KPS-12 Servo
ELEVATOR
RUDDER
Pushrod
1/4 G-PAD
Wrap Pack & Receiver With SONIC-TRONICS Protec-A-Pac
1/16 X 1/4 Maple Rail
1/16 Mounting Tape
Use Long Double Arm Drill No. 48 For Pushrods
Coupler - Mount With 2-56 X 1/4 Screw
KRAFT INSTALLATION
Wrap Boom With Sandpaper & Contour Saddle Epoxy In Place - Align Carefully For Equal Dihedral
F-1
F-1A
F-2
F-3
1/4 Ply
3/32 Ply
Cut To Size After Drilling 1/2 Dia. Hole
3/32 Ply
Layout For KPS-12
Slide - .062 Alum.
No. 43 Drill
2-56 Tap (3)
3/32 Ply
3/32 X 1/4 Spruce
Servo Rail Ass'y (2)
Root Rib
1/8 Filler
TECHNICAL DATA PANEL

WING: Span - 84" (2135mm.) Flat
Area - 532 sq. in (34.3 sq. dm.)
Aspect Ratio - 13.2 : 1

FUSELAGE: O.A.L. - 37.5" (952 mm.)

FLYING WEIGHT: 19.96 oz. (567 gms.)

WING LOADING: 3.76 oz./100 sq. in.

FINISHED WEIGHT		
ITEM	Oz.	Gm.
Wing	6.0	170
Tail	0.88	25
Fuse.	4.59	130
Rods	.74	21
Ballast	.70	20
Radio	7.05	200

35°
GOLDBERG Short Horn - Use Outer Hole Drill No. 48 For Link
Saddle Side (2) 3/32 Ply
Laminate From 3 Pcs Of 1/8 Sq. Balsa
8" Dihedral Each Tip
Dihedral Block - 3/16 Sheet Balsa
1 3/8 Dia. WILLIAMS Spinner - Cut Off Rear Skirt & Drill - Mount Flange To F-1 With Epoxy & (3) 2X 1/8 Sheet Metal Screws
Drill No. 43
Fillets Build Up With SIG Epoxylite Or HOBBYPOXY Stuff
5/32 Dia. Tubing
Wing Mounts 1/8 Dia. M.W.
FRONT
REAR
Pushrod Threaded End
Coupler
1/8 Dia. Dowel 22 1/4" Long
Tap 2-56 X 1/4 Deep
1/8 I.D. Alum. Tubing 1" Long
Inner Golden-Rod 1/4" Long Epoxy In Tube & Tap 2-56
Slide Coupler - 3/8 Long - 2X Size - Pushrod Coupler - (4) Req'd
Make From Pushrod End
Control Link - L.H. Shown R.H. Opposite
2-56 X 1/2 Screw Eyelet
Wrap Couplers With Tape On One Pushrod To Prevent Electrical Noise
PUSHROD DETAIL