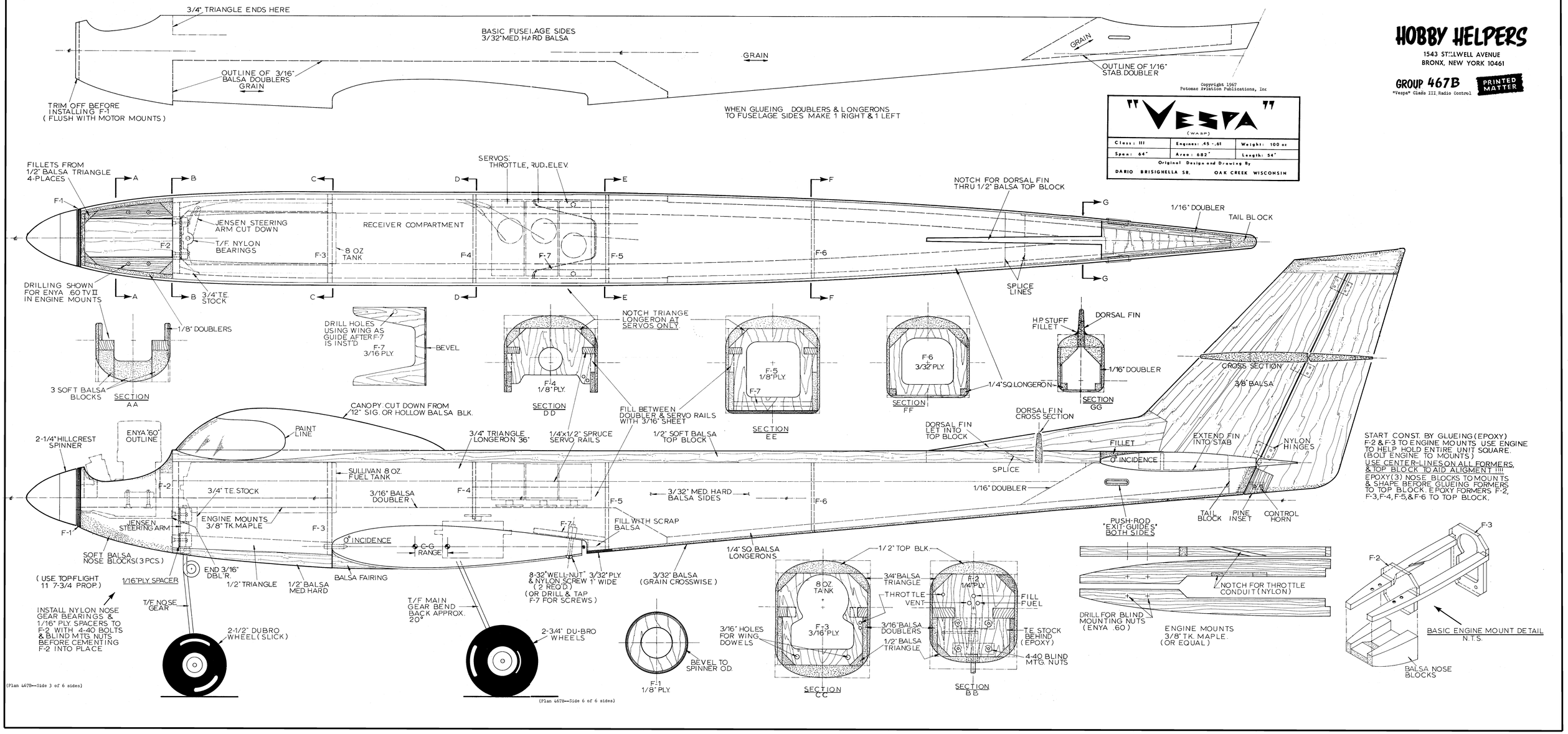
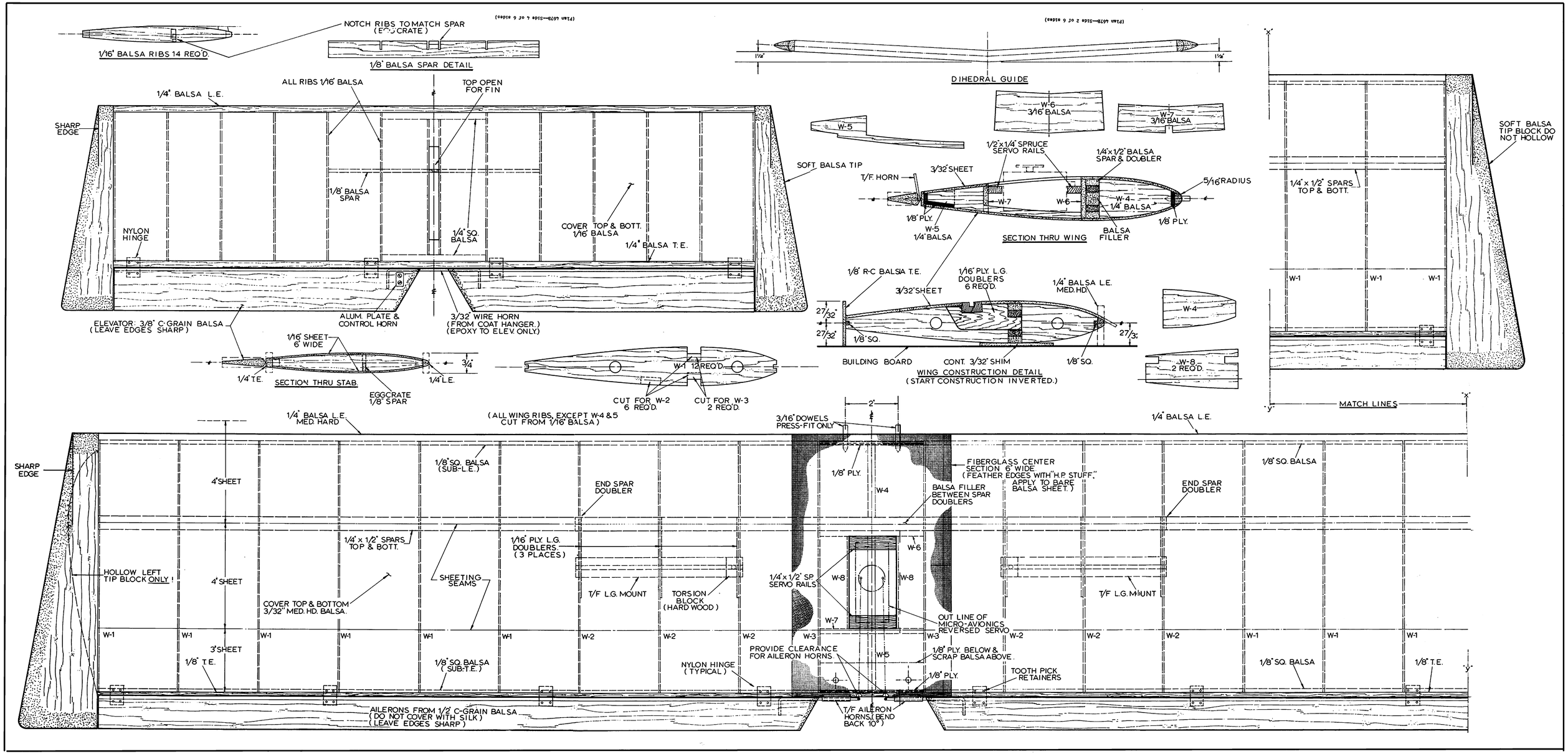

3/4" TRIANGLE ENDS HERE
BASIC FUSELAGE SIDES 3/32" MED. HARD BALSA
GRAIN
OUTLINE OF 3/16" BALSA DOUBLERS GRAIN
TRIM OFF BEFORE INSTALLING F-1 (FLUSH WITH MOTOR MOUNTS)
WHEN GLUEING DOUBLERS & LONGERONS TO FUSELAGE SIDES MAKE 1 RIGHT & 1 LEFT
OUTLINE OF 1/16" STAB. DOUBLER
HOBBY HELPERS
1543 STILLWELL AVENUE
BRONX, NEW YORK 10461
GROUP 467B
"Vespa" Class III Radio Control
PRINTED MATTER
Copyright 1967
Potomac Aviation Publications, Inc
"VESPA"
(WASP)
Class: III
Engines: .45 - .61
Weight: 100 oz
Span: 64"
Area: 682"
Length: 54"
Original Design and Drawing By
DARIO BRISIGHELLA SR.
OAK CREEK WISCONSIN
FILLETS FROM 1/2" BALSA TRIANGLE 4-PLACES
SERVOS: THROTTLE, RUD. ELEV.
NOTCH FOR DORSAL FIN THRU 1/2" BALSA TOP BLOCK
1/16" DOUBLER
TAIL BLOCK
JENSEN STEERING ARM CUT DOWN
T/F NYLON BEARINGS
RECEIVER COMPARTMENT
8 OZ TANK
F-1
F-2
F-3
F-4
F-5
F-6
F-7
DRILLING SHOWN FOR ENYA .60 TV II IN ENGINE MOUNTS
3/4" TE STOCK
1/8" DOUBLERS
SPLICE LINES
3 SOFT BALSA BLOCKS
SECTION AA
DRILL HOLES USING WING AS GUIDE AFTER F-7 IS INST'D
F-7 3/16 PLY.
BEVEL
NOTCH TRIANGE LONGERON AT SERVOS ONLY
F-4 1/8" PLY.
SECTION DD
F-5 1/8" PLY.
SECTION EE
F-6 3/32" PLY.
SECTION FF
H.P. STUFF FILLET
DORSAL FIN
1/16" DOUBLER
1/4" SQ. LONGERON
SECTION GG
CROSS SECTION
3/8" BALSA
CANOPY CUT DOWN FROM 12" SIG. OR HOLLOW BALSA BLK.
FILL BETWEEN DOUBLER & SERVO RAILS WITH 3/16" SHEET
DORSAL FIN CROSS SECTION
2-1/4" HILLCREST SPINNER
ENYA "60" OUTLINE
PAINT LINE
3/4" TRIANGLE LONGERON 36"
1/4" X 1/2" SPRUCE SERVO RAILS
1/2" SOFT BALSA TOP BLOCK
DORSAL FIN LET INTO TOP BLOCK
FILLET
EXTEND FIN INTO STAB
NYLON HINGES
0° INCIDENCE
SPLICE
SULLIVAN 8 OZ. FUEL TANK
3/4" TE STOCK
3/16" BALSA DOUBLER
3/32" MED. HARD BALSA SIDES
1/16" DOUBLER
JENSEN STEERING ARM
ENGINE MOUNTS 3/8" TK. MAPLE
FILL WITH SCRAP BALSA
PUSH-ROD "EXIT-GUIDES" BOTH SIDES
TAIL BLOCK
PINE INSET
CONTROL HORN
0° INCIDENCE
C-G RANGE
SOFT BALSA NOSE BLOCKS (3 PCS.)
1/4" SQ. BALSA LONGERONS
1/2" TOP BLK.
(USE TOP-FLIGHT 11 7-3/4 PROP.)
1/16" PLY SPACER
END 3/16" DBL'R.
1/2" TRIANGLE
1/2" BALSA MED HARD
BALSA FAIRING
8-32" WELL-NUT & NYLON SCREW 1" WIDE (2 REQ'D) (OR DRILL & TAP F-7 FOR SCREWS)
3/32" PLY.
3/32" BALSA (GRAIN CROSSWISE)
3/4" BALSA TRIANGLE
THROTTLE
VENT
FILL FUEL
3/16" HOLES FOR WING DOWELS
3/16" BALSA DOUBLERS
1/2" BALSA TRIANGLE
TE STOCK BEHIND (EPOXY)
4-40 BLIND MTG. NUTS
8 OZ TANK
F-3 3/16" PLY.
F-2 1/4" PLY.
SECTION CC
SECTION BB
INSTALL NYLON NOSE GEAR BEARINGS & 1/16" PLY. SPACERS TO F-2 WITH 4-40 BOLTS & BLIND MTG. NUTS. BEFORE CEMENTING F-2 INTO PLACE
T/F NOSE GEAR
2-1/2" DUBRO WHEEL (SLICK)
T/F MAIN GEAR BEND BACK APPROX. 20°
2-3/4" DU-BRO WHEELS
BEVEL TO SPINNER O.D.
F-1 1/8" PLY.
NOTCH FOR THROTTLE CONDUIT (NYLON)
DRILL FOR BLIND MOUNTING NUTS (ENYA .60)
ENGINE MOUNTS 3/8" TK. MAPLE. (OR EQUAL)
START CONST. BY GLUEING (EPOXY) F-2 & F-3 TO ENGINE MOUNTS USE ENGINE TO HELP HOLD ENTIRE UNIT SQUARE. (BOLT ENGINE TO MOUNTS)
USE CENTER-LINES ON ALL FORMERS, & TOP BLOCK TO AID ALIGMENT !!!!
EPOXY (3) NOSE BLOCKS TO MOUNTS & SHAPE BEFORE GLUEING FORMERS TO TOP BLOCK. EPOXY FORMERS F-2, F-3, F-4, F-5, & F-6 TO TOP BLOCK.
BASIC ENGINE MOUNT DETAIL N.T.S.
BALSA NOSE BLOCKS
(Plan 467B—Side 3 of 6 sides)
(Plan 467B—Side 6 of 6 sides)


(P2am 4678—Side 4 of 6 sides)
(P2am 4678—Side 2 of 6 sides)
NOTCH RIBS TO MATCH SPAR (EGGCRATE)
1/16" BALSA RIBS 14 REQ'D.
1/8" BALSA SPAR DETAIL
DIHEDRAL GUIDE
1/4" BALSA L.E.
ALL RIBS 1/16" BALSA
TOP OPEN FOR FIN
SHARP EDGE
1/8" BALSA SPAR
NYLON HINGE
1/4" SQ. BALSA
COVER TOP & BOTT. 1/16" BALSA
1/4" BALSA T.E.
ALUM. PLATE & CONTROL HORN
3/32" WIRE HORN (FROM COAT HANGER.) (EPOXY TO ELEV. ONLY.)
ELEVATOR: 3/8" C-GRAIN BALSA (LEAVE EDGES SHARP)
1/16" SHEET 6" WIDE
1/4" T.E.
SECTION THRU STAB.
1/4" L.E.
EGGCRATE 1/8" SPAR
3/4"
W-1 12 REQ'D.
CUT FOR W-2 6 REQ'D.
CUT FOR W-3 2 REQ'D.
SOFT BALSA TIP
W-5
W-6 3/16" BALSA
W-7 3/16" BALSA
1/2"x1/4" SPRUCE SERVO RAILS
1/4"x1/2" BALSA SPAR & DOUBLER
3/32" SHEET
T/F. HORN
5/16" RADIUS
W-7
W-6
W-4
1/4" BALSA
1/8" PLY.
W-5 1/4" BALSA
BALSA FILLER
1/8" PLY.
SECTION THRU WING
1/8" R-C BALSA T.E.
1/16" PLY. L.G. DOUBLERS 6 REQ'D.
1/4" BALSA L.E. MED. HD.
3/32" SHEET
27/32"
27/32"
1/8" SQ.
27/32"
BUILDING BOARD
CONT. 3/32" SHIM
1/8" SQ.
WING CONSTRUCTION DETAIL (START CONSTRUCTION INVERTED.)
W-4
W-8 2 REQ'D.
SOFT BALSA TIP BLOCK DO NOT HOLLOW
1/4" x 1/2" SPARS TOP & BOTT.
W-1
W-1
W-1
MATCH LINES
1/4" BALSA L.E. MED. HARD
(ALL WING RIBS, EXCEPT W-4 & 5 CUT FROM 1/16" BALSA)
3/16" DOWELS PRESS-FIT ONLY
2"
1/4" BALSA L.E.
SHARP EDGE
4' SHEET
1/8" SQ. BALSA (SUB-L.E.)
END SPAR DOUBLER
1/8" PLY.
W-4
FIBERGLASS CENTER SECTION 6" WIDE (FEATHER EDGES WITH "H.P. STUFF." APPLY TO BARE BALSA SHEET.)
BALSA FILLER BETWEEN SPAR DOUBLERS
END SPAR DOUBLER
1/8" SQ. BALSA
1/4" x 1/2" SPARS TOP & BOTT.
1/16" PLY. L.G. DOUBLERS. (3 PLACES)
W-6
HOLLOW LEFT TIP BLOCK ONLY!
4' SHEET
SHEETING SEAMS
T/F L.G. MOUNT
TORSION BLOCK (HARD WOOD)
1/4"x1/2" SP SERVO RAILS
W-8
W-8
T/F L.G. MOUNT
COVER TOP & BOTTOM 3/32" MED. HD. BALSA.
W-7
OUT LINE OF MICRO-AVIONICS REVERSED SERVO
W-1
W-1
W-1
W-1
W-1
W-1
W-2
W-2
W-2
W-3
W-3
W-2
W-2
W-2
W-1
W-1
W-1
3' SHEET
1/8" T.E.
1/8" SQ. BALSA (SUB-T.E.)
NYLON HINGE (TYPICAL)
PROVIDE CLEARANCE FOR AILERON HORNS.
W-5
1/8" PLY. BELOW & SCRAP BALSA ABOVE.
1/8" PLY.
TOOTH PICK RETAINERS
1/8" SQ. BALSA
1/8" T.E.
AILERONS FROM 1/2" C-GRAIN BALSA (DO NOT COVER WITH SILK) (LEAVE EDGES SHARP)
T/F AILERON HORNS. (BEND BACK 10°)