1/2" - EACH TIP

DIHEDRAL DETAIL
NO SCALE

1/4" X 3/8" (HARD) - LEADING EDGE

1/4" HARDWOOD DOWEL

3/32" SHEET - SERVO WELL

HARDWOOD SERVO MOUNTING RAIL

AILERON SERVO

1/16" SHEET (TOP & BOTTOM)

FOAM

REINFORCE CENTER SECTION WITH 3" WIDE FIBERGLASS CLOTH & RESIN (TOP & BOTTOM)

3/4" X 1-1/2" TIP BLOCK

FOAM WING ASSEMBLY

DUBRO NYLON HINGE

1/4" X 3/8"

AILERON TORQUE ROD ASSEMBLY

1/16" PLYWOOD PLATE (BOTTOM ONLY)

3/8" X 1-1/2" TAPERED STOCK - AILERON

3/8" X 1-1/2" TAPERED STOCK

ROOT TEMPLATE

MAKE FOAM CORE TEMPLATES FROM 1/16" ALUMINUM OR 3/32" PLYWOOD

TIP TEMPLATE

FOAM WING VERSION - RIB DETAILS

BRACE NOTCHES IN W1 RIB ONLY

W1

MAKE MASTER RIBS (W1 & W14) FROM 1/16" ALUMINUM OR 3/32" PLYWOOD

W14

BUILT-UP WING VERSION - RIB DETAILS

BUILT-UP WING RIB FABRICATION

1 SANDWICH 6 1/8" SHEET (W1-W6) & 8 3/32" SHEET (W7-W14) RIB BLANKS BETWEEN MASTER RIB TEMPLATES AND BOLT TOGETHER

2 CUT, SAND & NOTCH RIBS TO SHAPE

3 MAKE SECOND SET OF RIBS

1/2" SHEET-DOWEL BLOCK S.B. RIBS

1/4" HARDWOOD DOWEL

1/4" X 3/8" (HARD) - LEADING EDGE

1/16" SHEET (TOP & BOTTOM)

WB1

1/4" SHEET

WB2

1/4" SHEET

W1 W1 W2 W3 W4 W5 W6 W7 W8 W9 W10 W11 W12 W13 W14

3/4" X 1-1/2" TIP BLOCK

1/16" SHEET (TOP & BOTTOM)

1/2" SHEET SUB-RIBS

1/16" PLYWOOD BRACE

1/16" X 1/4" CAP STRIPS (TOP & BOTTOM)

BUILT-UP WING ASSEMBLY

1/8" X 1/4" SPRUCE SPARS (TOP & BOTTOM)

1/16 SHEET (TOP & BOTTOM)

1/4" X 3/8"

DUBRO NYLON HINGE

3/8" X 1-1/2" TAPERED STOCK - AILERON

1/16" PLYWOOD PLATE (BOTTOM ONLY)

AILERON TORQUE ROD ASSEMBLY

3/8" X 1-1/2" TAPERED STOCK

W1

W1

1/2" SHEET DOWEL BLOCK SUB RIBS, OMITTED FOR CLARITY

W2

WB1

W2

WB2

SKETCH OF WING CENTER SECTION - BUILT-UP WING
NO SCALE

STABILIZER

1/8" SHEET

ELEVATOR

1/16" PLYWOOD INSERT

DUBRO NYLON HINGE

CONTROL HORN

1/8" SHEET

1/4" PLYWOOD

F1

F2

F3

3/16" SHEET WITH 1/16" PLYWOOD LAMINATED - BOTH SIDES

3/16" SHEET WITH 1 LAMINATION OF 1/16" PLYWOOD ON ONE SIDE AND 2 ON THE OPPOSITE SIDE

CONTROL THROWS

ELEVATOR - 3/8" UP / 3/8" DOWN

AILERONS - NO DIFFERENTIAL - 5/8" UP/5/8" DOWN

1/32" PLYWOOD FUSELAGE DOUBLER

1/8" SHEET - FUSELAGE SIDE

BLIND NUT

1/8" PLYWOOD

NOTE FUSELAGE TOP SHEETING NOT SHOWN FOR CLARITY

1/4" Δ STOCK

F2

ELEVATOR SERVO

F3

LAMINATE NOSE BLOCK FROM 1/8" PLYWOOD & 3/8" SHEET

BATTERY PACK

RECEIVER

1/4" Δ STOCK

HARDWOOD SERVO MOUNTING RAILS

CUT SLOT IN HATCH

1/16" MUSIC WIRE - ARM (SOLDERED TO PIN)

NYLON TUBING - EPOXIED INSIDE FUSELAGE TOP

1/16" MUSIC WIRE - PIN

1/16" PLYWOOD - BEARING

WASHER - SOLDERED TO PIN & ARM

COMPRESSION SPRING

HATCH RETAINER PIN ASSEMBLY
NO SCALE

HATCH RETAINER PIN - SEE ASSEMBLY DETAIL

1/4" SHEET

1/4" Δ STOCK

ELEVATOR SERVO

1/4" SHEET - TOP

1/16" PLYWOOD - TONGUE (GLUE TO HATCH TOP)

1/8" PLYWOOD

1/4" Δ STOCK

NOTCH FIN INTO TOP SHEET FOR STRENGTH

FIN

1/8" SHEET

1/8" X 1/4" SPRUCE

NOSE BLOCK

LIGHTENING HOLE IN 1/32" PLYWOOD FUSELAGE DOUBLER

F2

F3

LIGHTENING HOLE IN 1/32" PLYWOOD FUSELAGE DOUBLER

CG RANGE

GOLDBERG NYLON CONTROL HORN (CUT DOWN AS SHOWN)

1/4" SHEET - BOTTOM

BATTERY PACK

1/4" SHEET

RECEIVER

1/4" Δ STOCK

LIGHTENING HOLE IN 1/32" PLYWOOD FUSELAGE DOUBLER

1/4" SHEET

1/4" SHEET - WING SADDLE TRIPLER

WING MOUNTING BOLT

NOTE LEFT SIDE FUSELAGE SHEETING & DOUBLER NOT SHOWN FOR CLARITY

DENOTES 1/8" SHEET - FUSELAGE SIDE OUTLINE

NOTE ALL WOOD IS BALSA UNLESS NOTED OTHERWISE

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SKORPION

A SLOPE SOARING DESIGN

DESIGNED & DRAWN BY JOHN GOODYEAR

PLANS BY RCM

0 1 2 3 4 5 6

H.E

PLAN NO. 1016