MAKE FOAM CUTTING TEMPLATES FROM 3/32" PLASTIC LAMINATE, ALUMINUM, OR PLYWOOD

WING (ROOT) TEMPLATE

WING (TIP) TEMPLATE

1/4" X 3/4" - LEADING EDGE

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

TIP CONTOUR

(BLACK)

(WHITE)

1/16" SHEET (TOP & BOTTOM)

HINGE

3/8" SQ

AILERON - MAKE FROM 5/16" X 1-1/4" TRAILING EDGE STOCK

(REMOVE)

1/4" HARDWOOD DOWEL

3/8" X 3/4" HARDWOOD - LANDING GEAR MOUNTING BLOCK

BOX IN AILERON SERVO WELL WITH 1/16" SHEET

SERVO LEAD ACCESS HOLE

AILERON SERVO

4 OZ FIBER GLASS CLOTH & RESIN, 4" WIDE (TOP & BOTTOM)

GOLDBERG SNAP-LINK CLEVIS W/ THREADED ROD

GOLDBERG (NO 441) CONTROL HORN

(REMOVE)

A

A

NOTE SEAL ALL CONTROL SURFACE HINGE LINES WITH COVERING MATERIAL

(BEVEL)

1/16" PLYWOOD - NOSE RING

1" NOSE BLOCK

3" SPINNER

DAVE BROWN (NO 4045) ENGINE MOUNT SHOWN

SULLIVAN (NO S439) 8 OZ FUEL TANK

3/4" TOP BLOCK

CANOPY

1/16" SHEET

1/16" SHEET - COCKPIT FLOOR

1/8" SHEET (TRIM TO FIT)

3/16" SHEET

1/4" SHEET - TOP

1/4" SQ

F1

F2A

F2

RECEIVER

1/16" PLYWOOD - FUSELAGE DOUBLER

F3

1/2" Δ STOCK

F4

1/8" PLYWOOD

3/16" SHEET - FUSELAGE SIDE

1/2" ∠ STOCK

600 MAH BATTERY PACK

1/4" X 3/8" HARDWOOD - SERVO MOUNTING RAILS

1/4" PLYWOOD - WING BOLT PLATE

1/2" ∠ STOCK

CANT ENGINE 45°

DAVE BROWN (NO 4045) ENGINE MOUNT SHOWN

1/4" PLYWOOD

1/8" PLYWOOD

1/8" PLYWOOD

CANOPY NOTE. A ROYAL (60 SIZE) ME-109 CANOPY WAS USED ON THE PROTOTYPE LONGER AVAILABLE.

CONTROL SURFACE TRAVEL LIMITS

AILERONS - 1/4" UP & DOWN
ELEVATOR - 3/8" UP & DOWN
RUDDER - 1" LEFT & RIGHT

NOTE MEASUREMENTS ARE AT WIDEST POINT OF CONTROL SURFACE

1/4" PLYWOOD - WING BOLT PLATE

(BEVEL)

DRILL HOLES (NO 8 DRILL) WITH WING IN PLACE, IN WING SADDLE TAP HOLES WITH 1/4-20 TAP

1/16" SHEET

1/16" SHEET - COCKPIT FLOOR

1/8" SHEET

1/4" SHEET - TOP

3/16" SHEET

1/4" SCRAP

1" NOSE BLOCK

1/16" PLYWOOD - NOSE RING

3/4" TOP BLOCK

1/2" Δ STOCK

SULLIVAN (NO S439) 8 OZ FUEL TANK

SERVOS

(BLACK)

(WHITE)

DENOTES 3/16" SHEET - FUSELAGE SIDE OUTLINE

1/4" SQ

GOLDBERG (NO 441) CONTROL HORN

1/16" MUSIC WIRE

1" TAIL WHEEL

NYLON TAIL WHEEL BRACKET

1/8" PLYWOOD - TAIL WHEEL MOUNTING PLATE

1/16" SHEET - BOTTOM (CROSSGRAIN)

1/2" Δ STOCK

RECEIVER

1/2" ∠ STOCK

CG

3" SPINNER

1/2" ∠ STOCK

1/2" SHEET

OIL DRAINAGE HOLE

FILLER BLOCK

600 MAH BATTERY PACK

1/16" PLYWOOD - LG COVER PLATE

DUBRO 2-3/4" WHEEL

FENDER WASHER

1/4-20 NYLON WING BOLT

DENOTES 1/16" PLYWOOD - FUSELAGE DOUBLER OUTLINE

NOTE FUSELAGE LEFT SIDE SHEETING & DOUBLER NOT SHOWN ON SIDE VIEW, FOR CLARITY

NOTE ALL WOOD IS BALSA, UNLESS NOTED OTHERWISE.

AILERON SERVO

BOX IN SERVO WELL WITH 1/16" SHEET

HARDWOOD SERVO MOUNTING BLOCK

1/4" X 3/4" - LE

3/8" SQ

AILERON - MAKE FROM 5/16" X 1-1/4" TE STOCK

FOAM

1/16" SHEET

GOLDBERG SNAP-LINK CLEVIS W/ THREADED ROD

GOLDBERG (NO 441) CONTROL HORN

SECTION A-A

1/8" LITE PLY

F4

F3

1/8" LITE PLY

26"

2-1/2"

5-3/8"

3-1/4"

11-1/8"

LEADING EDGE

FOAM (1 LB./SQ. FT. DENSITY)

WING CORE PLANFORM
NO SCALE

3"

DIHEDRAL DETAIL
NO SCALE

1/16" SHEET

3/4" SQ. HARDWOOD

FOAM

SOLDER TO L.G. LEG

3/8" X 3/4" HARDWOOD, W/ 5/32" SQ. CHANNEL

DUBRO (NO 158) L.G. STRAPS & SCREWS

.025" X 1/4" BRASS - COVER PLATE RETAINER 2-56 SCREW & NUT

5/32" MUSIC WIRE - LANDING GEAR LEG

1/16" PLYWOOD - L.G. COVER PLATE

5/32" WHEEL COLLAR

DUBRO 2-3/4" WHEEL

LANDING GEAR DETAIL

HINGE

STABILIZER

ELEVATOR

GOLDBERG (NO 441) CONTROL HORN

1/4" HARDWOOD DOWEL

1/4" SHEET

1/4" SHEET

(WHITE)

(BLACK)

1/4" SHEET

HINGE

RUDDER

1/4" SHEET

VERTICAL FIN

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Messerschmidt Bf109e

A 40-46 (2 STROKE) 40-65 (4 STROKE)
POWERED SPORT SCALE DESIGN

DESIGNED BY: SCOTT HERMANN

PLANS BY: Bob Wallace

0 1 2 3 4 5 6

PLAN NO. 1257