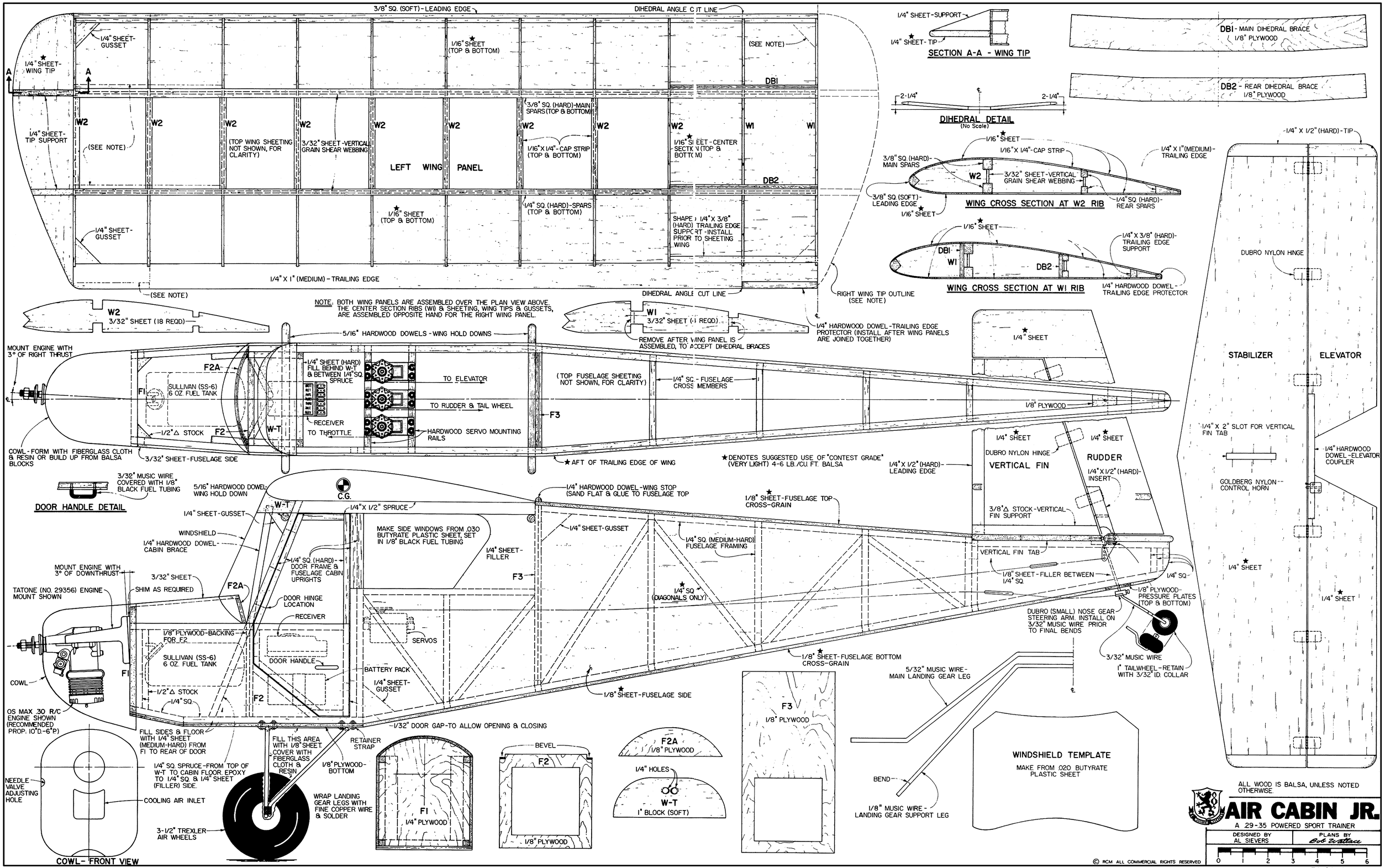
3/8" SQ. (SOFT) - LEADING EDGE
DIHEDRAL ANGLE CUT LINE
1/4" SHEET-GUSSET
1/4" SHEET-WING TIP
1/16" SHEET (TOP & BOTTOM)
(SEE NOTE)
DB1
1/4" SHEET-TIP SUPPORT
W2
(SEE NOTE)
(TOP WING SHEETING NOT SHOWN, FOR CLARITY)
3/32" SHEET-VERTICAL GRAIN SHEAR WEBBING
LEFT WING PANEL
3/8" SQ. (HARD)-MAIN SPARS (TOP & BOTTOM)
1/16" X 1/4"-CAP STRIP (TOP & BOTTOM)
1/16" SHEET-CENTER SECTION (TOP & BOTTOM)
W1
DB2
1/16" SHEET (TOP & BOTTOM)
1/4" SQ. (HARD)-SPARS (TOP & BOTTOM)
SHAPE 1/4" X 3/8" (HARD) TRAILING EDGE SUPPORT-INSTALL PRIOR TO SHEETING WING
1/4" X 1" (MEDIUM) - TRAILING EDGE
(SEE NOTE)
DIHEDRAL ANGLE CUT LINE
RIGHT WING TIP OUTLINE (SEE NOTE)
1/4" HARDWOOD DOWEL-TRAILING EDGE PROTECTOR (INSTALL AFTER WING PANELS ARE JOINED TOGETHER)
NOTE: BOTH WING PANELS ARE ASSEMBLED OVER THE PLAN VIEW ABOVE. THE CENTER SECTION RIBS (W1) & SHEETING, WING TIPS & GUSSETS, ARE ASSEMBLED OPPOSITE HAND FOR THE RIGHT WING PANEL.
W2 3/32" SHEET (18 REQD)
W1 3/32" SHEET (4 REQD)
REMOVE AFTER WING PANEL IS ASSEMBLED, TO ACCEPT DIHEDRAL BRACES
1/4" SHEET-SUPPORT
1/4" SHEET-TIP
SECTION A-A - WING TIP
DB1 - MAIN DIHEDRAL BRACE 1/8" PLYWOOD
DB2 - REAR DIHEDRAL BRACE 1/8" PLYWOOD
2-1/4"
2-1/4"
DIHEDRAL DETAIL
(No Scale)
1/16" SHEET
1/16" X 1/4"-CAP STRIP
3/8" SQ. (HARD)-MAIN SPARS
1/4" X 1" (MEDIUM)-TRAILING EDGE
3/32" SHEET-VERTICAL GRAIN SHEAR WEBBING
3/8" SQ. (SOFT)-LEADING EDGE
1/4" SQ. (HARD)-REAR SPARS
WING CROSS SECTION AT W2 RIB
1/4" X 3/8" (HARD)-TRAILING EDGE SUPPORT
1/4" HARDWOOD DOWEL-TRAILING EDGE PROTECTOR
WING CROSS SECTION AT W1 RIB
1/4" X 1/2" (HARD)-TIP
DUBRO NYLON HINGE
STABILIZER
ELEVATOR
1/4" X 2" SLOT FOR VERTICAL FIN TAB
1/4" HARDWOOD DOWEL-ELEVATOR COUPLER
GOLDBERG NYLON-CONTROL HORN
1/4" SHEET
5/16" HARDWOOD DOWELS - WING HOLD DOWNS
MOUNT ENGINE WITH 3° OF RIGHT THRUST
F2A
F1
SULLIVAN (SS-6) 6 OZ. FUEL TANK
1/4" SHEET (HARD) FILL BEHIND W-T & BETWEEN 1/4" SQ. SPRUCE
TO ELEVATOR
TO RUDDER & TAIL WHEEL
RECEIVER
TO THROTTLE
HARDWOOD SERVO MOUNTING RAILS
1/2" Δ STOCK
F2
W-T
F3
(TOP FUSELAGE SHEETING NOT SHOWN, FOR CLARITY)
1/4" SQ. - FUSELAGE CROSS MEMBERS
1/8" PLYWOOD
COWL - FORM WITH FIBERGLASS CLOTH & RESIN OR BUILD UP FROM BALSA BLOCKS
3/32" SHEET-FUSELAGE SIDE
★ AFT OF TRAILING EDGE OF WING
★ DENOTES SUGGESTED USE OF "CONTEST GRADE" (VERY LIGHT) 4-6 LB./CU. FT. BALSA
1/4" X 1/2" (HARD)-LEADING EDGE
VERTICAL FIN
DUBRO NYLON HINGE
RUDDER
1/4" X 1/2" (HARD)-INSERT
3/8" Δ STOCK-VERTICAL FIN SUPPORT
VERTICAL FIN TAB
1/8" SHEET-FILLER BETWEEN 1/4" SQ.
1/4" SQ.
1/8" PLYWOOD-PRESSURE PLATES (TOP & BOTTOM)
DUBRO (SMALL) NOSE GEAR-STEERING ARM. INSTALL ON 3/32" MUSIC WIRE PRIOR TO FINAL BENDS
3/32" MUSIC WIRE
1" TAILWHEEL-RETAIN WITH 3/32" I.D. COLLAR
DOOR HANDLE DETAIL
3/32" MUSIC WIRE COVERED WITH 1/8" BLACK FUEL TUBING
5/16" HARDWOOD DOWEL-WING HOLD DOWN
C.G.
1/4" SHEET-GUSSET
1/4" X 1/2" SPRUCE
1/4" HARDWOOD DOWEL-WING STOP (SAND FLAT & GLUE TO FUSELAGE TOP
1/8" SHEET-FUSELAGE TOP CROSS-GRAIN
WINDSHIELD
1/4" HARDWOOD DOWEL-CABIN BRACE
MAKE SIDE WINDOWS FROM .030 BUTYRATE PLASTIC SHEET, SET IN 1/8" BLACK FUEL TUBING
1/4" SHEET-FILLER
1/4" SQ. (MEDIUM-HARD) FUSELAGE FRAMING
1/4" SQ. (HARD)-DOOR FRAME & FUSELAGE CABIN UPRIGHTS
MOUNT ENGINE WITH 3° OF DOWNTHRUST
3/32" SHEET
TATONE (NO. 29356) ENGINE MOUNT SHOWN
SHIM AS REQUIRED
DOOR HINGE LOCATION
RECEIVER
1/4" SQ. (DIAGONALS ONLY)
1/8" PLYWOOD-BACKING FOR F2
SERVOS
SULLIVAN (SS-6) 6 OZ. FUEL TANK
DOOR HANDLE
BATTERY PACK
1/4" SHEET-GUSSET
1/8" SHEET-FUSELAGE BOTTOM CROSS-GRAIN
1/8" SHEET-FUSELAGE SIDE
COWL
1/2" Δ STOCK
1/4" SQ.
OS MAX .30 R/C ENGINE SHOWN (RECOMMENDED PROP. 10"D-6"P)
1/32" DOOR GAP-TO ALLOW OPENING & CLOSING
FILL SIDES & FLOOR WITH 1/4" SHEET (MEDIUM-HARD) FROM F1 TO REAR OF DOOR
FILL THIS AREA WITH 1/8" SHEET. COVER WITH FIBERGLASS CLOTH & RESIN
RETAINER STRAP
1/8" PLYWOOD-BOTTOM
1/4" SQ. SPRUCE-FROM TOP OF W-T TO CABIN FLOOR. EPOXY TO 1/4" SQ. & 1/4" SHEET (FILLER) SIDE.
NEEDLE VALVE ADJUSTING HOLE
COOLING AIR INLET
WRAP LANDING GEAR LEGS WITH FINE COPPER WIRE & SOLDER
3-1/2" TREXLER AIR WHEELS
COWL - FRONT VIEW
F1 1/4" PLYWOOD
BEVEL
F2 1/8" PLYWOOD
F2A 1/8" PLYWOOD
1/4" HOLES
W-T 1" BLOCK (SOFT)
F3 1/8" PLYWOOD
5/32" MUSIC WIRE-MAIN LANDING GEAR LEG
BEND
1/8" MUSIC WIRE-LANDING GEAR SUPPORT LEG
WINDSHIELD TEMPLATE
MAKE FROM .020 BUTYRATE PLASTIC SHEET
ALL WOOD IS BALSA, UNLESS NOTED OTHERWISE.
AIR CABIN JR.
A .29-35 POWERED SPORT TRAINER
DESIGNED BY AL SIEVERS
PLANS BY Bob Wallace
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