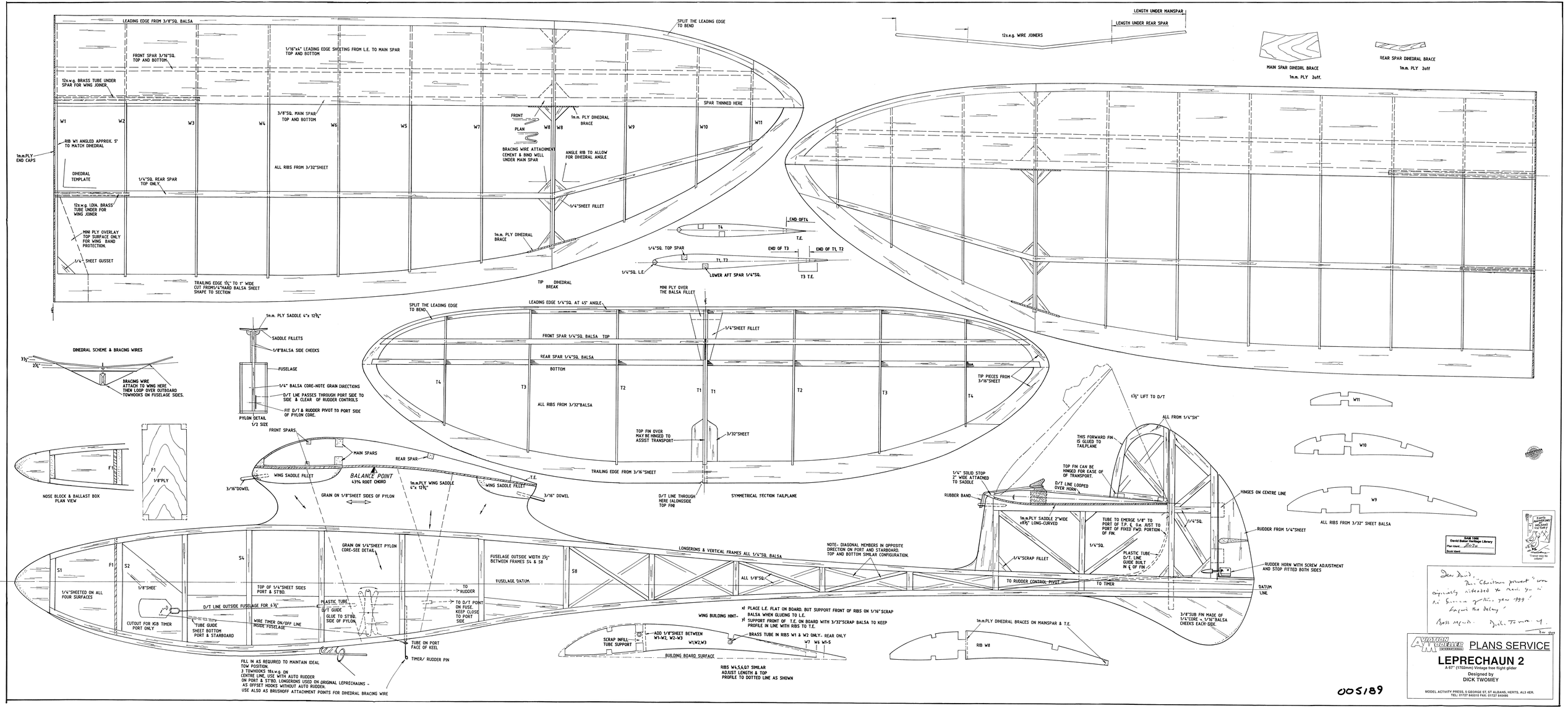
LEADING EDGE FROM 3/8"SQ. BALSA
SPLIT THE LEADING EDGE TO BEND
FRONT SPAR 3/16"SQ. TOP AND BOTTOM
1/16"x4" LEADING EDGE SHEETING FROM L.E. TO MAIN SPAR TOP AND BOTTOM
12s.w.g. BRASS TUBE UNDER SPAR FOR WING JOINER
3/8"SQ. MAIN SPAR TOP AND BOTTOM
SPAR THINNED HERE
FRONT
PLAN
1m.m. PLY DIHEDRAL BRACE
W1
W2
W3
W4
W5
W6
W7
W8
W9
W10
W11
RIB W1 ANGLED APPROX. 5° TO MATCH DIHEDRAL
1m.m.PLY END CAPS
DIHEDRAL TEMPLATE
1/4"SQ. REAR SPAR TOP ONLY
ALL RIBS FROM 3/32"SHEET
BRACING WIRE ATTACHMENT CEMENT & BIND WELL UNDER MAIN SPAR
ANGLE RIB TO ALLOW FOR DIHEDRAL ANGLE
1/4"SHEET FILLET
12s.w.g. LOIA. BRASS TUBE UNDER FOR WING JOINER
MINI PLY OVERLAY TOP SURFACE ONLY FOR WING BAND PROTECTION.
1/4" SHEET GUSSET
1m.m. PLY DIHEDRAL BRACE
TRAILING EDGE 1½" TO 1" WIDE CUT FROM1/4"HARD BALSA SHEET SHAPE TO SECTION
TIP DIHEDRAL BREAK
LENGTH UNDER MAINSPAR
LENGTH UNDER REAR SPAR
12s.w.g. WIRE JOINERS
MAIN SPAR DIHEDRAL BRACE
1m.m. PLY 2off.
REAR SPAR DIHEDRAL BRACE
1m.m. PLY 2off
END OFT4
T4
T.E.
1/4"SQ. TOP SPAR
END OF T3
END OF T1, T2
T1, T2
1/4"SQ. L.E.
LOWER AFT SPAR 1/4"SQ.
T3 T.E.
DIHEDRAL SCHEME & BRACNG WIRES
3½"
2½"
BRACING WIRE ATTACH TO WING HERE THEN LOOP OVER OUTBOARD TOWHOOKS ON FUSELAGE SIDES.
1m.m. PLY SADDLE 4"x 12¾"
SADDLE FILLETS
1/8"BALSA SIDE CHEEKS
FUSELAGE
1/4" BALSA CORE-NOTE GRAIN DIRECTIONS
D/T LNE PASSES THROUGH PORT SIDE TO SIDE & CLEAR OF RUDDER CONTROLS
FIT D/T & RUDDER PIVOT TO PORT SIDE OF PYLON CORE.
PYLON DETAIL 1/2 SIZE
SPLIT THE LEADING EDGE TO BEND
LEADING EDGE 1/4"SQ. AT 45° ANGLE
MINI PLY OVER THE BALSA FILLET
FRONT SPAR 1/4"SQ. BALSA TOP
1/4"SHEET FILLET
REAR SPAR 1/4"SQ. BALSA
BOTTOM
T4
T3
T2
T1
T1
T2
T3
T4
ALL RIBS FROM 3/32"BALSA
TIP PIECES FROM 3/16"SHEET
TOP FIN OVER MAY BE HINGED TO ASSIST TRANSPORT
3/32"SHEET
TRAILING EDGE FROM 3/16"SHEET
D/T LINE THROUGH HERE (ALONGSIDE TOP FIN)
SYMMETRICAL SECTION TAILPLANE
6½" LIFT TO D/T
ALL FROM 1/4"SH"
THIS FORWARD FIN IS GLUED TO TAILPLANE
TOP FIN CAN BE HINGED FOR EASE OF TRANSPORT.
D/T LINE LOOPED OVER HORN.
W11
W10
W9
ALL RIBS FROM 3/32" SHEET BALSA
F1
F1
1/8"PLY
NOSE BLOCK & BALLAST BOX PLAN VIEW
FRONT SPARS
MAIN SPARS
REAR SPAR
BALANCE POINT 63% ROOT CHORD
WING SADDLE FILLET
3/16"DOWEL
1m.m.PLY WING SADDLE 4"x 12¾"
WING SADDLE FILLET
T.E.
3/16" DOWEL
GRAIN ON 1/8"SHEET SIDES OF PYLON
1/4" SOLID STOP 2" WIDE ATTACHED TO SADDLE
RUBBER BAND
1m.m.PLY SADDLE 2"WIDE x8½" LONG-CURVED
TUBE TO EMERGE 1/4" TO PORT OF T.P. & 6m. AST TO PORT OF FIXED FWD. PORTION OF FIN.
1/4"SQ.
1/4"SQ.
1/4"SCRAP FILLET
PLASTIC TUBE D/T. LINE GUIDE BUILT IN (OF FIN.
HINGES ON CENTRE LINE
RUDDER FROM 1/4"SHEET
RUDDER HORN WITH SCREW ADJUSTMENT AND STOP FITTED BOTH SIDES
TO RUDDER CONTROL PIVOT
TO TIMER
DATUM LINE
3/8"SUB FIN MADE OF 1/4"CORE + 1/16"BALSA CHEEKS EACH SIDE.
S1
F1
S2
S4
S8
1/4"SHEETED ON ALL FOUR SURFACES
1/8"SHEE
CUTOUT FOR XGB TIMER PORT ONLY.
TOP OF 1/4"SHEET SIDES PORT & STBD.
D/T LINE OUTSIDE FUSELAGE FOR 6½"
TUBE GUIDE SHEET BOTTOM PORT & STARBOARD
WIRE TIMER ON/OFF LINE INSIDE FUSELAGE
PLASTIC TUBE D/T GUIDE GLUE TO STBD. SIDE OF PYLON
GRAIN ON 1/4"SHEET PYLON CORE-SEE DETAIL
TO D/T POINT ON FUSE. KEEP CLOSE TO PORT SIDE
TO RUDDER
TUBE ON PORT FACE OF KEEL
TIMER/ RUDDER PIN
FUSELAGE OUTSIDE WIDTH 2½" BETWEEN FRAMES S4 & S8
FUSELAGE DATUM
LONGERONS & VERTICAL FRAMES ALL 1/4"SQ. BALSA
ALL 1/8"SQ.
NOTE- DIAGONAL MEMBERS IN OPPOSITE DIRECTION ON PORT AND STARBOARD. TOP AND BOTTOM SIMILAR CONFIGURATION.
FILL IN AS REQUIRED TO MAINTAIN IDEAL TOW POSITION. 3 TOWHOOKS 18s.w.g. ON CENTRE LINE, USE WITH AUTO RUDDER ON PORT & STBD. LONGERONS USED ON ORIGINAL LEPRECHAUNS - AS OFFSET HOOKS WITHOUT AUTO RUDDER. USE ALSO AS BRUSHOFF ATTACHMENT POINTS FOR DIHEDRAL BRACING WIRE
WING BUILDING HINT-
1) PLACE L.E. FLAT ON BOARD. BUT SUPPORT FRONT OF RIBS ON 1/16"SCRAP BALSA WHEN GLUEING TO L.E.
2) SUPPORT FRONT OF T.E. ON BOARD WITH 3/32"SCRAP BALSA TO KEEP PROFILE IN LINE WITH RIBS TO T.E.
BRASS TUBE IN RIBS W1 & W2 ONLY.- REAR ONLY
W7 W6 W1-5
SCRAP INFILL TUBE SUPPORT
ADD 1/8"SHEET BETWEEN W1-W2, W2-W3
W1,W2,W3
BUILDING BOARD SURFACE
RIBS W4,5,6&7 SIMILAR ADJUST LENGTH & TOP PROFILE TO DOTTED LINE AS SHOWN
1m.m.PLY DIHEDRAL BRACES ON MAINSPAR & T.E.
RIB W8
SAM 1500 David Baker Heritage Library
Plan Used: 20 Tur.
Book Used:
"I never may be colored"
Dear David, This "Christmas present" was originally intended to reach you in the form of this year 1999! Forgive the delay! Best regards. Dick Twomey. Dec 1999
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