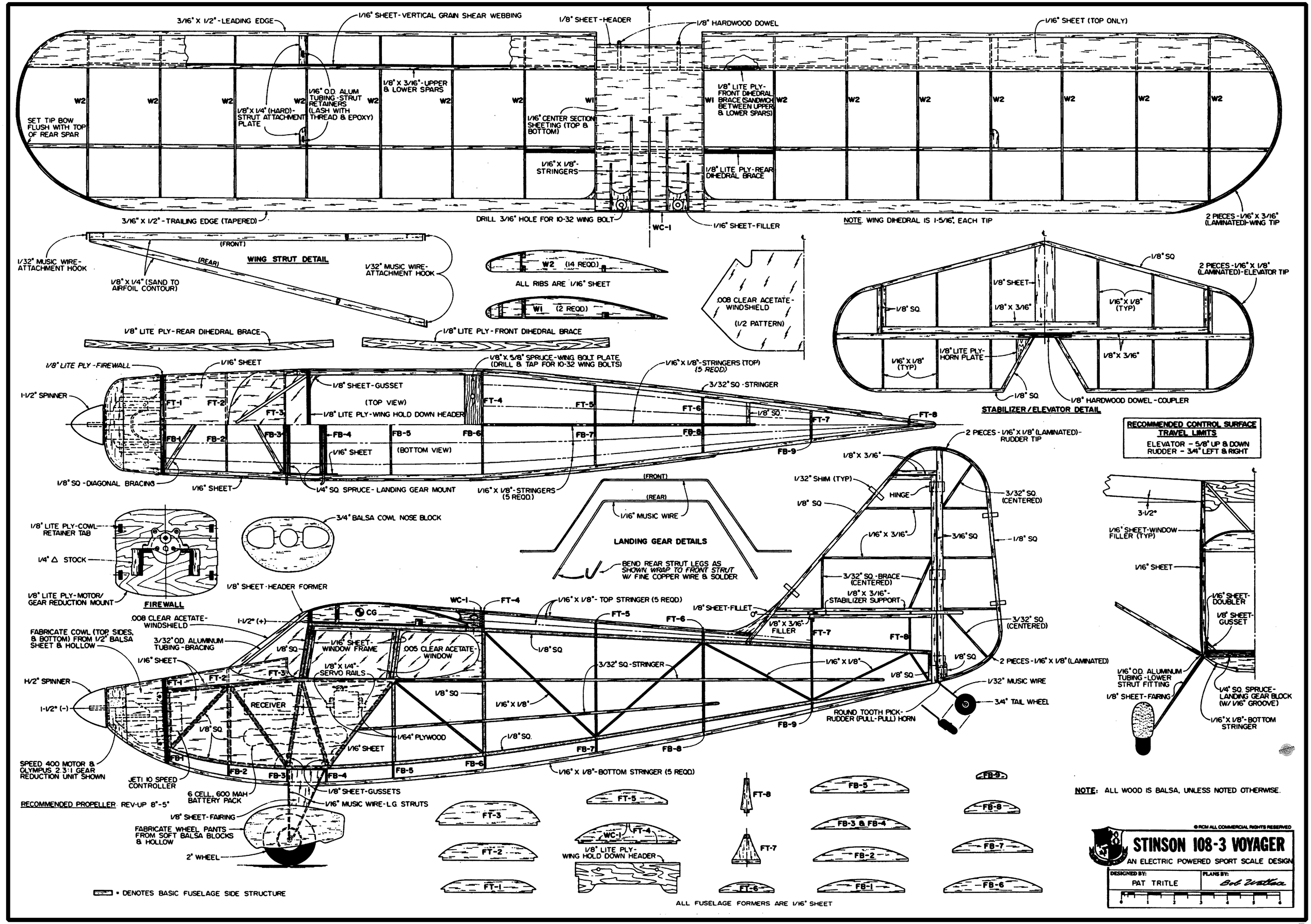
3/16" X 1/2"-LEADING EDGE
1/16" SHEET-VERTICAL GRAIN SHEAR WEBBING
1/8" SHEET-HEADER
1/8" HARDWOOD DOWEL
1/16" SHEET (TOP ONLY)
W2
W1
SET TIP BOW FLUSH WITH TOP OF REAR SPAR
1/8" X 1/4" (HARD)-STRUT ATTACHMENT PLATE
1/16" O.D. ALUM TUBING-STRUT RETAINERS (LASH WITH THREAD & EPOXY)
1/8" X 3/16"-UPPER & LOWER SPARS
1/16" CENTER SECTION SHEETING (TOP & BOTTOM)
1/8" LITE PLY-FRONT DIHEDRAL BRACE (SANDWICH BETWEEN UPPER & LOWER SPARS)
1/16" X 1/8"-STRINGERS
1/8" LITE PLY-REAR DIHEDRAL BRACE
3/16" X 1/2"-TRAILING EDGE (TAPERED)
DRILL 3/16" HOLE FOR 10-32 WING BOLT
WC-1
1/16" SHEET-FILLER
NOTE. WING DIHEDRAL IS 1-5/16", EACH TIP
2 PIECES-1/16" X 3/16" (LAMINATED)-WING TIP
(FRONT)
(REAR)
WING STRUT DETAIL
1/32" MUSIC WIRE-ATTACHMENT HOOK
1/8" X 1/4" (SAND TO AIRFOIL CONTOUR)
W2 (14 REQD.)
ALL RIBS ARE 1/16" SHEET
W1 (2 REQD.)
.008 CLEAR ACETATE-WINDSHIELD
(1/2 PATTERN)
1/8" LITE PLY-REAR DIHEDRAL BRACE
1/8" LITE PLY-FRONT DIHEDRAL BRACE
1/8" SQ
2 PIECES-1/16" X 1/8" (LAMINATED)-ELEVATOR TIP
1/8" SHEET
1/8" SQ.
1/8" X 3/16"
1/16" X 1/8" (TYP)
1/8" LITE PLY-HORN PLATE
1/8" HARDWOOD DOWEL-COUPLER
STABILIZER/ELEVATOR DETAIL
1/8" LITE PLY-FIREWALL
1/16" SHEET
1/8" X 5/8" SPRUCE-WING BOLT PLATE (DRILL & TAP FOR 10-32 WING BOLTS)
1/16" X 1/8"-STRINGERS (TOP) (5 REQD.)
3/32" SQ.-STRINGER
1-1/2" SPINNER
1/8" SHEET-GUSSET
(TOP VIEW)
1/8" LITE PLY-WING HOLD DOWN HEADER
FT-1
FT-2
FT-3
FT-4
FT-5
FT-6
FT-7
FT-8
FB-1
FB-2
FB-3
FB-4
FB-5
FB-6
FB-7
FB-8
FB-9
1/16" SHEET
(BOTTOM VIEW)
1/8" SQ-DIAGONAL BRACING
1/16" SHEET
1/4" SQ. SPRUCE-LANDING GEAR MOUNT
1/16" X 1/8"-STRINGERS (5 REQD.)
2 PIECES-1/16" X 1/8" (LAMINATED)-RUDDER TIP
RECOMMENDED CONTROL SURFACE TRAVEL LIMITS
ELEVATOR - 5/8" UP & DOWN
RUDDER - 3/4" LEFT & RIGHT
1/8" X 3/16"
1/32" SHIM (TYP)
HINGE
3/32" SQ. (CENTERED)
1/8" SQ
1/16" X 3/16"
3/16" SQ
1/8" SQ
3-1/2°
1/16" SHEET-WINDOW FILLER (TYP)
1/16" SHEET
1/16" MUSIC WIRE
LANDING GEAR DETAILS
BEND REAR STRUT LEGS AS SHOWN. WRAP TO FRONT STRUT W/ FINE COPPER WIRE & SOLDER.
3/32" SQ.-BRACE (CENTERED)
1/8" X 3/16"-STABILIZER SUPPORT
1/16" SHEET-DOUBLER
1/8" SHEET-GUSSET
1/8" LITE PLY-COWL RETAINER TAB
1/4" △ STOCK
1/8" LITE PLY-MOTOR/GEAR REDUCTION MOUNT
FIREWALL
3/4" BALSA COWL NOSE BLOCK
1/8" SHEET-HEADER FORMER
WC-1
FT-4
1/16" X 1/8"- TOP STRINGER (5 REQD.)
CG
1/8" SHEET-FILLET
1/8" X 3/16"-FILLER
3/32" SQ (CENTERED)
.008 CLEAR ACETATE-WINDSHIELD
1-1/2" (+)
FABRICATE COWL (TOP SIDES, & BOTTOM) FROM 1/2" BALSA SHEET & HOLLOW
3/32" O.D. ALUMINUM TUBING-BRACING
1/8" SQ
1/16" SHEET-WINDOW FRAME
.005 CLEAR ACETATE-WINDOW
1/8" SQ
1/16" SHEET
1/8" X 1/4"-SERVO RAILS
3/32" SQ.-STRINGER
1/16" X 1/8"
2 PIECES-1/16" X 1/8" (LAMINATED)
1/8" SQ
1/32" MUSIC WIRE
1-1/2" SPINNER
1-1/2" (-)
RECEIVER
1/8" SQ
1/8" SQ
1/16" X 1/8"
3/4" TAIL WHEEL
1/16" O.D. ALUMINUM TUBING-LOWER STRUT FITTING
1/8" SHEET-FAIRING
1/4" SQ. SPRUCE-LANDING GEAR BLOCK (W/ 1/16" GROOVE)
1/64" PLYWOOD
1/8" SQ.
1/16" SHEET
ROUND TOOTH PICK-RUDDER (PULL-PULL) HORN
1/16" X 1/8"-BOTTOM STRINGER
SPEED 400 MOTOR & OLYMPUS 2.3:1 GEAR REDUCTION UNIT SHOWN
JETI 10 SPEED CONTROLLER
6 CELL, 600 MAH BATTERY PACK
1/16" X 1/8"-BOTTOM STRINGER (5 REQD.)
1/8" SHEET-GUSSETS
1/16" MUSIC WIRE-L.G. STRUTS
RECOMMENDED PROPELLER: REV-UP 8"-5"
1/8" SHEET-FAIRING
FABRICATE WHEEL PANTS FROM SOFT BALSA BLOCKS & HOLLOW
2" WHEEL
= DENOTES BASIC FUSELAGE SIDE STRUCTURE
1/8" LITE PLY-WING HOLD DOWN HEADER
ALL FUSELAGE FORMERS ARE 1/16" SHEET
NOTE: ALL WOOD IS BALSA, UNLESS NOTED OTHERWISE.
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STINSON 108-3 VOYAGER
AN ELECTRIC POWERED SPORT SCALE DESIGN
DESIGNED BY:
PAT TRITLE
PLANS BY:
Bob Watkins