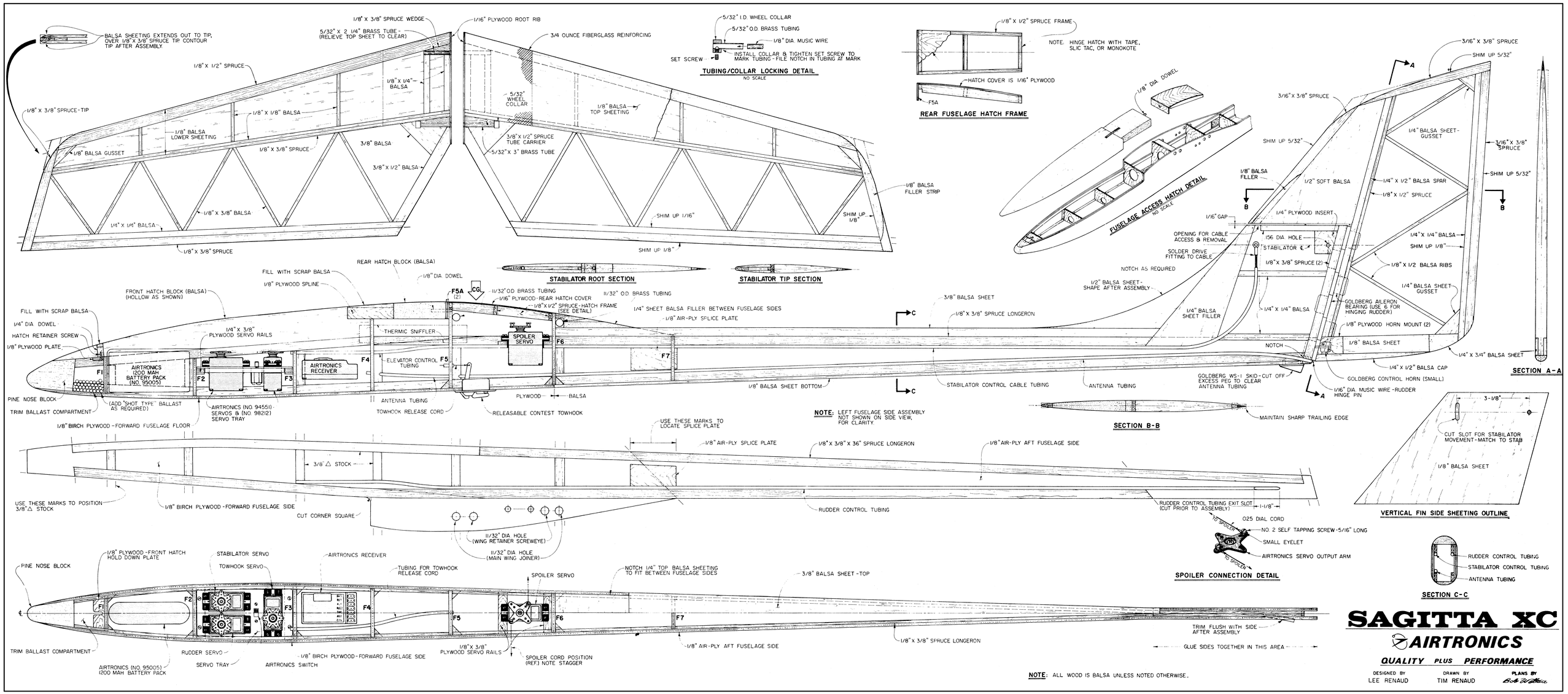
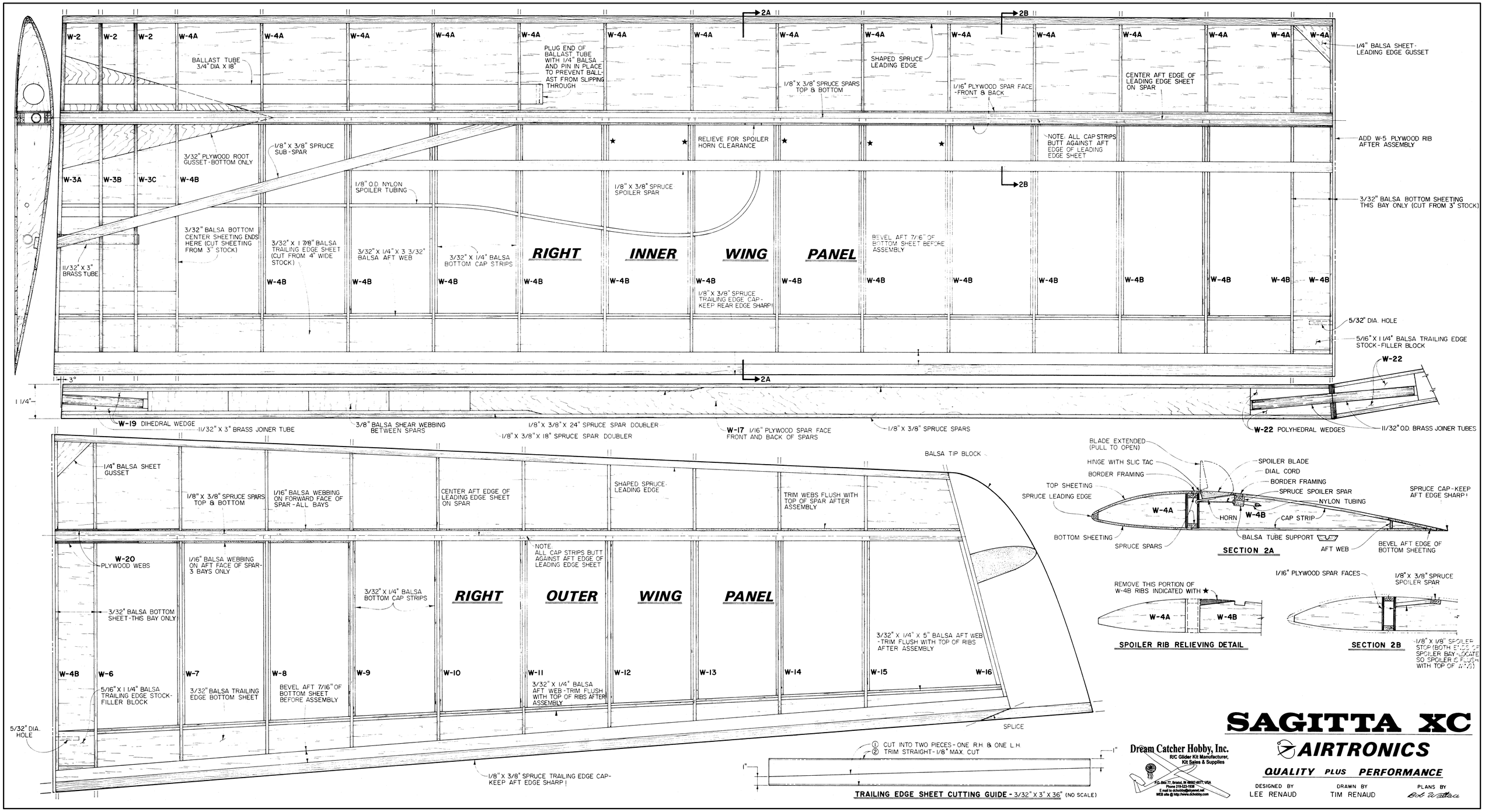

BALSA SHEETING EXTENDS OUT TO TIP, OVER 1/8" X 3/8" SPRUCE TIP CONTOUR TIP AFTER ASSEMBLY
1/8" X 3/8" SPRUCE WEDGE
5/32" X 2 1/4" BRASS TUBE - (RELIEVE TOP SHEET TO CLEAR)
1/16" PLYWOOD ROOT RIB
3/4 OUNCE FIBERGLASS REINFORCING
1/8" X 1/2" SPRUCE
1/8" X 1/4" BALSA
1/8" X 3/8" SPRUCE-TIP
1/8" X 1/8" BALSA
1/8" BALSA LOWER SHEETING
1/8" BALSA GUSSET
1/8" X 3/8" SPRUCE
3/8" BALSA
3/8" X 1/2" BALSA
1/8" X 3/8" BALSA
1/4" X 1/4" BALSA
1/8" X 3/8" SPRUCE
5/32" WHEEL COLLAR
1/8" BALSA TOP SHEETING
3/8" X 1/2" SPRUCE TUBE CARRIER
5/32" X 3" BRASS TUBE
1/8" BALSA FILLER STRIP
SHIM UP 1/16"
SHIM UP 1/8"
SHIM UP 1/8"
5/32" I.D. WHEEL COLLAR
5/32" O.D. BRASS TUBING
1/8" DIA. MUSIC WIRE
SET SCREW
INSTALL COLLAR & TIGHTEN SET SCREW TO MARK TUBING - FILE NOTCH IN TUBING AT MARK
TUBING/COLLAR LOCKING DETAIL
NO SCALE
1/8" X 1/2" SPRUCE FRAME
NOTE: HINGE HATCH WITH TAPE, SLIC TAC, OR MONOKOTE
HATCH COVER IS 1/16" PLYWOOD
F5A
REAR FUSELAGE HATCH FRAME
1/8" DIA DOWEL
FUSELAGE ACCESS HATCH DETAIL
NO SCALE
3/16" X 3/8" SPRUCE
SHIM UP 5/32"
A
3/16" X 3/8" SPRUCE
1/4" BALSA SHEET-GUSSET
SHIM UP 5/32"
3/16" X 3/8" SPRUCE
SHIM UP 5/32"
1/8" BALSA FILLER
1/2" SOFT BALSA
1/4" X 1/2" BALSA SPAR
1/8" X 1/2" SPRUCE
B
B
1/16" GAP
1/4" PLYWOOD INSERT
OPENING FOR CABLE ACCESS & REMOVAL
.156 DIA HOLE
STABILATOR ℄
SOLDER DRIVE FITTING TO CABLE
1/8" X 3/8" SPRUCE (2)
NOTCH AS REQUIRED
1/2" BALSA SHEET-SHAPE AFTER ASSEMBLY
1/4" X 1/4" BALSA
SHIM UP 1/8"
1/8" X 1/2 BALSA RIBS
1/4" BALSA SHEET-GUSSET
1/4" BALSA SHEET FILLER
1/4" X 1/4" BALSA
GOLDBERG AILERON BEARING (USE 6 FOR HINGING RUDDER)
1/8" PLYWOOD HORN MOUNT (2)
NOTCH
1/8" BALSA SHEET
1/4" X 3/4" BALSA SHEET
1/4" X 1/2" BALSA CAP
GOLDBERG CONTROL HORN (SMALL)
GOLDBERG WS-1 SKID-CUT OFF EXCESS PEG TO CLEAR ANTENNA TUBING
1/16" DIA. MUSIC WIRE-RUDDER HINGE PIN
A
SECTION A-A
STABILATOR ROOT SECTION
STABILATOR TIP SECTION
REAR HATCH BLOCK (BALSA)
FILL WITH SCRAP BALSA
1/8" PLYWOOD SPLINE
1/8" DIA DOWEL
CG
F5A (2)
11/32" O.D. BRASS TUBING
1/16" PLYWOOD-REAR HATCH COVER
1/8" X 1/2" SPRUCE-HATCH FRAME (SEE DETAIL)
11/32" O.D. BRASS TUBING
1/4" SHEET BALSA FILLER BETWEEN FUSELAGE SIDES
1/8" AIR-PLY SPLICE PLATE
FRONT HATCH BLOCK (BALSA) (HOLLOW AS SHOWN)
FILL WITH SCRAP BALSA
1/4" DIA DOWEL
HATCH RETAINER SCREW
1/8" PLYWOOD PLATE
1/4" X 3/8" PLYWOOD SERVO RAILS
THERMIC SNIFFLER
SPOILER SERVO
F6
F7
F1
AIRTRONICS (200 MAH BATTERY PACK (NO. 95005)
F2
F3
AIRTRONICS RECEIVER
F4
ELEVATOR CONTROL TUBING
F5
C
3/8" BALSA SHEET
1/8" X 3/8" SPRUCE LONGERON
C
PINE NOSE BLOCK
TRIM BALLAST COMPARTMENT
(ADD "SHOT TYPE" BALLAST AS REQUIRED)
AIRTRONICS (NO. 94551) SERVOS & (NO. 98212) SERVO TRAY
1/8" BIRCH PLYWOOD-FORWARD FUSELAGE FLOOR
ANTENNA TUBING
TOWHOOK RELEASE CORD
PLYWOOD
BALSA
RELEASABLE CONTEST TOWHOOK
1/8" BALSA SHEET BOTTOM
STABILATOR CONTROL CABLE TUBING
ANTENNA TUBING
NOTE: LEFT FUSELAGE SIDE ASSEMBLY NOT SHOWN ON SIDE VIEW, FOR CLARITY.
SECTION B-B
MAINTAIN SHARP TRAILING EDGE
3-1/8"
CUT SLOT FOR STABILATOR MOVEMENT-MATCH TO STAB
1/8" BALSA SHEET
VERTICAL FIN SIDE SHEETING OUTLINE
USE THESE MARKS TO LOCATE SPLICE PLATE
1/8" AIR-PLY SPLICE PLATE
1/8" X 3/8" X 36" SPRUCE LONGERON
1/8" AIR-PLY AFT FUSELAGE SIDE
3/8" △ STOCK
USE THESE MARKS TO POSITION 3/8" △ STOCK
1/8" BIRCH PLYWOOD-FORWARD FUSELAGE SIDE
CUT CORNER SQUARE
RUDDER CONTROL TUBING
RUDDER CONTROL TUBING EXIT SLOT (CUT PRIOR TO ASSEMBLY)
1-1/8"
11/32" DIA HOLE (WING RETAINER SCREWEYE)
11/32" DIA HOLE (MAIN WING JOINER)
.025 DIAL CORD
TO SPOILER
NO. 2 SELF TAPPING SCREW-5/16" LONG
SMALL EYELET
AIRTRONICS SERVO OUTPUT ARM
TO SPOILER
SPOILER CONNECTION DETAIL
RUDDER CONTROL TUBING
STABILATOR CONTROL TUBING
ANTENNA TUBING
SECTION C-C
PINE NOSE BLOCK
1/8" PLYWOOD-FRONT HATCH HOLD DOWN PLATE
STABILATOR SERVO
TOWHOOK SERVO
AIRTRONICS RECEIVER
TUBING FOR TOWHOOK RELEASE CORD
SPOILER SERVO
NOTCH 1/4" TOP BALSA SHEETING TO FIT BETWEEN FUSELAGE SIDES
3/8" BALSA SHEET-TOP
F1
F2
F3
F4
F5
F6
F7
TRIM FLUSH WITH SIDE AFTER ASSEMBLY
TRIM BALLAST COMPARTMENT
RUDDER SERVO
AIRTRONICS (NO. 95005) 1200 MAH BATTERY PACK
SERVO TRAY
AIRTRONICS SWITCH
1/8" BIRCH PLYWOOD-FORWARD FUSELAGE SIDE
1/8" X 3/8" PLYWOOD SERVO RAILS
SPOILER CORD POSITION (REF.) NOTE STAGGER
1/8" AIR-PLY AFT FUSELAGE SIDE
1/8" X 3/8" SPRUCE LONGERON
GLUE SIDES TOGETHER IN THIS AREA
NOTE: ALL WOOD IS BALSA UNLESS NOTED OTHERWISE.
SAGITTA XC
AIRTRONICS
QUALITY PLUS PERFORMANCE
DESIGNED BY LEE RENAUD
DRAWN BY TIM RENAUD
PLANS BY Bob Watson


W-2
W-4A
W-3A
W-3B
W-3C
W-4B
2A
2B
BALLAST TUBE 3/4" DIA X 18"
PLUG END OF BALLAST TUBE WITH 1/4" BALSA AND PIN IN PLACE TO PREVENT BALLAST FROM SLIPPING THROUGH
SHAPED SPRUCE LEADING EDGE
1/8" X 3/8" SPRUCE SPARS TOP & BOTTOM
1/16" PLYWOOD SPAR FACE -FRONT & BACK
CENTER AFT EDGE OF LEADING EDGE SHEET ON SPAR
1/4" BALSA SHEET-LEADING EDGE GUSSET
3/32" PLYWOOD ROOT GUSSET-BOTTOM ONLY
1/8" X 3/8" SPRUCE SUB-SPAR
RELIEVE FOR SPOILER HORN CLEARANCE
NOTE: ALL CAP STRIPS BUTT AGAINST AFT EDGE OF LEADING EDGE SHEET
ADD W-5 PLYWOOD RIB AFTER ASSEMBLY
1/8" O.D. NYLON SPOILER TUBING
1/8" X 3/8" SPRUCE SPOILER SPAR
3/32" BALSA BOTTOM SHEETING THIS BAY ONLY (CUT FROM 3" STOCK)
3/32" BALSA BOTTOM CENTER SHEETING ENDS HERE (CUT SHEETING FROM 3" STOCK)
3/32" X 1 7/8" BALSA TRAILING EDGE SHEET (CUT FROM 4" WIDE STOCK)
3/32" X 1/4" X 3 3/32" BALSA AFT WEB
3/32" X 1/4" BALSA BOTTOM CAP STRIPS
RIGHT INNER WING PANEL
BEVEL AFT 7/16" OF BOTTOM SHEET BEFORE ASSEMBLY
11/32" X 3" BRASS TUBE
1/8" X 3/8" SPRUCE TRAILING EDGE CAP-KEEP REAR EDGE SHARP!
5/32" DIA. HOLE
5/16" X 1 1/4" BALSA TRAILING EDGE STOCK-FILLER BLOCK
W-22
3°
1 1/4"
W-19 DIHEDRAL WEDGE
11/32" X 3" BRASS JOINER TUBE
3/8" BALSA SHEAR WEBBING BETWEEN SPARS
1/8" X 3/8" X 24" SPRUCE SPAR DOUBLER
1/8" X 3/8" X 18" SPRUCE SPAR DOUBLER
W-17 1/16" PLYWOOD SPAR FACE FRONT AND BACK OF SPARS
1/8" X 3/8" SPRUCE SPARS
W-22 POLYHEDRAL WEDGES
11/32" O.D. BRASS JOINER TUBES
BALSA TIP BLOCK
1/4" BALSA SHEET GUSSET
1/8" X 3/8" SPRUCE SPARS TOP & BOTTOM
1/16" BALSA WEBBING ON FORWARD FACE OF SPAR-ALL BAYS
CENTER AFT EDGE OF LEADING EDGE SHEET ON SPAR
SHAPED SPRUCE LEADING EDGE
TRIM WEBS FLUSH WITH TOP OF SPAR AFTER ASSEMBLY
W-20 PLYWOOD WEBS
1/16" BALSA WEBBING ON AFT FACE OF SPAR-3 BAYS ONLY
NOTE: ALL CAP STRIPS BUTT AGAINST AFT EDGE OF LEADING EDGE SHEET
3/32" X 1/4" BALSA BOTTOM CAP STRIPS
RIGHT OUTER WING PANEL
3/32" BALSA BOTTOM SHEET-THIS BAY ONLY
3/32" X 1/4" X 5" BALSA AFT WEB -TRIM FLUSH WITH TOP OF RIBS AFTER ASSEMBLY
W-4B W-6 W-7 W-8 W-9 W-10 W-11 W-12 W-13 W-14 W-15 W-16
5/16" X 1 1/4" BALSA TRAILING EDGE STOCK-FILLER BLOCK
3/32" BALSA TRAILING EDGE BOTTOM SHEET
BEVEL AFT 7/16" OF BOTTOM SHEET BEFORE ASSEMBLY
3/32" X 1/4" X 3" BALSA AFT WEB -TRIM FLUSH WITH TOP OF RIBS AFTER ASSEMBLY
5/32" DIA. HOLE
SPLICE
1/8" X 3/8" SPRUCE TRAILING EDGE CAP-KEEP AFT EDGE SHARP!
BLADE EXTENDED (PULL TO OPEN)
HINGE WITH SLIC TAC
BORDER FRAMING
TOP SHEETING
SPRUCE LEADING EDGE
SPOILER BLADE
DIAL CORD
BORDER FRAMING
SPRUCE SPOILER SPAR
NYLON TUBING
SPRUCE CAP-KEEP AFT EDGE SHARP!
W-4A
W-4B
HORN
CAP STRIP
BOTTOM SHEETING
SPRUCE SPARS
BALSA TUBE SUPPORT
AFT WEB
BEVEL AFT EDGE OF BOTTOM SHEETING
SECTION 2A
REMOVE THIS PORTION OF W-4B RIBS INDICATED WITH ★
SPOILER RIB RELIEVING DETAIL
1/16" PLYWOOD SPAR FACES
1/8" X 3/8" SPRUCE SPOILER SPAR
SECTION 2B
1/8" X 1/8" SPOILER STOP (BOTH ENDS OF SPOILER BAY-LOCATE SO SPOILER IS FLUSH WITH TOP OF W-4B)
① CUT INTO TWO PIECES - ONE R.H. & ONE L.H.
② TRIM STRAIGHT - 1/8" MAX. CUT
1"
TRAILING EDGE SHEET CUTTING GUIDE - 3/32" X 3" X 36" (NO SCALE)
Dream Catcher Hobby, Inc.
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SAGITTA XC
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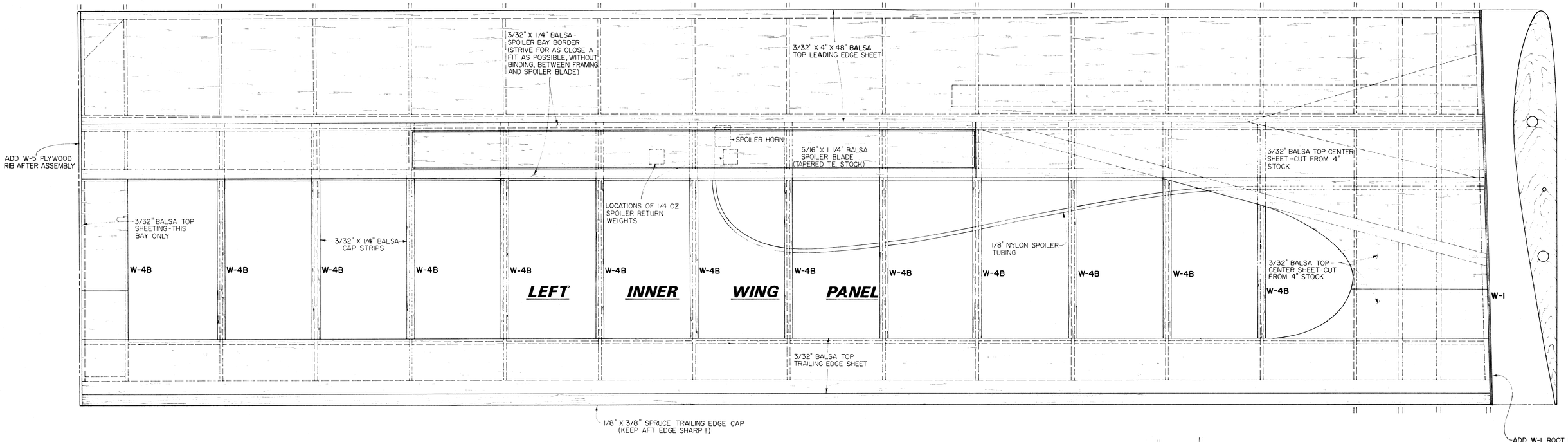
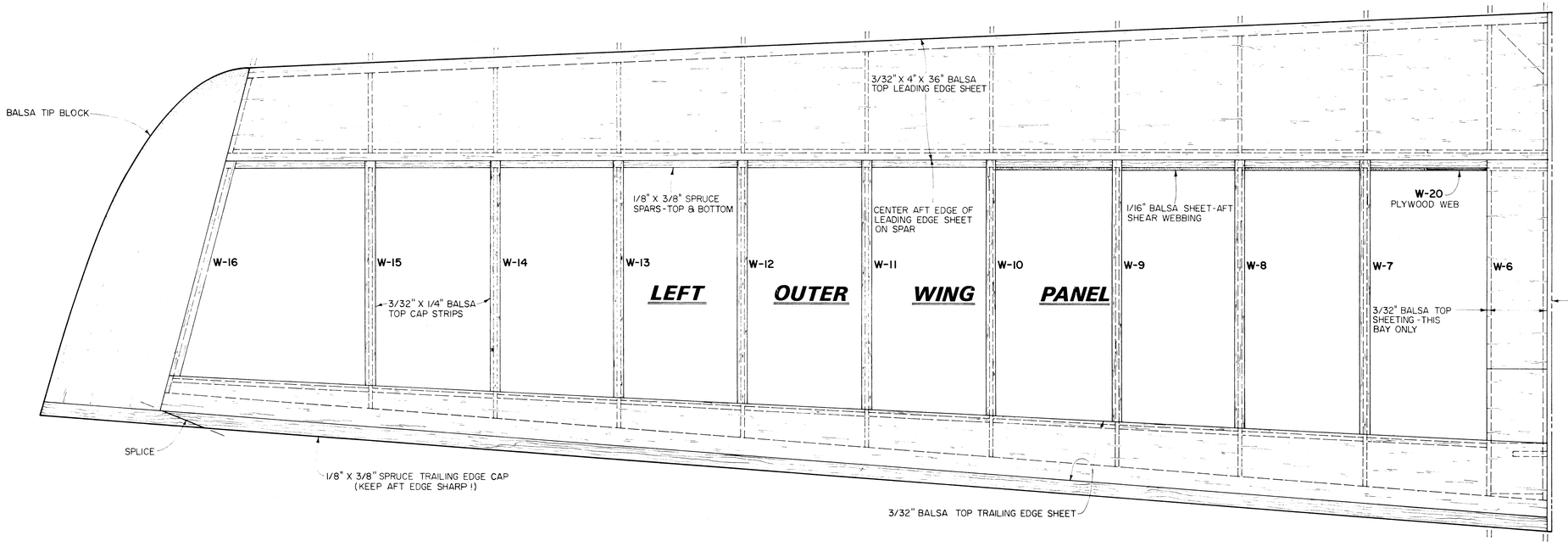
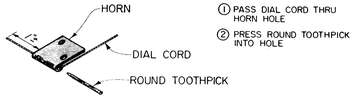




POLYHEDRAL DETAIL
NO SCALE



SPOILER HORN CONNECTION DETAIL
NO SCALE

SAGITTA XC

AIRTRONICS

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