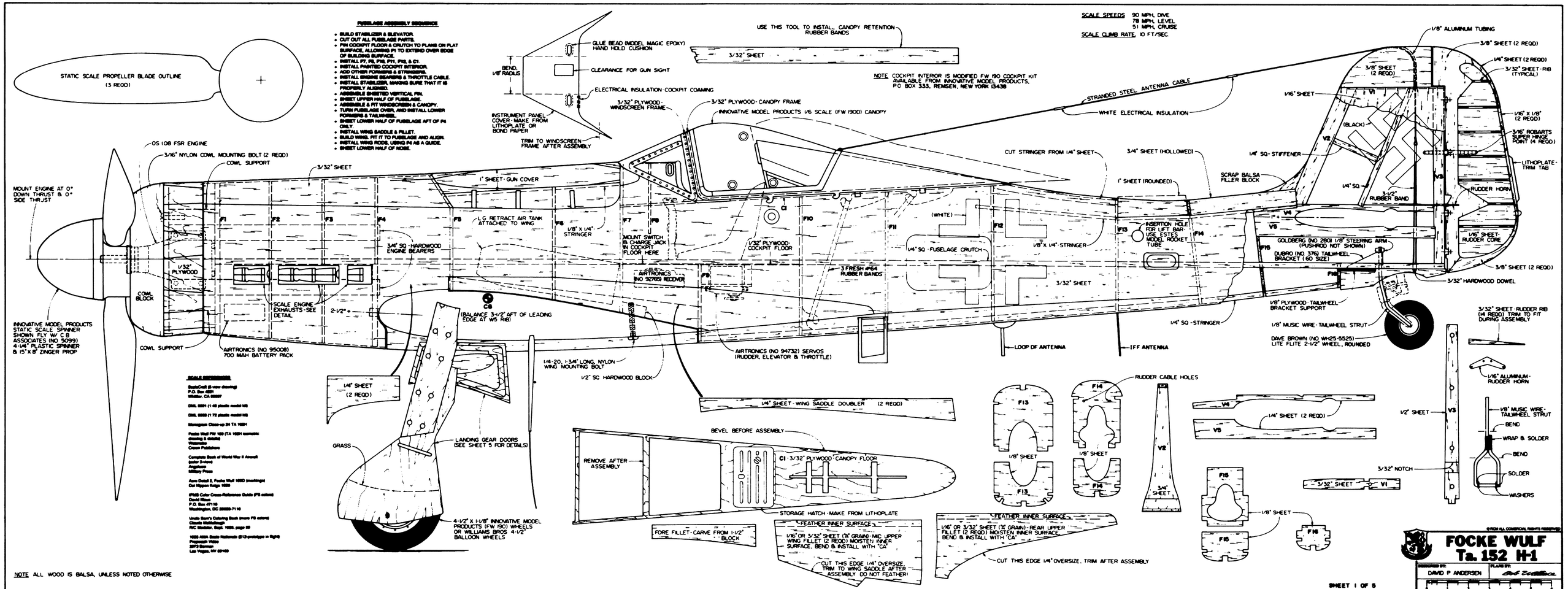
FUSELAGE ASSEMBLY SEQUENCE
• BUILD STABILIZER & ELEVATOR.
• CUT OUT ALL FUSELAGE PARTS.
• PIN COCKPIT FLOOR & CRUTCH TO FLANS ON FLAT SURFACE, ALLOWING F1 TO EXTEND OVER EDGE OF BUILDING SURFACE.
• INSTALL F7, F8, F10, F11, F12, & C1.
• INSTALL PAINTED COCKPIT INTERIOR.
• ADD OTHER FORMERS & STRINGERS.
• INSTALL ENGINE BEARERS & THROTTLE CABLE.
• INSTALL STABILIZER, MAKING SURE THAT IT IS PROPERLY ALIGNED.
• ASSEMBLE SHEETED VERTICAL FIN.
• SHEET UPPER HALF OF FUSELAGE.
• ASSEMBLE & FIT WINDSCREEN & CANOPY.
• TURN FUSELAGE OVER, AND INSTALL LOWER FORMERS & TAILWHEEL.
• SHEET LOWER HALF OF FUSELAGE AFT OF F4 ONLY.
• INSTALL WING SADDLE & FILLET.
• BUILD WING. FIT IT TO FUSELAGE AND ALIGN.
• INSTALL WING RODS, USING F4 AS A GUIDE.
• SHEET LOWER HALF OF NOSE.
SCALE SPEEDS 90 MPH, DIVE
78 MPH, LEVEL
51 MPH, CRUISE
SCALE CLIMB RATE 10 FT/SEC.
STATIC SCALE PROPELLER BLADE OUTLINE (3 REQD)
GLUE BEAD (MODEL MAGIC EPOXY) HAND HOLD CUSHION
BEND, 1/8" RADIUS
CLEARANCE FOR GUN SIGHT
ELECTRICAL INSULATION-COCKPIT COAMING
INSTRUMENT PANEL COVER-MAKE FROM LITHOPLATE OR BOND PAPER
TRIM TO WINDSCREEN FRAME AFTER ASSEMBLY
3/32" PLYWOOD-WINDSCREEN FRAME
3/32" PLYWOOD-CANOPY FRAME
INNOVATIVE MODEL PRODUCTS 1/6 SCALE (FW 190D) CANOPY
USE THIS TOOL TO INSTALL CANOPY RETENTION RUBBER BANDS
3/32" SHEET
NOTE COCKPIT INTERIOR IS MODIFIED FW 190 COCKPIT KIT AVAILABLE FROM INNOVATIVE MODEL PRODUCTS, P.O. BOX 333, REMSEN, NEW YORK 13438
STRANDED STEEL ANTENNA CABLE
WHITE ELECTRICAL INSULATION
OS 108 FSR ENGINE
3/16" NYLON COWL MOUNTING BOLT (2 REQD)
COWL SUPPORT
3/32" SHEET
MOUNT ENGINE AT 0° DOWN THRUST & 0° SIDE THRUST
1" SHEET-GUN COVER
L.G. RETRACT AIR TANK ATTACHED TO WING
1/8" X 1/4" STRINGER
MOUNT SWITCH & CHARGE JACK IN COCKPIT FLOOR HERE
1/32" PLYWOOD-COCKPIT FLOOR
3/4" SQ-HARDWOOD ENGINE BEARERS
1/32" PLYWOOD
COWL BLOCK
SCALE ENGINE EXHAUSTS-SEE DETAIL
2-1/2"
AIRTRONICS (NO 92655) RECEIVER
3 FRESH #64 RUBBER BANDS
(BALANCE 3-1/2" AFT OF LEADING EDGE AT W5 RIB)
INNOVATIVE MODEL PRODUCTS STATIC SCALE SPINNER SHOWN FLY W/ C.B. ASSOCIATES (NO 5099) 4-1/4" PLASTIC SPINNER & 15" X 8" ZINGER PROP
COWL SUPPORT
AIRTRONICS (NO 95008) 700 MAH BATTERY PACK
1/4-20, 1-3/4" LONG, NYLON WING MOUNTING BOLT
1/2" SQ HARDWOOD BLOCK
AIRTRONICS (NO 94732) SERVOS (RUDDER, ELEVATOR & THROTTLE)
CUT STRINGER FROM 1/4" SHEET
3/4" SHEET (HOLLOWED)
1" SHEET (ROUNDED)
SCRAP BALSA FILLER BLOCK
(WHITE)
1/4" SQ-FUSELAGE CRUTCH
1/8" X 1/4" STRINGER
INSERTION HOLE FOR LIFT BAR-USE ESTES MODEL ROCKET TUBE
3/32" SHEET
1/4" SQ-STRINGER
LOOP OF ANTENNA
IFF ANTENNA
1/8" ALUMINUM TUBING
3/8" SHEET (2 REQD)
1/4" SHEET (2 REQD)
3/32" SHEET-RIB (TYPICAL)
3/8" SHEET (2 REQD)
1/16" SHEET
(BLACK)
1/4" SQ-STIFFENER
1/16" X 1/8" (2 REQD)
3/16" ROBARTS SUPER HINGE POINT (4 REQD)
LITHOPLATE-TRIM TAB
1/4" SQ
3-1/2" RUBBER BAND
RUDDER HORN
1/16" SHEET-RUDDER CORE
GOLDBERG (NO 2801) 1/8" STEERING ARM (PUSHROD NOT SHOWN)
DUBRO (NO 376) TAILWHEEL BRACKET (60 SIZE)
3/8" SHEET (2 REQD)
3/32" HARDWOOD DOWEL
1/8" PLYWOOD-TAILWHEEL BRACKET SUPPORT
1/8" MUSIC WIRE-TAILWHEEL STRUT
DAVE BROWN (NO WH25-5525) LITE FLITE 2-1/2" WHEEL, ROUNDED
3/32" SHEET-RUDDER RIB (14 REQD) TRIM TO FIT DURING ASSEMBLY
1/16" ALUMINUM-RUDDER HORN
1/2" SHEET
1/8" MUSIC WIRE-TAILWHEEL STRUT
BEND
WRAP & SOLDER
BEND
SOLDER
WASHERS
3/32" NOTCH
3/32" SHEET
V1
1/4" SHEET (2 REQD)
V4
V5
V2
V3
F1
F2
F3
F4
F5
F6
F7
F8
F9
F10
F11
F12
F13
F14
F15
F16
C1
C6
1/4" SHEET (2 REQD)
GRASS
LANDING GEAR DOORS (SEE SHEET 5 FOR DETAILS)
4-1/2" X 1-1/8" INNOVATIVE MODEL PRODUCTS (FW 190) WHEELS OR WILLIAMS BROS 4-1/2" BALLOON WHEELS
1/4" SHEET-WING SADDLE DOUBLER (2 REQD)
BEVEL BEFORE ASSEMBLY
REMOVE AFTER ASSEMBLY
C1-3/32" PLYWOOD-CANOPY FLOOR
STORAGE HATCH-MAKE FROM LITHOPLATE
FORE FILLET-CARVE FROM 1-1/2" BLOCK
FEATHER INNER SURFACE
1/16" OR 3/32" SHEET (1/4" GRAIN)-MID UPPER WING FILLET (2 REQD) MOISTEN INNER SURFACE, BEND & INSTALL WITH "CA"
CUT THIS EDGE 1/4" OVERSIZE. TRIM TO WING SADDLE AFTER ASSEMBLY. DO NOT FEATHER!
FEATHER INNER SURFACE
1/16" OR 3/32" SHEET (1/4" GRAIN)-REAR UPPER FILLET (2 REQD) MOISTEN INNER SURFACE, BEND & INSTALL WITH "CA"
CUT THIS EDGE 1/4" OVERSIZE. TRIM AFTER ASSEMBLY
RUDDER CABLE HOLES
1/8" SHEET
3/4" SHEET
NOTE ALL WOOD IS BALSA, UNLESS NOTED OTHERWISE
SHEET 1 OF 5
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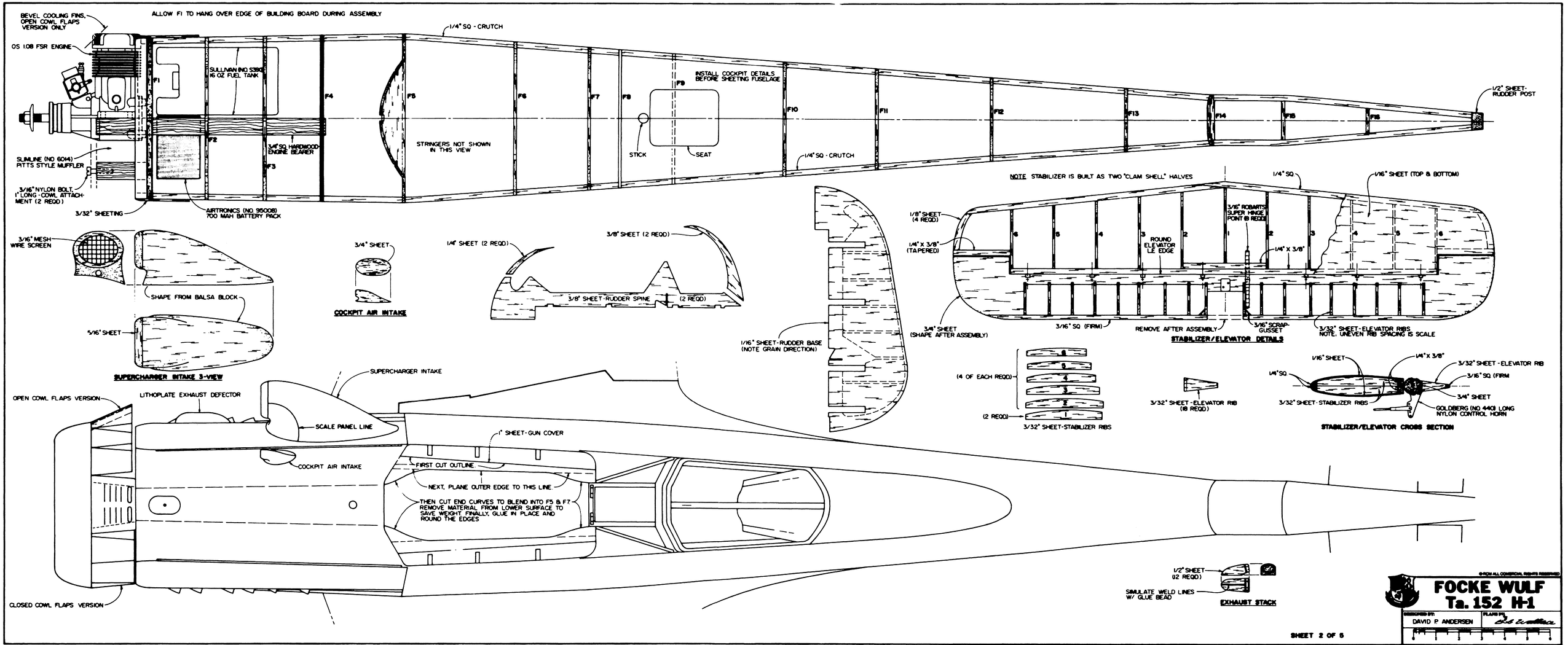
DESIGNED BY: DAVID P. ANDERSEN
PLANS BY:
PLAN NO. 1242


BEVEL COOLING FINS, OPEN COWL FLAPS VERSION ONLY
ALLOW F1 TO HANG OVER EDGE OF BUILDING BOARD DURING ASSEMBLY
1/4" SQ - CRUTCH
OS 108 FSR ENGINE
SULLIVAN (NO 5390) 16 OZ FUEL TANK
INSTALL COCKPIT DETAILS BEFORE SHEETING FUSELAGE
1/2" SHEET-RUDDER POST
F1
F2
F3
F4
F5
F6
F7
F8
F9
F10
F11
F12
F13
F14
F15
F16
3/4" SQ HARDWOOD ENGINE BEARER
STRINGERS NOT SHOWN IN THIS VIEW
STICK
SEAT
1/4" SQ - CRUTCH
SLIMLINE (NO 6014) PITTS STYLE MUFFLER
3/16" NYLON BOLT, 1" LONG - COWL ATTACHMENT (2 REQD)
3/32" SHEETING
AIRTRONICS (NO 95008) 700 MAH BATTERY PACK
NOTE STABILIZER IS BUILT AS TWO "CLAM SHELL" HALVES
1/4" SQ
1/16" SHEET (TOP & BOTTOM)
1/8" SHEET (4 REQD)
1/4" X 3/8" (TAPERED)
3/16" ROBARTS SUPER HINGE POINT (8 REQD)
ROUND ELEVATOR LE EDGE
1/4" X 3/8"
3/4" SHEET (SHAPE AFTER ASSEMBLY)
3/16" SQ (FIRM)
REMOVE AFTER ASSEMBLY
3/16" SCRAP GUSSET
3/32" SHEET-ELEVATOR RIBS NOTE, UNEVEN RIB SPACING IS SCALE
STABILIZER/ELEVATOR DETAILS
3/16" MESH WIRE SCREEN
SHAPE FROM BALSA BLOCK
5/16" SHEET
SUPERCHARGER INTAKE 3-VIEW
3/4" SHEET
COCKPIT AIR INTAKE
1/4" SHEET (2 REQD)
3/8" SHEET (2 REQD)
3/8" SHEET-RUDDER SPINE (2 REQD)
1/16" SHEET-RUDDER BASE (NOTE GRAIN DIRECTION)
(4 OF EACH REQD)
(2 REQD)
3/32" SHEET-STABILIZER RIBS
3/32" SHEET-ELEVATOR RIB (18 REQD)
1/16" SHEET
1/4" X 3/8"
3/32" SHEET-ELEVATOR RIB
1/4" SQ
3/16" SQ (FIRM)
3/4" SHEET
3/32" SHEET-STABILIZER RIBS
GOLDBERG (NO 440) LONG NYLON CONTROL HORN
STABILIZER/ELEVATOR CROSS SECTION
SUPERCHARGER INTAKE
OPEN COWL FLAPS VERSION
LITHOPLATE EXHAUST DEFECTOR
SCALE PANEL LINE
1" SHEET-GUN COVER
COCKPIT AIR INTAKE
FIRST CUT OUTLINE
NEXT, PLANE OUTER EDGE TO THIS LINE
THEN CUT END CURVES TO BLEND INTO F5 & F7 REMOVE MATERIAL FROM LOWER SURFACE TO SAVE WEIGHT FINALLY, GLUE IN PLACE AND ROUND THE EDGES
CLOSED COWL FLAPS VERSION
1/2" SHEET (12 REQD)
SIMULATE WELD LINES W/ GLUE BEAD
EXHAUST STACK
SHEET 2 OF 5
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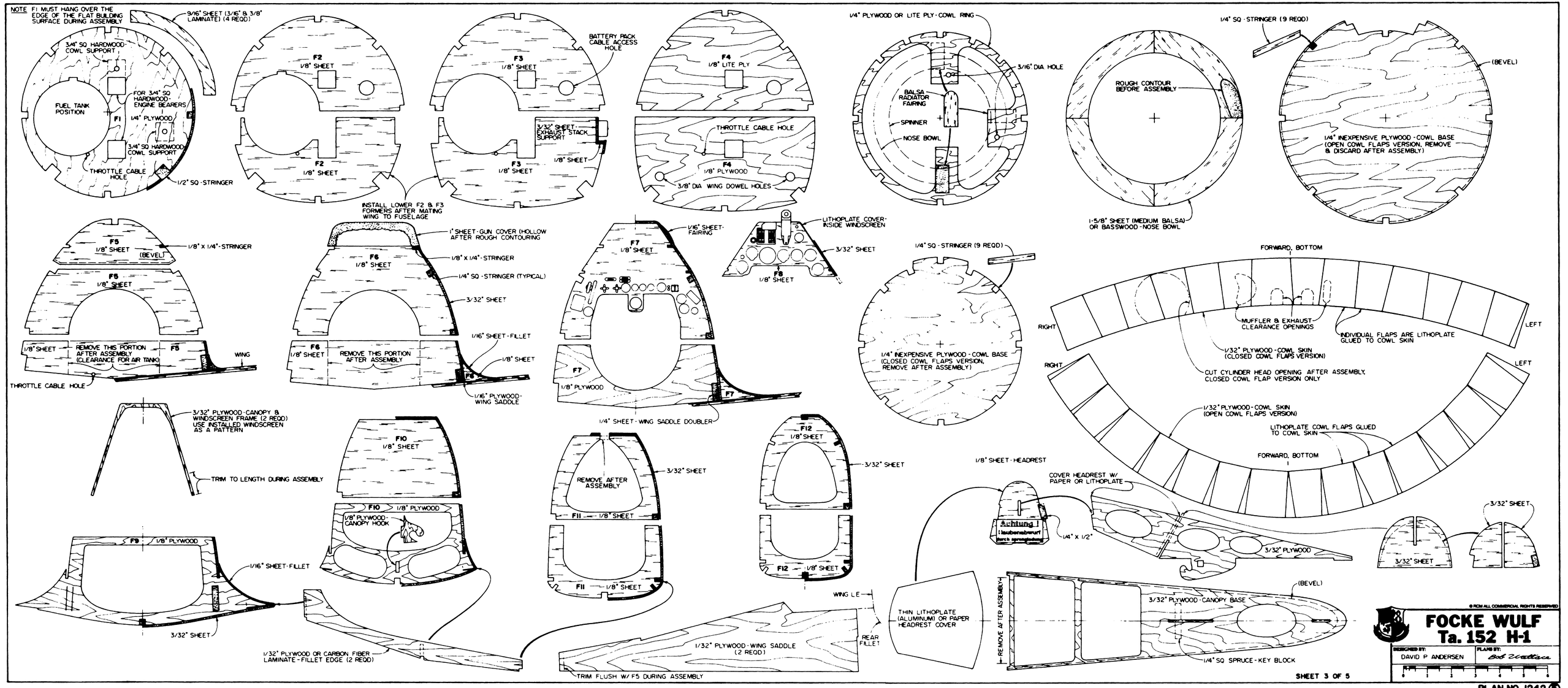
NOTE F1 MUST HANG OVER THE EDGE OF THE FLAT BUILDING SURFACE DURING ASSEMBLY
9/16" SHEET (3/16" & 3/8" LAMINATE) (4 REQD)
3/4" SQ HARDWOOD COWL SUPPORT
FUEL TANK POSITION
F1
FOR 3/4" SQ HARDWOOD ENGINE BEARERS
1/4" PLYWOOD
3/4" SQ HARDWOOD COWL SUPPORT
THROTTLE CABLE HOLE
1/2" SQ-STRINGER
F2
1/8" SHEET
F2
1/8" SHEET
F3
1/8" SHEET
BATTERY PACK CABLE ACCESS HOLE
3/32" SHEET EXHAUST STACK SUPPORT
1/8" SHEET
F3
1/8" SHEET
INSTALL LOWER F2 & F3 FORMERS AFTER MATING WING TO FUSELAGE
F4
1/8" LITE PLY
THROTTLE CABLE HOLE
F4
1/8" PLYWOOD
3/8" DIA WING DOWEL HOLES
1/4" PLYWOOD OR LITE PLY-COWL RING
3/16" DIA HOLE
BALSA RADIATOR FAIRING
SPINNER
NOSE BOWL
ROUGH CONTOUR BEFORE ASSEMBLY
1-5/8" SHEET (MEDIUM BALSA) OR BASSWOOD-NOSE BOWL
1/4" SQ-STRINGER (9 REQD)
(BEVEL)
1/4" INEXPENSIVE PLYWOOD-COWL BASE (OPEN COWL FLAPS VERSION, REMOVE & DISCARD AFTER ASSEMBLY)
F5
1/8" SHEET
(BEVEL)
1/8" x 1/4"-STRINGER
F5
1/8" SHEET
1/8" SHEET
REMOVE THIS PORTION AFTER ASSEMBLY (CLEARANCE FOR AIR TANK)
F5
WING
THROTTLE CABLE HOLE
1" SHEET-GUN COVER (HOLLOW AFTER ROUGH CONTOURING
F6
1/8" SHEET
1/8" x 1/4"-STRINGER
1/4" SQ-STRINGER (TYPICAL)
3/32" SHEET
1/16" SHEET-FILLET
F6
1/8" SHEET
REMOVE THIS PORTION AFTER ASSEMBLY
1/8" SHEET
F6
1/16" PLYWOOD-WING SADDLE
F7
1/8" SHEET
1/16" SHEET-FAIRING
F7
1/8" PLYWOOD
F7
1/4" SHEET-WING SADDLE DOUBLER
LITHOPLATE COVER-INSIDE WINDSCREEN
3/32" SHEET
F8
1/8" SHEET
1/4" SQ-STRINGER (9 REQD)
1/4" INEXPENSIVE PLYWOOD-COWL BASE (CLOSED COWL FLAPS VERSION, REMOVE AFTER ASSEMBLY)
FORWARD, BOTTOM
RIGHT
LEFT
MUFFLER & EXHAUST CLEARANCE OPENINGS
INDIVIDUAL FLAPS ARE LITHOPLATE GLUED TO COWL SKIN
1/32" PLYWOOD-COWL SKIN (CLOSED COWL FLAPS VERSION)
CUT CYLINDER HEAD OPENING AFTER ASSEMBLY, CLOSED COWL FLAP VERSION ONLY
1/32" PLYWOOD-COWL SKIN (OPEN COWL FLAPS VERSION)
LITHOPLATE COWL FLAPS GLUED TO COWL SKIN
FORWARD, BOTTOM
3/32" PLYWOOD-CANOPY & WINDSCREEN FRAME (2 REQD) USE INSTALLED WINDSCREEN AS A PATTERN
TRIM TO LENGTH DURING ASSEMBLY
F10
1/8" SHEET
F10
1/8" PLYWOOD
1/8" PLYWOOD-CANOPY HOOK
REMOVE AFTER ASSEMBLY
3/32" SHEET
F11
1/8" SHEET
F11
1/8" SHEET
F12
1/8" SHEET
3/32" SHEET
F12
1/8" SHEET
1/8" SHEET-HEADREST
COVER HEADREST W/ PAPER OR LITHOPLATE
Achtung!
1/4" x 1/2"
3/32" PLYWOOD
3/32" SHEET
3/32" SHEET
F9
1/8" PLYWOOD
1/16" SHEET-FILLET
3/32" SHEET
1/32" PLYWOOD OR CARBON FIBER LAMINATE-FILLET EDGE (2 REQD)
WING LE
1/32" PLYWOOD-WING SADDLE (2 REQD)
REAR FILLET
TRIM FLUSH W/ F5 DURING ASSEMBLY
THIN LITHOPLATE (ALUMINUM) OR PAPER HEADREST COVER
REMOVE AFTER ASSEMBLY
3/32" PLYWOOD-CANOPY BASE
(BEVEL)
1/4" SQ SPRUCE-KEY BLOCK
SHEET 3 OF 5
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Ta. 152 H-1
DESIGNED BY:
DAVID P ANDERSEN
PLANS BY:
Bob Wallace
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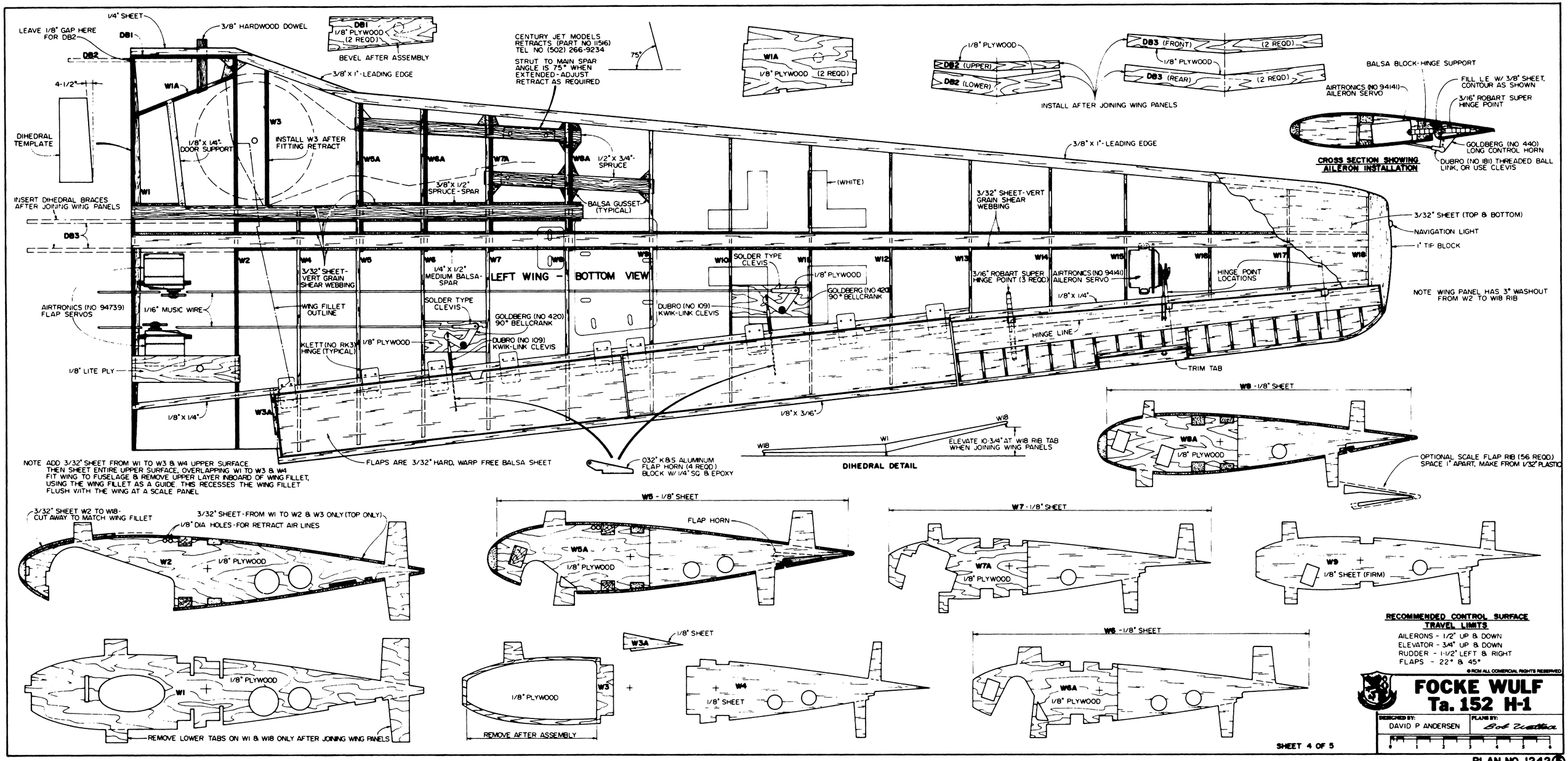

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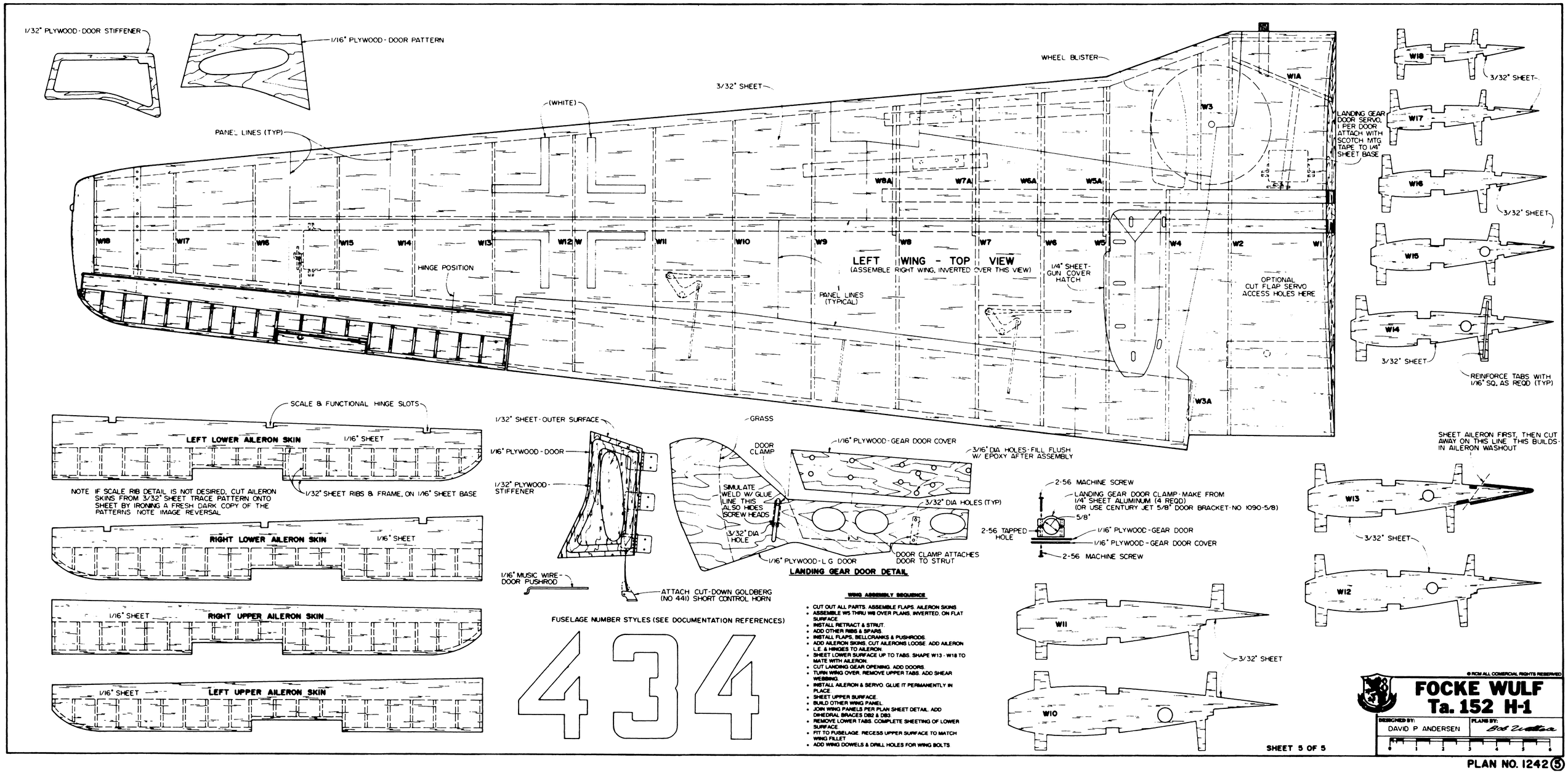
1/32" PLYWOOD - DOOR STIFFENER
1/16" PLYWOOD - DOOR PATTERN
WHEEL BLISTER
3/32" SHEET
(WHITE)
PANEL LINES (TYP)
W1A
W3
LANDING GEAR DOOR SERVO, 1 PER DOOR ATTACH WITH SCOTCH MTG TAPE TO 1/4" SHEET BASE
W8A
W7A
W6A
W5A
W19
W17
W16
W15
W14
W13
W12
W11
W10
W9
W8
W7
W6
W5
W4
W2
W1
HINGE POSITION
LEFT WING - TOP VIEW
(ASSEMBLE RIGHT WING, INVERTED OVER THIS VIEW)
PANEL LINES (TYPICAL)
1/4" SHEET - GUN COVER HATCH
OPTIONAL CUT FLAP SERVO ACCESS HOLES HERE
W3A
W18
3/32" SHEET
W17
W16
3/32" SHEET
W15
W14
3/32" SHEET
REINFORCE TABS WITH 1/16" SQ. AS REQD (TYP)
SCALE & FUNCTIONAL HINGE SLOTS
LEFT LOWER AILERON SKIN
1/16" SHEET
1/32" SHEET RIBS & FRAME, ON 1/16" SHEET BASE
NOTE IF SCALE RIB DETAIL IS NOT DESIRED, CUT AILERON SKINS FROM 3/32" SHEET TRACE PATTERN ONTO SHEET BY IRONING A FRESH DARK COPY OF THE PATTERNS NOTE IMAGE REVERSAL
RIGHT LOWER AILERON SKIN
1/16" SHEET
1/16" SHEET
RIGHT UPPER AILERON SKIN
1/16" SHEET
LEFT UPPER AILERON SKIN
1/32" SHEET - OUTER SURFACE
1/16" PLYWOOD - DOOR
1/32" PLYWOOD - STIFFENER
1/16" MUSIC WIRE - DOOR PUSHROD
ATTACH CUT-DOWN GOLDBERG (NO 441) SHORT CONTROL HORN
GRASS
DOOR CLAMP
1/16" PLYWOOD - GEAR DOOR COVER
3/16" DIA HOLES - FILL FLUSH W/ EPOXY AFTER ASSEMBLY
SIMULATE WELD W/ GLUE LINE THIS ALSO HIDES SCREW HEADS
3/32" DIA HOLES (TYP)
3/32" DIA HOLE
1/16" PLYWOOD - L G DOOR
DOOR CLAMP ATTACHES DOOR TO STRUT
LANDING GEAR DOOR DETAIL
2-56 MACHINE SCREW
LANDING GEAR DOOR CLAMP - MAKE FROM 1/4" SHEET ALUMINUM (4 REQD) (OR USE CENTURY JET 5/8" DOOR BRACKET - NO 1090-5/8)
5/8"
2-56 TAPPED HOLE
1/16" PLYWOOD - GEAR DOOR
1/16" PLYWOOD - GEAR DOOR COVER
2-56 MACHINE SCREW
SHEET AILERON FIRST, THEN CUT AWAY ON THIS LINE THIS BUILDS IN AILERON WASHOUT
W13
3/32" SHEET
W12
FUSELAGE NUMBER STYLES (SEE DOCUMENTATION REFERENCES)
434
WING ASSEMBLY SEQUENCE
• CUT OUT ALL PARTS. ASSEMBLE FLAPS. AILERON SKINS
• ASSEMBLE W5 THRU W8 OVER PLANS, INVERTED, ON FLAT SURFACE.
• INSTALL RETRACT & STRUT.
• ADD OTHER RIBS & SPARS.
• INSTALL FLAPS, BELLCRANKS & PUSHRODS.
• ADD AILERON SKINS. CUT AILERONS LOOSE. ADD AILERON L.E. & HINGES TO AILERON.
• SHEET LOWER SURFACE UP TO TABS. SHAPE W13 - W18 TO MATE WITH AILERON.
• CUT LANDING GEAR OPENING. ADD DOORS.
• TURN WING OVER, REMOVE UPPER TABS. ADD SHEAR WEBBING.
• INSTALL AILERON & SERVO. GLUE IT PERMANENTLY IN PLACE.
• SHEET UPPER SURFACE.
• BUILD OTHER WING PANEL.
• JOIN WING PANELS PER PLAN SHEET DETAIL. ADD DIHEDRAL BRACES DB2 & DB3.
• REMOVE LOWER TABS. COMPLETE SHEETING OF LOWER SURFACE.
• FIT TO FUSELAGE. RECESS UPPER SURFACE TO MATCH WING FILLET.
• ADD WING DOWELS & DRILL HOLES FOR WING BOLTS.
W11
3/32" SHEET
W10
SHEET 5 OF 5
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