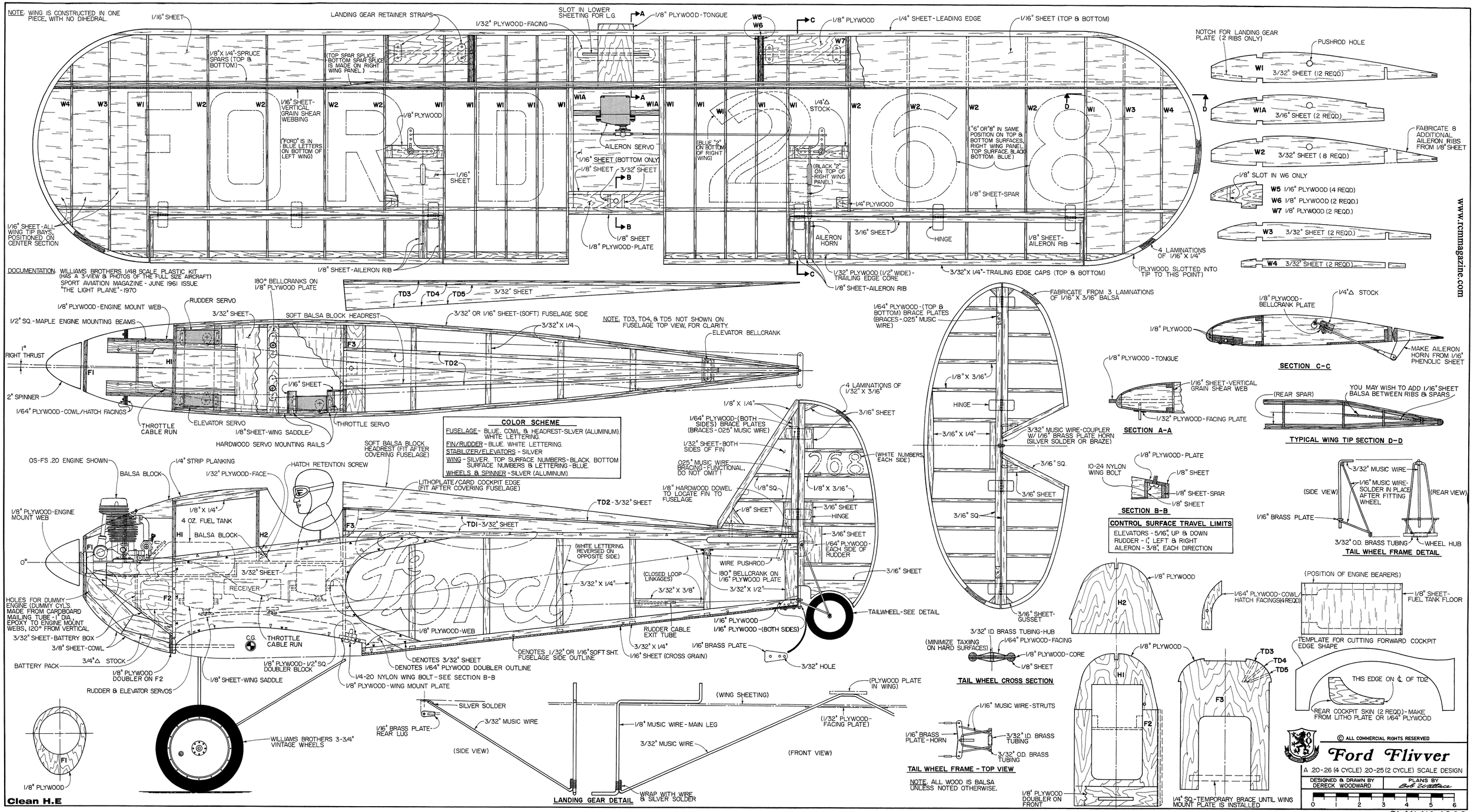
NOTE: WING IS CONSTRUCTED IN ONE PIECE, WITH NO DIHEDRAL.
1/16" SHEET
LANDING GEAR RETAINER STRAPS
SLOT IN LOWER SHEETING FOR L.G.
1/32" PLYWOOD-FACING
1/8" PLYWOOD-TONGUE
W5
W6
W7
1/8" PLYWOOD
1/4" SHEET-LEADING EDGE
1/16" SHEET (TOP & BOTTOM)
1/8"X 1/4"-SPRUCE SPARS (TOP & BOTTOM)
(TOP SPAR SPLICE. BOTTOM SPAR SPLICE IS MADE ON RIGHT WING PANEL.)
1/16" SHEET-VERTICAL GRAIN SHEAR WEBBING
1/8" PLYWOOD
("FORD" IS IN BLUE LETTERS ON BOTTOM OF LEFT WING)
1/16" SHEET
AILERON SERVO
1/16" SHEET (BOTTOM ONLY)
1/8" SHEET
3/32" SHEET
(BLUE "2" ON BOTTOM OF RIGHT WING)
1/4"Δ STOCK
("6" OR "8" IN SAME POSITION ON TOP & BOTTOM SURFACES, RIGHT WING PANEL. TOP SURFACE, BLACK. BOTTOM, BLUE)
(BLACK "2" ON TOP OF RIGHT WING PANEL)
1/4" PLYWOOD
1/8" SHEET-SPAR
1/8" SHEET
1/8" PLYWOOD-PLATE
AILERON HORN
3/16" SHEET
HINGE
1/8" SHEET-AILERON RIB
4 LAMINATIONS OF 1/16" X 1/4"
(PLYWOOD SLOTTED INTO TIP TO THIS POINT)
1/16" SHEET-ALL WING TIP BAYS, POSITIONED ON CENTER SECTION
1/8" SHEET-AILERON RIB
1/32" PLYWOOD (1/2" WIDE)-TRAILING EDGE CORE
3/32"X 1/4"-TRAILING EDGE CAPS (TOP & BOTTOM)
1/8" SHEET-AILERON RIB
NOTCH FOR LANDING GEAR PLATE (2 RIBS ONLY)
PUSHROD HOLE
W1 3/32" SHEET (12 REQD.)
W1A 3/16" SHEET (2 REQD.)
W2 3/32" SHEET (8 REQD.)
FABRICATE 8 ADDITIONAL AILERON RIBS FROM 1/8" SHEET
1/8" SLOT IN W6 ONLY
W5 1/16" PLYWOOD (4 REQD.)
W6 1/8" PLYWOOD (2 REQD.)
W7 1/8" PLYWOOD (2 REQD.)
W3 3/32" SHEET (2 REQD.)
W4 3/32" SHEET (2 REQD.)
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DOCUMENTATION: WILLIAMS BROTHERS 1/48 SCALE PLASTIC KIT (HAS A 3-VIEW & PHOTOS OF THE FULL SIZE AIRCRAFT)
SPORT AVIATION MAGAZINE - JUNE 1961 ISSUE
"THE LIGHT PLANE"-1970
180° BELLCRANKS ON 1/8" PLYWOOD PLATE
TD3 TD4 TD5 3/32" SHEET
1/8" PLYWOOD-ENGINE MOUNT WEB
RUDDER SERVO
3/32" SHEET
SOFT BALSA BLOCK HEADREST
3/32" OR 1/16" SHEET-(SOFT) FUSELAGE SIDE
1/2" SQ.-MAPLE ENGINE MOUNTING BEAMS
3/32" X 1/4
NOTE: TD3, TD4, & TD5 NOT SHOWN ON FUSELAGE TOP VIEW, FOR CLARITY.
ELEVATOR BELLCRANK
1° RIGHT THRUST
F1
H1
F3
TD2
1/16" SHEET
2" SPINNER
1/64" PLYWOOD-COWL/HATCH FACINGS
THROTTLE CABLE RUN
ELEVATOR SERVO
1/8" SHEET-WING SADDLE
THROTTLE SERVO
HARDWOOD SERVO MOUNTING RAILS
COLOR SCHEME
FUSELAGE- BLUE. COWL & HEADREST-SILVER (ALUMINUM). WHITE LETTERING.
FIN/RUDDER - BLUE. WHITE LETTERING.
STABILIZER/ELEVATORS - SILVER
WING - SILVER. TOP SURFACE NUMBERS-BLACK. BOTTOM SURFACE NUMBERS & LETTERING - BLUE.
WHEELS & SPINNER - SILVER (ALUMINUM).
SOFT BALSA BLOCK HEADREST (FIT AFTER COVERING FUSELAGE)
OS-FS .20 ENGINE SHOWN
1/4" STRIP PLANKING
BALSA BLOCK
1/32" PLYWOOD-FACE
HATCH RETENTION SCREW
LITHOPLATE/CARD COCKPIT EDGE (FIT AFTER COVERING FUSELAGE)
1/8" PLYWOOD-ENGINE MOUNT WEB
1/8" X 1/4"
4 OZ. FUEL TANK
BALSA BLOCK
H1
H2
TD2-3/32" SHEET
TD1-3/32" SHEET
0°
3/32" SHEET
RECEIVER
F2
HOLES FOR DUMMY ENGINE (DUMMY CYL'S. MADE FROM CARDBOARD MAILING TUBE-1" DIA. EPOXY TO ENGINE MOUNT WEBS, 120° FROM VERTICAL
3/32" SHEET-BATTERY BOX
3/8" SHEET-COWL
3/4"Δ STOCK
BATTERY PACK
1/8" PLYWOOD DOUBLER ON F2
RUDDER & ELEVATOR SERVOS
C.G.
THROTTLE CABLE RUN
1/8" PLYWOOD-WEB
1/8" PLYWOOD-1/2" SQ. DOUBLER BLOCK
1/8" SHEET-WING SADDLE
DENOTES 3/32" SHEET
DENOTES 1/64" PLYWOOD DOUBLER OUTLINE
1/4-20 NYLON WING BOLT-SEE SECTION B-B
1/8" PLYWOOD-WING MOUNT PLATE
DENOTES 1/32" OR 1/16" SOFT SHT. FUSELAGE SIDE OUTLINE
(WHITE LETTERING. REVERSED ON OPPOSITE SIDE)
(CLOSED LOOP LINKAGES)
3/32" X 1/4"
3/32" X 3/8"
3/32" X 1/2"
WIRE PUSHROD
180° BELLCRANK ON 1/16" PLYWOOD PLATE
RUDDER CABLE EXIT TUBE
3/32" X 1/4"
1/16" SHEET (CROSS GRAIN)
1/16" PLYWOOD
1/16" PLYWOOD-(BOTH SIDES)
1/16" BRASS PLATE
3/32" HOLE
TAILWHEEL-SEE DETAIL
1/8" X 1/4"
1/64" PLYWOOD-(BOTH SIDES) BRACE PLATES (BRACES-.025" MUSIC WIRE)
1/32" SHEET-BOTH SIDES OF FIN
.025" MUSIC WIRE BRACING-FUNCTIONAL, DO NOT OMIT!
1/8" HARDWOOD DOWEL TO LOCATE FIN TO FUSELAGE
4 LAMINATIONS OF 1/32" X 3/16"
3/16" SHEET
(WHITE NUMBERS, EACH SIDE)
1/8" SQ.
1/8" X 3/16"
1/8" SHEET
3/16" SHEET
HINGE
3/16" SHEET
1/64" PLYWOOD-EACH SIDE OF RUDDER
3/16" SHEET
1/64" PLYWOOD-(TOP & BOTTOM) BRACE PLATES (BRACES-.025" MUSIC WIRE)
FABRICATE FROM 3 LAMINATIONS OF 1/16" X 3/16" BALSA
1/8" X 3/16"
HINGE
3/16" X 1/4"
3/32" MUSIC WIRE-COUPLER W/ 1/16" BRASS PLATE HORN (SILVER SOLDER OR BRAZE)
3/16" SQ.
3/16" SHEET
3/16" SQ.
3/16" SHEET-GUSSET
1/8" PLYWOOD-BELLCRANK PLATE
1/4"Δ STOCK
1/8" PLYWOOD
MAKE AILERON HORN FROM 1/16" PHENOLIC SHEET
SECTION C-C
1/8" PLYWOOD-TONGUE
1/16" SHEET-VERTICAL GRAIN SHEAR WEB
1/32" PLYWOOD-FACING PLATE
SECTION A-A
(REAR SPAR)
YOU MAY WISH TO ADD 1/16" SHEET BALSA BETWEEN RIBS & SPARS
TYPICAL WING TIP SECTION D-D
1/8" PLYWOOD-PLATE
10-24 NYLON WING BOLT
1/8" SHEET
1/8" SHEET-SPAR
1/8" SHEET
SECTION B-B
CONTROL SURFACE TRAVEL LIMITS
ELEVATORS - 5/16" UP & DOWN
RUDDER - 1" LEFT & RIGHT
AILERON - 3/8" EACH DIRECTION
3/32" MUSIC WIRE
1/16" MUSIC WIRE-SOLDER IN PLACE AFTER FITTING WHEEL
(SIDE VIEW)
(REAR VIEW)
1/16" BRASS PLATE
3/32" O.D. BRASS TUBING
WHEEL HUB
TAIL WHEEL FRAME DETAIL
1/8" PLYWOOD
H2
3/32" I.D. BRASS TUBING-HUB
(MINIMIZE TAXIING ON HARD SURFACES)
1/64" PLYWOOD-FACING
1/8" PLYWOOD-CORE
1/8" SHEET
TAIL WHEEL CROSS SECTION
(POSITION OF ENGINE BEARERS)
1/64" PLYWOOD-COWL HATCH FACINGS(4 REQD.)
1/8" SHEET-FUEL TANK FLOOR
TEMPLATE FOR CUTTING FORWARD COCKPIT EDGE SHAPE
1/8" PLYWOOD
TD3
TD4
TD5
THIS EDGE ON ℄ OF TD2
REAR COCKPIT SKIN (2 REQD.)-MAKE FROM LITHO PLATE OR 1/64" PLYWOOD
1/16" MUSIC WIRE-STRUTS
1/16" BRASS PLATE-HORN
3/32" I.D. BRASS TUBING
3/32" O.D. BRASS TUBING
TAIL WHEEL FRAME - TOP VIEW
NOTE: ALL WOOD IS BALSA UNLESS NOTED OTHERWISE.
1/8" PLYWOOD
F1
1/8" PLYWOOD
Clean H.E
WILLIAMS BROTHERS 3-3/4" VINTAGE WHEELS
SILVER SOLDER
1/16" BRASS PLATE-REAR LUG
3/32" MUSIC WIRE
(SIDE VIEW)
1/8" MUSIC WIRE-MAIN LEG
3/32" MUSIC WIRE
(WING SHEETING)
(PLYWOOD PLATE IN WING)
(1/32" PLYWOOD-FACING PLATE)
(FRONT VIEW)
WRAP WITH WIRE & SILVER SOLDER
LANDING GEAR DETAIL
1/8" PLYWOOD DOUBLER ON FRONT
1/4" SQ.-TEMPORARY BRACE UNTIL WING MOUNT PLATE IS INSTALLED
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Ford Flivver
A .20-26 (4 CYCLE) .20-25 (2 CYCLE) SCALE DESIGN
DESIGNED & DRAWN BY DERECK WOODWARD
PLANS BY Bob Wallace
0 1 2 3 4 5 6
PLAN NO. 1068