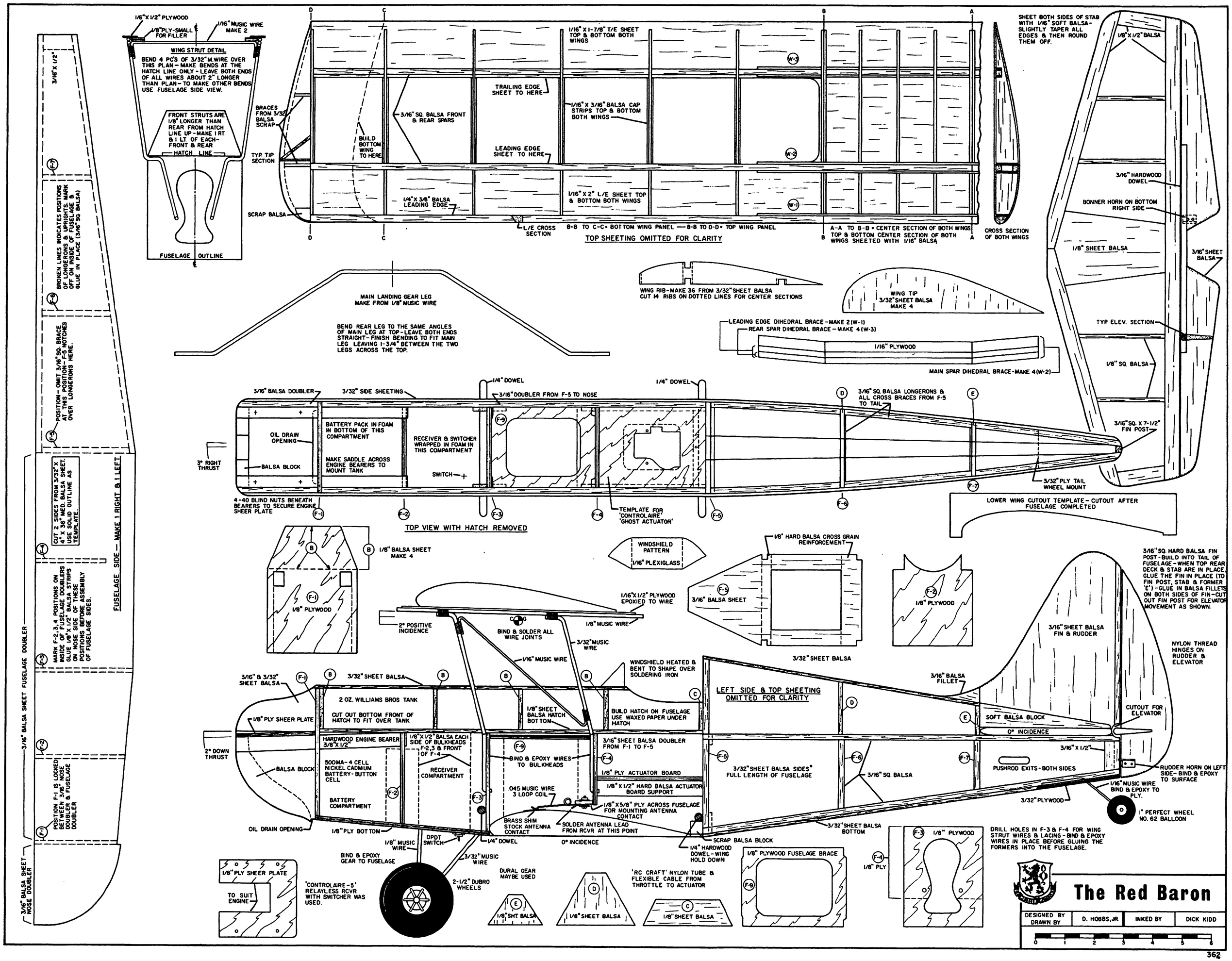
WING STRUT DETAIL
1/16" X 1/2" PLYWOOD
1/8" PLY-SMALL FOR FILLER
1/16" MUSIC WIRE MAKE 2
BEND 4 PC'S OF 3/32" M.WIRE OVER THIS PLAN - MAKE BENDS AT THE HATCH LINE ONLY - LEAVE BOTH ENDS OF ALL WIRES ABOUT 2" LONGER THAN PLAN - TO MAKE OTHER BENDS USE FUSELAGE SIDE VIEW.
FRONT STRUTS ARE 1/8" LONGER THAN REAR FROM HATCH LINE UP - MAKE 1 RT. & 1 LT. OF EACH - FRONT & REAR
HATCH LINE
FUSELAGE OUTLINE
1/16" X 1-7/8" T/E SHEET TOP & BOTTOM BOTH WINGS
TRAILING EDGE SHEET TO HERE
1/16" X 3/16" BALSA CAP STRIPS TOP & BOTTOM BOTH WINGS
3/16" SQ. BALSA FRONT & REAR SPARS
BRACES FROM 3/32 BALSA SCRAP
BUILD BOTTOM WING TO HERE
LEADING EDGE SHEET TO HERE
TYP. TIP SECTION
1/4" X 3/8" BALSA LEADING EDGE
1/16" X 2" L/E SHEET TOP & BOTTOM BOTH WINGS
SCRAP BALSA
L/E CROSS SECTION
B-B TO C-C = BOTTOM WING PANEL — B-B TO D-D = TOP WING PANEL
TOP SHEETING OMITTED FOR CLARITY
A-A TO B-B = CENTER SECTION OF BOTH WINGS TOP & BOTTOM CENTER SECTION OF BOTH WINGS SHEETED WITH 1/16" BALSA
CROSS SECTION OF BOTH WINGS
SHEET BOTH SIDES OF STAB WITH 1/16" SOFT BALSA - SLIGHTLY TAPER ALL EDGES & THEN ROUND THEM OFF.
1/8" X 1/2" BALSA
3/16" HARDWOOD DOWEL
BONNER HORN ON BOTTOM RIGHT SIDE
1/8" SHEET BALSA
3/16" SHEET BALSA
TYP. ELEV. SECTION
1/8" SQ. BALSA
3/16" X 1/2"
BROKEN LINES INDICATES POSITIONS OF LONGERONS & UPRIGHTS. MARK OFF ON INSIDE OF FUSELAGE & GLUE IN PLACE (3/16" SQ BALSA)
POSITION - OMIT 3/16" SQ. BRACE AT THIS POSITION - F-5 NOTCHES OVER LONGERONS HERE.
CUT 2 SIDES FROM 3/32" X 4" X 36" MED. BALSA SHEET. USE SOLID OUTLINE AS TEMPLATE.
MARK F-2,3,4 POSITIONS ON INSIDE OF FUSELAGE DOUBLERS GLUE 1/8" X 1/2" BALSA STRIPS ON NOSE SIDE OF THESE POSITIONS BEFORE ASSEMBLY OF FUSELAGE SIDES.
POSITION F-1 IS LOCKED BETWEEN 3/16" NOSE DOUBLER & FUSELAGE DOUBLER
FUSELAGE SIDE — MAKE 1 RIGHT & 1 LEFT
3/16" BALSA SHEET FUSELAGE DOUBLER
3/16" BALSA SHEET NOSE DOUBLER
MAIN LANDING GEAR LEG MAKE FROM 1/8" MUSIC WIRE
BEND REAR LEG TO THE SAME ANGLES OF MAIN LEG AT TOP - LEAVE BOTH ENDS STRAIGHT - FINISH BENDING TO FIT MAIN LEG LEAVING 1-3/4" BETWEEN THE TWO LEGS ACROSS THE TOP.
WING RIB - MAKE 36 FROM 3/32" SHEET BALSA CUT 14 RIBS ON DOTTED LINES FOR CENTER SECTIONS
WING TIP 3/32" SHEET BALSA MAKE 4
LEADING EDGE DIHEDRAL BRACE - MAKE 2 (W-1)
REAR SPAR DIHEDRAL BRACE - MAKE 4 (W-3)
1/16" PLYWOOD
MAIN SPAR DIHEDRAL BRACE - MAKE 4 (W-2)
3/16" BALSA DOUBLER
3/32" SIDE SHEETING
1/4" DOWEL
3/16" DOUBLER FROM F-5 TO NOSE
3/16" SQ. BALSA LONGERONS & ALL CROSS BRACES FROM F-5 TO TAIL
3/16" SQ. X 7-1/2" FIN POST
OIL DRAIN OPENING
BALSA BLOCK
BATTERY PACK IN FOAM IN BOTTOM OF THIS COMPARTMENT
MAKE SADDLE ACROSS ENGINE BEARERS TO MOUNT TANK
RECEIVER & SWITCHER WRAPPED IN FOAM IN THIS COMPARTMENT
SWITCH
3° RIGHT THRUST
3/32" PLY TAIL WHEEL MOUNT
4-40 BLIND NUTS BENEATH BEARERS TO SECURE ENGINE SHEER PLATE
TEMPLATE FOR 'CONTROLAIRE' 'GHOST ACTUATOR'
TOP VIEW WITH HATCH REMOVED
LOWER WING CUTOUT TEMPLATE - CUTOUT AFTER FUSELAGE COMPLETED
1/8" BALSA SHEET MAKE 4
1/8" PLYWOOD
WINDSHIELD PATTERN 1/16" PLEXIGLASS
1/8" HARD BALSA CROSS GRAIN REINFORCEMENT
3/16" BALSA SHEET
1/8" PLYWOOD
3/16" SQ. HARD BALSA FIN POST - BUILD INTO TAIL OF FUSELAGE - WHEN TOP REAR DECK & STAB ARE IN PLACE, GLUE THE FIN IN PLACE (TO FIN POST, STAB & FORMER 'E') - GLUE IN BALSA FILLETS ON BOTH SIDES OF FIN - CUT OUT FIN POST FOR ELEVATOR MOVEMENT AS SHOWN.
3/16" SHEET BALSA FIN & RUDDER
NYLON THREAD HINGES ON RUDDER & ELEVATOR
1/16" X 1/2" PLYWOOD EPOXIED TO WIRE
2° POSITIVE INCIDENCE
BIND & SOLDER ALL WIRE JOINTS
1/8" MUSIC WIRE
3/32" MUSIC WIRE
1/16" MUSIC WIRE
WINDSHIELD HEATED & BENT TO SHAPE OVER SOLDERING IRON
3/32" SHEET BALSA
3/16" & 3/32" SHEET BALSA
3/32" SHEET BALSA
2 OZ. WILLIAMS BROS TANK
CUT OUT BOTTOM FRONT OF HATCH TO FIT OVER TANK
1/8" SHEET BALSA HATCH BOTTOM
BUILD HATCH ON FUSELAGE USE WAXED PAPER UNDER HATCH
LEFT SIDE & TOP SHEETING OMITTED FOR CLARITY
3/16" BALSA FILLET
CUTOUT FOR ELEVATOR
SOFT BALSA BLOCK
0° INCIDENCE
1/8" PLY SHEER PLATE
HARDWOOD ENGINE BEARER 3/8" X 1/2"
1/8" X 1/2" BALSA EACH SIDE OF BULKHEADS F-2,3 & FRONT OF F-4
3/16" SHEET BALSA DOUBLER FROM F-1 TO F-5
2° DOWN THRUST
500MA-4 CELL NICKEL CADMIUM BATTERY-BUTTON CELL
RECEIVER COMPARTMENT
BIND & EPOXY WIRES TO BULKHEADS
1/8" PLY ACTUATOR BOARD
3/32" SHEET BALSA SIDES FULL LENGTH OF FUSELAGE
3/16" SQ. BALSA
PUSHROD EXITS - BOTH SIDES
3/16" X 1/2"
RUDDER HORN ON LEFT SIDE - BIND & EPOXY TO SURFACE
BALSA BLOCK
BATTERY COMPARTMENT
.045 MUSIC WIRE 3 LOOP COIL
1/8" X 1/2" HARD BALSA ACTUATOR BOARD SUPPORT
1/8" X 5/8" PLY ACROSS FUSELAGE FOR MOUNTING ANTENNA CONTACT
1/16" MUSIC WIRE BIND & EPOXY TO PLY.
3/32" PLYWOOD
1" PERFECT WHEEL NO. 62 BALLOON
OIL DRAIN OPENING
1/8" PLY BOTTOM
BRASS SHIM STOCK ANTENNA CONTACT
SOLDER ANTENNA LEAD FROM RCVR AT THIS POINT
3/32" SHEET BALSA BOTTOM
1/8" MUSIC WIRE
DPDT SWITCH
1/4" DOWEL
0° INCIDENCE
SCRAP BALSA BLOCK
1/4" HARDWOOD DOWEL - WING HOLD DOWN
BIND & EPOXY GEAR TO FUSELAGE
3/32" MUSIC WIRE
DURAL GEAR MAYBE USED
2-1/2" DUBRO WHEELS
1/8" PLY SHEER PLATE
TO SUIT ENGINE
'CONTROLAIRE-5' RELAYLESS RCVR WITH SWITCHER WAS USED.
1/8" SHT BALSA
1/8" SHEET BALSA
'RC CRAFT' NYLON TUBE & FLEXIBLE CABLE FROM THROTTLE TO ACTUATOR
1/8" SHEET BALSA
1/8" PLYWOOD FUSELAGE BRACE
1/8" PLY
1/8" PLYWOOD
DRILL HOLES IN F-3 & F-4 FOR WING STRUT WIRES & LACING - BIND & EPOXY WIRES IN PLACE BEFORE GLUING THE FORMERS INTO THE FUSELAGE.
The Red Baron
DESIGNED BY
DRAWN BY
D. HOBBS, JR.
INKED BY
DICK KIDD
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