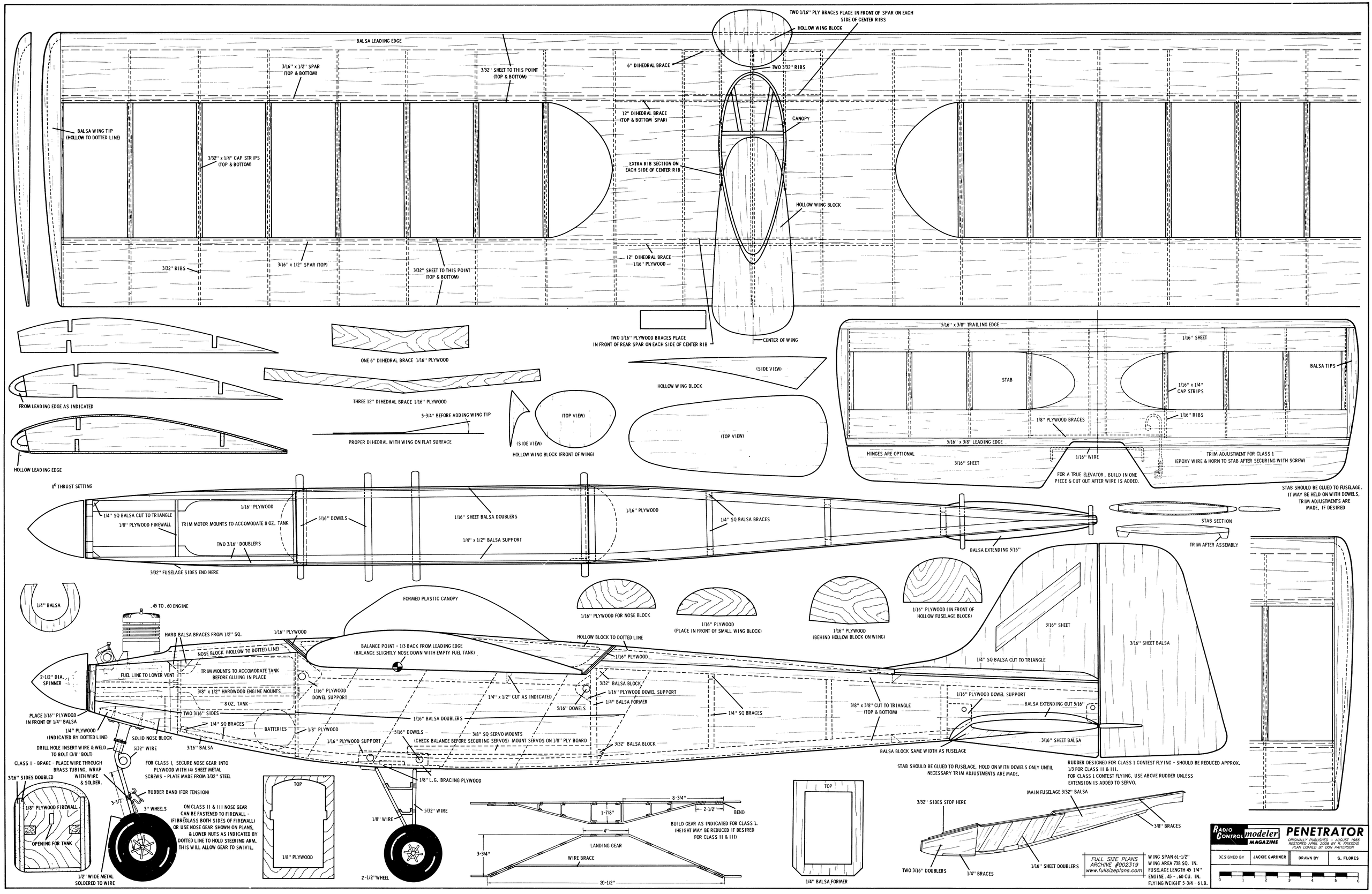
TWO 1/16" PLY BRACES PLACE IN FRONT OF SPAR ON EACH SIDE OF CENTER RIBS
HOLLOW WING BLOCK
BALSA LEADING EDGE
3/16" x 1/2" SPAR (TOP & BOTTOM)
3/32" SHEET TO THIS POINT (TOP & BOTTOM)
6" DIHEDRAL BRACE
TWO 3/32" RIBS
12" DIHEDRAL BRACE (TOP & BOTTOM SPAR)
CANOPY
BALSA WING TIP (HOLLOW TO DOTTED LINE)
3/32" x 1/4" CAP STRIPS (TOP & BOTTOM)
EXTRA RIB SECTION ON EACH SIDE OF CENTER RIB
HOLLOW WING BLOCK
3/32" RIBS
3/16" x 1/2" SPAR (TOP)
3/32" SHEET TO THIS POINT (TOP & BOTTOM)
12" DIHEDRAL BRACE 1/16" PLYWOOD
TWO 1/16" PLYWOOD BRACES PLACE IN FRONT OF REAR SPAR ON EACH SIDE OF CENTER RIB
CENTER OF WING
FROM LEADING EDGE AS INDICATED
HOLLOW LEADING EDGE
ONE 6" DIHEDRAL BRACE 1/16" PLYWOOD
THREE 12" DIHEDRAL BRACE 1/16" PLYWOOD
5-3/4" BEFORE ADDING WING TIP
PROPER DIHEDRAL WITH WING ON FLAT SURFACE
(TOP VIEW)
(SIDE VIEW)
HOLLOW WING BLOCK (FRONT OF WING)
(SIDE VIEW)
HOLLOW WING BLOCK
(TOP VIEW)
5/16" x 3/8" TRAILING EDGE
1/16" SHEET
BALSA TIPS
STAB
1/16" x 1/4" CAP STRIPS
1/8" PLYWOOD BRACES
1/16" RIBS
5/16" x 3/8" LEADING EDGE
HINGES ARE OPTIONAL
3/16" SHEET
1/16" WIRE
FOR A TRUE ELEVATOR, BUILD IN ONE PIECE & CUT OUT AFTER WIRE IS ADDED.
TRIM ADJUSTMENT FOR CLASS 1 (EPOXY WIRE & HORN TO STAB AFTER SECURING WITH SCREW)
STAB SHOULD BE GLUED TO FUSELAGE. IT MAY BE HELD ON WITH DOWELS. TRIM ADJUSTMENTS ARE MADE, IF DESIRED
0° THRUST SETTING
1/4" SQ BALSA CUT TO TRIANGLE
1/8" PLYWOOD FIREWALL
1/16" PLYWOOD
TRIM MOTOR MOUNTS TO ACCOMODATE 8 OZ. TANK
5/16" DOWELS
1/16" SHEET BALSA DOUBLERS
1/16" PLYWOOD
1/4" SQ BALSA BRACES
1/4" x 1/2" BALSA SUPPORT
TWO 3/16" DOUBLERS
3/32" FUSELAGE SIDES END HERE
BALSA EXTENDING 5/16"
STAB SECTION
TRIM AFTER ASSEMBLY
1/4" BALSA
.45 TO .60 ENGINE
FORMED PLASTIC CANOPY
1/16" PLYWOOD FOR NOSE BLOCK
1/16" PLYWOOD (PLACE IN FRONT OF SMALL WING BLOCK)
1/16" PLYWOOD (BEHIND HOLLOW BLOCK ON WING)
1/16" PLYWOOD (IN FRONT OF HOLLOW FUSELAGE BLOCK)
3/16" SHEET
3/16" SHEET BALSA
HARD BALSA BRACES FROM 1/2" SQ.
1/16" PLYWOOD
BALANCE POINT - 1/3 BACK FROM LEADING EDGE (BALANCE SLIGHTLY NOSE DOWN WITH EMPTY FUEL TANK)
HOLLOW BLOCK TO DOTTED LINE
1/16" PLYWOOD
NOSE BLOCK (HOLLOW TO DOTTED LINE)
1/4" SQ BALSA CUT TO TRIANGLE
2-1/2" DIA. SPINNER
FUEL LINE TO LOWER VENT
TRIM MOUNTS TO ACCOMODATE TANK BEFORE GLUING IN PLACE
3/8" x 1/2" HARDWOOD ENGINE MOUNTS
1/16" PLYWOOD DOWEL SUPPORT
1/4" x 1/2" CUT AS INDICATED
3/32" BALSA BLOCK
1/16" PLYWOOD DOWEL SUPPORT
1/4" BALSA FORMER
5/16" DOWELS
8 OZ. TANK
TWO 3/16" SIDES
1/16" BALSA DOUBLERS
1/4" SQ BRACES
3/8" x 3/8" CUT TO TRIANGLE (TOP & BOTTOM)
1/16" PLYWOOD DOWEL SUPPORT
BALSA EXTENDING OUT 5/16"
PLACE 1/16" PLYWOOD IN FRONT OF 1/4" BALSA
1/4" PLYWOOD (INDICATED BY DOTTED LINE)
BATTERIES
1/8" PLYWOOD
5/16" DOWELS
3/8" SQ SERVO MOUNTS (CHECK BALANCE BEFORE SECURING SERVOS) MOUNT SERVOS ON 1/8" PLY BOARD
3/32" BALSA BLOCK
3/16" SHEET BALSA
SOLID NOSE BLOCK
1/16" PLYWOOD SUPPORT
BALSA BLOCK SAME WIDTH AS FUSELAGE
DRILL HOLE INSERT WIRE & WELD TO BOLT (3/8" BOLT)
5/32" WIRE
3/16" BALSA
CLASS I - BRAKE - PLACE WIRE THROUGH BRASS TUBING, WRAP WITH WIRE & SOLDER.
FOR CLASS I, SECURE NOSE GEAR INTO PLYWOOD WITH (4) SHEET METAL SCREWS - PLATE MADE FROM 3/32" STEEL
1/8" L.G. BRACING PLYWOOD
STAB SHOULD BE GLUED TO FUSELAGE, HOLD ON WITH DOWELS ONLY UNTIL NECESSARY TRIM ADJUSTMENTS ARE MADE.
RUDDER DESIGNED FOR CLASS 1 CONTEST FLYING - SHOULD BE REDUCED APPROX. 1/3 FOR CLASS II & III. FOR CLASS 1 CONTEST FLYING, USE ABOVE RUDDER UNLESS EXTENSION IS ADDED TO SERVO.
3/16" SIDES DOUBLED
1/8" PLYWOOD FIREWALL
OPENING FOR TANK
RUBBER BAND (FOR TENSION)
3-1/2"
3" WHEELS
ON CLASS II & III NOSE GEAR CAN BE FASTENED TO FIREWALL - (FIBREGLASS BOTH SIDES OF FIREWALL) OR USE NOSE GEAR SHOWN ON PLANS, & LOWER NUTS AS INDICATED BY DOTTED LINE TO HOLD STEERING ARM. THIS WILL ALLOW GEAR TO SWIVIL.
1/2" WIDE METAL SOLDERED TO WIRE
TOP
1/8" PLYWOOD
1/8" WIRE
5/32" WIRE
2-1/2" WHEEL
8-3/4"
1-7/8"
2-1/2"
BEND
4"
LANDING GEAR
3-3/4"
WIRE BRACE
20-1/2"
BUILD GEAR AS INDICATED FOR CLASS 1. (HEIGHT MAY BE REDUCED IF DESIRED FOR CLASS II & III)
TOP
1/4" BALSA FORMER
MAIN FUSELAGE 3/32" BALSA
3/32" SIDES STOP HERE
3/8" BRACES
TWO 3/16" DOUBLERS
1/4" BRACES
1/16" SHEET DOUBLERS
FULL SIZE PLANS ARCHIVE #002319 www.fullsizeplans.com
WING SPAN 61-1/2"
WING AREA 738 SQ. IN.
FUSELAGE LENGTH 45 1/4"
ENGINE .45 - .60 CU. IN.
FLYING WEIGHT 5-3/4 - 6 LB.
RADIO CONTROL modeler MAGAZINE
PENETRATOR
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RESTORED APRIL 2008 BY R. FIRESTAD
PLAN LOANED BY DON PATTERSON
DESIGNED BY
JACKIE GARDNER
DRAWN BY
G. FLORES
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