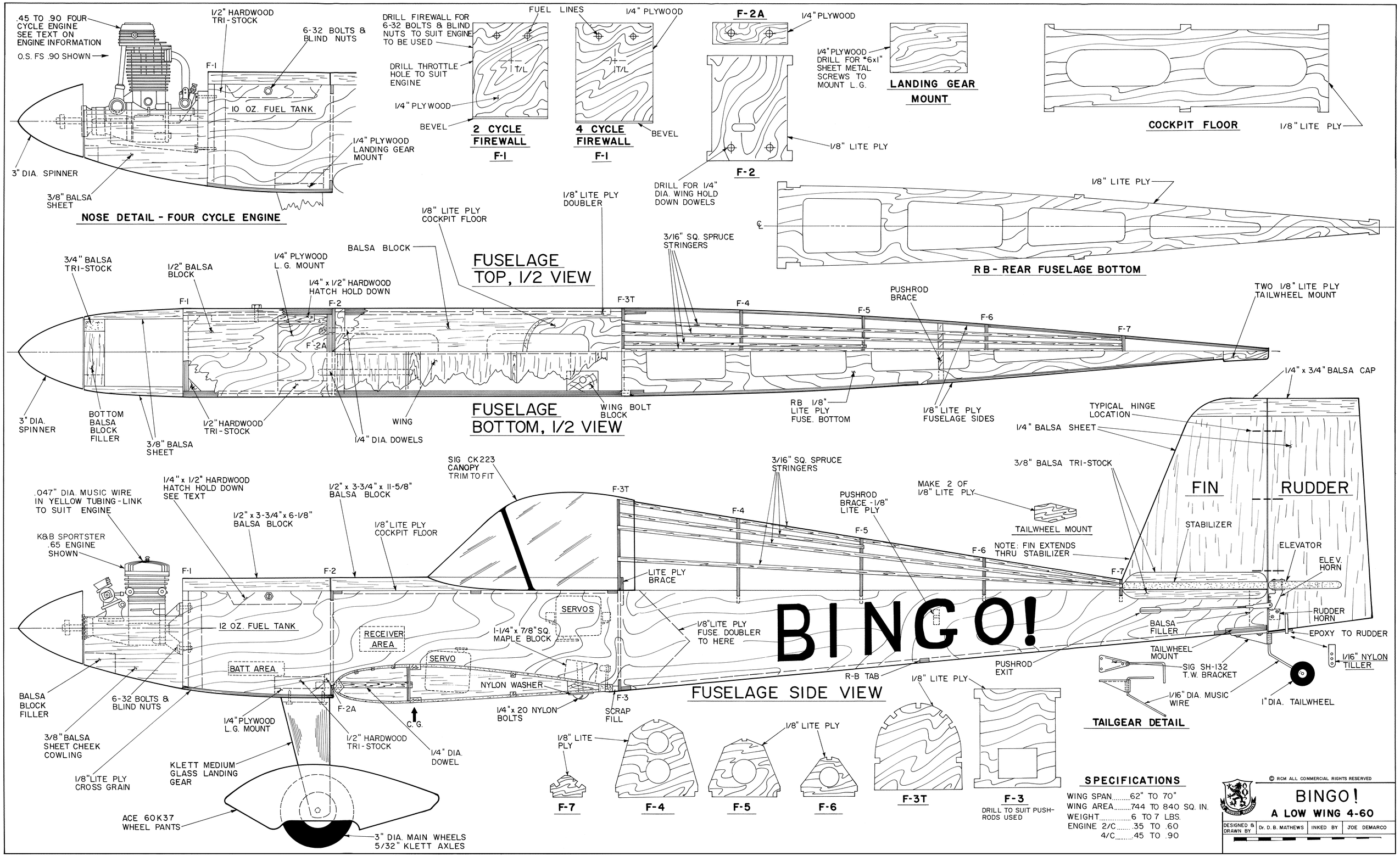
.45 TO .90 FOUR CYCLE ENGINE SEE TEXT ON ENGINE INFORMATION
O.S. FS .90 SHOWN
1/2" HARDWOOD TRI-STOCK
6-32 BOLTS & BLIND NUTS
F-1
10 OZ. FUEL TANK
1/4" PLYWOOD LANDING GEAR MOUNT
3" DIA. SPINNER
3/8" BALSA SHEET
NOSE DETAIL - FOUR CYCLE ENGINE
DRILL FIREWALL FOR 6-32 BOLTS & BLIND NUTS TO SUIT ENGINE TO BE USED
DRILL THROTTLE HOLE TO SUIT ENGINE
1/4" PLYWOOD
BEVEL
T/L
2 CYCLE FIREWALL F-1
FUEL LINES
1/4" PLYWOOD
4 CYCLE FIREWALL F-1
F-2A
1/4" PLYWOOD
1/4" PLYWOOD DRILL FOR #6x1" SHEET METAL SCREWS TO MOUNT L.G.
LANDING GEAR MOUNT
1/8" LITE PLY
F-2
DRILL FOR 1/4" DIA. WING HOLD DOWN DOWELS
COCKPIT FLOOR
1/8" LITE PLY
1/8" LITE PLY
RB - REAR FUSELAGE BOTTOM
1/8" LITE PLY COCKPIT FLOOR
1/8" LITE PLY DOUBLER
BALSA BLOCK
3/16" SQ. SPRUCE STRINGERS
FUSELAGE TOP, 1/2 VIEW
3/4" BALSA TRI-STOCK
1/2" BALSA BLOCK
1/4" PLYWOOD L.G. MOUNT
1/4" x 1/2" HARDWOOD HATCH HOLD DOWN
F-1
F-2
F-2A
F-3T
F-4
F-5
F-6
F-7
PUSHROD BRACE
TWO 1/8" LITE PLY TAILWHEEL MOUNT
3" DIA. SPINNER
BOTTOM BALSA BLOCK FILLER
3/8" BALSA SHEET
1/2" HARDWOOD TRI-STOCK
WING
1/4" DIA. DOWELS
WING BOLT BLOCK
FUSELAGE BOTTOM, 1/2 VIEW
RB 1/8" LITE PLY FUSE. BOTTOM
1/8" LITE PLY FUSELAGE SIDES
1/4" x 3/4" BALSA CAP
TYPICAL HINGE LOCATION
1/4" BALSA SHEET
.047" DIA. MUSIC WIRE IN YELLOW TUBING-LINK TO SUIT ENGINE
1/4" x 1/2" HARDWOOD HATCH HOLD DOWN SEE TEXT
1/2" x 3-3/4" x 11-5/8" BALSA BLOCK
SIG CK223 CANOPY TRIM TO FIT
1/2" x 3-3/4" x 6-1/8" BALSA BLOCK
1/8" LITE PLY COCKPIT FLOOR
3/16" SQ. SPRUCE STRINGERS
PUSHROD BRACE - 1/8" LITE PLY
MAKE 2 OF 1/8" LITE PLY
TAILWHEEL MOUNT
3/8" BALSA TRI-STOCK
FIN
RUDDER
STABILIZER
NOTE: FIN EXTENDS THRU STABILIZER
ELEVATOR
ELEV. HORN
K&B SPORTSTER .65 ENGINE SHOWN
12 OZ. FUEL TANK
LITE PLY BRACE
SERVOS
RECEIVER AREA
1-1/4" x 7/8" SQ. MAPLE BLOCK
1/8" LITE PLY FUSE. DOUBLER TO HERE
BINGO!
RUDDER HORN
BALSA FILLER
EPOXY TO RUDDER
1/16" NYLON TILLER
BATT. AREA
SERVO
NYLON WASHER
R-B TAB
PUSHROD EXIT
TAILWHEEL MOUNT
SIG SH-132 T.W. BRACKET
1/16" DIA. MUSIC WIRE
1" DIA. TAILWHEEL
TAILGEAR DETAIL
BALSA BLOCK FILLER
6-32 BOLTS & BLIND NUTS
3/8" BALSA SHEET CHEEK COWLING
1/8" LITE PLY CROSS GRAIN
1/4" PLYWOOD L.G. MOUNT
F-2A
C.G.
1/4" x 20 NYLON BOLTS
F-3
SCRAP FILL
1/2" HARDWOOD TRI-STOCK
1/4" DIA. DOWEL
FUSELAGE SIDE VIEW
KLETT MEDIUM GLASS LANDING GEAR
ACE 60K37 WHEEL PANTS
3" DIA. MAIN WHEELS 5/32" KLETT AXLES
1/8" LITE PLY
F-7
F-4
1/8" LITE PLY
F-5
F-6
F-3T
1/8" LITE PLY
F-3
DRILL TO SUIT PUSH-RODS USED
SPECIFICATIONS
WING SPAN.....62" TO 70"
WING AREA.....744 TO 840 SQ. IN.
WEIGHT.....6 TO 7 LBS.
ENGINE 2/C.....35 TO .60
4/C.....45 TO .90
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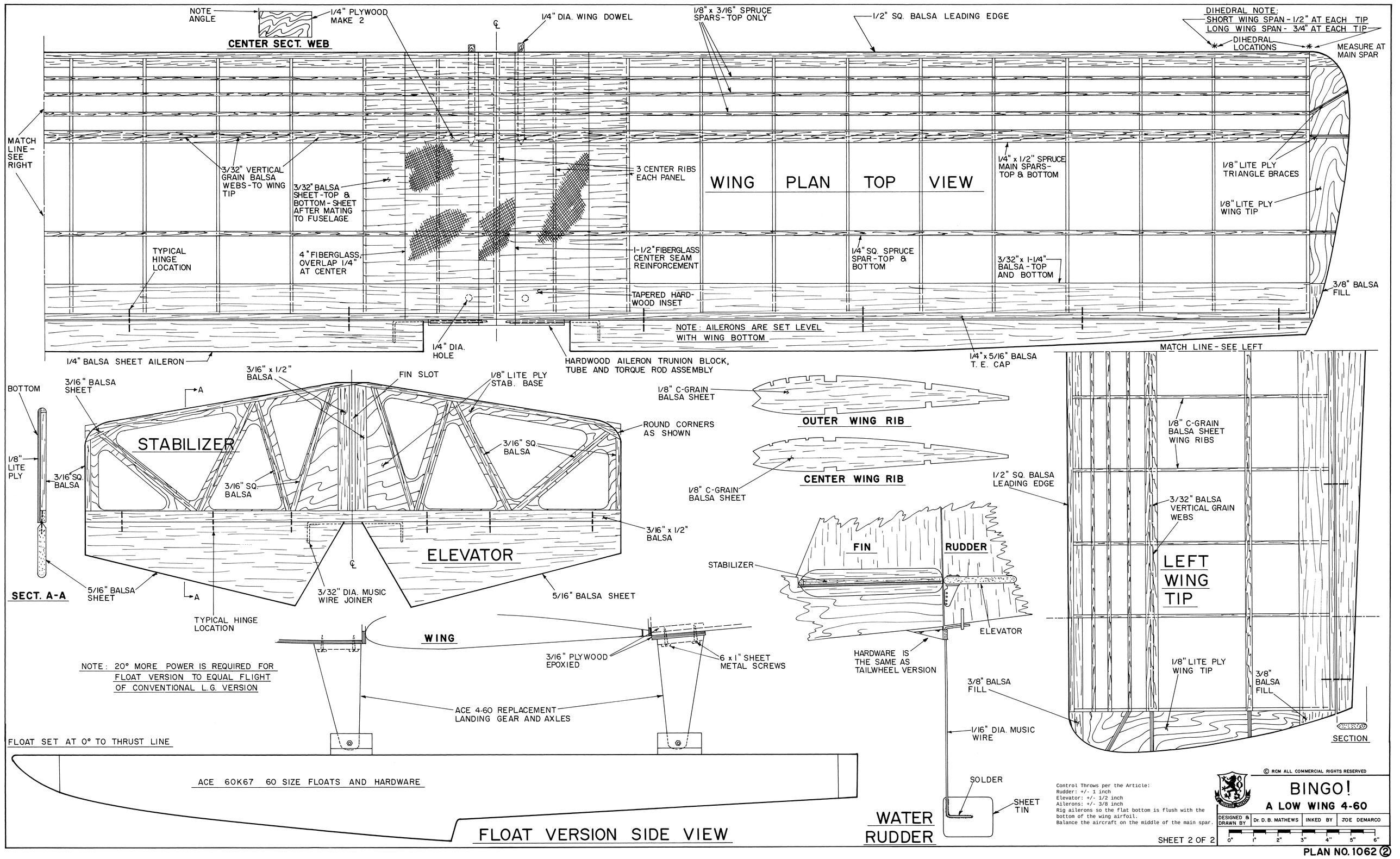
BINGO!
A LOW WING 4-60
DESIGNED & DRAWN BY
Dr. D. B. MATHEWS
INKED BY
JOE DEMARCO


NOTE ANGLE
1/4" PLYWOOD MAKE 2
CENTER SECT. WEB
1/4" DIA. WING DOWEL
1/8" x 3/16" SPRUCE SPARS-TOP ONLY
1/2" SQ. BALSA LEADING EDGE
DIHEDRAL NOTE:
SHORT WING SPAN - 1/2" AT EACH TIP
LONG WING SPAN - 3/4" AT EACH TIP
DIHEDRAL LOCATIONS
MEASURE AT MAIN SPAR
MATCH LINE - SEE RIGHT
3/32" VERTICAL GRAIN BALSA WEBS-TO WING TIP
3/32" BALSA SHEET-TOP & BOTTOM-SHEET AFTER MATING TO FUSELAGE
3 CENTER RIBS EACH PANEL
WING PLAN TOP VIEW
1/4" x 1/2" SPRUCE MAIN SPARS-TOP & BOTTOM
1/8" LITE PLY TRIANGLE BRACES
1/8" LITE PLY WING TIP
TYPICAL HINGE LOCATION
4" FIBERGLASS, OVERLAP 1/4" AT CENTER
1-1/2" FIBERGLASS CENTER SEAM REINFORCEMENT
1/4" SQ. SPRUCE SPAR-TOP & BOTTOM
3/32" x 1-1/4" BALSA-TOP AND BOTTOM
3/8" BALSA FILL
TAPERED HARD-WOOD INSET
NOTE: AILERONS ARE SET LEVEL WITH WING BOTTOM
1/4" BALSA SHEET AILERON
1/4" DIA. HOLE
HARDWOOD AILERON TRUNION BLOCK, TUBE AND TORQUE ROD ASSEMBLY
1/4" x 5/16" BALSA T. E. CAP
MATCH LINE - SEE LEFT
BOTTOM
3/16" BALSA SHEET
3/16" x 1/2" BALSA
FIN SLOT
1/8" LITE PLY STAB. BASE
ROUND CORNERS AS SHOWN
STABILIZER
3/16" SQ. BALSA
1/8" LITE PLY
3/16" SQ. BALSA
3/16" SQ. BALSA
3/16" x 1/2" BALSA
ELEVATOR
5/16" BALSA SHEET
3/32" DIA. MUSIC WIRE JOINER
5/16" BALSA SHEET
SECT. A-A
TYPICAL HINGE LOCATION
1/8" C-GRAIN BALSA SHEET
OUTER WING RIB
CENTER WING RIB
1/8" C-GRAIN BALSA SHEET
1/8" C-GRAIN BALSA SHEET WING RIBS
1/2" SQ. BALSA LEADING EDGE
3/32" BALSA VERTICAL GRAIN WEBS
LEFT WING TIP
FIN
RUDDER
STABILIZER
ELEVATOR
HARDWARE IS THE SAME AS TAILWHEEL VERSION
WING
3/16" PLYWOOD EPOXIED
6 x 1" SHEET METAL SCREWS
NOTE: 20° MORE POWER IS REQUIRED FOR FLOAT VERSION TO EQUAL FLIGHT OF CONVENTIONAL L.G. VERSION
ACE 4-60 REPLACEMENT LANDING GEAR AND AXLES
1/8" LITE PLY WING TIP
3/8" BALSA FILL
3/8" BALSA FILL
SECTION
FLOAT SET AT 0° TO THRUST LINE
ACE 60K67 60 SIZE FLOATS AND HARDWARE
FLOAT VERSION SIDE VIEW
1/16" DIA. MUSIC WIRE
SOLDER
SHEET TIN
WATER RUDDER
Control Throws per the Article:
Rudder: +/- 1 inch
Elevator: +/- 1/2 inch
Ailerons: +/- 3/8 inch
Rig ailerons so the flat bottom is flush with the bottom of the wing airfoil.
Balance the aircraft on the middle of the main spar.
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BINGO!
A LOW WING 4-60
DESIGNED & DRAWN BY
Dr. D. B. MATHEWS
INKED BY
JOE DEMARCO
0" 1" 2" 3" 4" 5" 6"
SHEET 2 OF 2
PLAN NO. 1062 ②