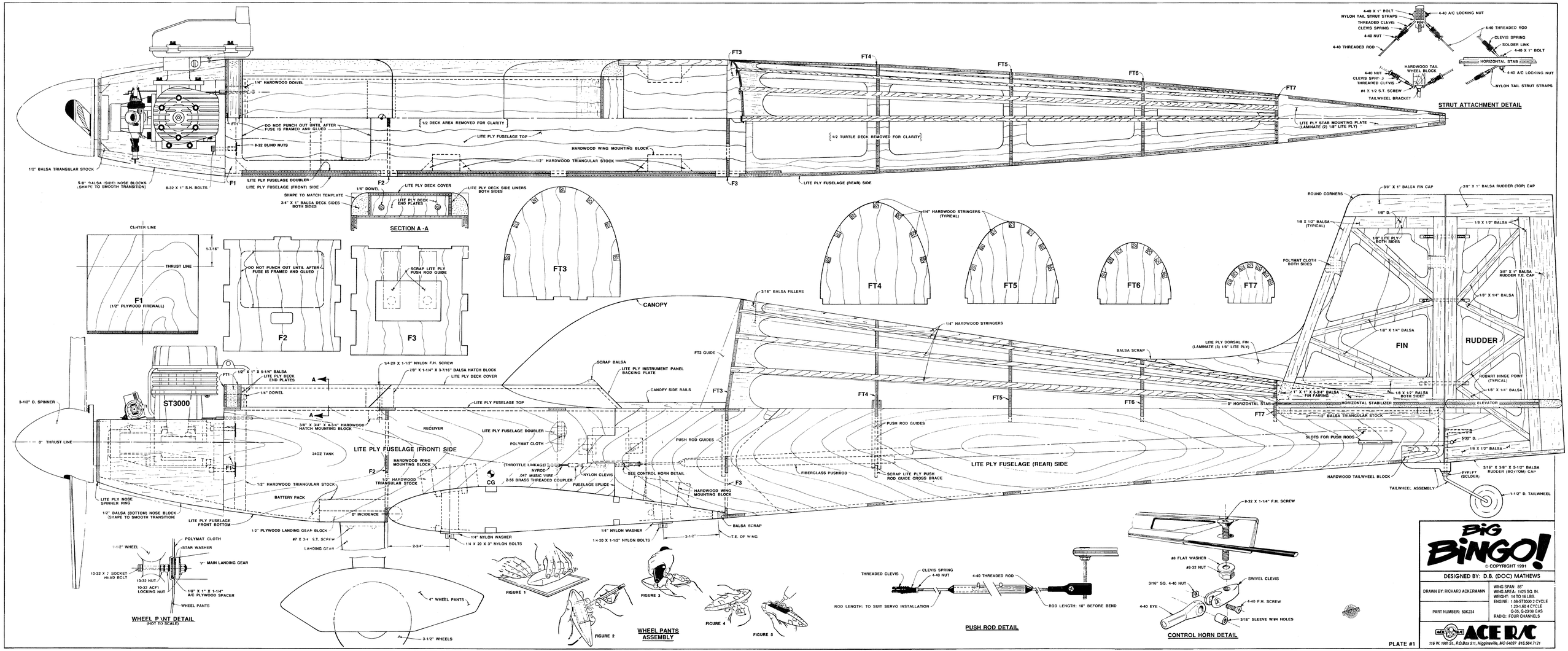
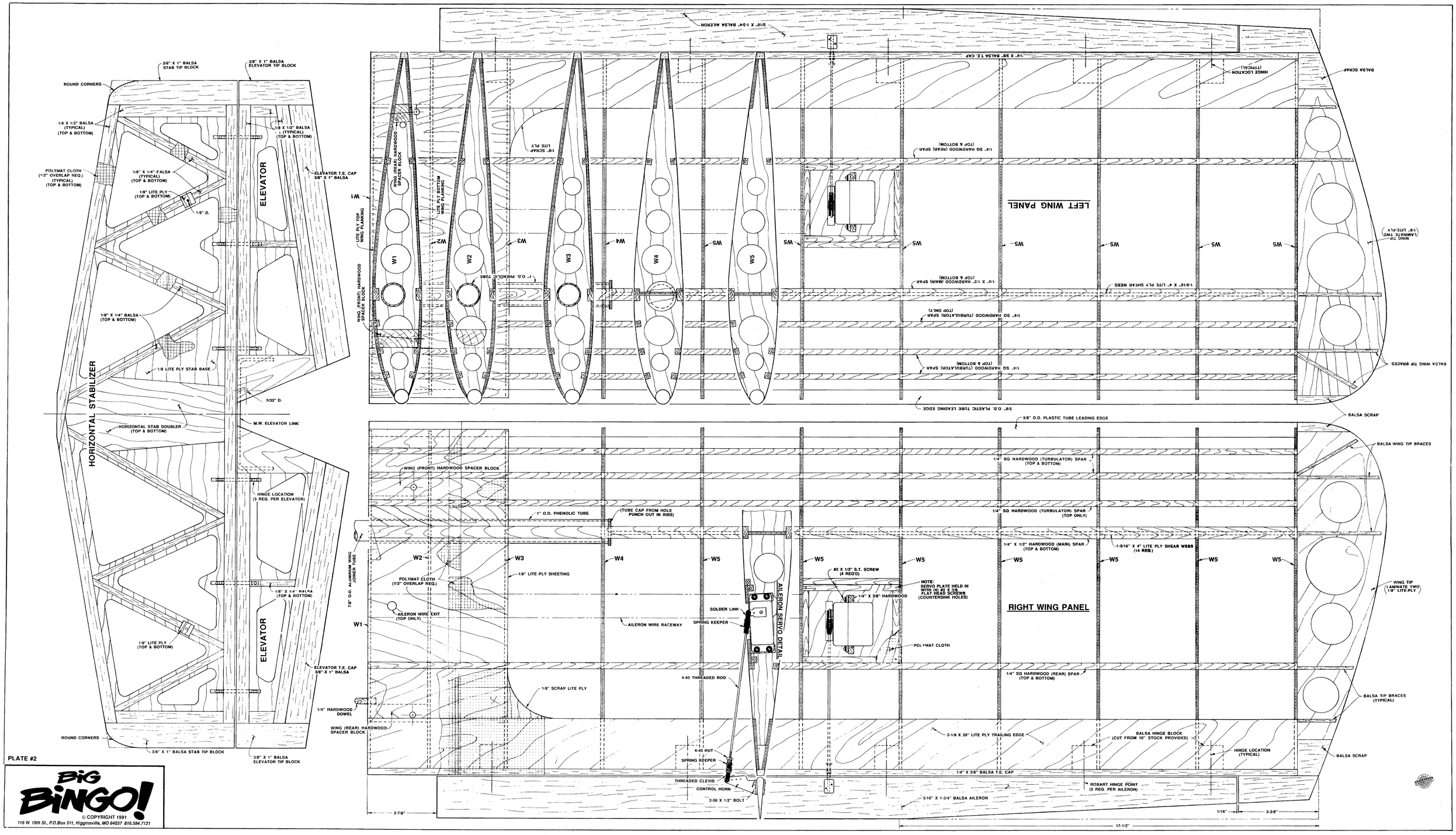

1/4" HARDWOOD DOWEL
DO NOT PUNCH OUT UNTIL AFTER FUSE IS FRAMED AND GLUED
8-32 BLIND NUTS
1/2 DECK AREA REMOVED FOR CLARITY
LITE PLY FUSELAGE TOP
HARDWOOD WING MOUNTING BLOCK
1/2" HARDWOOD TRIANGULAR STOCK
1/2 TURTLE DECK REMOVED FOR CLARITY
LITE PLY STAB MOUNTING PLATE (LAMINATE (2) 1/8" LITE PLY)
1/2" BALSA TRIANGULAR STOCK
5/8" BALSA (SIDE) NOSE BLOCKS (SHAPE TO SMOOTH TRANSITION)
8-32 X 1" S.H. BOLTS
LITE PLY FUSELAGE DOUBLER
LITE PLY FUSELAGE (FRONT) SIDE
LITE PLY FUSELAGE (REAR) SIDE
FT1
F1
F2
F3
FT3
FT4
FT5
FT6
FT7
4-40 X 1" BOLT
NYLON TAIL STRUT STRAPS
THREADED CLEVIS
CLEVIS SPRING
4-40 NUT
4-40 THREADED ROD
4-40 A/C LOCKING NUT
CLEVIS SPRING
SOLDER LINK
4-40 X 1" BOLT
HORIZONTAL STAB
HARDWOOD TAIL WHEEL BLOCK
#4 X 1/2 S.T. SCREW
TAILWHEEL BRACKET
STRUT ATTACHMENT DETAIL
1/4" DOWEL
LITE PLY DECK COVER
LITE PLY DECK SIDE LINERS BOTH SIDES
LITE PLY DECK END PLATES
SHAPE TO MATCH TEMPLATE
3/4" X 1" BALSA DECK SIDES BOTH SIDES
SECTION A-A
CENTER LINE
THRUST LINE
1-7/16"
F1
(1/2" PLYWOOD FIREWALL)
F2
F3
SCRAP LITE PLY PUSH ROD GUIDE
FT3
FT4
FT5
FT6
FT7
1/4" HARDWOOD STRINGERS (TYPICAL)
CANOPY
3/16" BALSA FILLERS
1/4" HARDWOOD STRINGERS
ROUND CORNERS
3/8" X 1" BALSA FIN CAP
3/8" X 1" BALSA RUDDER (TOP) CAP
1/8" D.
1/8 X 1/2" BALSA (TYPICAL)
1/8" LITE PLY BOTH SIDES
1/8 X 1/2" BALSA
POLYMAT CLOTH BOTH SIDES
3/8" X 1" BALSA RUDDER T.E. CAP
1/8" X 1/4" BALSA
1/8" X 1/4" BALSA
FIN
RUDDER
LITE PLY DORSAL FIN (LAMINATE (3) 1/8" LITE PLY)
BALSA SCRAP
ROBART HINGE POINT (TYPICAL)
1/8" X 1/4" BALSA
1" X 1" X 5-3/4" BALSA FIN FAIRING
1/8 X 1/2" BALSA BOTH SIDES
0° HORIZONTAL STAB
HORIZONTAL STABILIZER
ELEVATOR
1/2" BALSA TRIANGULAR STOCK
SLOTS FOR PUSH RODS
5/32" D.
1/8 X 1/2" BALSA
3/16" X 3/8" X 5-1/2" BALSA RUDDER (BOTTOM) CAP
EYELET (SOLDER)
HARDWOOD TAILWHEEL BLOCK
TAILWHEEL ASSEMBLY
1-1/2" D. TAILWHEEL
3-1/2" D. SPINNER
ST3000
0° THRUST LINE
1/2" X 1" X 5-1/4" BALSA
LITE PLY DECK END PLATES
1/4" DOWEL
1/4-20 X 1-1/2" NYLON F.H. SCREW
7/8" X 1-1/4" X 3-7/16" BALSA HATCH BLOCK
LITE PLY DECK COVER
SCRAP BALSA
LITE PLY INSTRUMENT PANEL BACKING PLATE
CANOPY SIDE RAILS
FT3 GUIDE
LITE PLY FUSELAGE TOP
3/8" X 3/4" X 4-3/4" HARDWOOD HATCH MOUNTING BLOCK
RECEIVER
LITE PLY FUSELAGE DOUBLER
POLYMAT CLOTH
PUSH ROD GUIDES
24OZ TANK
LITE PLY FUSELAGE (FRONT) SIDE
HARDWOOD WING MOUNTING BLOCK
1/2" HARDWOOD TRIANGULAR STOCK
(THROTTLE LINKAGE)
NYROD
.047 MUSIC WIRE
2-56 BRASS THREADED COUPLER
NYLON CLEVIS
FUSELAGE SPLICE
SEE CONTROL HORN DETAIL
CG
1/2" HARDWOOD TRIANGULAR STOCK
BATTERY PACK
LITE PLY NOSE SPINNER RING
1/2" BALSA (BOTTOM) NOSE BLOCK (SHAPE TO SMOOTH TRANSITION)
LITE PLY FUSELAGE FRONT BOTTOM
0° INCIDENCE
1/2" PLYWOOD LANDING GEAR BLOCK
#7 X 3/4 S.T. SCREW
LANDING GEAR
1/4" NYLON WASHER
1/4 X 20 X 3" NYLON BOLTS
1/4" NYLON WASHER
1/4-20 X 1-1/2" NYLON BOLTS
2-3/4"
2-1/2"
T.E. OF WING
BALSA SCRAP
HARDWOOD WING MOUNTING BLOCK
FIBERGLASS PUSHROD
SCRAP LITE PLY PUSH ROD GUIDE CROSS BRACE
LITE PLY FUSELAGE (REAR) SIDE
1-1/2" WHEEL
POLYMAT CLOTH
STAR WASHER
MAIN LANDING GEAR
10-32 X 2" SOCKET HEAD BOLT
10-32 NUT
10-32 ACF) LOCKING NUT
1/8" X 1" X 1-1/4" A/C PLYWOOD SPACER
WHEEL PANTS
WHEEL PANT DETAIL
(NOT TO SCALE)
4" WHEEL PANTS
3-1/2" WHEELS
FIGURE 1
FIGURE 2
FIGURE 3
FIGURE 4
FIGURE 5
WHEEL PANTS ASSEMBLY
THREADED CLEVIS
CLEVIS SPRING
4-40 NUT
4-40 THREADED ROD
ROD LENGTH: TO SUIT SERVO INSTALLATION
ROD LENGTH: 10" BEFORE BEND
PUSH ROD DETAIL
8-32 X 1-1/4" F.H. SCREW
#8 FLAT WASHER
#8-32 NUT
3/16" SQ. 4-40 NUT
SWIVEL CLEVIS
4-40 EYE
4-40 F.H. SCREW
3/16" SLEEVE W/#4 HOLES
CONTROL HORN DETAIL
BIG BINGO!
© COPYRIGHT 1991
DESIGNED BY: D.B. (DOC) MATHEWS
DRAWN BY: RICHARD ACKERMANN
PART NUMBER: 50K234
WING SPAN: 85"
WING AREA: 1425 SQ. IN.
WEIGHT: 14 TO 16 LBS.
ENGINE: 1.08-ST3000 2 CYCLE
1.20-1.60 4 CYCLE
O-35, G-23/38 GAS
RADIO: FOUR CHANNELS
ACE R/C
116 W. 19th St., P.O.Box 511, Higginsville, MO 64037 816.584.7121
PLATE #1


HORIZONTAL STABILIZER
ELEVATOR
ELEVATOR
ROUND CORNERS
3/8" X 1" BALSA STAB TIP BLOCK
3/8" X 1" BALSA ELEVATOR TIP BLOCK
1/8 X 1/2" BALSA (TYPICAL) (TOP & BOTTOM)
POLYMAT CLOTH (1/2" OVERLAP REQ.) (TYPICAL) (TOP & BOTTOM)
1/8" X 1/4" BALSA (TYPICAL) (TOP & BOTTOM)
1/8" LITE PLY (TOP & BOTTOM)
1/8" D.
ELEVATOR T.E. CAP 3/8" X 1" BALSA
1/8" X 1/4" BALSA (TOP & BOTTOM)
1/8 LITE PLY STAB BASE
5/32" D.
HORIZONTAL STAB DOUBLER (TOP & BOTTOM)
M.W. ELEVATOR LINK
HINGE LOCATION (3 REQ. PER ELEVATOR)
1/8" X 1/4" BALSA (TOP & BOTTOM)
1/8" LITE PLY (TOP & BOTTOM)
ELEVATOR T.E. CAP 3/8" X 1" BALSA
ROUND CORNERS
3/8" X 1" BALSA STAB TIP BLOCK
3/8" X 1" BALSA ELEVATOR TIP BLOCK
PLATE #2
BIG BINGO!
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116 W. 19th St., P.O.Box 511, Higginsville, MO 64037 816.584.7121
5/16" X 1-3/4" BALSA AILERON
1/4" X 3/8" BALSA T.E. CAP
HINGE LOCATION (TYPICAL)
BALSA SCRAP
LEFT WING PANEL
1/4" SQ HARDWOOD (REAR) SPAR (TOP & BOTTOM)
1/8" SCRAP LITE PLY
WING (REAR) HARDWOOD SPACER BLOCK
LITE PLY BOTTOM WING PLANKING
LITE PLY TOP WING PLANKING
WING (FRONT) HARDWOOD SPACER BLOCK
1" O.D. PHENOLIC TUBE
1/4" X 1/2" HARDWOOD (MAIN) SPAR (TOP & BOTTOM)
1-9/16" X 4" LITE PLY SHEAR WEBS
1/4" SQ HARDWOOD (TURBULATOR) SPAR (TOP ONLY)
1/4" SQ HARDWOOD (TURBULATOR) SPAR (TOP & BOTTOM)
5/8" O.D. PLASTIC TUBE LEADING EDGE
BALSA WING TIP BRACES
WING TIP (LAMINATE TWO 1/8" LITE-PLY)
W1
W2
W3
W4
W5
5/8" O.D. PLASTIC TUBE LEADING EDGE
BALSA SCRAP
BALSA WING TIP BRACES
1/4" SQ HARDWOOD (TURBULATOR) SPAR (TOP & BOTTOM)
WING (FRONT) HARDWOOD SPACER BLOCK
1" O.D. PHENOLIC TUBE
(TUBE CAP FROM HOLE PUNCH OUT IN RIBS)
1/4" SQ HARDWOOD (TURBULATOR) SPAR (TOP ONLY)
1/4" X 1/2" HARDWOOD (MAIN) SPAR (TOP & BOTTOM)
1-9/16" X 4" LITE PLY SHEAR WEBS (14 REQ.)
7/8" O.D. ALUMINUM WING JOINER TUBE
1/8" LITE PLY SHEETING
POLYMAT CLOTH (1/2" OVERLAP REQ.)
AILERON WIRE EXIT (TOP ONLY)
AILERON WIRE RACEWAY
SOLDER LINK
SPRING KEEPER
AILERON SERVO DETAIL
#2 X 1/2" S.T. SCREW (4 REQ'D)
1/4" X 3/8" HARDWOOD
NOTE: SERVO PLATE HELD IN WITH (4) #2 X 3/8 FLAT HEAD SCREWS (COUNTERSINK HOLES)
POLYMAT CLOTH
RIGHT WING PANEL
WING TIP (LAMINATE TWO 1/8" LITE-PLY)
4-40 THREADED ROD
1/8" SCRAP LITE PLY
1/4" HARDWOOD DOWEL
WING (REAR) HARDWOOD SPACER BLOCK
1/4" SQ HARDWOOD (REAR) SPAR (TOP & BOTTOM)
BALSA TIP BRACES (TYPICAL)
2-1/8 X 39" LITE PLY TRAILING EDGE
BALSA HINGE BLOCK (CUT FROM 10" STOCK PROVIDED)
HINGE LOCATION (TYPICAL)
BALSA SCRAP
4-40 NUT
SPRING KEEPER
THREADED CLEVIS
CONTROL HORN
2-56 X 1/2" BOLT
1/4" X 3/8" BALSA T.E. CAP
ROBART HINGE POINT (5 REQ. PER AILERON)
5/16" X 1-3/4" BALSA AILERON
2-7/8"
1/16"
3-3/8"
17-1/2"