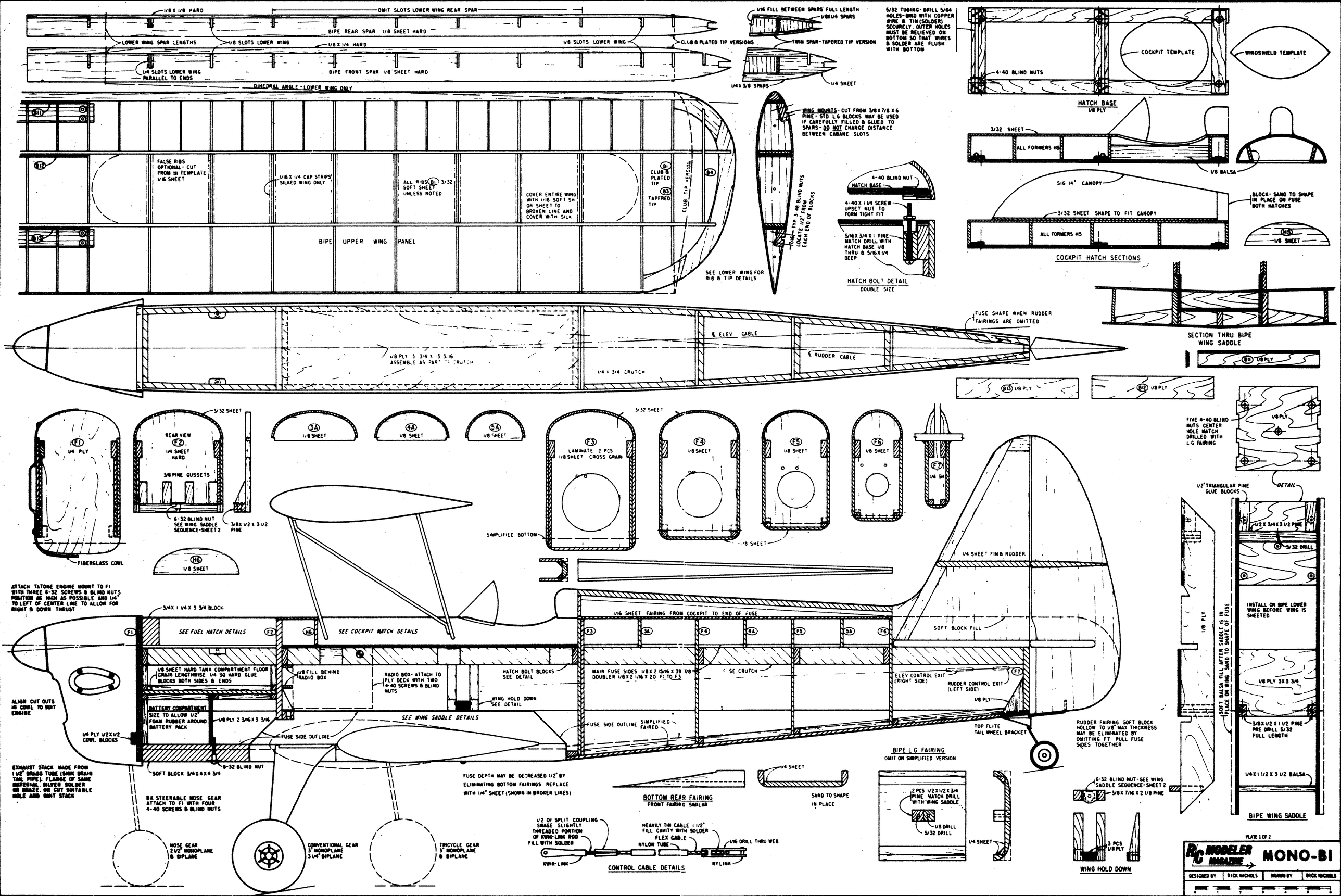
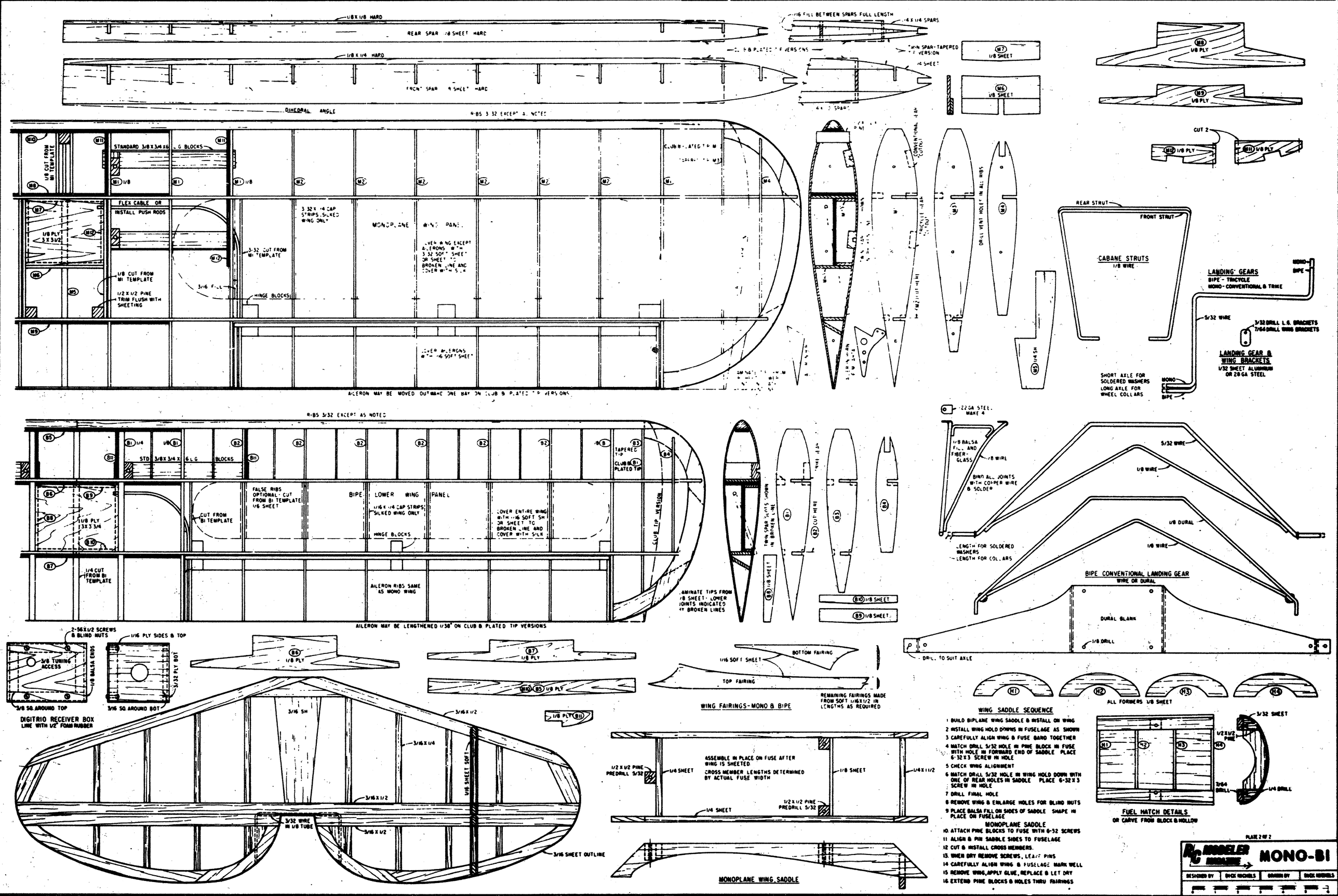

1/8 X 1/8 HARD
OMIT SLOTS LOWER WING REAR SPAR
BIPE REAR SPAR 1/8 SHEET HARD
LOWER WING SPAR LENGTHS
1/8 SLOTS LOWER WING
1/8 X 1/4 HARD
1/8 SLOTS LOWER WING
1/4 SLOTS LOWER WING PARALLEL TO ENDS
BIPE FRONT SPAR 1/8 SHEET HARD
DIHEDRAL ANGLE - LOWER WING ONLY
B11
B12
B13
FALSE RIBS OPTIONAL - CUT FROM B1 TEMPLATE 1/16 SHEET
1/16 X 1/4 CAP STRIPS SILKED WING ONLY
ALL RIBS B1 3/32 SOFT SHEET UNLESS NOTED
COVER ENTIRE WING WITH 1/16 SOFT SH OR SHEET TO BROKEN LINE AND COVER WITH SILK
B1 CLUB & PLATED TIP
B3 TAPERED TIP
CLUB TIP VERSION
B4
BIPE UPPER WING PANEL
1/16 FILL BETWEEN SPARS FULL LENGTH
1/8X1/4 SPARS
CLUB & PLATED TIP VERSIONS
TWIN SPAR-TAPERED TIP VERSION
1/4X3/8 SPARS
1/4 SHEET
5/32 TUBING - DRILL 5/64 HOLES - BIND WITH COPPER WIRE & TIN (SOLDER) SECURELY. OUTER HOLES MUST BE RELIEVED ON BOTTOM SO THAT WIRES & SOLDER ARE FLUSH WITH BOTTOM
COCKPIT TEMPLATE
WINDSHIELD TEMPLATE
4-40 BLIND NUTS
HATCH BASE
1/8 PLY
WING MOUNTS - CUT FROM 3/8 X 7/8 X 6 PINE - STD LG BLOCKS MAY BE USED IF CAREFULLY FILLED & GLUED TO SPARS - DO NOT CHANGE DISTANCE BETWEEN CABANE SLOTS
TYP 3-40 BLIND NUTS LOCATE 1/2" FROM EACH END OF BLOCKS
SEE LOWER WING FOR RIB & TIP DETAILS
3/32 SHEET
ALL FORMERS H5
1/8 BALSA
SIG 14" CANOPY
BLOCK - SAND TO SHAPE IN PLACE ON FUSE BOTH HATCHES
3/32 SHEET SHAPE TO FIT CANOPY
ALL FORMERS H5
H5
1/8 SHEET
COCKPIT HATCH SECTIONS
4-40 BLIND NUT
HATCH BASE
4-40 X 1 1/4 SCREW UPSET NUT TO FORM TIGHT FIT
5/16 X 3/4 X 1 PINE HATCH DRILL WITH HATCH BASE 1/8 THRU & 5/16 X 1/4 DEEP
HATCH BOLT DETAIL
DOUBLE SIZE
SECTION THRU BIPE WING SADDLE
FUSE SHAPE WHEN RUDDER FAIRINGS ARE OMITTED
℄ ELEV CABLE
℄ RUDDER CABLE
1/8 PLY 3 3/4 X 3 3/16 ASSEMBLE AS PART OF CRUTCH
1/4 X 3/4 CRUTCH
B11 1/8 PLY
B13 1/8 PLY
B12 1/8 PLY
F1
1/4 PLY
REAR VIEW
F2
1/4 SHEET HARD
3/8 PINE GUSSETS
3/32 SHEET
6-32 BLIND NUT SEE WING SADDLE SEQUENCE-SHEET 2
3/8X 1/2 X 3 1/2 PINE
FIBERGLASS COWL
H6
1/8 SHEET
3A
1/8 SHEET
4A
1/8 SHEET
5A
1/8 SHEET
3/32 SHEET
F3
LAMINATE 2 PCS 1/8 SHEET CROSS GRAIN
F4
1/8 SHEET
F5
1/8 SHEET
F6
1/8 SHEET
F7
1/4 SH
1/8 SHEET
SIMPLIFIED BOTTOM
1/4 SHEET FIN & RUDDER
FIVE 4-40 BLIND NUTS CENTER HOLE MATCH DRILLED WITH L G FAIRING
1/8 PLY
DETAIL
1/2" TRIANGULAR PINE GLUE BLOCKS
1/2 X 3/4 X 3 1/2 PINE
5/32 DRILL
INSTALL ON BIPE LOWER WING BEFORE WING IS SHEETED
1/8 PLY
SOFT BALSA FILL AFTER SADDLE IS IN PLACE ON WING SAND TO SHAPE OF FUSE
1/8 PLY 3X3 3/4
3/8X 1/2 X 1 1/2 PINE PRE DRILL 5/32 FULL LENGTH
1/4X 1 1/2 X 3 1/2 BALSA
BIPE WING SADDLE
ATTACH TATONE ENGINE MOUNT TO F1 WITH THREE 6-32 SCREWS & BLIND NUTS POSITION AS HIGH AS POSSIBLE AND 1/4" TO LEFT OF CENTER LINE TO ALLOW FOR RIGHT & DOWN THRUST
3/4X 1 1/4 X 3 3/4 BLOCK
SEE FUEL HATCH DETAILS
SEE COCKPIT HATCH DETAILS
1/16 SHEET FAIRING FROM COCKPIT TO END OF FUSE
SOFT BLOCK FILL
1/8 SHEET HARD TANK COMPARTMENT FLOOR GRAIN LENGTHWISE 1/4 SQ HARD GLUE BLOCKS BOTH SIDES & ENDS
1/8 FILL BEHIND RADIO BOX
RADIO BOX - ATTACH TO PLY DECK WITH TWO 4-40 SCREWS & BLIND NUTS
HATCH BOLT BLOCKS SEE DETAIL
MAIN FUSE SIDES 1/8 X 2 15/16 X 39 7/8 DOUBLER 1/8 X 2 1/16 X 20 F1 TO F3
FUSE CRUTCH
ELEV CONTROL EXIT (RIGHT SIDE)
RUDDER CONTROL EXIT (LEFT SIDE)
1/8 PLY
ALIGN CUT OUTS IN COWL TO SUIT ENGINE
BATTERY COMPARTMENT SIZE TO ALLOW 1/2" FOAM RUBBER AROUND BATTERY PACK
1/8 PLY 2 3/16 X 3 3/16
WING HOLD DOWN SEE DETAIL
SEE WING SADDLE DETAILS
FUSE SIDE OUTLINE
FUSE SIDE OUTLINE SIMPLIFIED FAIRED
TOP FLITE TAIL WHEEL BRACKET
RUDDER FAIRING SOFT BLOCK HOLLOW TO 1/8" MAX THICKNESS MAY BE ELIMINATED BY OMITTING F7 PULL FUSE SIDES TOGETHER
1/4 PLY 1/2X1/2 COWL BLOCKS
SOFT BLOCK 3/4X4X4 3/4
6-32 BLIND NUT
EXHAUST STACK MADE FROM 1 1/2" BRASS TUBE (SINK DRAIN TAIL PIPE). FLANGE OF SAME MATERIAL. SILVER SOLDER OR BRAZE. OR CUT SUITABLE HOLE AND SINT STACK
BK STEERABLE NOSE GEAR ATTACH TO F1 WITH FOUR 4-40 SCREWS & BLIND NUTS
FUSE DEPTH MAY BE DECREASED 1/2" BY ELIMINATING BOTTOM FAIRINGS REPLACE WITH 1/4" SHEET (SHOWN IN BROKEN LINES)
BOTTOM REAR FAIRING
FRONT FAIRING SIMILAR
1/4 SHEET
SAND TO SHAPE IN PLACE
BIPE L G FAIRING
OMIT ON SIMPLIFIED VERSION
2 PCS 1/2 X 1/2 X 3/4 PINE MATCH DRILL WITH WING SADDLE
1/8 DRILL
5/32 DRILL
1/4 SHEET
6-32 BLIND NUT - SEE WING SADDLE SEQUENCE - SHEET 2
3/8 X 7/16 X 2 1/8 PINE
3 PCS 1/8 PLY
WING HOLD DOWN
1/2 OF SPLIT COUPLING SWAGE SLIGHTLY THREADED PORTION OF KWIK-LINK ROD FILL WITH SOLDER
KWIK-LINK
HEAVILY TIN CABLE 1 1/2" FILL CAVITY WITH SOLDER
FLEX CABLE
NYLON TUBE
1/16 DRILL THRU WEB
NY LINK
CONTROL CABLE DETAILS
NOSE GEAR 2 1/2" MONOPLANE & BIPLANE
CONVENTIONAL GEAR 3" MONOPLANE 3 1/4" BIPLANE
TRICYCLE GEAR 3" MONOPLANE & BIPLANE
PLATE 1 OF 2
R/C MODELER MAGAZINE
MONO-BI
DESIGNED BY
DICK NICHOLS
DRAWN BY
DICK NICHOLS


1/8 X 1/8 HARD
REAR SPAR 1/8 SHEET HARD
1/8 X 1/4 HARD
FRONT SPAR 1/8 SHEET HARD
DIHEDRAL ANGLE
RIBS 3/32 EXCEPT AS NOTED
STANDARD 3/8 X 3/4 X 6 L G BLOCKS
1/8 CUT FROM M1 TEMPLATE
FLEX CABLE OR INSTALL PUSH RODS
1/8 PLY 3 X 3 1/2
1/8 CUT FROM M1 TEMPLATE
1/2 X 1/2 PINE TRIM FLUSH WITH SHEETING
3/32 CUT FROM M1 TEMPLATE
3/16 FILL
HINGE BLOCKS
3/32 X 1/4 CAP STRIPS, SILKED WING ONLY
MONOPLANE WING PANEL
COVER WING EXCEPT AILERONS WITH 3/32 SOFT SHEET OR SHEET TO BROKEN LINE AND COVER WITH SILK
COVER AILERONS WITH 1/16 SOFT SHEET
CLUB & PLATED TIP
AILERON MAY BE MOVED OUTWARD ONE BAY ON CLUB & PLATED TIP VERSIONS
1/16 FILL BETWEEN SPARS FULL LENGTH
1/4 X 1/4 SPARS
TWIN SPAR - TAPERED TIP VERSION
1/8 SHEET
1/8 PLY
CUT 2
1/8 PLY
CONVENTIONAL 1/4 PINE
DRILL VENT HOLES IN ALL RIBS
REAR STRUT
FRONT STRUT
CABANE STRUTS
1/8 WIRE
LANDING GEARS
BIPE - TRICYCLE
MONO - CONVENTIONAL & TRIKE
5/32 WIRE
3/32 DRILL L.G. BRACKETS
7/64 DRILL WING BRACKETS
LANDING GEAR & WING BRACKETS
1/32 SHEET ALUMINUM OR 20 GA STEEL
SHORT AXLE FOR SOLDERED WASHERS
LONG AXLE FOR WHEEL COLLARS
MONO
BIPE
RIBS 3/32 EXCEPT AS NOTED
STD 3/8 X 3/4 X 6 L G BLOCKS
TAPERED TIP
CLUB & PLATED TIP
FALSE RIBS OPTIONAL - CUT FROM B1 TEMPLATE 1/6 SHEET
BIPE LOWER WING PANEL
1/16 X 1/4 CAP STRIPS, SILKED WING ONLY
HINGE BLOCKS
COVER ENTIRE WING WITH 1/16 SOFT SH OR SHEET TO BROKEN LINE AND COVER WITH SILK
CUT FROM B1 TEMPLATE
1/8 PLY 3 X 3 3/4
1/4 CUT FROM B1 TEMPLATE
AILERON RIBS SAME AS MONO WING
CLUB TIP VERSION
AILERON MAY BE LENGTHENED 1/38" ON CLUB & PLATED TIP VERSIONS
LAMINATE TIPS FROM 1/8 SHEET - LOWER JOINTS INDICATED BY BROKEN LINES
TWIN SPAR SLOTS SHOWN IN BROKEN LINE
CUT HERE
1/8 SHEET
1/8 SHEET
1/8 SHEET
1/8 SHEET
22GA STEEL MAKE 4
1/8 BALSA FILL AND FIBER-GLASS
1/8 WIRE
BIND ALL JOINTS WITH COPPER WIRE & SOLDER
5/32 WIRE
1/8 WIRE
1/8 DURAL
1/8 WIRE
LENGTH FOR SOLDERED WASHERS
LENGTH FOR COLLARS
BIPE CONVENTIONAL LANDING GEAR
WIRE OR DURAL
DURAL BLANK
1/8 DRILL
DRILL TO SUIT AXLE
2-56 X 1/2 SCREWS & BLIND NUTS
1/16 PLY SIDES & TOP
3/8 TUNING ACCESS
1/8 BALSA ENDS
3/32 PLY BOT
3/8 SQ. AROUND TOP
3/16 SQ. AROUND BOT
DIGITRIO RECEIVER BOX
LINE WITH 1/2" FOAM RUBBER
1/8 PLY
1/8 PLY
1/8 PLY
1/8 PLY
BOTTOM FAIRING
1/16 SOFT SHEET
TOP FAIRING
REMAINING FAIRINGS MADE FROM SOFT 1/16 X 1/2 IN LENGTHS AS REQUIRED
WING FAIRINGS - MONO & BIPE
3/16 SH
3/16 X 1/2
3/16 X 1/4
1/16 SHEET SOFT
3/16 X 1/2
3/32 WIRE IN 1/8 TUBE
3/16 X 1/2
3/16 SHEET OUTLINE
ASSEMBLE IN PLACE ON FUSE AFTER WING IS SHEETED
CROSS MEMBER LENGTHS DETERMINED BY ACTUAL FUSE WIDTH
1/2 X 1/2 PINE PREDRILL 5/32
1/4 SHEET
1/8 SHEET
1/4 X 1 1/2
1/2 X 1/2 PINE PREDRILL 5/32
1/4 SHEET
MONOPLANE WING SADDLE
H1
H2
H3
H4
ALL FORMERS 1/8 SHEET
WING SADDLE SEQUENCE
1 BUILD BIPLANE WING SADDLE & INSTALL ON WING
2 INSTALL WING HOLD DOWNS IN FUSELAGE AS SHOWN
3 CAREFULLY ALIGN WING & FUSE BAND TOGETHER
4 MATCH DRILL 5/32 HOLE IN PINE BLOCK IN FUSE WITH HOLE IN FORWARD END OF SADDLE PLACE 6-32 X 3 SCREW IN HOLE
5 CHECK WING ALIGNMENT
6 MATCH DRILL 5/32 HOLE IN WING HOLD DOWN WITH ONE OF REAR HOLES IN SADDLE PLACE 6-32 X 3 SCREW IN HOLE
7 DRILL FINAL HOLE
8 REMOVE WING & ENLARGE HOLES FOR BLIND NUTS
9 PLACE BALSA FILL ON SIDES OF SADDLE SHAPE IN PLACE ON FUSELAGE
MONOPLANE SADDLE
10. ATTACH PINE BLOCKS TO FUSE WITH 6-32 SCREWS
11 ALIGN & PIN SADDLE SIDES TO FUSELAGE
12 CUT & INSTALL CROSS MEMBERS.
13. WHEN DRY REMOVE SCREWS, LEAVE PINS
14 CAREFULLY ALIGN WING & FUSELAGE MARK WELL
15 REMOVE WING, APPLY GLUE, REPLACE & LET DRY
16 EXTEND PINE BLOCKS & HOLES THRU FAIRINGS
3/32 SHEET
1/2 X 1/2 PINE
3/64 DRILL
1/4 DRILL
FUEL HATCH DETAILS
OR CARVE FROM BLOCK & HOLLOW
PLANE 2 OF 2
R/C MODELER MAGAZINE
MONO-BI
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