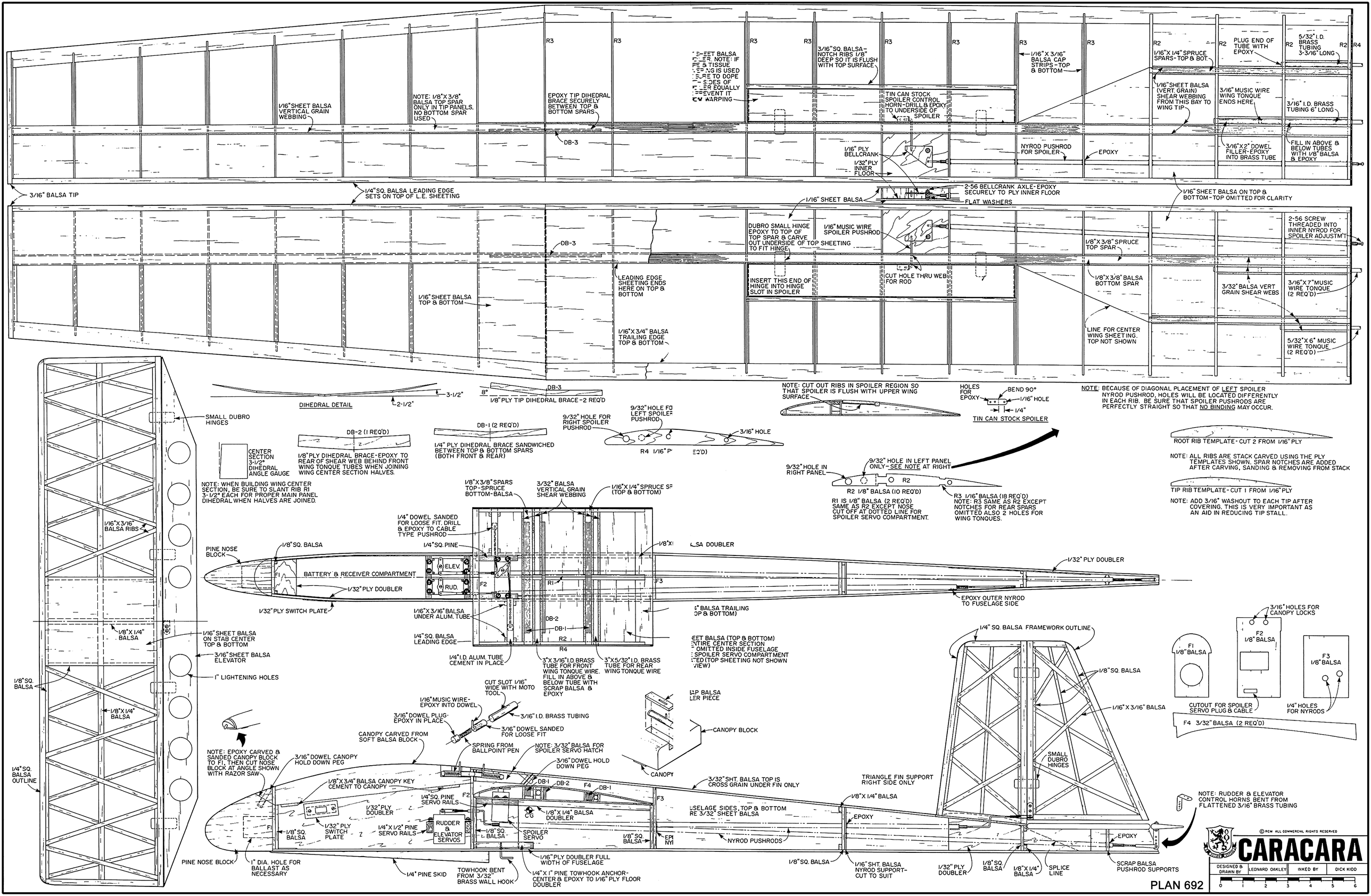
R3
R3
R3
R3
R3
R3
R3
R2
R2
R2
R2
R4
1/16" SHEET BALSA VERTICAL GRAIN WEBBING
NOTE: 1/8"X 3/8" BALSA TOP SPAR ONLY IN TIP PANELS. NO BOTTOM SPAR USED
EPOXY TIP DIHEDRAL BRACE SECURELY BETWEEN TOP & BOTTOM SPARS
DB-3
3/16" SQ. BALSA - NOTCH RIBS 1/8" DEEP SO IT IS FLUSH WITH TOP SURFACE
TIN CAN STOCK SPOILER CONTROL HORN - DRILL & EPOXY TO UNDERSIDE OF SPOILER
1/16" X 3/16" BALSA CAP STRIPS - TOP & BOTTOM
1/16" X 1/4" SPRUCE SPARS - TOP & BOT.
PLUG END OF TUBE WITH EPOXY
5/32" I.D. BRASS TUBING 3-3/16" LONG
1/16" SHEET BALSA (VERT. GRAIN) SHEAR WEBBING FROM THIS BAY TO WING TIP
3/16" MUSIC WIRE WING TONQUE ENDS HERE
3/16" I.D. BRASS TUBING 6" LONG
3/16" X 2" DOWEL FILLER - EPOXY INTO BRASS TUBE
FILL IN ABOVE & BELOW TUBES WITH 1/8" BALSA & EPOXY
1/16" PLY BELLCRANK
1/32" PLY INNER FLOOR
NYROD PUSHROD FOR SPOILER
EPOXY
3/16" BALSA TIP
1/4" SQ. BALSA LEADING EDGE SETS ON TOP OF L.E. SHEETING
2-56 BELLCRANK AXLE - EPOXY SECURELY TO PLY INNER FLOOR
FLAT WASHERS
1/16" SHEET BALSA
1/16" SHEET BALSA ON TOP & BOTTOM - TOP OMITTED FOR CLARITY
DUBRO SMALL HINGE EPOXY TO TOP OF TOP SPAR & CARVE OUT UNDERSIDE OF TOP SHEETING TO FIT HINGE
1/16" MUSIC WIRE SPOILER PUSHROD
2-56 SCREW THREADED INTO INNER NYROD FOR SPOILER ADJUSTMT
1/8" X 3/8" SPRUCE TOP SPAR
1/8" X 3/8" BALSA BOTTOM SPAR
3/32" BALSA VERT GRAIN SHEAR WEBS
3/16" X 7" MUSIC WIRE TONQUE (2 REQ'D)
5/32" X 6" MUSIC WIRE TONQUE (2 REQ'D)
LEADING EDGE SHEETING ENDS HERE ON TOP & BOTTOM
1/16" SHEET BALSA TOP & BOTTOM
INSERT THIS END OF HINGE INTO HINGE SLOT IN SPOILER
CUT HOLE THRU WEB FOR ROD
1/16" X 3/4" BALSA TRAILING EDGE TOP & BOTTOM
LINE FOR CENTER WING SHEETING. TOP NOT SHOWN
DIHEDRAL DETAIL
3-1/2"
2-1/2"
8°
DB-3
1/8" PLY TIP DIHEDRAL BRACE - 2 REQ'D
NOTE: CUT OUT RIBS IN SPOILER REGION SO THAT SPOILER IS FLUSH WITH UPPER WING SURFACE
HOLES FOR EPOXY
BEND 90°
1/16" HOLE
1/4"
TIN CAN STOCK SPOILER
NOTE: BECAUSE OF DIAGONAL PLACEMENT OF LEFT SPOILER NYROD PUSHROD, HOLES WILL BE LOCATED DIFFERENTLY IN EACH RIB. BE SURE THAT SPOILER PUSHRODS ARE PERFECTLY STRAIGHT SO THAT NO BINDING MAY OCCUR.
SMALL DUBRO HINGES
DB-2 (1 REQ'D)
1/8" PLY DIHEDRAL BRACE - EPOXY TO REAR OF SHEAR WEB BEHIND FRONT WING TONQUE TUBES WHEN JOINING WING CENTER SECTION HALVES.
DB-1 (2 REQ'D)
1/4" PLY DIHEDRAL BRACE SANDWICHED BETWEEN TOP & BOTTOM SPARS (BOTH FRONT & REAR)
9/32" HOLE FOR RIGHT SPOILER PUSHROD
9/32" HOLE FO LEFT SPOILE PUSHROD
3/16" HOLE
R4 1/16" P EQ'D)
CENTER SECTION 3-1/2° DIHEDRAL ANGLE GAUGE
NOTE: WHEN BUILDING WING CENTER SECTION, BE SURE TO SLANT RIB R1 3-1/2° EACH FOR PROPER MAIN PANEL DIHEDRAL WHEN HALVES ARE JOINED.
9/32" HOLE IN RIGHT PANEL
9/32" HOLE IN LEFT PANEL ONLY - SEE NOTE AT RIGHT
R2 1/8" BALSA (10 REQ'D)
R1 IS 1/8" BALSA (2 REQ'D) SAME AS R2 EXCEPT NOSE CUT OFF AT DOTTED LINE FOR SPOILER SERVO COMPARTMENT.
R3 1/16" BALSA (18 REQ'D) NOTE: R3 SAME AS R2 EXCEPT NOTCHES FOR REAR SPARS OMITTED ALSO 2 HOLES FOR WING TONQUES.
ROOT RIB TEMPLATE - CUT 2 FROM 1/16" PLY
NOTE: ALL RIBS ARE STACK CARVED USING THE PLY TEMPLATES SHOWN. SPAR NOTCHES ARE ADDED AFTER CARVING, SANDING & REMOVING FROM STACK
TIP RIB TEMPLATE - CUT 1 FROM 1/16" PLY
NOTE: ADD 3/16" WASHOUT TO EACH TIP AFTER COVERING. THIS IS VERY IMPORTANT AS AN AID IN REDUCING TIP STALL.
1/16" X 3/16" BALSA RIBS
1/8" X 3/8" SPARS TOP - SPRUCE BOTTOM - BALSA
3/32" BALSA VERTICAL GRAIN SHEAR WEBBING
1/16" X 1/4" SPRUCE SP (TOP & BOTTOM)
1/4" DOWEL SANDED FOR LOOSE FIT. DRILL & EPOXY TO CABLE TYPE PUSHROD
PINE NOSE BLOCK
1/8" SQ. BALSA
1/4" SQ. PINE
1/8" X LSA DOUBLER
1/32" PLY DOUBLER
BATTERY & RECEIVER COMPARTMENT
ELEV.
RUD.
F1
F2
F3
R1
1/32" PLY DOUBLER
1/32" PLY SWITCH PLATE
EPOXY OUTER NYROD TO FUSELAGE SIDE
1/16" X 3/16" BALSA UNDER ALUM. TUBE
DB-2
DB-1
R2
R4
1/4" SQ. BALSA LEADING EDGE
1/4" I.D. ALUM. TUBE CEMENT IN PLACE
3" X 3/16" I.D. BRASS TUBE FOR FRONT WING TONQUE WIRE. FILL IN ABOVE & BELOW TUBE WITH SCRAP BALSA & EPOXY
3" X 5/32" I.D. BRASS TUBE FOR REAR WING TONQUE WIRE
" BALSA TRAILING OP & BOTTOM)
EET BALSA (TOP & BOTTOM) NTIRE CENTER SECTION OMITTED INSIDE FUSELAGE SPOILER SERVO COMPARTMENT ED (TOP SHEETING NOT SHOWN VIEW)
1/8" SQ. BALSA
1/8" X 1/4" BALSA
1/16" SHEET BALSA ON STAB CENTER TOP & BOTTOM
3/16" SHEET BALSA ELEVATOR
1" LIGHTENING HOLES
1/4" SQ. BALSA FRAMEWORK OUTLINE
1/8" SQ. BALSA
1/16" X 3/16" BALSA
F1 1/8" BALSA
F2 1/8" BALSA
F3 1/8" BALSA
3/16" HOLES FOR CANOPY LOCKS
CUTOUT FOR SPOILER SERVO PLUG & CABLE
1/4" HOLES FOR NYRODS
F4 3/32" BALSA (2 REQ'D)
1/4" SQ. BALSA OUTLINE
NOTE: EPOXY CARVED & SANDED CANOPY BLOCK TO F1, THEN CUT NOSE BLOCK AT ANGLE SHOWN WITH RAZOR SAW
3/16" DOWEL CANOPY HOLD DOWN PEG
1/8" X 3/4" BALSA CANOPY KEY CEMENT TO CANOPY
CANOPY CARVED FROM SOFT BALSA BLOCK
1/16" MUSIC WIRE - EPOXY INTO DOWEL
3/16" DOWEL PLUG - EPOXY IN PLACE
CUT SLOT 1/16" WIDE WITH MOTO TOOL
3/16" I.D. BRASS TUBING
3/16" DOWEL SANDED FOR LOOSE FIT
SPRING FROM BALLPOINT PEN
NOTE: 3/32" BALSA FOR SPOILER SERVO HATCH
3/16" DOWEL HOLD DOWN PEG
P BALSA ER PIECE
CANOPY BLOCK
CANOPY
3/32" SHT. BALSA TOP IS CROSS GRAIN UNDER FIN ONLY
TRIANGLE FIN SUPPORT RIGHT SIDE ONLY
1/8" X 1/4" BALSA
SMALL DUBRO HINGES
1/4" SQ. PINE SERVO RAILS
1/32" PLY DOUBLER
1/32" PLY SWITCH PLATE
1/4" X 1/2" PINE SERVO RAILS
RUDDER & ELEVATOR SERVOS
1/8" SQ. BALSA
1/8" X 1/4" BALSA DOUBLER
SPOILER SERVO
USELAGE SIDES, TOP & BOTTOM RE 3/32" SHEET BALSA
NYROD PUSHRODS
EPOXY
NOTE: RUDDER & ELEVATOR CONTROL HORNS BENT FROM FLATTENED 3/16" BRASS TUBING
PINE NOSE BLOCK
1" DIA. HOLE FOR BALLAST AS NECESSARY
1/4" PINE SKID
TOWHOOK BENT FROM 3/32" BRASS WALL HOOK
1/16" PLY DOUBLER FULL WIDTH OF FUSELAGE
1/4" X 1" PINE TOWHOOK ANCHOR - CENTER & EPOXY TO 1/16" PLY FLOOR DOUBLER
1/8" SQ. BALSA
1/16" SHT. BALSA NYROD SUPPORT - CUT TO SUIT
1/32" PLY DOUBLER
1/8" SQ. BALSA
1/8" X 1/4" BALSA
SPLICE LINE
SCRAP BALSA PUSHROD SUPPORTS
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