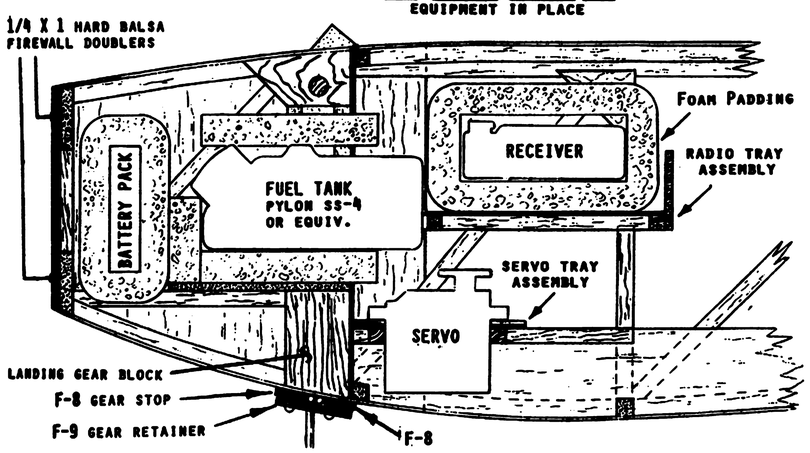
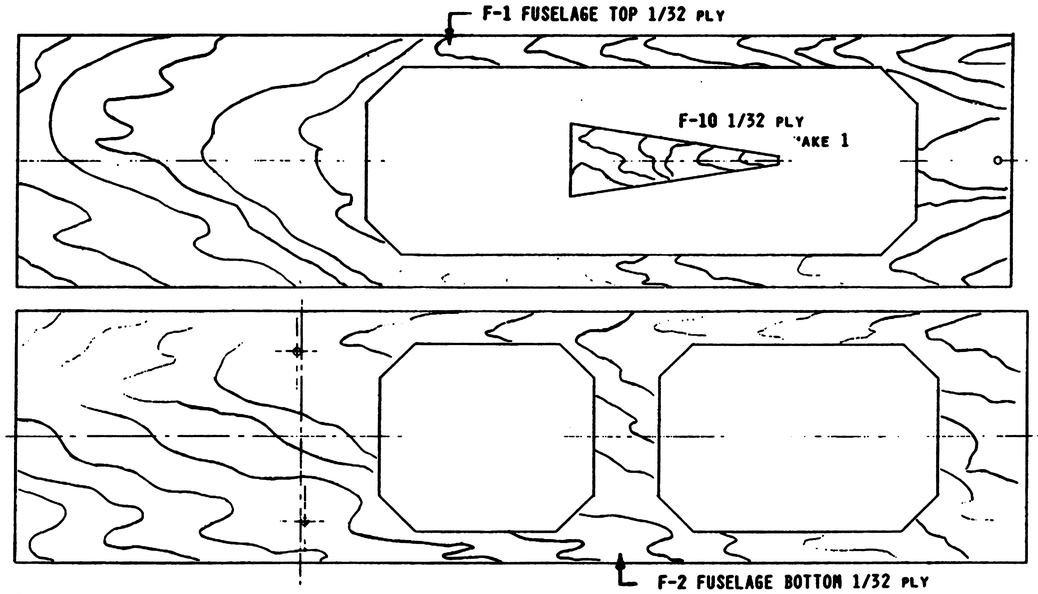
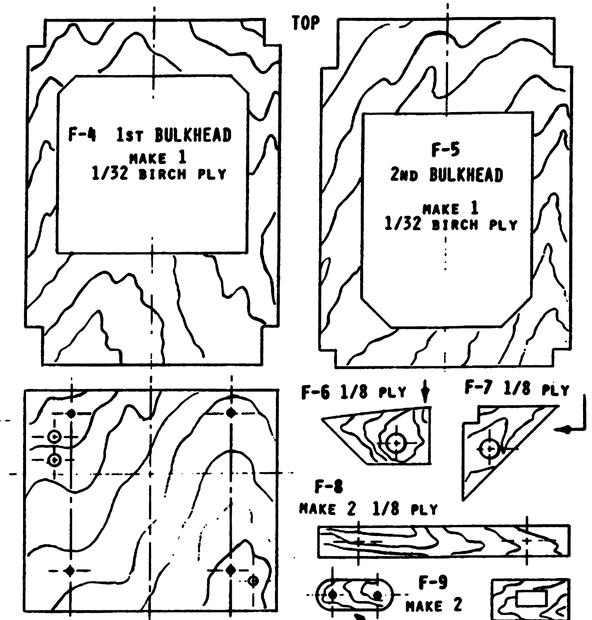
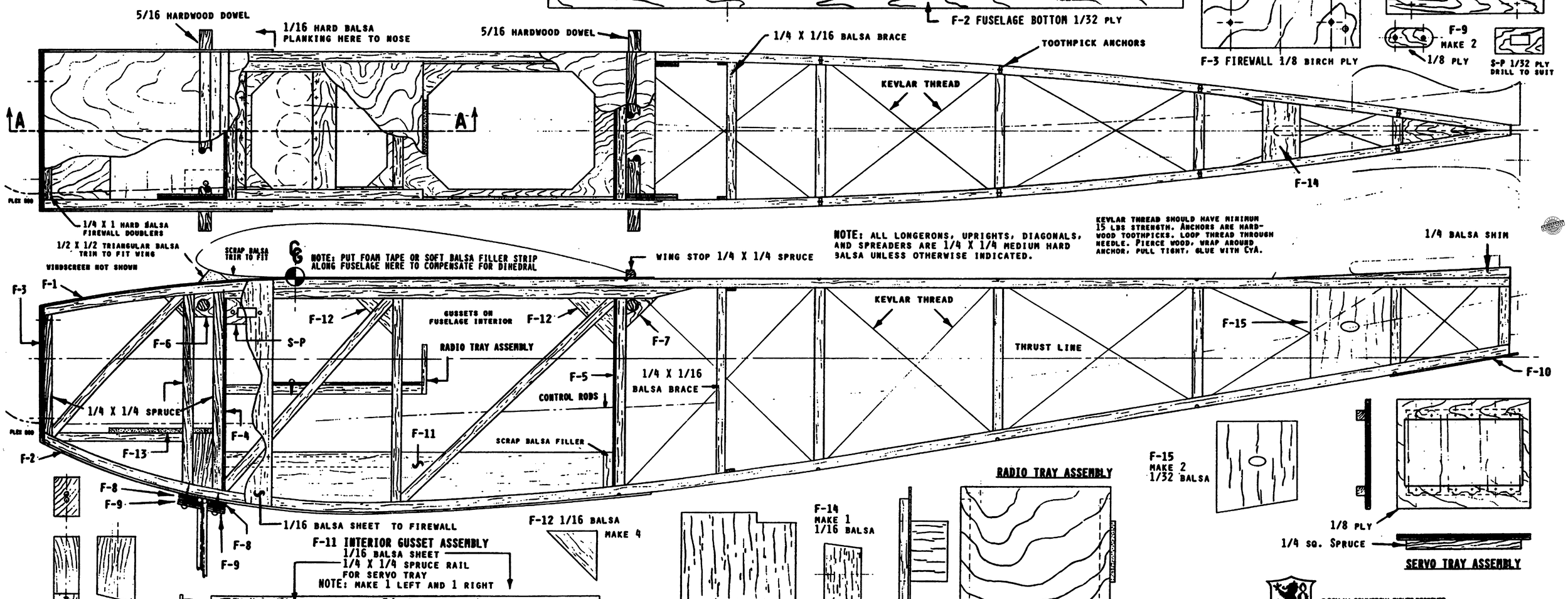
## VIEW THROUGH SECTION A-A
EQUIPMENT IN PLACE




NOTE: GUSSETS F-6, F-7, F-11, AND F-12 ARE ON THE INBOARD SIDE OF THE STRUCTURE.




NOTE: ALL LONGERONS, UPRIGHTS, DIAGONALS, AND SPREADERS ARE 1/4 X 1/4 MEDIUM HARD BALSA UNLESS OTHERWISE INDICATED.

KEVLAR THREAD SHOULD HAVE MINIMUM 15 LBS STRENGTH. ANCHORS ARE HARDWOOD TOOTHPICKS. LOOP THREAD THROUGH NEEDLE. PIERCE WOOD, WRAP AROUND ANCHOR, PULL TIGHT, GLUE WITH CyA.



# SPIRIT of CHERNOBYL
A SETBACK OF TECHNOLOGY

DESIGNED BY: William L. Potter
PLANS BY: William L. Potter

WING TIP: LAMINATE TWO 1/4 SQUARE MEDIUM BALSA STICKS. SHAPE AS NEEDED

AILERON HINGE BLOCK

AILERON SPAR 3/8 X 3/8 TRIANGULAR MEDIUM BALSA

1/32 BALSA SHEET

REAR SPAR CAPS 1/32 HARD BALSA

FALSE RIB

1/32 BALSA ROD EXIT

1/8 PLY

1/32 WEBBING FROM HERE OUT

1/16 WEBBING FROM HERE IN

RIGHT WING

NOTE: ADDITIONAL WING DETAILS ARE SHOWN ON DRAWING NUMBER THREE.

1/16 PLY DIHEDRAL GUSSETS

BALSA FILLER (CENTER SECTION ONLY)

B

C

D

A

A

AA

BB

CC

DD

1/32 BALSA SPAR WEB GRAIN VERT.

1/4 SQUARE MEDIUM BALSA

1/8 HARD BALSA FALSE SPAR

1/16 BALSA GUSSET

1/8 BALSA DOUBLERS

NOTE: DOUBLE RIB 1 SHORT, 1 LONG

NOTE: CUT HERE FOR SHORT RIBS

SPAR CAPS 1/4 SQUARE HARD BALSA

1/16 BALSA SPAR WEB GRAIN VERT.

LEFT WING

1/16 X 1/4 HARD BALSA

CONTROL ROD

1/32 MED. BALSA TOP PLANKING

1/32 MED. BALSA BOTTOM PLANKING

SPRUCE SERVO RAILS

1/16 PLY RIB

1/8 BALSA

BALSA FILLER (CENTER SECTION ONLY)

CENTER RIB: 1/8 BALSA. CUT-OUT MIDDLE FOR SERVO BOX

REAR SPAR HINGE BLOCK
MAKE 6, SOFT BALSA SCRAP.
GLUE TO INTERIOR OF REAR SPAR AT HINGE POINTS.

AILERON HINGE BLOCK
MAKE 6, SOFT BALSA SCRAP.
GLUE TO INTERIOR OF AIL. SPAR AT HINGE POINTS.

**MAKE:** 16 LONG RIBS, 12 SHORT RIBS (1/16 BALSA).
2 PLYWOOD RIBS (1/16 BIRCH AIRCRAFT PLY)
2 CENTER RIBS (1/8 MEDIUM BALSA).

NOTE: DO NOT CUT NOTCHES FOR DIAGONALS UNTIL FITTING THEM IN PLACE. INSTALL THE PLY RIBS AND CENTER RIBS AFTER JOINING WING HALVES; TRIM TO FIT AS NECESSARY.

NOTE: UNLESS NOTED OTHERWISE, ALL RIBS ARE 1/16 LIGHT BALSA SHEET WITH 1/32 X 3/16 MEDIUM BALSA CAPS. CAPSTRIP ENDS ARE FEATHER-SANDED TO BLEND SMOOTHLY INTO CONTOURS OF LEADING AND TRAILING EDGES. SPARS ARE 1/4 SQUARE HARD BALSA. DIAGONAL BRACES ARE 1/16 X 1/4 HARD BALSA. SPAR WEBS ARE 1/16 SHEET BALSA (INBOARD BAYS) AND 1/32 BALSA (OUTER BAYS); USE DENSER MATERIAL TOWARDS WING CENTER. TRAILING EDGE IS 1/4 X 1 HARD BALSA. LEADING EDGE IS 5/8 X 3/4 MEDIUM BALSA.

NOTE: USE STANDARD AILERON SERVO TRAY



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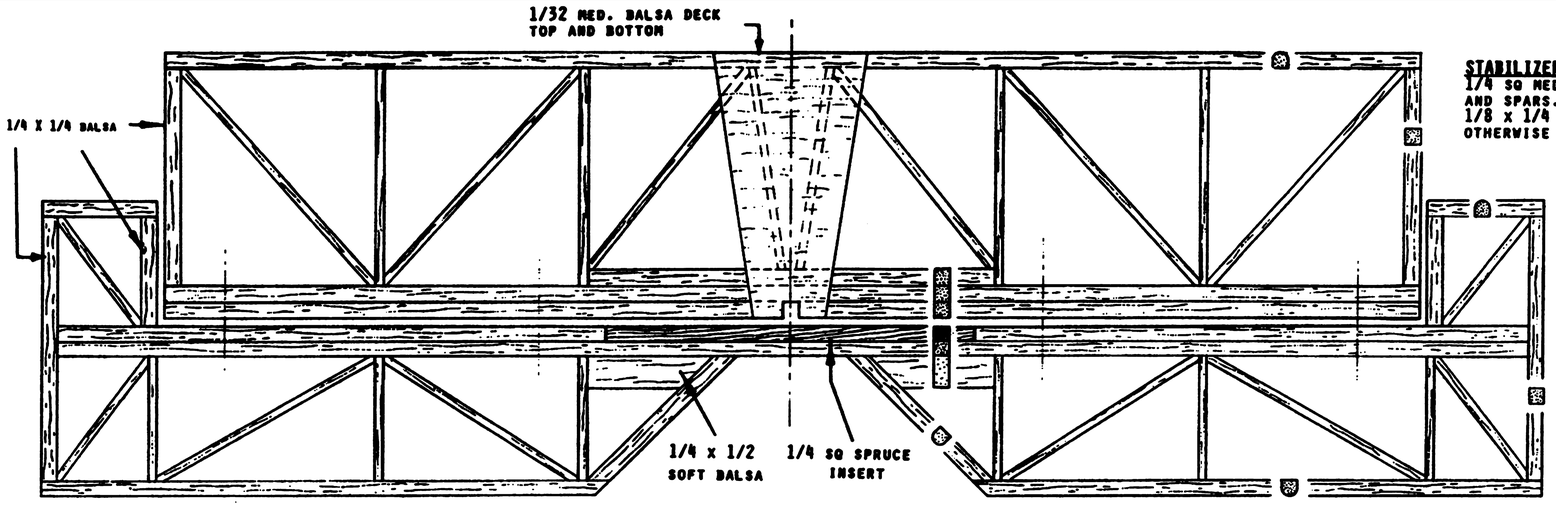
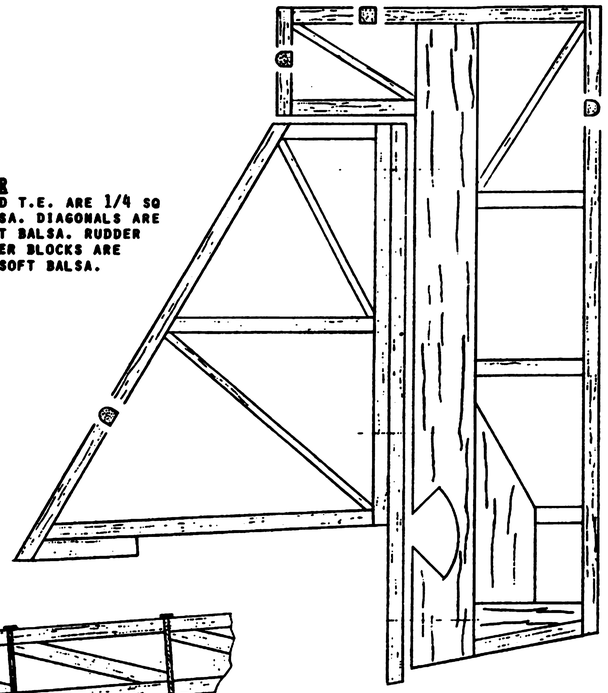
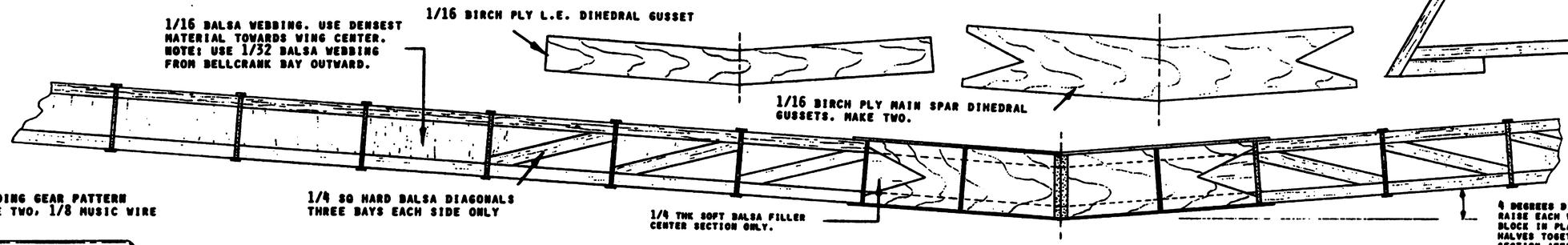


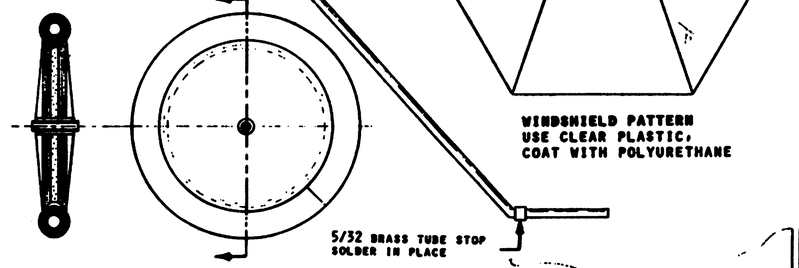

**STABILIZER AND ELEVATOR**
1/4 SQ MEDIUM HARD BALSA L.E., T.E, AND SPARS. RIBS AND DIAGONALS ARE 1/8 x 1/4 SOFT BALSA UNLESS NOTED OTHERWISE

**FIN AND RUDDER**
L.E. RIBS, AND T.E. ARE 1/4 SQ MED. HARD BALSA. DIAGONALS ARE 1/8 x 1/4 SOFT BALSA. RUDDER SPAR AND FILLER BLOCKS ARE 1/4 x 1 MED. SOFT BALSA.

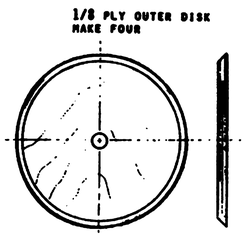




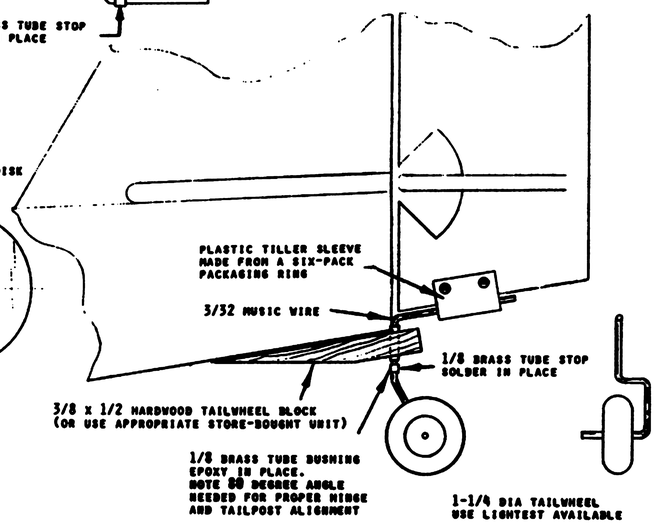

**MAIN SPAR DETAILS** (VIEWED FROM FRONT)

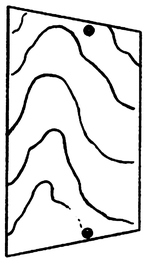



TIRE IS APPROX. 1/2 INCH O.D. BLACK AUTO HOSE CUT TO FORM CORRECT CIRCUMFERENCE; CHECK FIT, INSERT SHORT PIECE OF SNUG-FITTING DOWEL IN ENDS, AND JOIN WITH CA GLUE. MOUNT ON RIM.

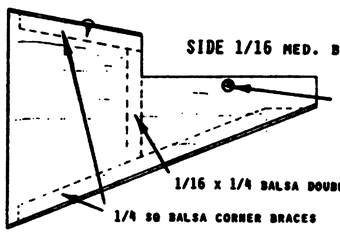


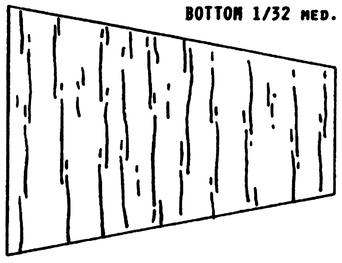

**WHEELS:**
"VINTAGE" OR "GOLDEN AGE" STYLE ACCEPTABLE
NOTE: PROTOTYPE USED SHOP-MADE WHEELS SHOWN. CHEAP BUT HEAVY. MADE FROM TWO 1/8 PLY OUTER DISKS AND 1/8 BALSA CORE DISK CUT WITH A CIRCLE CUTTER ON A DRILL PRESS. HUB IS 1/4 OR 5/16 HARDWOOD DOWEL EPOXIED IN PLACE, CENTER-DRILLED FOR 5/32 BRASS TUBE BEARING CA GLUED IN PLACE. COVER WHEEL WITH MICAFILM.



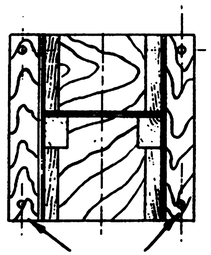



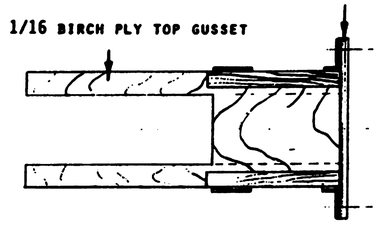

**COWLING**-TYPICAL
ADJUST PATTERN TO SUIT ENGINE USED.
DESIGNED AROUND O.S. 20 4-CYC AS SHOWN.

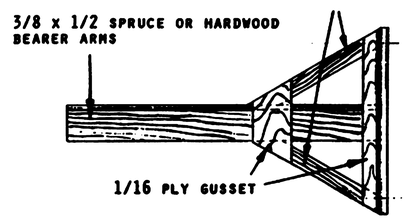



**MOTOR MOUNT** - USE EPOXY. FOR O.S. 20 4-CYC. INSTALLATION CHECK AND ADJUST DISTANCE BETWEEN BEARER ARMS FOR OTHER ENGINES. NOTE: BEARER ARMS DELIBERATELY LEFT LONG TO AID BALANCING FINISHED MODEL. MOVE ENGINE LOCATION TO BALANCE, MARK MOUNT, AND CUT OFF EXCESS.



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