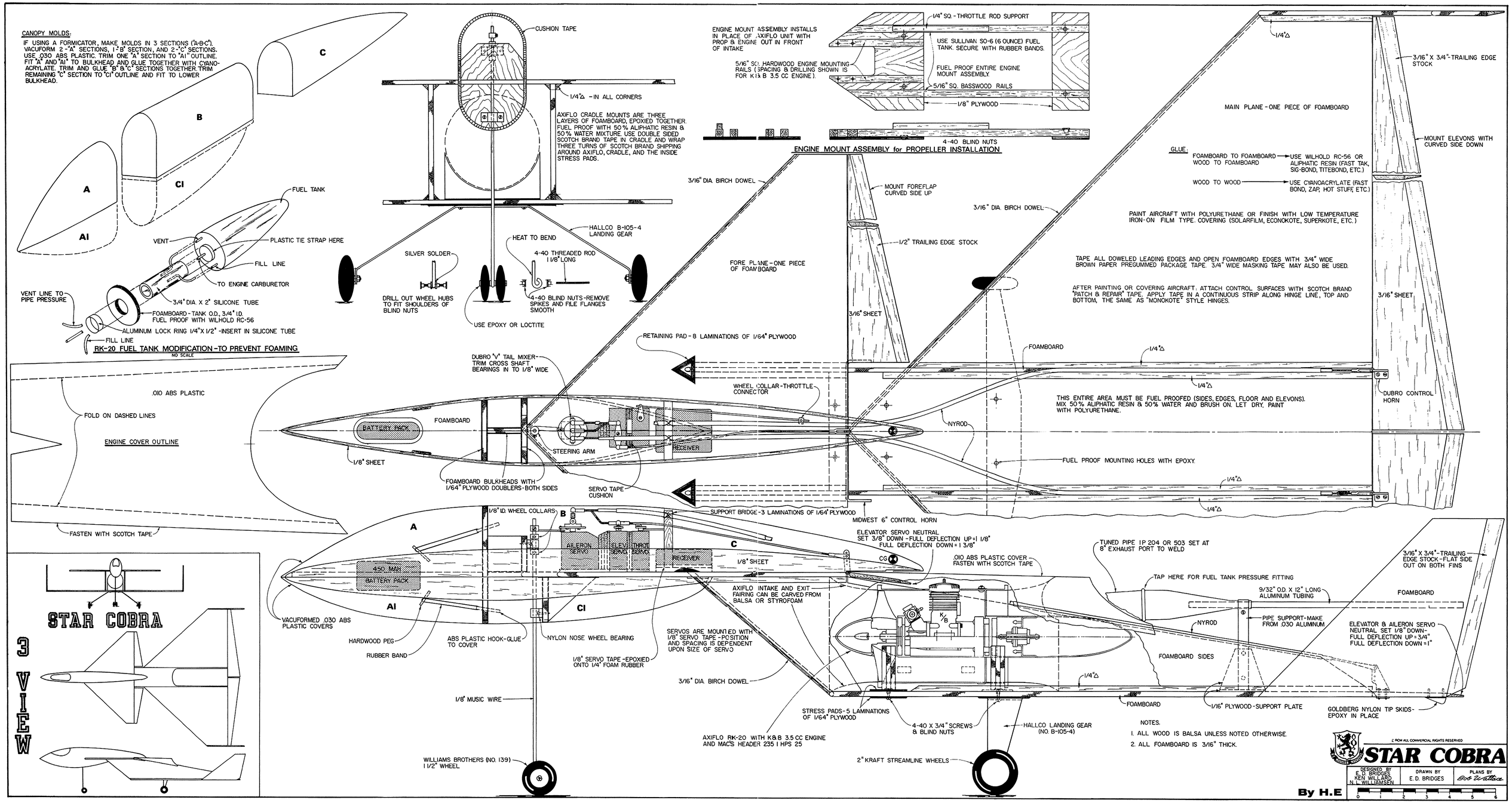
CANOPY MOLDS:
IF USING A FORMICATOR, MAKE MOLDS IN 3 SECTIONS ("A-B-C"). VACUFORM 2-"A" SECTIONS, 1-"B" SECTION, AND 2-"C" SECTIONS. USE .030 ABS PLASTIC. TRIM ONE "A" SECTION TO "A1" OUTLINE. FIT "A" AND "A1" TO BULKHEAD AND GLUE TOGETHER WITH CYANO-ACRYLATE. TRIM AND GLUE "B" & "C" SECTIONS TOGETHER. TRIM REMAINING "C" SECTION TO "C1" OUTLINE AND FIT TO LOWER BULKHEAD.
C
B
A
C1
A1
FUEL TANK
VENT
PLASTIC TIE STRAP HERE
FILL LINE
TO ENGINE CARBURETOR
VENT LINE TO PIPE PRESSURE
3/4" DIA. X 2" SILICONE TUBE
FOAMBOARD-TANK O.D. 3/4" I.D. FUEL PROOF WITH WILHOLD RC-56
ALUMINUM LOCK RING 1/4" X 1/2" -INSERT IN SILICONE TUBE
FILL LINE
RK-20 FUEL TANK MODIFICATION-TO PREVENT FOAMING
NO SCALE
CUSHION TAPE
1/4"Δ -IN ALL CORNERS
AXIFLO CRADLE MOUNTS ARE THREE LAYERS OF FOAMBOARD, EPOXIED TOGETHER. FUEL PROOF WITH 50% ALIPHATIC RESIN & 50% WATER MIXTURE. USE DOUBLE SIDED SCOTCH BRAND TAPE IN CRADLE AND WRAP THREE TURNS OF SCOTCH BRAND SHIPPING AROUND AXIFLO, CRADLE, AND THE INSIDE STRESS PADS.
HALLCO B-105-4 LANDING GEAR
SILVER SOLDER
HEAT TO BEND
4-40 THREADED ROD 1 1/8" LONG
DRILL OUT WHEEL HUBS TO FIT SHOULDERS OF BLIND NUTS
4-40 BLIND NUTS-REMOVE SPIKES AND FILE FLANGES SMOOTH
USE EPOXY OR LOCTITE
ENGINE MOUNT ASSEMBLY INSTALLS IN PLACE OF .AXIFLO UNIT WITH PROP & ENGINE OUT IN FRONT OF INTAKE
1/4" SQ.-THROTTLE ROD SUPPORT
USE SULLIVAN SO-6 (6 OUNCE) FUEL TANK. SECURE WITH RUBBER BANDS.
5/16" SQ. HARDWOOD ENGINE MOUNTING RAILS (SPACING & DRILLING SHOWN IS FOR K&B 3.5 CC ENGINE).
FUEL PROOF ENTIRE ENGINE MOUNT ASSEMBLY.
5/16" SQ. BASSWOOD RAILS
1/8" PLYWOOD
4-40 BLIND NUTS
ENGINE MOUNT ASSEMBLY for PROPELLER INSTALLATION
1/4"Δ
3/16" X 3/4"-TRAILING EDGE STOCK
MAIN PLANE-ONE PIECE OF FOAMBOARD
MOUNT ELEVONS WITH CURVED SIDE DOWN
GLUE:
FOAMBOARD TO FOAMBOARD
WOOD TO FOAMBOARD
USE WILHOLD RC-56 OR ALIPHATIC RESIN (FAST TAK, SIG-BOND, TITEBOND, ETC.)
WOOD TO WOOD
USE CYANOACRYLATE (FAST BOND, ZAP, HOT STUFF, ETC.)
3/16" DIA. BIRCH DOWEL
MOUNT FOREFLAP CURVED SIDE UP
3/16" DIA. BIRCH DOWEL
1/2" TRAILING EDGE STOCK
FORE PLANE-ONE PIECE OF FOAMBOARD
PAINT AIRCRAFT WITH POLYURETHANE OR FINISH WITH LOW TEMPERATURE IRON-ON FILM TYPE. COVERING (SOLARFILM, ECONOKOTE, SUPERKOTE, ETC.)
TAPE ALL DOWELED LEADING EDGES AND OPEN FOAMBOARD EDGES WITH 3/4" WIDE BROWN PAPER PREGUMMED PACKAGE TAPE. 3/4" WIDE MASKING TAPE MAY ALSO BE USED.
AFTER PAINTING OR COVERING AIRCRAFT, ATTACH CONTROL SURFACES WITH SCOTCH BRAND "PATCH & REPAIR" TAPE. APPLY TAPE IN A CONTINUOUS STRIP ALONG HINGE LINE, TOP AND BOTTOM, THE SAME AS "MONOKOTE" STYLE HINGES.
3/16" SHEET
3/16" SHEET
RETAINING PAD-8 LAMINATIONS OF 1/64" PLYWOOD
FOAMBOARD
1/4"Δ
1/4"Δ
DUBRO CONTROL HORN
DUBRO "V" TAIL MIXER-TRIM CROSS SHAFT BEARINGS IN TO 1/8" WIDE
WHEEL COLLAR-THROTTLE CONNECTOR
.010 ABS PLASTIC
FOLD ON DASHED LINES
ENGINE COVER OUTLINE
BATTERY PACK
FOAMBOARD
STEERING ARM
RECEIVER
1/8" SHEET
FOAMBOARD BULKHEADS WITH 1/64" PLYWOOD DOUBLERS-BOTH SIDES
SERVO TAPE CUSHION
NYROD
THIS ENTIRE AREA MUST BE FUEL PROOFED (SIDES, EDGES, FLOOR AND ELEVONS). MIX 50% ALIPHATIC RESIN & 50% WATER AND BRUSH ON. LET DRY, PAINT WITH POLYURETHANE.
FUEL PROOF MOUNTING HOLES WITH EPOXY.
1/4"Δ
1/4"Δ
1/4"Δ
FASTEN WITH SCOTCH TAPE
SUPPORT BRIDGE-3 LAMINATIONS OF 1/64" PLYWOOD
MIDWEST 6" CONTROL HORN
1/8" ID WHEEL COLLARS
B
A
AILERON SERVO
ELEV. SERVO
THROT. SERVO
RECEIVER
C
1/8" SHEET
CG
ELEVATOR SERVO NEUTRAL SET 3/8" DOWN-FULL DEFLECTION UP=1 1/8" FULL DEFLECTION DOWN=1 3/8"
.010 ABS PLASTIC COVER-FASTEN WITH SCOTCH TAPE
TUNED PIPE IP 204 OR 503 SET AT 8" EXHAUST PORT TO WELD
3/16" X 3/4"-TRAILING EDGE STOCK-FLAT SIDE OUT ON BOTH FINS
TAP HERE FOR FUEL TANK PRESSURE FITTING
9/32" O.D. X 12" LONG ALUMINUM TUBING
FOAMBOARD
450 MAH BATTERY PACK
A1
C1
AXIFLO INTAKE AND EXIT FAIRING CAN BE CARVED FROM BALSA OR STYROFOAM
K&B
PIPE SUPPORT-MAKE FROM .030 ALUMINUM
NYROD
ELEVATOR & AILERON SERVO NEUTRAL SET 1/8" DOWN-FULL DEFLECTION UP=3/4" FULL DEFLECTION DOWN=1"
VACUFORMED .030 ABS PLASTIC COVERS
HARDWOOD PEG
RUBBER BAND
ABS PLASTIC HOOK-GLUE TO COVER
NYLON NOSE WHEEL BEARING
SERVOS ARE MOUNTED WITH 1/8" SERVO TAPE-POSITION AND SPACING IS DEPENDENT UPON SIZE OF SERVO
1/8" SERVO TAPE-EPOXIED ONTO 1/4" FOAM RUBBER
FOAMBOARD SIDES
1/4"Δ
3/16" DIA. BIRCH DOWEL
1/8" MUSIC WIRE
STRESS PADS-5 LAMINATIONS OF 1/64" PLYWOOD
4-40 X 3/4" SCREWS & BLIND NUTS
HALLCO LANDING GEAR (NO. B-105-4)
FOAMBOARD
1/16" PLYWOOD-SUPPORT PLATE
GOLDBERG NYLON TIP SKIDS-EPOXY IN PLACE
AXIFLO RK-20 WITH K&B 3.5 CC ENGINE AND MAC'S HEADER 235 1 HPS 25
WILLIAMS BROTHERS (NO. 139) 1 1/2" WHEEL
2" KRAFT STREAMLINE WHEELS
NOTES.
1. ALL WOOD IS BALSA UNLESS NOTED OTHERWISE.
2. ALL FOAMBOARD IS 3/16" THICK.
STAR COBRA
3 VIEW
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STAR COBRA
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