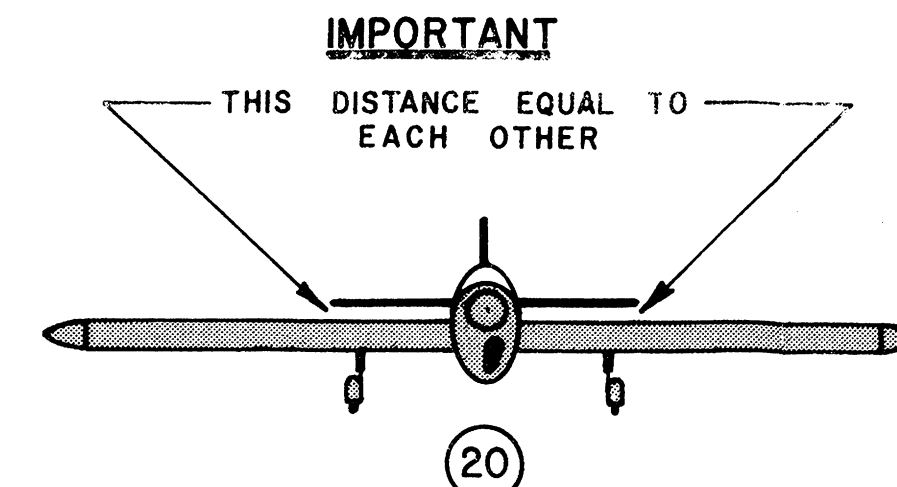
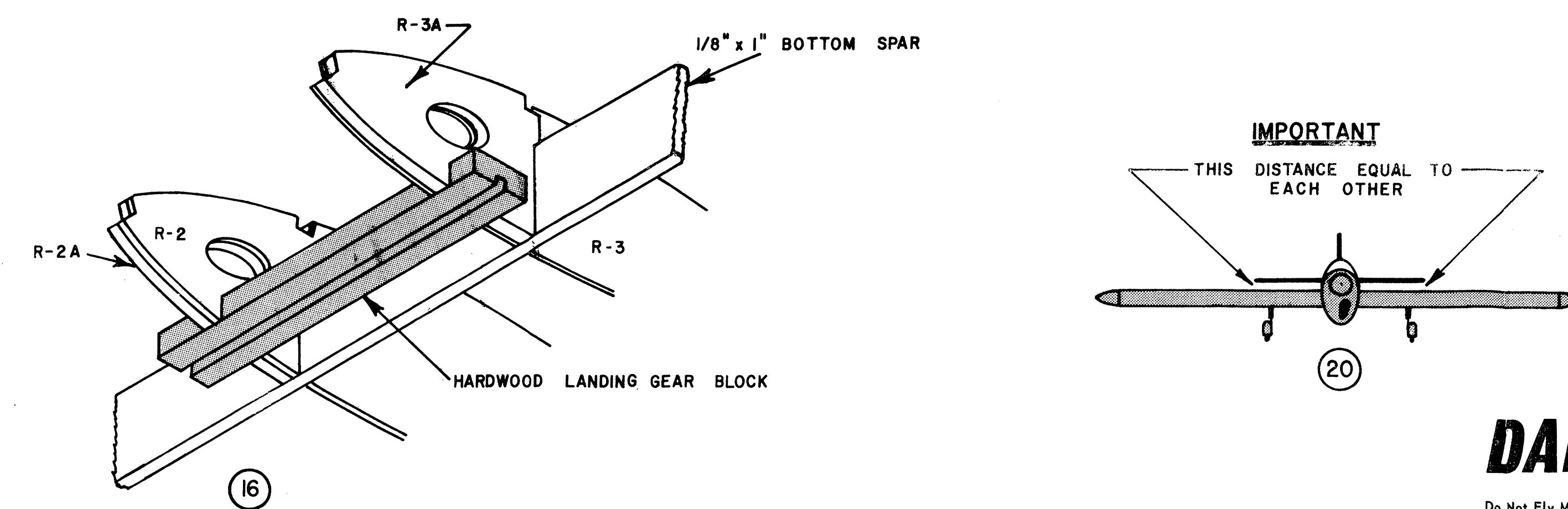
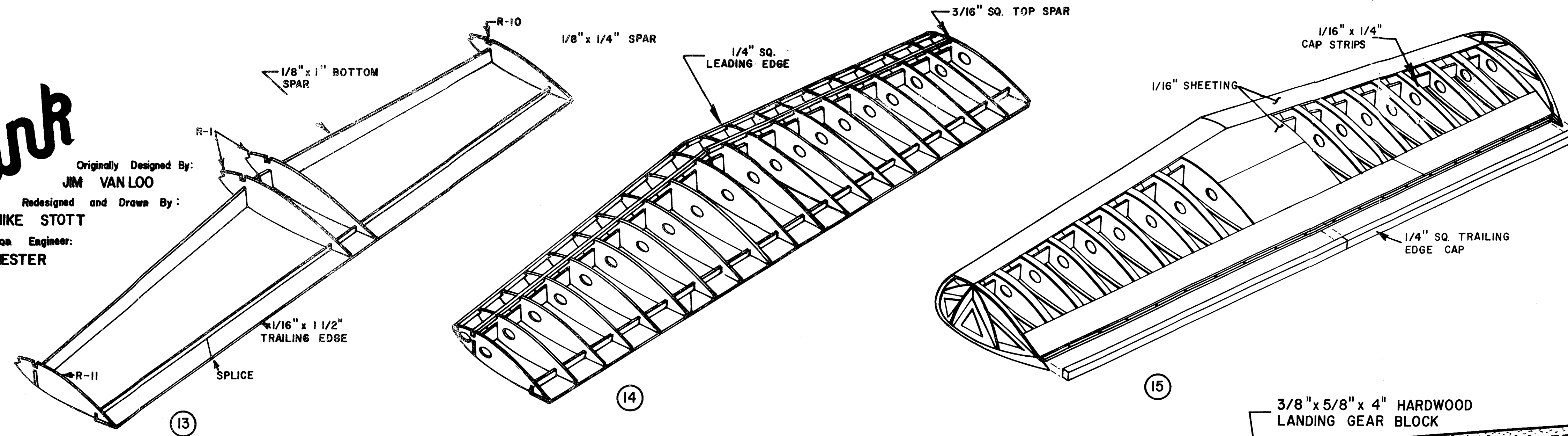


DANGER!
Do Not Fly Model Airplanes Near Power Lines. Contact of a Control Line Model Plane on Steel Lines With Electric Power or Light Lines Can Result in Instant Death!
SIG MFG. CO., INC. . . . Montezuma, Ia.

Chipmunk
Originally Designed By:
JIM VAN LOO
Redesigned and Drawn By:
MIKE STOTT
Production Engineer:
MAXEY HESTER

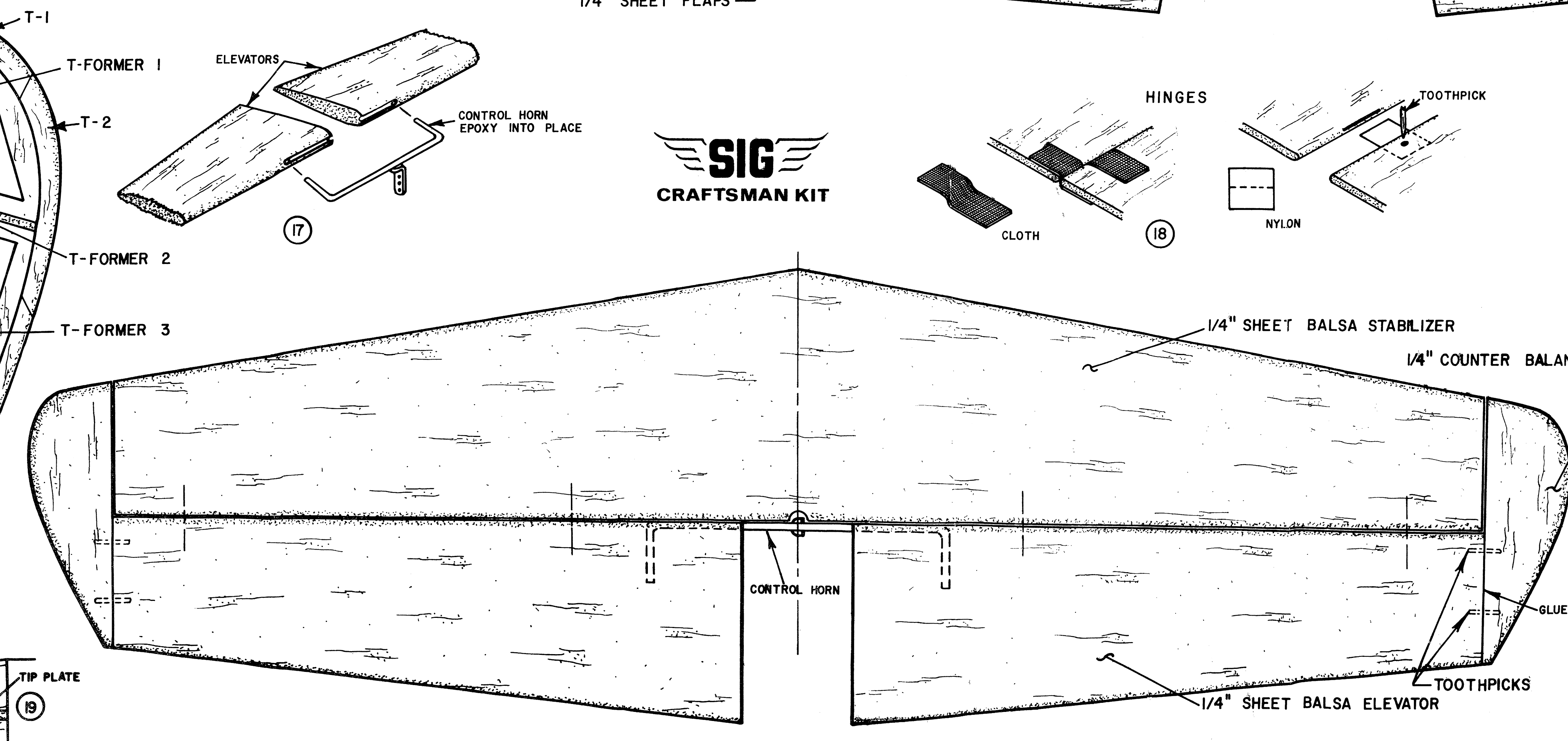
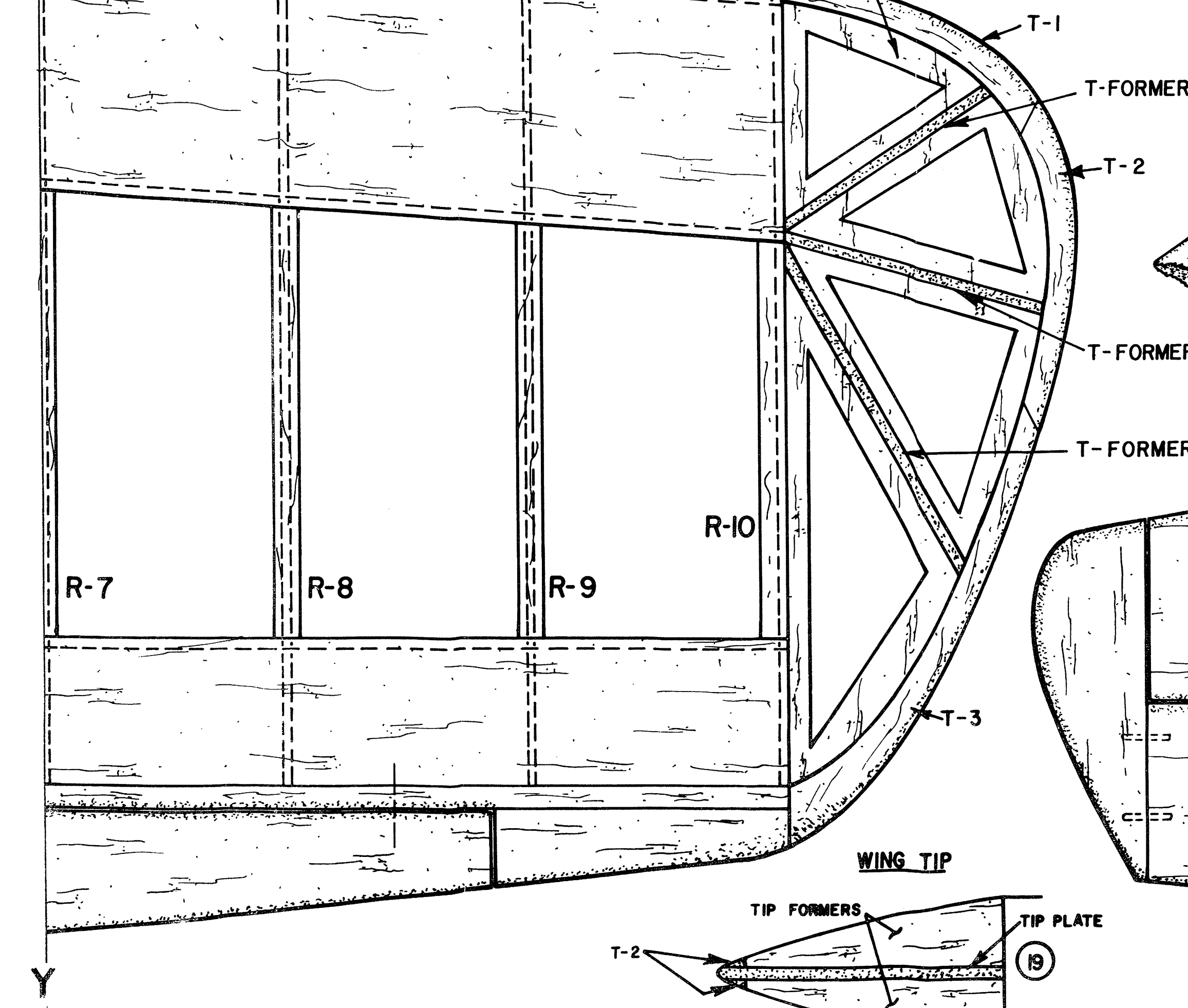
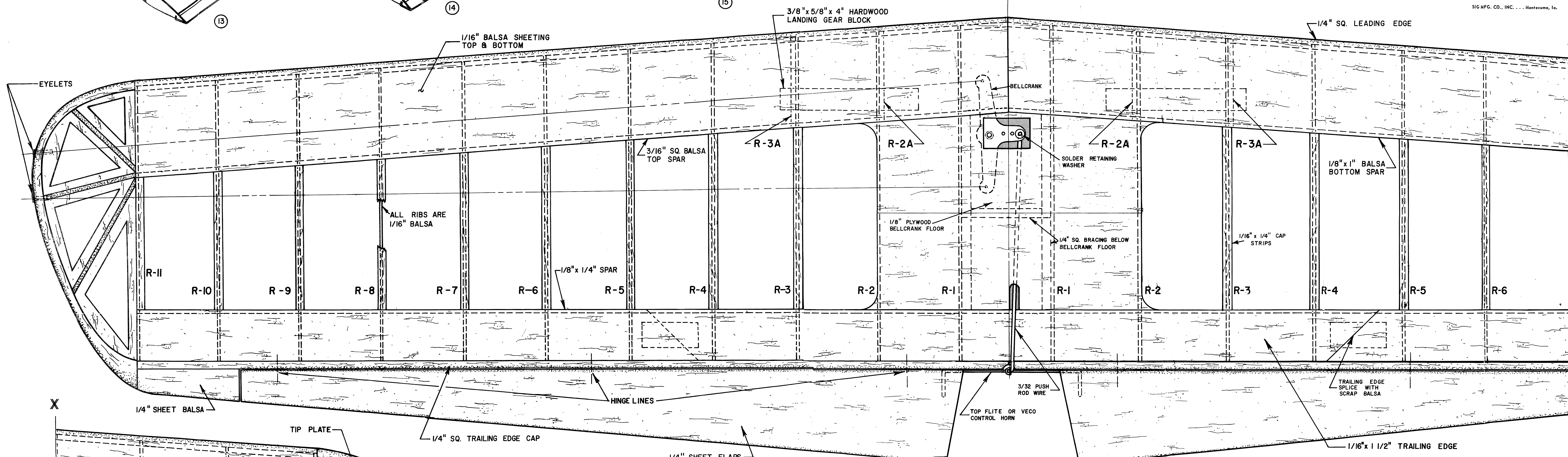


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- Using SigMent, cement the 1/16" plywood doublers to the 1/8" fuselage ribs on one side of the fuselage. Use the same glue for the hardwood motor mounts to the 1/16" plywood doublers. Sig epoxy work best for this or SigMent. See sketch #1 and #2.
- Use 1/4" square sticks from the 3/16" stock provided and glue to the back of the fuselage sheet as shown on the plan. (SigMent or SigBond is recommended for this work. See sketch #3 and #4.)
- Lay fuselage sides over plans and mark where R-1 through R-6 go on the fuselage sides.
- Use R-1 and R-2 to place on one fuselage side and glue into place. Again using Sig Epoxy (use epoxy wherever there is going to be much stress). After the glue has dried, glue the other fuselage side to R-1 and R-2, making certain the fuselage is square and properly aligned. Pull the tail ends of the fuselage together and glue, holding with rubber bands or clamps until the glue is dry.
- Take R-3A, R-3B, R-4, R-5 and R-6 and slide them into place and glue, using SigMent or SigBond. At this time glue in the 3/8" x 1/8" x 1/2" motor blocks, as well as the plywood tail wheel support.
- After the glue on the bulkheads has dried, sand the top of the fuselage perfectly flat, getting rid of any high spots.
- Drill the hardwood engine mounts for the engine you are going to use and install the pins and nuts. Be sure you do not get any glue in the threads. Glue the 1/16" plywood rings together. Mount the engine temporarily and glue the plywood cover ring to the balsa nose blocks, making sure that the prop shaft is in the center of the ring.
- Remove engine and permanently mount tank to the hardwood motor mounts behind #1.
- Tack glue on the fuselage top block and permanently glue on the 3/16" and 1/4" sheet balsa bottom. After these have dried, set the engine cooling in place and mark around it so you will know where to sand to.
- Shim fuselage down to seat it down on the plans. See sections R-1 and R-2. Hinge right half of fuselage sections as before shaping and insert tail since you the fuselage should look after shaping. Do not be afraid to shape fuselage into the 1/8" square struts as this is the reason they are there.
- Take off the top block and hollow out as shown on the plan. A good tool for this is an electric router bit used in one of the large plastic handles. One of the most important things in making a good cunner is keeping it light, so hollow out all the top cap.
- Set fuselage aside until final assembly.
- Mark 1/8" x 1" bottom spar where ribs go by laying it over the plans. Then place the 1/8" x 1/4" spars where ribs go, sanding between each spar together. Do not glue ribs on at this time. See sketch #13.
- Place the rest of the ribs in the proper places. Glue the 1/8" square leading edge to the fuselage with SigMent. Use SigMent on the outer edge and glue into leading edge. If you have a good job of preparing the surface, one or two coats of clear will be sufficient. If you have a poor job, use three coats of clear without thinning it properly. Don't add too many coats of clear because it adds weight rapidly. Apply the clear in a light coat. If you have a poor job of preparing the surface, one or two coats of clear after the trim coats are dry. After the last coat is dry, apply a heavy coat of clear over the entire plane and job is finished. The last coat of clear is necessary against the coat of clear softening the trim wire and causing them to "bleed".
- Brush or spray on one coat of clear dope, then brush or spray on your color. If you have done a good job of preparing the surface, one or two coats of color will be sufficient. If you have a poor job, use three coats of color without thinning it properly. Don't add too many coats of color because it adds weight rapidly. Apply the clear in a light coat. If you have a poor job of preparing the surface, one or two coats of clear after the trim coats are dry. After the last coat is dry, apply a heavy coat of clear over the entire plane and job is finished. The last coat of clear is necessary against the coat of clear softening the trim wire and causing them to "bleed".
- Install landing gear by drilling a 1/8" hole in the hardwood landing gear blocks as indicated. Drill this at an angle as shown on the plan. Insert the landing gear in the groove. Place the retaining strips over the 1/8" hole and secure with screws.
- Use 12 wood screws to hold the engine cooling in place. See sketch #7 on the plan.