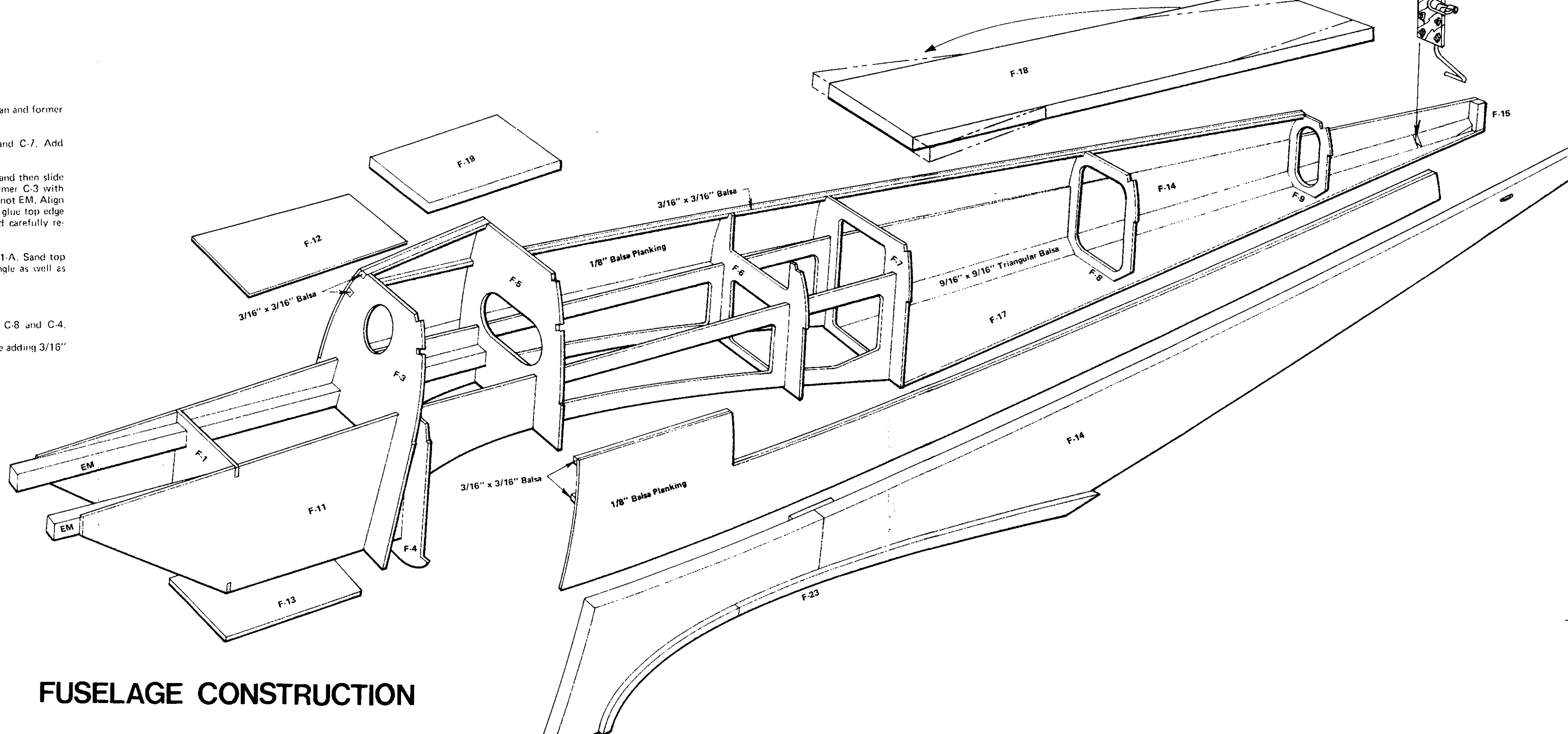


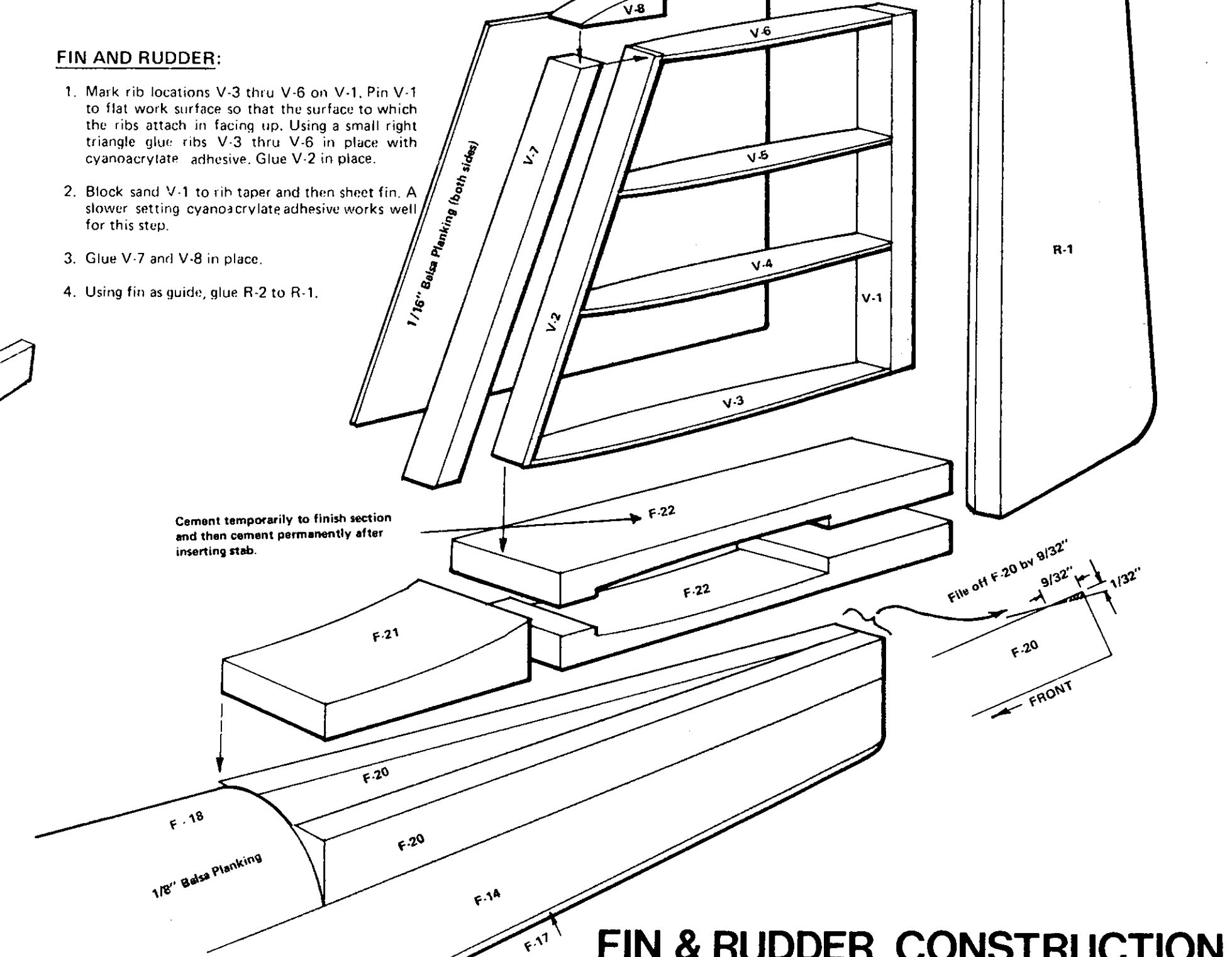
- Cockpit Assembly**
1. Glue C-5 side panels to C-6 stringer and former C-3 for location. Glue C-7 in place.
  2. Glue C-2 on back face of C-5 and C-7. Add straight stock from front to C-7.
  3. Slide C-1A onto rear of fuselage and then slide cockpit assembly in place. Align former C-3 with EM and glue to cockpit framework - seat EM. Align C-1A using plan for reference and glue top edge of C-1A to C-6. Allow to dry and carefully re-mount cockpit assembly.
  4. Add stringers between C-2 and C-1A. Sand top surfaces to closely match C-6 shape as well as side contour.
  5. Glue C-1B onto lower C-1A.
  6. Sand cover sides and then add C-8 and C-4.
  7. Rough sand cockpit assembly before adding 3/16" balsa floor plating.



**FUSELAGE CONSTRUCTION**

NOTE: THE STRAKE NOSE SECTION IS DESIGNED AS A REMOVABLE UNIT THAT IS INDEPENDENT OF THE MAIN FUSELAGE STRUCTURE.

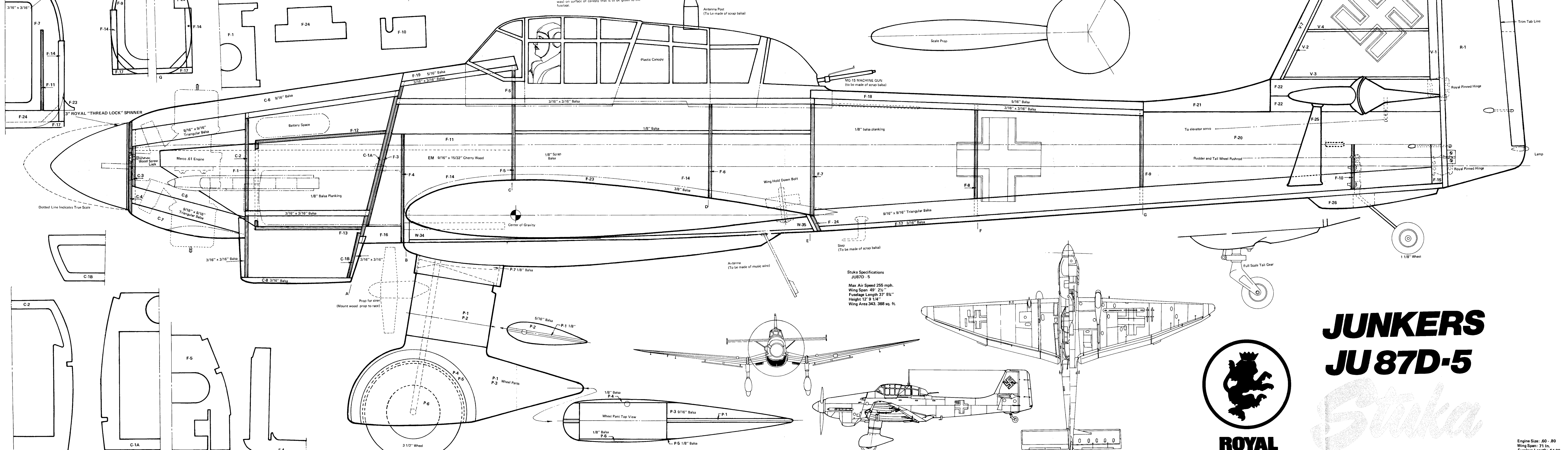
Note:  
For greater clarity and the removal of minor imperfections, the Strake window may be waxed with an automotive type dental wax. Put several applications, both inside and out, allowing 24 hours drying time between applications. Be sure to clear area (remove wax) on surface of canopy that is to be glued to the fuselage.



**FIN & RUDDER CONSTRUCTION**

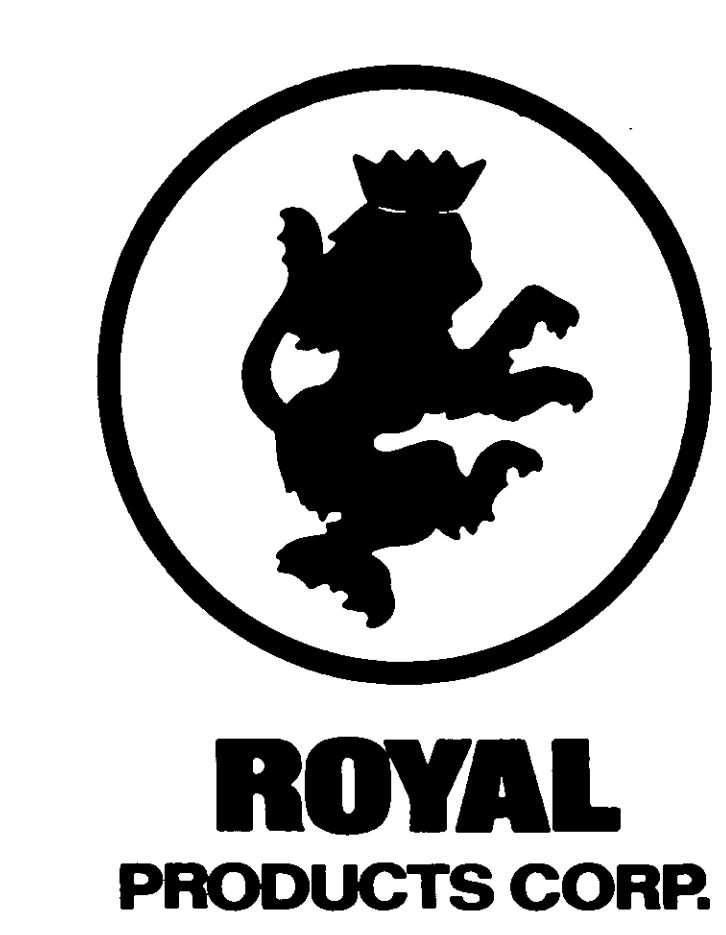
- FIN AND RUDDER:**
1. Mark rib locations V-3 thru V-6 on V-1. Pin V-1 to the work surface so that the ribs will be able to attach in facing up. Using a small right triangle glue ribs V-3 thru V-6 in place with cyanoacrylate adhesive. Glue V-2 in place.
  2. Block and V-1 to rib taper and then sheet fin. A shaver setting cyanoacrylate adhesive works well for this step.
  3. Glue V-7 and V-8 in place.
  4. Using fin as guide, glue R-2 to R-1.

Glue temporarily to high section and then cement permanently after sanding ribs.



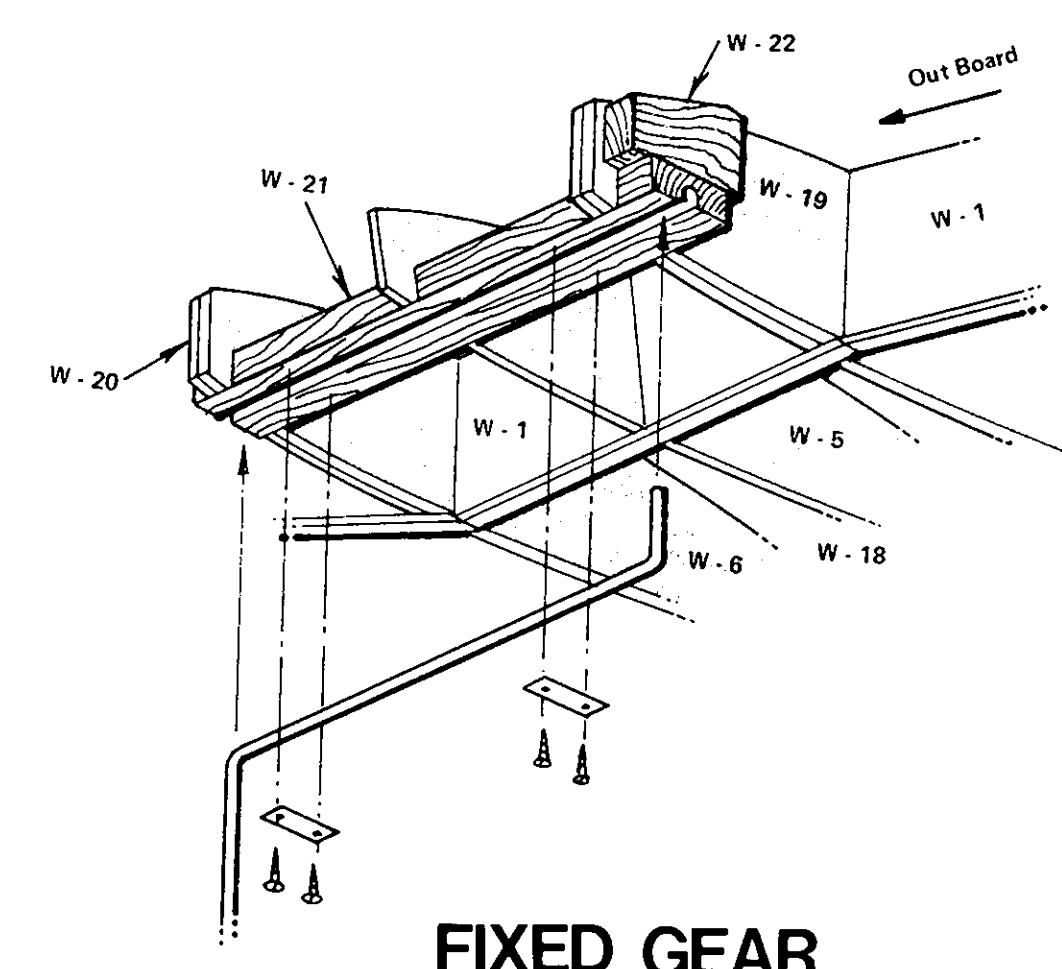
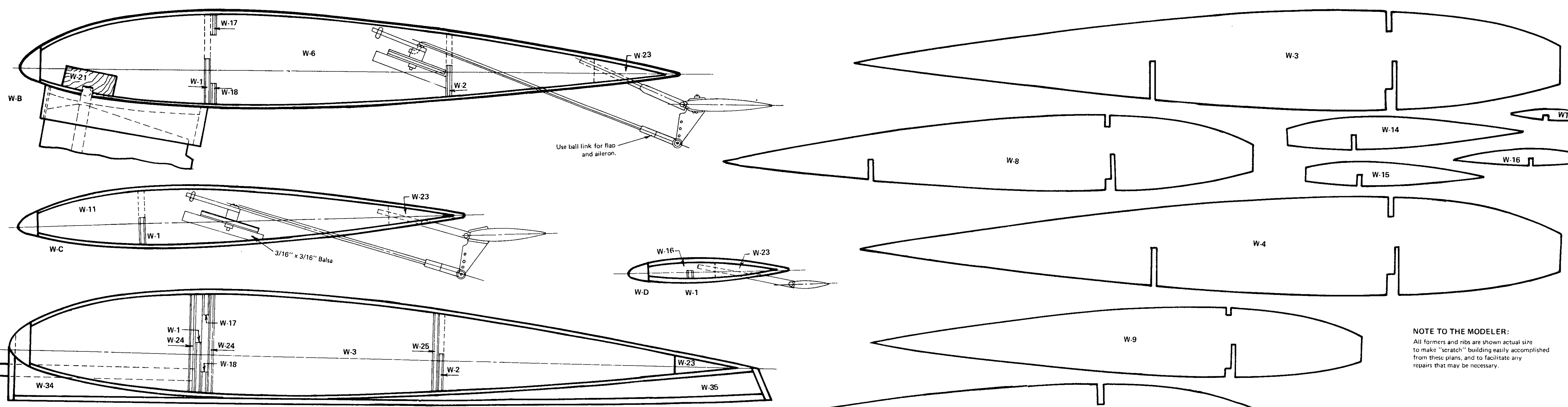
**Stuka Specifications**  
JUB7D-5  
Max Air Speed 295 mph.  
Wing Span 49" 23/32"  
Fuselage Length 37" 8/16"  
Height 12" 9/16"  
Wing Area 343.388 sq. ft.

**NOTE TO THE "SCRATCH" BUILDER:**  
Marked canopies, wheels, color and scale information, spare aluminum parts (where applicable) are all included.

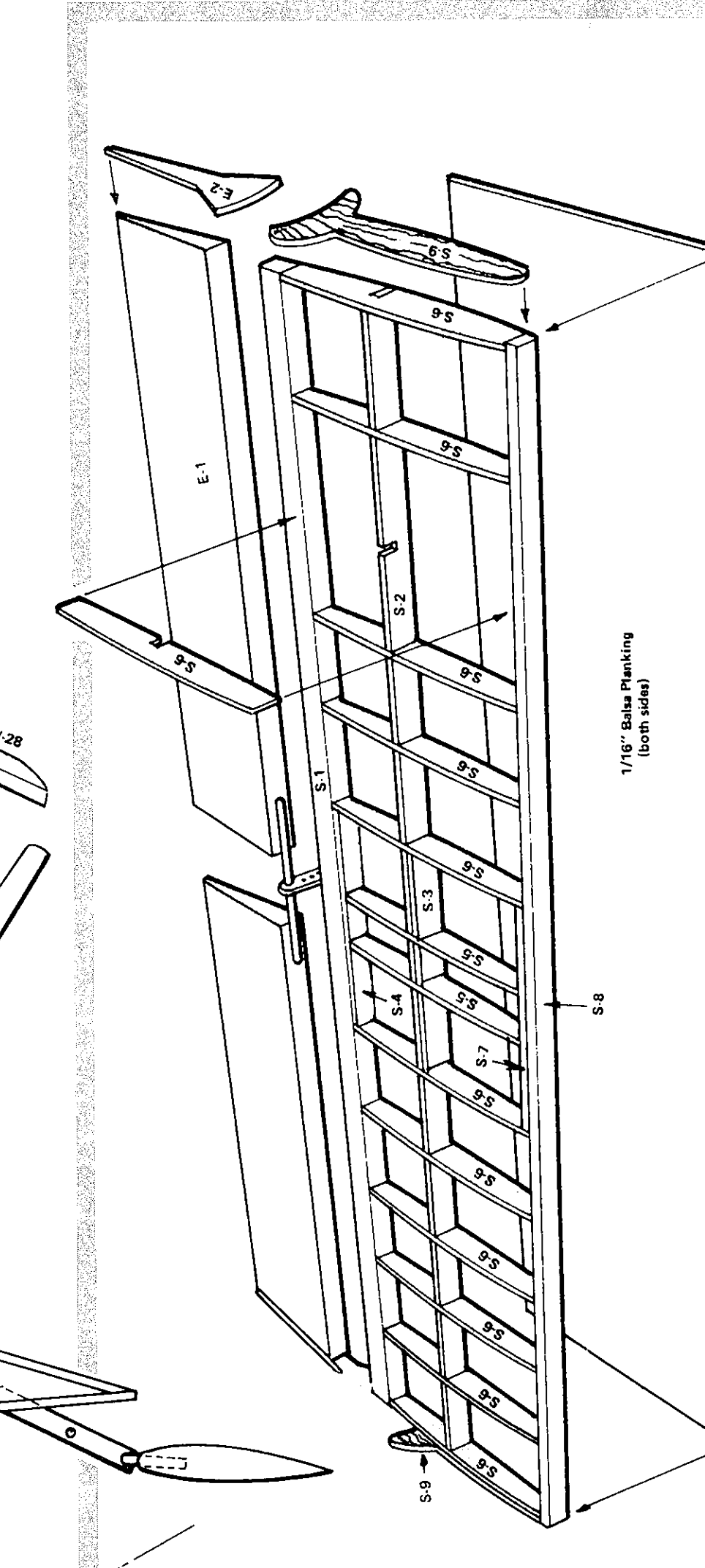
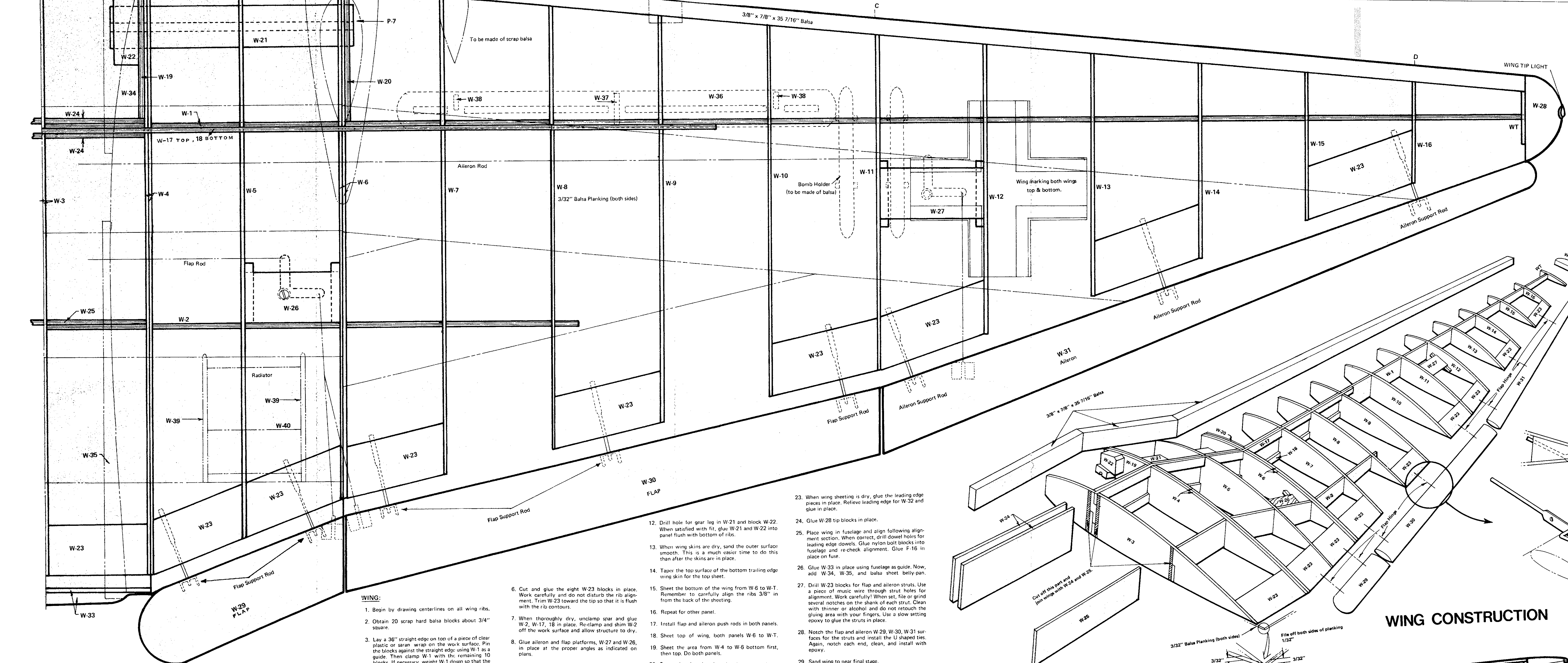
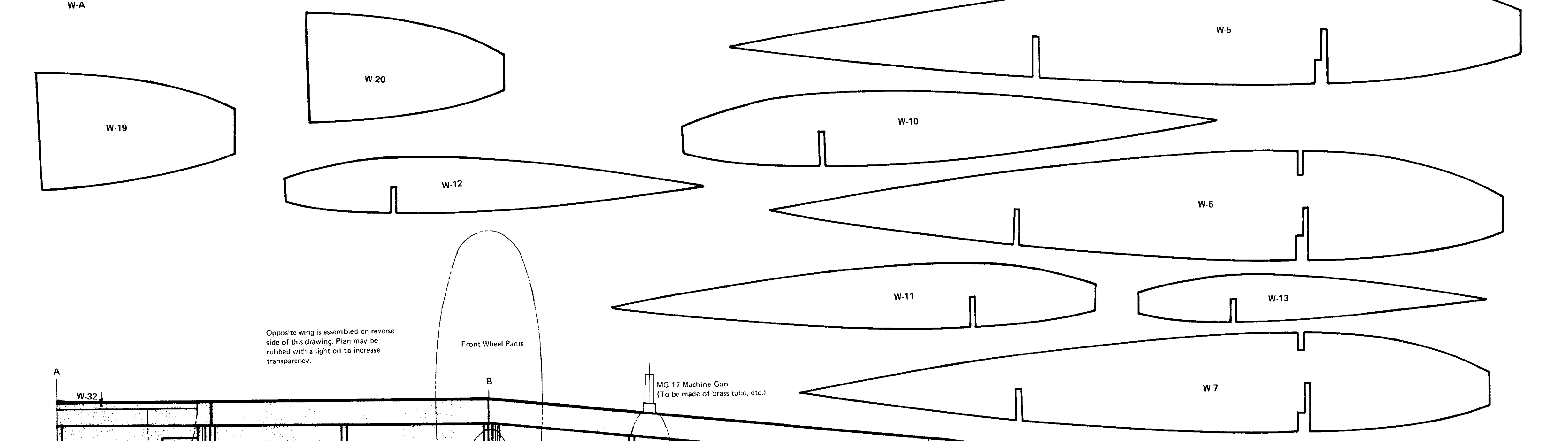
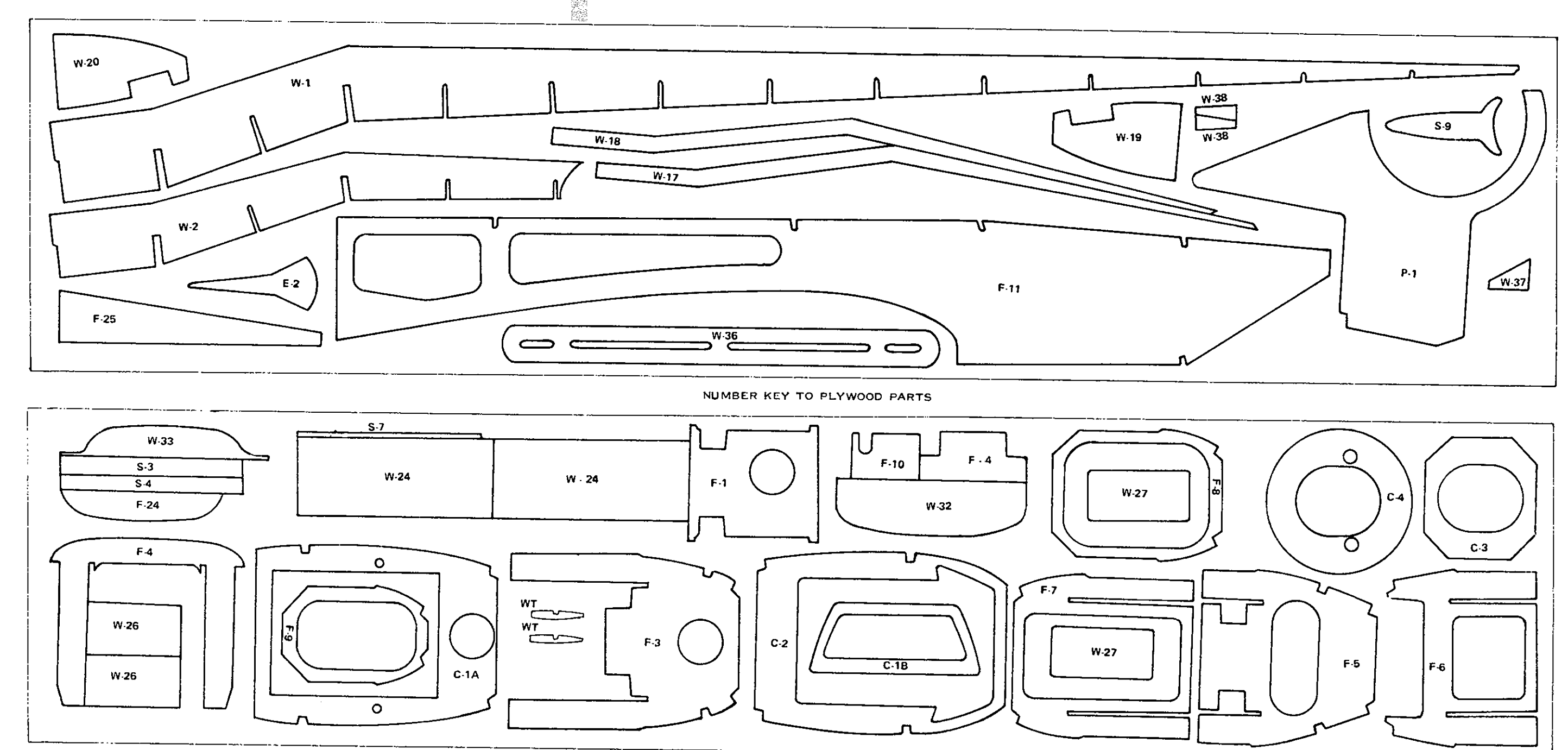


**JUNKERS**  
**JU 87D-5**  
*Stuka*

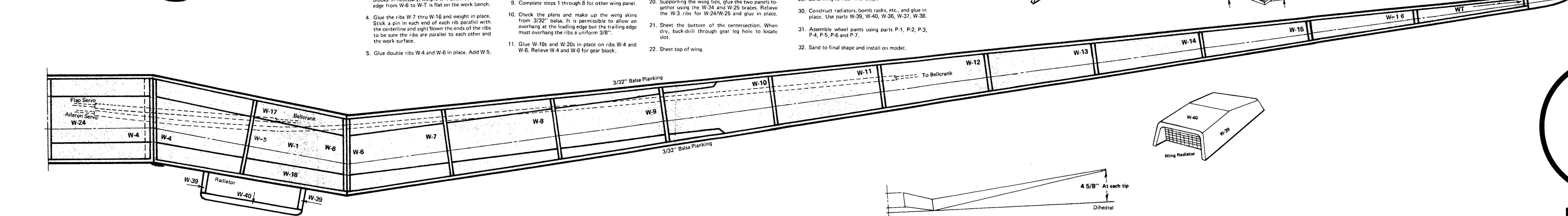
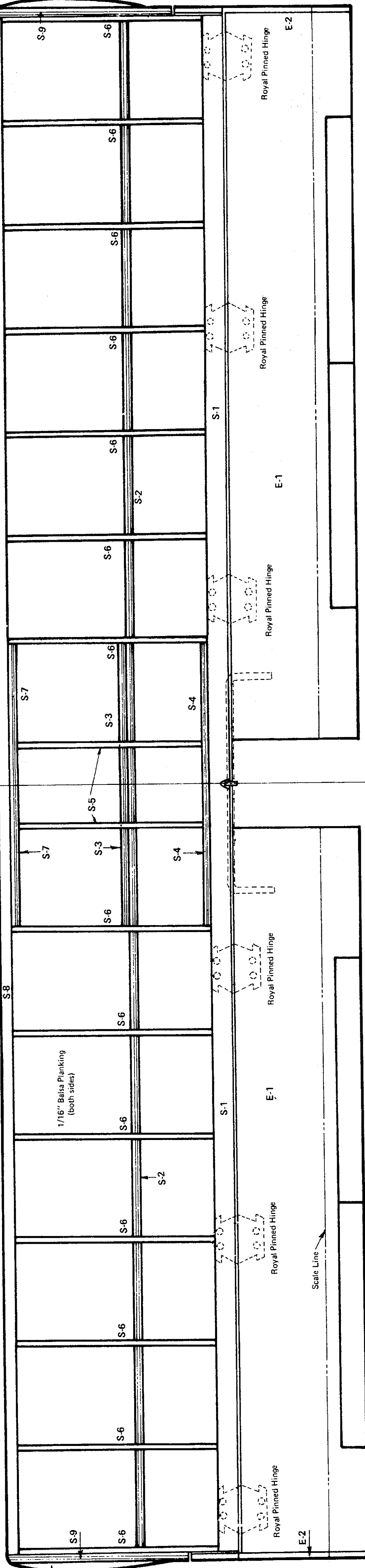
Engine Size: 60 - 80  
Wing Span: 73 in.  
Fuselage Length: 54.20  
Wing Area: 670 Sq. In.  
Scale Ratio: 1/72 (1" = 1")



**NOTE TO THE MODELER:**  
All formers and ribs are shown actual size to make "scratch" building easily accomplished from these plans, and to facilitate any repairs that may be necessary.

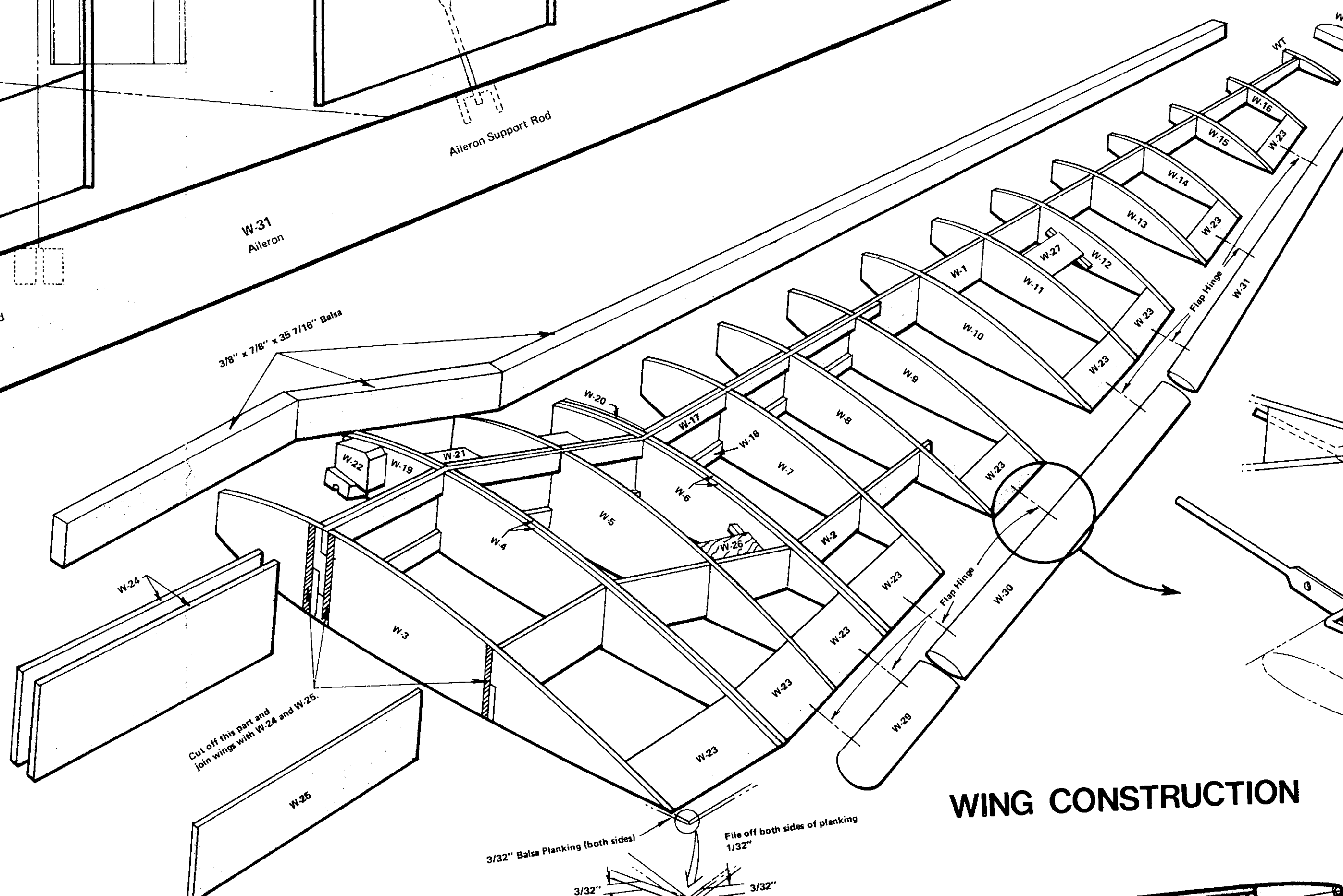


**HORIZONTAL STABILIZER CONSTRUCTION**



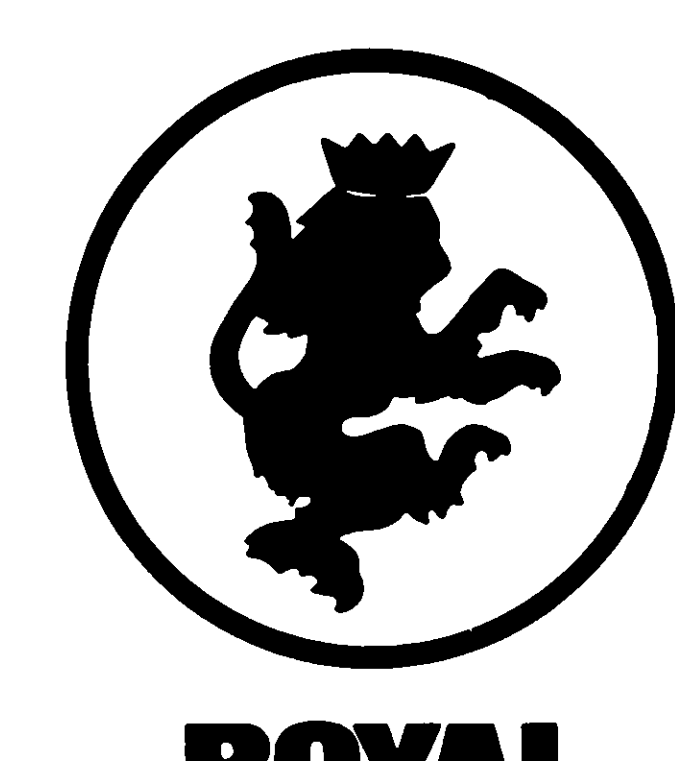
**WING:**

1. Begin by drawing centerlines on all wing ribs.
2. Obtain 20 scrap hard balsa blocks about 3/4" square.
3. Lay a 36" straight edge on top of a piece of clear plastic or glass, rest on the work surface. Pin the blocks against the straight edge using #17 1/2" pins. Then clamp W-1 with the remaining 10 blocks. If necessary, weigh W-1 down on the table edge from W-6 to W-7. It flat on the work bench.
4. Glue the ribs W-7 thru W-10 and weight in place. Stick a pin in each end of each rib parallel with the centerline and sight down the ends of the ribs to be sure the ribs are parallel to each other and the work surface.
5. Glue double ribs W-4 and W-6 in place. Add W-5.
6. Cut and glue the eight W-23 blocks in place. Work carefully and do not disturb the rib alignment. Trim W-23 toward the tip so that it is flush with the rib contours.
7. When thoroughly dry, unclamp spar and glue the plastic against the straight edge using #17 1/2" pins. Then clamp W-1 with the remaining 10 blocks. If necessary, weigh W-1 down on the table edge from W-6 to W-7. It flat on the work bench.
8. Glue aileron and flap formers, W-27 and W-26, in place at the proper angles as indicated on plans.
9. Complete steps 1 through 8 for other wing panel.
10. Check the plans and make up the wing skins from 3/32" balsa. It is permissible to allow an overhang at the leading edge but the trailing edge must overhang the ribs a uniform 3/8".
11. Glue W-19 and W-20 in place on ribs W-4 and W-6. Retrive W-4 and W-6 for gear block.
12. Sheet top of wing.
13. Drill hole for gear leg in W-21 and block W-22. When satisfied with fit, glue W-21 and W-22 into panel flush with bottom of ribs.
14. When wing skins are dry, sand the outer surface smooth. This is a much easier time to do this than after the skins are in place.
15. Tape the top surface of the bottom trailing edge wing skin for the top sheet.
16. Glue W-23 in place using fuselage as guide. Now, add W-34, W-35, and balsa sheet belly pan.
17. Drill W-23 blocks for flap and aileron struts. Use a piece of music wire through steel holes for alignment. Work carefully! When set, file or grind several notches on the skins of each strut. Clean with thinner or alcohol and do not touch the gluing area with your fingers. Use a slow setting epoxy to glue the struts in place.
18. Notch the flap and aileron W-29, W-30, W-31 surfaces for the struts and install the U shaped tie. Again, notch each end, clean, and install with epoxy.
19. Sand wing to near final shape.
20. Construct radiator, bomb racks, etc., and glue in place. Use parts W-39, W-40, W-36, W-37, W-38.
21. Assemble wheel pants using parts P-1, P-2, P-3, P-4, P-5, P-6 and P-7.
22. Sand to final shape and install on model.



**WING CONSTRUCTION**

- STABILIZER AND ELEVATOR:**
1. Draw centerlines on all S-1, S-2, S-3, S-4, S-5, S-6, S-7, S-8, S-9 ribs. Now S-5 for ribs.
  2. Obtain 20 scrap hard balsa blocks about 3/4" square.
  3. Lay a 36" straight edge on top of a piece of clear plastic or glass, rest on the work surface. Pin the blocks against the straight edge using #17 1/2" pins. Then clamp S-1 with the remaining 10 blocks. If necessary, weigh S-1 down on the table edge from S-6 to S-7. It flat on the work bench.
  4. Glue the ribs S-2 thru S-5 and weight in place. Stick a pin in each end of each rib parallel with the centerline and sight down the ends of the ribs to be sure the ribs are parallel to each other and the work surface.
  5. Glue double ribs S-4 and S-6 in place. Add S-5.
  6. When thoroughly dry, unclamp spar and glue the plastic against the straight edge using #17 1/2" pins. Then clamp S-1 with the remaining 10 blocks. If necessary, weigh S-1 down on the table edge from S-6 to S-7. It flat on the work bench.
  7. When thoroughly dry, unclamp spar and glue the plastic against the straight edge using #17 1/2" pins. Then clamp S-1 with the remaining 10 blocks. If necessary, weigh S-1 down on the table edge from S-6 to S-7. It flat on the work bench.
  8. Glue the ribs S-2 thru S-5 and weight in place. Stick a pin in each end of each rib parallel with the centerline and sight down the ends of the ribs to be sure the ribs are parallel to each other and the work surface.
  9. Glue double ribs S-4 and S-6 in place. Add S-5.
  10. When thoroughly dry, unclamp spar and glue the plastic against the straight edge using #17 1/2" pins. Then clamp S-1 with the remaining 10 blocks. If necessary, weigh S-1 down on the table edge from S-6 to S-7. It flat on the work bench.



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**ROYAL**