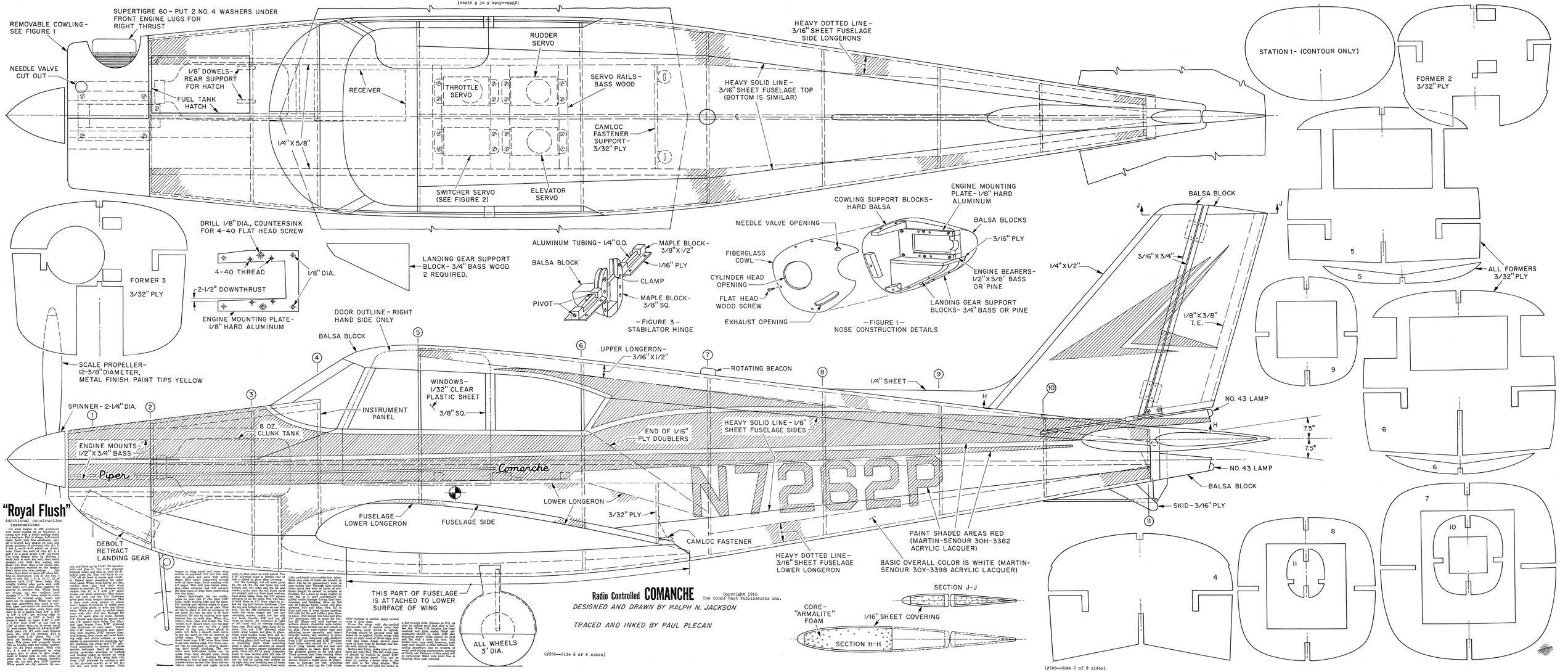
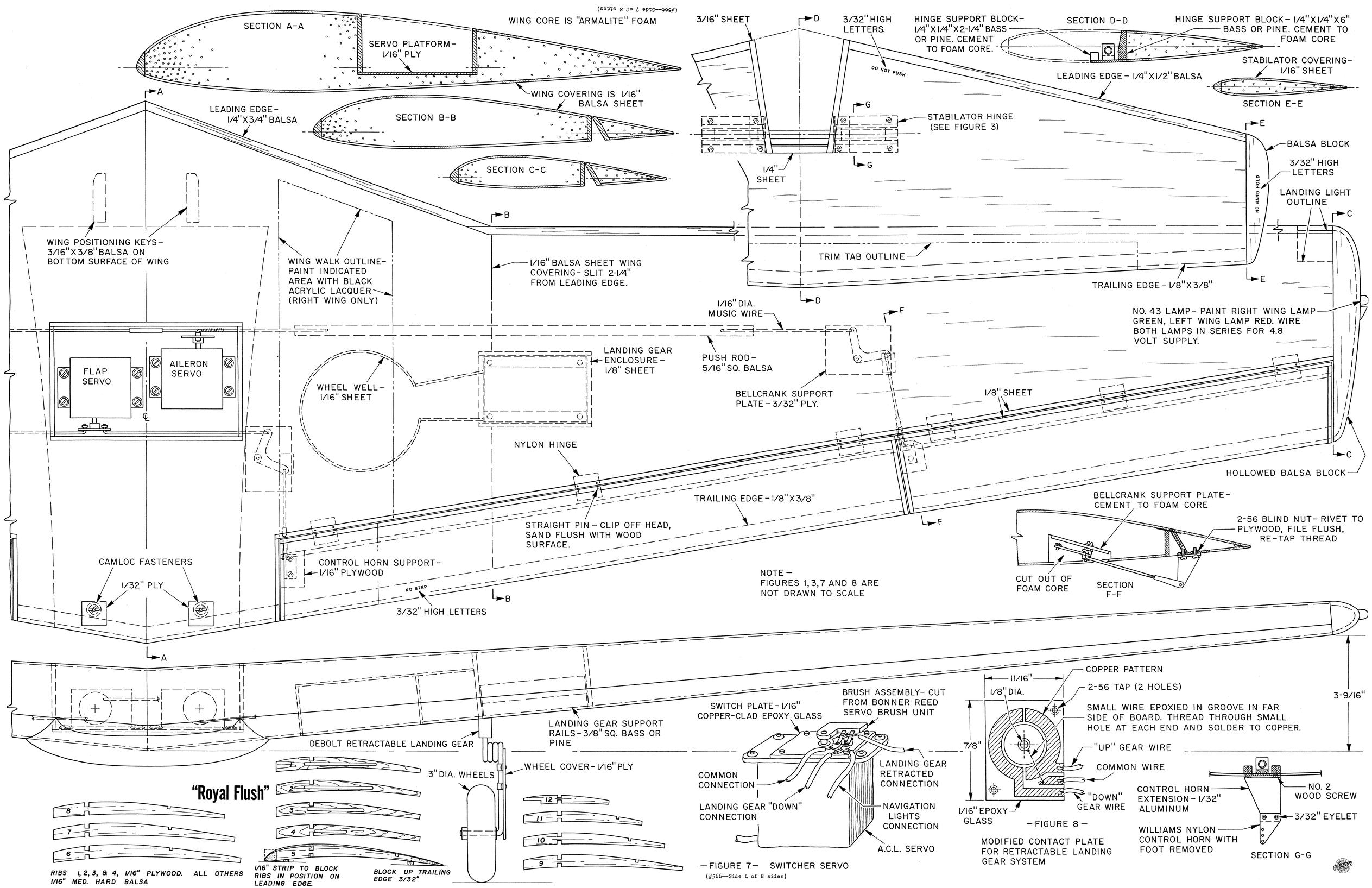


"Royal Flush"

Additional construction instructions

Our wing tongue of .096 aluminum is a flat strip 1/2" wide. Round the sharp edges with a sharp cutting blade or a hacksaw. File to shape, half round at the tip, and round the corners. Drill off if desired. Lay tongue on plan, and locate positions of plywood rib #1.5. Rib #1.5 is the first rib outboard of the main. Trace two ends of rib #1.5 on and on a good grade 1/16" plywood. Cut out the ribs, and drill a number of small holes at each dot and dash mark, straight, only with flat, cutting saw. Use a pin vise and a #60 drill, and drill to positions marked on the tongue. Don't force the twist position. — Use a small round file to remove burrs, and lightly sand an aluminum. Cut #2 #3 ribs, 2 each of rib #3.5, 4 ea. #4.5, 2 ea. #5 and 2 ea. #5.5 ribs. Cut out the wing weights (trailing edge parts and, with wing tongue in position, fit a hardwood strip between ribs #3 and #3.5 to which the ribs are drilled, for the grain transverse. This makes the job easy and the 1/8" thickness of the wing weights is easily obtained. Cut out the plywood fin, used to locate, tape and notch rib locations. Fit the fin into the tongue, and tape it in place in top to inners from 3/4" x 3/4" pin, trailing edge to 1/2" x 1/4" pin, leading edge to 1/2" x 1/4" pin, and 1/2" x 1/4" pin, trailing edge to 1/2" x 1/4" from 3/32" or 1/8" sheet balsa. Cut out the wing panels from 1/4" sq. pine. Block rib #4 with 3/32" thick plate, rib #7 with two thinner plates, and rib #8 with 1/8" plate. Glue the 1/8" plywood rib #1 and 1/8" thick rib leading edge blocking in place. Cut out the 1/8" plywood rib on the leading edge for under member for rib #8 over member. With rib #1 in place, and the wing tongue in place, glue in place to give shape, the main wing panels in place, and the main wing panels in place. Glue rib #1 in place, and glue 1/16" plywood rib #2 and 1/8" sheet rib #3 in place. When panels are dry, remove tongue and block up to 2-3/8". Fit dihedral joints and glue in. Cut 1/16" plywood dihedral brace and glue in, then fit dihedral joints and glue in. Cut 1/16" sq. balsa to brace upper surfaces. Repeat same procedure for other wing panel. Cut out the 1/8" sq. balsa rudder from blue, and with wing tongue in position, fit it between wing panels, and glue in place. Cut out the rudder on grain transverse. This makes the job easy and the 1/8" thickness is easily obtained. Cut out the 1/8" sq. balsa for the elevator fin, used to locate, taper and notch rib locations. Fit the fin into the tongue, and tape it in place in top to inners from 3/4" x 3/4" pin, trailing edge to 1/2" x 1/4" pin, leading edge to 1/2" x 1/4" pin, and 1/2" x 1/4" from 3/32" or 1/8" sheet balsa. Cut out the elevator on grain transverse

(#566—Side 7 of 8 sides)