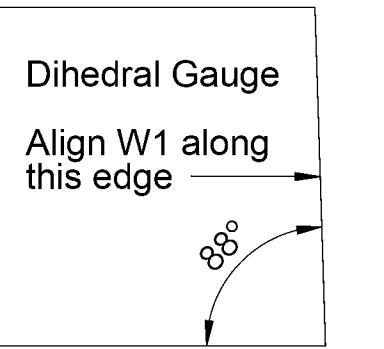
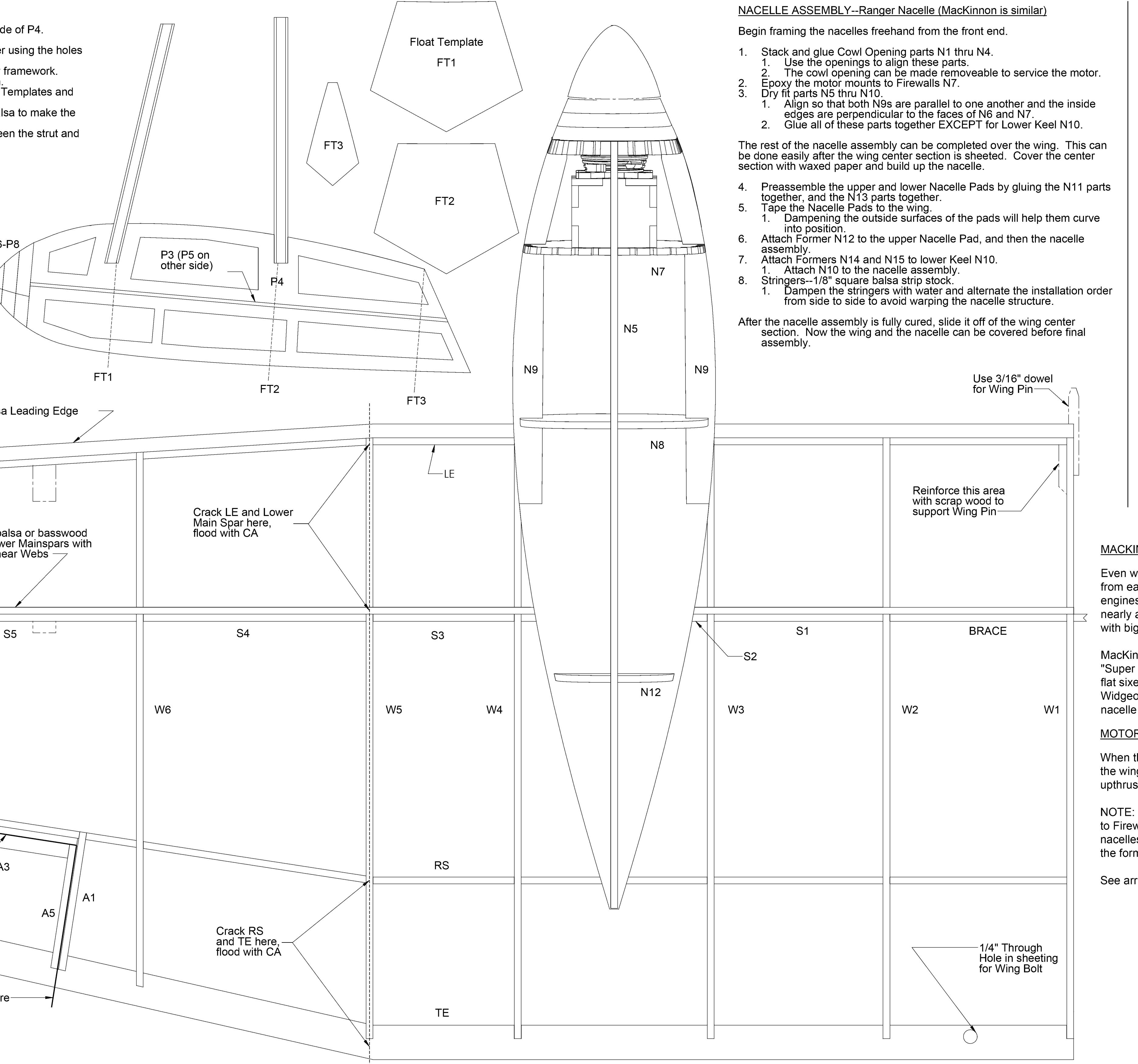


DIHEDRAL
The dihedral is set by installing center wing rib W1 at the angle provided by the Dihedral Gauge.
Completed wing assembly should be flat across the top from W10 to W10.



TIP FLOATS--ASSEMBLY ORDER
1. Ply Frame--glue a P3 perpendicular to one side of P4.
2. Float Nose Formers P6 thru P8--glue together using the holes to align these parts.
3. Glue this assembly to the front of the ply framework.
4. Fill the four quadrants with soft balsa or foam.
5. Sand the quadrants to shape using the Float Templates and the ply framework as guides.
6. Struts--use carbon fiber tube dressed with balsa to make the 1/8" x 1/4" struts.
7. Bracing Wires--use kevlar line to brace between the strut and the four pads in the wing.



NACELLE ASSEMBLY--Ranger Nacelle (MacKinnon is similar)

Begin framing the nacelles freehand from the front end.

1. Stack and glue Cowl Opening parts N1 thru N4.
2. Use the openings to align these parts.
3. The cowl opening can be made removable to service the motor.

2. Epoxy the motor mounts to Firewall N7.

3. Dry fit parts N5 thru N10.

1. Align so that both N9s are parallel to one another and the inside edges are perpendicular to the faces of N6 and N7.

2. Glue all of these parts together EXCEPT for Lower Keel N10.

The rest of the nacelle assembly can be completed over the wing. This can be done easily after the wing center section is sheeted. Cover the center section with waxed paper and build up the nacelle.

4. Preassemble the upper and lower Nacelle Pads by gluing the N11 parts together, and the N13 parts together.

5. Tape the Nacelle Pads to the wing.

1. Dampening the outside surfaces of the pads will help them curve into position.

6. Attach Former N12 to the upper Nacelle Pad, and then the nacelle assembly.

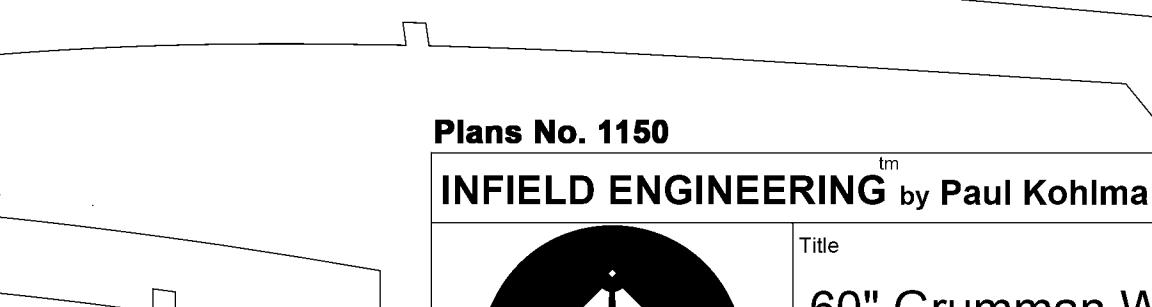
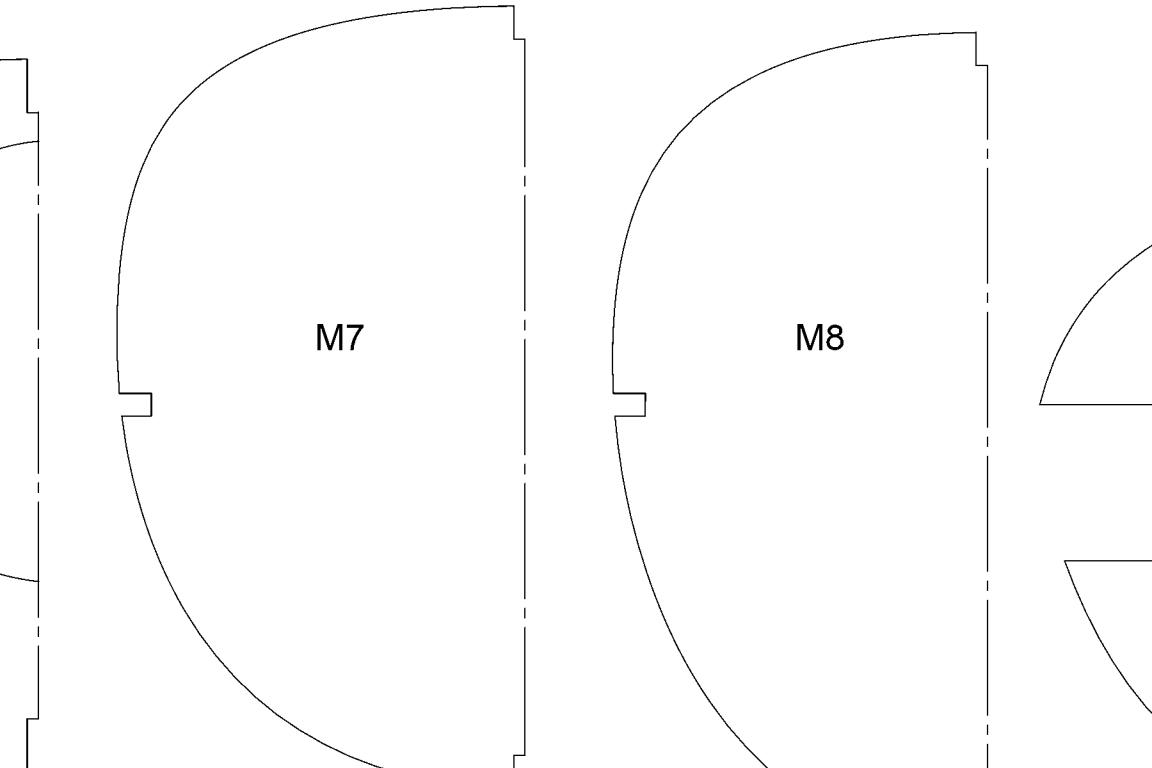
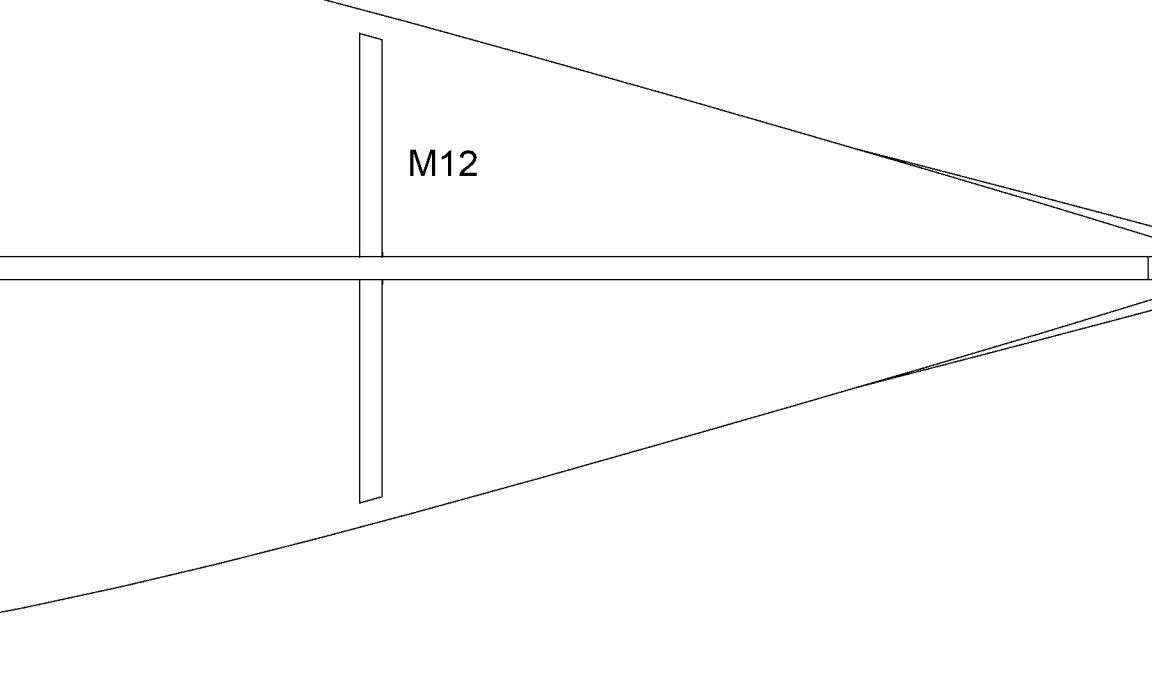
7. Attach Formers N14 and N15 to lower Keel N10.

8. Attach Formers N14 and N15 to lower Keel N10.

9. Stringers--1/8" square balsa strip stock.

1. Dampen the stringers with water and alternate the installation order from side to side to avoid warping the nacelle structure.

After the nacelle assembly is fully cured, slide it off of the wing center section. Now the wing and the nacelle can be covered before final assembly.



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