



- Fuselage Construction**
- 1) Cement F-9 and F-10 to the formers F-1 to F-8.
Cement F-14 to the formers F-1 to F-3.
Cement F-11 and F-12 to F-9.
Cement F-5 to F-1, F-2, F-3, F-11, and F-12.
Cement F-16 to the formers F-5, F-8.
Cement F-13 to F-9 and also F-17 to F-13, F-6 and F-7.
Cement 1/8" x 1/4" Japanese Cypress to the formers F-3, F-13.
 - 2) Cement F-18 to F-3 and F-7 to F-5.
Cement F-20 and F-21, drill holes (1/64") for the lumbro dowel and cement to the fuselage.
Cement F-22 to F-19, F-21.
Cement F-23 to F-1 and F-3, and reinforce with F-24.
Attach wing stay to F-25 with fitting and bolt nuts, and cement them to F-3 and F-11.
 - 3) Cement F-26 to F-8, attach tail wheel fittings and cement F-27.
Cement F-28 and F-29 to F-7 and F-9.
Place the fuselage from F-1 to F-9 (tail over), and from F-5 to F-7 top part only, with 1/8" balsa.
After sanding F-31 to the shape, cement it.
Cement F-35 (cooling mount) to F-11.
 - 4) Build up F-32, F-33 and F-34, and curve and sand to the shape of fuselage.
- Stab Construction**
- 5) Cement S-2 to S-1.
Build up S-1 to S-6 and 1/8" x 1/4" balsa (ribs) and sand to the shape.
Curve and sand S-7 and join the both halves with 0.028" piano wire.
Join S-1 and S-7 with hinges.
- Fin Construction**
- 6) Build up R-1 to R-5 and 1/8" x 1/4" balsa (ribs) and sand to the shape.
Build up R-6 to R-10 and 1/8" x 1/4" balsa (ribs) and sand to the shape.
Join R-1 and R-6 with hinges.
- Attaching Stab and Fin to the Fuselage**
- 6) Cement the stab to F-29.
Sand F-30 to the shape, place the fin between them and cement them on to the stab.
- Wing Construction (Upper Wing)**
- 7) Cement WU-1 to WU-10 (ribs) to 3/32" x 3/16" and 3/32" x 3/16" spars (Japanese Cypress).
Insert WU-11 between 3/32" x 3/16" spars, and join the two halves of the spars with WU-12. Join the two halves of 3/32" x 3/16" spars with WU-13.
Cement 3/8" x 3/32" balsa (leading edge) to WU-1 to WU-10 and join the two halves with WU-14.
Cement WU-17 (reinforcement for the leading edge) to WU-2 (rib).
Cement WU-16 (reinforcement for 3/32" x 3/16" spar).
Cut WU-15 (rib) apart and cement them. Cement WU-1 to WU-7.
Plan the leading edge with 1/8" balsa sheets, and the trailing edge with 1/8" x 1/4" balsa sheets (both top and bottom).
Cement 1/8" x 1/8" Japanese Cypress to the trailing edge (through WU-1, WU-2 and WU-15).
Plan the control part with 1/8" balsa sheets (both top and bottom).
Cement WU-18 to the centre of the trailing edge.
 - 8) Cement the wing tip WU-19 and WU-20.
- Wing Construction (Lower Wing)**
- 7) Cement WD-1 to WD-8 (ribs) to 3/32" x 3/16" and 3/32" x 3/16" spars (Japanese Cypress).
Insert WD-11 between 3/32" x 3/16" spars, and join the two halves of the spars with WD-12. Join the two halves of 3/32" x 3/16" spars with WD-13.
Cement 3/8" x 3/32" balsa (leading edge) to WD-1 to WD-8 and join the two halves with WD-14.
Cut the centre rib WD-15 apart and cement them.
Cement WD-16 (reinforcement for 3/32" x 3/16" spar).
Cement WD-17 to WD-6.
Plan the leading edge with 1/8" balsa sheets and the trailing edge with 1/8" x 1/4" balsa sheets (both top and bottom).
Cement 1/8" x 1/8" Japanese Cypress to the trailing edge (through WD-1, WD-2 and WD-15).
Plan the control part with 1/8" balsa sheets (both top and bottom).
Cement WD-19 to the centre of the trailing edge.
 - 8) Cement the wing tip WD-19 and WD-20.
- Wing Tip Alignment**
- Make aileron in the upper wing. In this case, the dihedral of the upper wing is 1" and lower wing is 2".
Control of stability.
Install the load lift spars, batteries etc.) as near the nose as possible. If tail wheel and ballast under the engine to keep C.G. point.

CURTISS GOSHAWK F-11C-2

51" SPAN 40" LENGTH
FOR ENGINES OF 30 TO 40 DISPLACEMENT

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