

BUILDING INSTRUCTIONS

Since all building is to be carried out right upon the plan, it is advisable to protect the plan with a sheet of clear plastic material (such as, for instance the back-up sheet from any iron-on covering film, i.e. Solarfilm, Monokote etc.) so that cement does not stick to the plan.

Assembling the wing

Both wing panels (i.e. the left and the right wing panels) may be built simultaneously on the kit-plan.

Pin down flat on the plan the leading edge W1, the trailing edge W2 and the spar W3 (You can find out the exact distance between these various items using one wing-rib as a distance-finder).

Pin down the front bottom sheeting W4, and the rear bottom sheeting W5.

Glue into place all W6 wing-ribs (that makes for a total of 11 ribs per wing-panel).

Glue into place the top spar W7.

Glue into place the dihedral braces W8 on each side of spars W3 and W7.

Glue into place ribs W9. The center rib W9 of each wing-panel is to be glued in at an angle. The slanting template is to be lifted from the die-cut sheet containing fuselage side F1.

Glue into place the front top sheeting W10.

Glue into place the rear top sheeting W11 upon the center ribs W9.

Glue into place the trailing edge reinforcement piece W12.

When the assembly is thoroughly dry, lift off the wing-panel from the building-board and glue into place wing-tip supports W14 and W15.

Adjust and glue in the slanted sheeting W13.

Give each wing-panel a careful sanding.

Assembling both wing-panels together is best done by leaving one wing-panel flat on the building-board and lifting the other wing-panel 160 mm off from the board, this distance to be taken precisely under the last wing-rib. Carefully glue both wing-panels together and leave aside to dry entirely.

Assembling the fuselage

Assemble fuselage sides F1-F2 by glueing them together at the splice-joint. Reinforce the glue-joint with a scrap balsa reinforcement (Careful : since the reinforcement piece of scrap balsa has to be **inside** the fuselage, make sure you have a **left** fuselage-side and a **right** fuselage-side !).

Glue in the reinforcement triangular piece F3, the wing-saddle-reinforcements F4 (balsa 5 X 3 mm) and the servo-area reinforcements F5 (triangular balsa 8 X 8 mm).

Assemble the fuselage by cementing between the fuselage-sides formers F6-F7-F8-F9-F10 and F11. F12 is made out of a length of balsa strip 5 X 3 mm.

Check out the fuselage alignment.

Glue in former 13 between fuselage-sides, and hold the assembly together with rubber-bands while it dries.

Glue into place the 1.5 mm balsa fuselage-bottom F14.

Glue into place the 1.5 mm balsa fuselage-top F15.

Glue into place the balsa 10 mm bottom block F16.

Glue into place the fuselage nose-block F17.

Glue into place the triangular reinforcements pieces F18 between formers F13 and F6.

Glue into place the balsa-block F19.

Shape and sand the entire fuselage. Block F19 is to be rounded off to match the contour of canopy F20.

Install the 3 mm dia. wing-hold-down dowels F21.

Drill two 6 mm dia. holes in bottom-block F16 where marked on the plan.

Glue into place the 2.6 mm dia. tow-hook fixing-dowels F22.

Glue into place the F23 fuselage skid which protects the rudder.

Once the fuselage has been covered and finished, you may permanently install tow-hook F25 using the wood-screws and washers F24.

Assembling the stabilizer and the fin-assembly

Pin down the balsa 5 X 3 leading edge S1.

Pin down the shaped 15 X 3 mm balsa trailing edge S3. You will obtain the correct distance between S1 and S3 by checking out with a stabilizer rib S2.

Glue into place the S2 ribs perpendicular to the plans. The distance between the two center ribs equals the thickness of the fin.

Glue into place the balsa 5 X 3 mm S4 spar in the slots of each S2 rib.

When dry, sand as per section B-B the ends of the stabilizer and glue the S6 stabilizer-tips.

Give the entire stabilizer-assembly a careful sanding and round off the leading edge.

Assemble and glue flat on the plan the fin R2, the rudder R3 and the joiner R1.

Once the stabilizer has been covered, slide the fin between the two center stabilizer-ribs and glue the entire assembly into place on the fuselage.

PACKING LIST

It. Nr.	Description	Qty	Material used
F1	Half fuselage-side (front)	2	2 mm die-cut balsa
F2	Half fuselage-side (rear)	2	2 mm die-cut balsa
F3	Triangular reinforcement	2	385 X 8 X 8 mm balsa
F4	Wing-saddle reinforcement	4	133 X 5 X 3 mm balsa
F5	Servo area reinforcement	2	133 X 8 X 8 mm balsa (triangul.)
F6-F11	Fuselage-formers	1	ea. 2 mm die-cut balsa
F12	Rear spacer	1	22 X 5 X 3 mm balsa
F13	Front former	1	2 mm die-cut balsa
F14	Fuselage bottom	1	465 X 45 X 1.5 mm balsa
F15	Top fuselage sheeting	1	465 X 45 X 1.5 mm balsa
F16	Bottom block	1	300 X 50 X 10 mm balsa
F17	Nose block	1	35 X 30 X 35 mm balsa
F18	Triangular reinforcements	4	Triangular 88 X 8 X 8 mm balsa
F18a	Triangular reinforcements	2	Triangular 57 X 8 X 8 mm balsa
F19	Front fuselage block	1	45 X 45 X 10 mm balsa
F20	Moulded canopy	1	
F21	Wing-hold-down dowel	2	70 X 3 mm dia hardwood
F22	Tow-hook hold-down dowels	2	12 X 6 mm dia hardwood
F23	Fuselage rear skid	1	2 mm scrap balsa
F24	Screw and washer set for tow-hook	1	
F25	Tow-hook	1	Pre-shaped piano wire
W1	Pre-shaped leading edge	2	600 mm long balsa
W2	Pre-shaped trailing edge	2	600 X 20 X 5 mm balsa
W3	Bottom spar	2	600 X 5 X 3 mm balsa
W4	Front bottom center-section sheeting	2	80 X 35 X 1.5 mm balsa
W5	Rear bottom center-section sheeting	2	80 X 75 X 1.5 mm balsa
W6	Rib	22	1.5 mm die-cut balsa
W7	Top spar	2	600 X 5 X 3 mm balsa
W8	Dihedral brace	2	1.5 mm die-cut plywood
W9	Center section rib	6	1.5 mm die-cut balsa
W10	Top leading-edge sheeting	2	600 X 36 X 1.5 mm balsa
W11	Rear top center-section sheeting	2	75 X 75 X 1.5 mm balsa
W12	Trailing edge reinforcement	2	1.5 mm die-cut plywood
W13	Wing-tip	2	1.5 mm die-cut balsa
W14	Wing-tip support	2	1.5 mm die-cut balsa
W15	Wing-tip support	2	1.5 mm die-cut balsa
S1	Leading edge	1	330 X 5 X 3 mm balsa
S2	Stabilizer-rib	12	1.5 mm die-cut balsa
S3	Pre-shaped trailing edge	1	335 X 15 X 3 mm balsa
S4	Stabilizer spar	1	340 X 5 X 3 mm balsa
S5	Stabilizer tip	2	1.5 mm die-cut balsa
R1	Gusset	1	2 mm die-cut balsa
R2	Fin	1	2 mm die-cut balsa
R3	Rudder	1	2 mm die-cut balsa