

AZIZO



Building the fuselage:

Unfold the plan on a smooth surface and protect it with a clear plastic sheet.

1. Build the F2 frame on the plan (see fig. 1). When thoroughly dry, take the frame away. Attention: the grain on F4 is vertical.
2. The second fuselage frame is to be built as per point 1.
3. Pin down the frames on the building-board and glue them on a balsa sheet of 1000 x 80 x 1,5 (see fig. 2).
4. Trim the excess-wood away from the frames.
5. Glue in formers F7 + F8 + F9 between the fuselage-sides. You will obtain a perfect alignment by pinning the whole assembly down on the plan. Glue the cross-braces F16 (balsa 10 x 2) into place.
6. Glue the wing-supports F17 (balsa 6 x 6). See fig. 3. Let dry thoroughly.
7. Glue in the top-planking F5 (the grain should run across the fuselagesides). The grain of the top-planking is shown on the plan.
8. Detach the fuselage from the plan. Glue F13 into place.
9. Glue in the F18 bottom (grain running across the fuselage-sides).
10. Shape and glue in the F12 nose block (see fig.4).
11. Glue the fuselage reinforcement triangular spars (see cross section).
12. Glue in the stabilizer-support F10 (make sure of a perfect alignment).
13. Glue in the tail-skid (1 x plywood, 2 x balsa). Fig. 5
14. Trim the cockpit to fit. The cockpit is held on place by dowel F11 and the wing.
15. Shape and sand the fuselage (see fig. 6).
16. Screw the tow-hooks in the dowels and glue these dowels into the fuselage together with reinforcement-pieces F15.

Building the stabilizer:

1. Pin down the spars S.2 (balsa 6 x 6) + S.3 (balsa 5 x 2) + S.4 (balsa 10 x 2). Glue in the bottom center planking between the spars S.2, S.3 and S.4.
2. Glue in the ribs S.1 (trim off 1,5 mm from the two center ribs).
3. Glue in the top main spars S.3.
4. Glue in the trailing-edge S.9 (see the stabilizer full-size plan).
5. Glue in the top-trailing-edge S.4.
6. Glue in the two S.5 tips.
7. Glue in the S.6 center-section top-planking.
8. Glue together the two elevator halves S.7. Glue the hinges between S.7 (see fig.7).
9. Shape and sand the whole assembly.

Building the fin:

1. ~~Pin down and glue both R.7 halves together.~~
2. Glue together both R.4 halves with the hinges in places and pin down the whole assembly on the plan.
3. Glue in the two R.5 halves and pin against R.4 (see fig. 8).
4. Pin down and glue in R.2 against R.7
5. Glue in the R.3 cross-braces.
6. Glue in the R.6 V-brace reinforcement.
7. Glue in the R.9 fin-fairing.
8. Let dry the whole assembly thoroughly, then take away from the plan and sand to a smooth surface.

Building the wing:

The wing should be built on the plan, laid out on a flat building-board or table.

Tape the wing-panel to the building 'Jig'.

1. Stack all W.1 ribs. Drill a hole of 5 mm exactly between the two mainspars W.16 (see full-size plan).
2. Pin down the leading edge ribsupport W.13 on the plan.
3. Pin down the trailing-edge, i.e.
 - measure the distance between W.13 and W.18 using rib W2
 - the trailing-edge is supported at the front by 1,5 mm thick-balsa-scraps
 - the trailing-edge is supported from W3 to W12 by spar W17.Cut out W.17 as shown on the plan.
4. Glue in the ribs W.1 to W.12 between W.13 and W.18. The center rib W.1 must be glued at the correct angle, using the template drawn on the plan.
5. Glue in the mainspar W.16 into the ribs W.1 to W.12.
6. Glue the leading-edge W.14 onto W.13 and against all ribs.
7. Cut out and glue into place the rib reinforcement W.19 (1,5 mm balsa scrap). Be careful about the grain.
8. Glue in the top-center planking (1,5 mm). Leave aside to dry.
9. Detach the wings and pin them upside down:
 - mainspar W.16 lays on the surface of the building-board
 - the trailing edge W.18 is supported from W.1 to W.3 with balsa-scraps so as to be a parallel to the building-board.
10. Glue in the bottom mainspar W.16
11. Trim webbing-pieces W.24. Glue all W.24-pieces against W.16. This must be done between all the W.2 ribs. Let dry thoroughly.
12. Cut the W.25 brass-subing to size, then insert it and glue it to the rib W.1. A good joint can be insured with pieces of scrap-balsa glued to both the spar and the ribs, or with fibreglass bonded with polyester-resin.
13. Glue in all W.15-webbing-pieces.
14. Glue in W.21
15. Glue in the dihedral-brace reinforcement W.23 (scrap plywood).
16. Glue in the bottom center-planking (see fig. 9).
17. Glue in the wingtips (see fig. 10).
18. Let the whole assembly dry!
19. Detach and sand the two wing-panels smooth. Round off the leading-edge W.13 and W.14.

Finishing your AZIZO:

In order to prevent the wings and stabilizer from adhering to the working table, you may pin down the covered wings and stabs during the painting-process to the table, wedging small 1,5 mm-thick pieces of scrap balsa between the covered wings and stab, and the table itself.

When the wings are entirely finished, you may cement the ply (W.27) reinforcements to the wing trailing-edge: these ply-reinforcement will protect the wing trailing edge against the hold-down rubber bands.

Kit-Contents:

- F.1 FUSELAGE SIDE
- F.2 FRAME
- F.3 CROSS-BRACES FOR F.2
- F.4 Balsa 1,5 mm DOUBLER FOR F.2
- F.5 TOP-PLANKING
- F.6 WING SUPPORTS
- F.7-8-9 FORMERS
- F.10 STABILIZER SUPPORT
- F.11 COCKPIT ATTACHING
- F.12 NOSE BLOCK 5 (PROFILE)
- F.13 FUSELAGE BOTTOM (PROFILE)
- F.14 TAIL SKID (GLUE TOGETHER 1 Balsa + 1 PLYWOOD + 1 Balsa)
- F.15 REINFORCEMENT-PIECES
- F.16 CROSS-BRACES
- F.17 WING SUPPORTS

- R.1 FIN FAIRING
- R.2 FIN LEADING-EDGE
- R.3 CROSS-BRACES
- R.4 TRAILING EDGE (TWO PIECES)
- R.5 FIN (TWO PIECES)
- R.6 REINFORCEMENT
- R.7 FIN FOOT

- S.1 STAB RIB
- S.2 LEADING-EDGE
- S.3 MAINSPAR
- S.4 TRAILING EDGE
- S.5 TIPS
- S.6 CENTER WING PLANKING
- S.7 ELEVATOR HALVES (GLUE THE HINGES BETWEEN THE TWO HALVES)
- S.8 HINGES
- S.9 Balsa SPAR

- W.1 PLYWOOD RIB
- W.2 TO W.12 Balsa RIBS
- W.13 RIBSUPPORT
- W.14 LEADING-EDGE
- W.15 WEBBING-PIECES (GLUE IN VERTICAL AND AGAINST W.16)
- W.16 BOTTOM MAINSPAR
- W.17 CUT OUT A Balsa WEDGE. THE WEDGE MUST BE LAID UNDER THE TRAILING-EDGE SHAPE THE 10 x 10 mm STRIP
- W.18 TRAILING EDGE
- W.19 RIBSUPPORTS (VERY IMPORTANT)
- W.20 WING TIPS
- W.21 DOWELS
- W.22 STEEL-WIRE (TO BUILD AS SHOWN ON THE PLAN)
- W.23 DIHEDRAL BRACE REINFORCEMENT (PLYWOOD)
- W.24 WEBBING PIECES