

PAPER MODEL ** KARTONMODELLBAU ** PAPIROVY MODEL

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Orlik

Model Kartonowy



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Myśliwiec doświadczalny **XF-85 Goblin**



skala 1:33

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English instructions available
at www.orlik.konradus.com

Nr. kat. 037

MYŚLIWIEC DOŚWIADCZALNY

XF- 85 Goblin

THE MODELS CONSTRUCTION:

GENERAL COMMENTS:

Before gluing get familiar with the main plan of the model and the assembly drawing. Each drawing forms a complete group of numbered pieces, necessary for workmanship. We use a rule of matching pieces together „on dry”, try on twice- then glue. While gluing the fuselage check the symmetry of its gluingness. The thickness and length of wire should be picked out, the shape should be performer by the given pattern. Places not printed, cut curbs, scratches etc., paint with waterless or other in suitable colours. The arrows beside any element indicates the top or the front. The red numerasion symbolizes places to which details should be glued. The frames edges should be grinded as well as segments attached to it.

SYMBOLS

Scissors.....cut out
Arrow.....roll tightly
.....fold in half and glue
.....fold in half and put inside cardboard
+.....glue to Bristol
*.....glue to cardboard with thickness 0,5 mm
**.....glue to cardboard with thickness of 1mm

Because both prototypes were in constant redevelopment and redeveloped, it is difficult to describe the final copy of the model. Hereunder are couple of possible configurations which can be made, they were established on the basis of the existing photographes.

PROTOTYPE 46-523

The control surfaces with the black ends, a big bow on the fuselage. In order to transport this copy, a yellow beaching trolley was used.

Configuration A: The airframe with the stabilizer on the ends of the wings, without the under-fuselages fin, with the pitots head in the front and under the fuselage, without any skids, the stabilizer fin with additional fairing, the ends of the wings without detail S19.

Configuration B: everything as in configuration A but without the pitots head and with a skid fixed under the fuselage.

PROTOTYPE 48-524

This copy had control surfaces with white ends and small bows on the fuselage. In order to transport this copy, a grey beaching trolley was used. During the build of this copy use pieces marked green.

Configuration A: without skids, with the pitots head, with the dunder-fuselages fin, the ends of the wings with detail S19, the stabilizer without additional fairing. .

Configuration B: Configuration A plus stabilizers on the ends of the wings, with or without the pitots head.

Configuration C: Configuration A plus configuration B plus the skid under the fuselage.

Configuration D: Skids under the wings, under-fuselages fin, the stabilizer fin without any fairing, the pitots head, the ends of the wings without detail S19.

Begin the build of the model from making the front part of the fuselage as well as the hooks cavity and engines air intake. Before constructing choose wether you want a model with a hidden or shown hook.

When you choose to make a model with a hidden hook then do not use piece A2,1 as well as wire S1,2,3,4,5,6. Instead of the hook glued from pieces 2a-2p, use only the end of the hook-piece 2, which is glued to pieces 8e,d. This way you also do not cut out places marked for the hooks cell in frames A3,A4,A5 and A6. You can also cut out pieces in the sheathing-pieces 3,4,5,7 which imitate the hooks cover, the sides of the crack should be then glued from the unprinted side with plywood. After fixing the entire front glue into the newly made crack piece 11. It will liquidate the „stitch” on the fuselages nose and make 2 new stitches on the pieces where the hooks cover joins the fuselages sheathing. The model will gain a positive appearance. You can also make from pieces 6a-c and pattern S7 the reflectors. Take caution with frame A6 because of its thin edges. After cutting out of frame A6 an opening, saturate the edges with cyanide-acryle glue. It is now that you can cut out the frame.

Making the model with the show hook.

To frame A1 glued from pieces A1-A1c (pieces A1b and A1c form a „pocket” which is used to fix the wings girder) glue the hooks cell which is glued from pieces A2a-A2c and 1a,b. Glue wire S1 into the proper place so that the shorter edges are put out of the openings in the cell, they will be needed during the fixing of the hooks pylon. Glue the hook as according to drawings from pieces 2a-2h. Glue to the hook piece 11 which is painted from the unprinted side. Glue from pieces 2i-l and wires S3-S5 the servo-motor which you then fix to the hook. Glue the ready hook to the cell. Next glue from pieces 2m-2k and wire S6 the pylons. Glue the bottom ends of the pylons to wires S1 and the top ends to the ends of wire S3 which stick out of the hook. Now glue as according to drawings pieces 3,4,5,6,7,8,9,10 and frame A3,A4,A5 and A6.

The model with the movable hook.

In order to make the movable hook in this model, you must make all of the joinings movable and replace pylons glued from pieces 2m-2k with pylons glued from thin brass (ex. a can). Remember to safen wire S4 from protruding from piece 2i. Secure also the ends of wire S5 from protruding from the crack in the opening. It would be best for you to glue the hooks cover piece 11 to the hook only after finishing the fuselages front part. This will enable good fitting and the minimization of any cracks. Next glue segments 12 and 13 with frame A7 (frame A8 should be glued only after gluing the fuselages equipment). Cut the marked spaces on the fuselages ship side piece 12 and next profile the entire segment. Do the same technique with the fuselages tub piece 14f. Now glue from pieces 14-19 and wire S8-14 as according to the drawing the fuselages inside as well as its equipment and then glue to the fuselage. Take caution while joining fuselages tubes piece 14 with piece 12. After gluing the cockpit glue frame A8. Next glue to the entire part a segment made from pieces 20,21 and frame A9,A10. In order to finish the fuselage you need to make three last segments from pieces 22,23,24 and frames A11 and A12. Glue the nozzle from pieces 25a and 25b, paint the nozzle from the unprinted side on silver or black and when ready, glue it to the fuselage. Glue from pieces 26 and 27 the cockpits fairing. If you choose to make the fairing glassed then piece 27a,d should only be a pattern to cut out the fairing from colourless foil. Make the fairing as according to the patterns (27 a and d), after cutting it out, form it into one „solid figure”. You can do it as follows: Draw pieces 27a and d on bristol and then glue together. The construction can be strengthened with cyanide-acryle glue. Glue over the ready fairing pieces 27b and e and pieces 27c and f glue to the inside. Before gluing the fairing to the fuselage, glue the pylon piece 26. Pieces 28, 29, 30, 31- the stabilizer and the rudder blade. The stabilizers build doesn't bring out much trouble, everything is explained on the assembly drawings. You can make the stabilizers pieces 29 and 30 with a version of movable control surface or without it. The stabilizers piece 28 and 29 are fixed to the bayonets. Stabilizers piece 30 should be put into the crack cut out of piece 23 and next move it to the back. Glue the fin to the fuselages bottom. You can choose whether you wish to make the stabilizer fin piece 28 with an additional fairing piece 28d or without it. While building the stabilizers make sure you profile the edges properly with grinding paper and scissors. The edges of the stabilizers skeleton piece 29 and 30 should be cut into a proper angle to match the fuselage in the joining spaces. Don't worry about any little cracks which might have happened while fixing the control surface to the fuselage, because they will be hidden under the fairing piece 29l, 30m,l, 31d,e. The only stabilizer which must be perfectly fixed and joined is piece 28. Piece 32 the wings. You can also choose to either make the wings movable or not. The build of the wings skeleton in both version is shown on the drawings. In the version without movable wings do not use pieces A32, A33, A28, 32d,e,f,g and wire S18, use pieces A26 and A27 completely. In order to simplify the build, you do not have to cut out the „openings” in the girder and you can also cut elements of the skeleton without including the openings. This will slightly weaken the skeleton but will significantly simplify the build. If you choose to make the wings with a movable aileron then cut out holes in girder A14 onto wire S18, cut off pieces A26 and A27 and glue to them piece A28. Glue onto the marked spaces (on both sides) pieces A32 and A33, making nests for wire S18. You can strengthen the skeleton by using cyanide-acryle glue. Grind properly the ready skeleton to eliminate any roughness. Glue over the ready skeleton (and fin) the sheathing. Glue the sheathing to the wing only to one side (from the top or the bottom) and glue the edges together. Glue the ready skeletons to the fuselage and next glue over them fairing glued from pieces 32b,c. The ends of the wings can be made in one of two versions look at drawings. In the second version cut out the marked piece of the wings end and into the newly made openings glue piece 32j and piece 32k with pattern S19. Depending on the chosen version you can fix on the wings ends stabilizers piece 33, glued as according to the drawing. After properly profiling piece 34- the hooks cover, glue into the tunnel the engines air-intake. Glue from pieces 35a,b and pattern S22 the pitot head as well as the cover, when ready glue it to the fuselage in the space shown on the assembly drawing. Glue from pieces 36a-h under-fuselages skid, when ready glue it to the fuselage. While gluing pieces 36a,b,c remember to properly profile all of these pieces, when ready glue them together. If you chose the version with the skid under the wing then glue these skids from pieces 37a-h as well as wire S21. Take notice on the formation of skids 37a and b.

After gluing together pieces 37a and b, cut the edge of piece 37a into a proper angle and then formate the entire detail into a semicircle. Glue the ready skids to the bottom of the wings. Glue from pieces 38-45 the beaching trolley. The build of the beaching trolley isn't quite complicated. Take caution while making piece 43. If you chose to make wheels capable of turning then while gluing pieces 43a,b,c onto wire S23 glue them together in the way so that piece 43a will rotate easily. While making the trolley you can resign from details 45f,g for in the original version they were not fixed. Next fix the ready chochlik to the trolley as showed in the drawing. If you do not want to glue the chochlik to the trolley permanentlly, you can glue to pieces 45b and c small wires which will enter into the openings in the airplanes fuselage.

WE WISH GOOD FUN WHILE MAKING THE MODEL!!!



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