

# SOJKA

## Building Instructions

(NOTE: this is an automatic translation using Google Translate)

The SOJKA model is intended for moderately advanced modellers with experience in model construction. The kit contains all the necessary parts to assemble the model. Individual pieces the kits are as pre-processed as possible so that the assembly of the model is as good as possible the simplest. The model is coated with kit paper and painted with acetone varnish (not part of the kit).

### Instructions:

We recommend using adhesive varnish, Kanagom or on small glued surfaces to glue the models instant glue. For the construction we will need a flat worktop measuring about 150mm x 700mm, flake saw, fine and coarse grinder, modeling pins, scissors or razor blade, acetone adhesive and tension varnish, thinner, hair brush. Before owning the start of construction, we move sheet 1 of the construction drawing and stick it on sheet 2, sheet 3 is covered and glued to sheet 4. Next, we study the instructions for building the model, to avoid unnecessary mistakes when gluing individual parts of the kit. Note: the numbers in parentheses in the construction manual are references to the numbers given on the construction drawing.

### Assembly of the middle part of the wing:

We place a construction drawing on a flat worktop. Attach the pins to the drawing drain bar (1) with bar profile so that it is laid according to Fig.A. To this bar gradually glue the edge ribs of the wing (2) - the oblique sides of the rib will point from the wing to the side (They are ready for gluing the "wing ears"). We secure the ribs by pinning them to the LI worktop. the tips of the ribs so that the guide rail (3) can be glued to the ribs. Then we will stick it (according to Fig.A) and secure the pins. Now we choose from the bag 10 pieces of ribs (4) - they are just as big and we will gradually glue them from the right side into the grooves in the drain bar — a total of 5 pieces, then then omit 2 pieces of ribs (6) - these are smaller and then glue the remaining 5 pieces of ribs (4). Then we will gradually glue the tips of the ribs to the leading bar (3). Leading bar always after gluing the ribs, secure them to the worktop with a pin. After the glue has dried, the wing remove from the worktop, insert the spruce bar (7) into the groove of the ribs and glue it at the same time as the lower edge of the ribs. We will again pin the wing to the plan to the worktop so that as it was when gluing the ribs. Cut the bottom cover to the middle between the leading leaf and the beam - front (5a) and back (5b) and glue. Ribs (6), glue to the bottom cover 2mm from the edge. On glue the ribs of the center of the wing hong cover (9). After the glue has dried, remove the sash from construction drawing. Glue 8 pieces of reinforcing triangles (8) into the corner of the wing. Wing I regrind with a fine smoothing, especially in the place of glued parts.

#### Nozzle assembly:

We place a construction drawing on the worktop. We attach pins to the construction drawing drain rail (11). Glue the edge rib of the ear (12) - the oblique side of the rib - into this strip will point to the side - ready for gluing the ear to the center of the wing. we secure the rib by pinning to the worktop at the tip of the rib. Next, glue gradually to the bevel bar ribs (14) and secure with pins. Glue the leading bar (13) to the tips of the ribs. After remove the ear of the wing from the plan, glue the bar (15) into the lower groove of the ribs. On glue the end rib (16) to the edge rib (14). Glue 4 pieces of reinforcements into the corner of the ear triangle (17). I sand the ear with fine sandpaper, especially in the place of the glued parts. We glue the other eyelids in the same way.

#### Elevator assembly:

We place the construction drawing of the elevator on the worktop. We attach pins to the construction drawing of the front (21) and rear rail of the elevator and (22) after shortening to the length according to the drawing. Between glue the reinforced strips (23) and (24) cut from the flanges to the pinned strips - see note. Next, glue the diagonal reinforcements (25). Glue the end parts of the elevator (26) on both sides. After the glue has dried, remove the elevator from the construction drawing, cut the side end of the elevator according to the drawing, round the edges along the entire circumference according to Fig.B. The whole elevator sand with fine sandpaper. Notes: we cut parts (21), (22), (24) and (26) from flange 12 x 3-330 from the flange 5 x 3— 330 we cut parts (23) and (25)

#### Hull assembly:

Pin the fuselage head (30) to the worktop. Glue the hull (31) into the head so that the warhead was on a flat worktop in the plane. Glue on one side to the head side covers (32). Lead the front of the head lead (39) knocked so that after gluing the fuselage was not hindered by sticking to the other side of the cover, which we then glue. From to the back of the fuselage is glued according to the drawing of the elevator pad (33), (34) and the supporting spruce bar (35) size 3x5-25. Glue the rudder (36) vertically to the upper part of the fuselage. Ke glue the rudder (40) slightly bent to the side of the rudder (according to the bevel on the flaps) to the rear part of the fuselage we drill a hole with a diameter of 2 mm to a depth of 10 mm, into which the following glue a bamboo pin (37) length 25mm. Adjust the diameter of the holes in the fuselage head for 2 pcs the pins of the wing (38) to O 4mm and glue them. Glue the wing washer (41) to the fuselage head so that the fixed wing is perpendicular to the fuselage.

#### Preparation of the coating model

We sand the whole model with fine sandpaper. To the middle part of the wing we stick the so-called, wings ears. Raised by 80mm. We repaint the whole model with diluted adhesive varnish. After his drying,

regrind the entire model again. We repeat this activity once or twice more depending on the density lacquer.

#### Model cover:

We start coating the sash by placing the middle part of the sash on white coated paper (with paper fibers parallel to the longest side of the coated part) and cut from it 2ke cover larger on each side by 5mm than the floor plan of the wing. Do the same we will also prepare blue paper for covering the ears of the wing, elevator and rudder. Middle Platoon Vidin apply a thin adhesive varnish from the bottom around the perimeter. Attach Jme to the painted bottom sheet prepared coating paper so that at least a scratch occurs after gluing the paper. Transitions paper over the edges of the wing are cut off. The paper glued in this way is repainted with 1x tensioned curl. The upper part of the wing is coated in the same way, with the difference that the overhanging paper tre stick without cutting to the bottom cover. The length of the paper is cut according to the edge ribs of the ears we cover the wings as the middle part of the wing, with the difference that the paper is creased by hand, it is glued on one side to the coated middle part of the wing and on the other side to the rikoričaml ear. The elevator stretches just like the middle part of the wing. We attract to the rudder rudder coating paper for reinforcement.

#### Model assembly:

Attach the elevator to the fuselage with a lashing rubber so that we thread it not on the back pouleol pin, place the elevator in the bed on the fuselage, pull over the elevator, turn under the fuselage no the other side and drag again over the elevator to the pin. We will do this 2x 1\$1 3x fasten the end of the grna to the tensioning pin. In a similar way we fortify the wing to the fuselage.

#### Flying the model:

Check the center of gravity of the model by placing the assembled model with your fingers under Itfidl at the location of the arrow in the drawing. The fuselage of the model should stabilize in a horizontal position. If it tilts to the back, we drill a 5mm hole in the head and import shots (they are not part of the kit) so that the fuselage is in a horizontal position. To the bottom of the fuselage screw the towing hook 5mm in front of the center of gravity of the model and as far as possible to the side of the fuselage edge, where the directional flap is bent When viewed from the front, we will check whether the model is not twisted. We will eliminate any identified deficiencies. We twist the ends of the ears into "negatives" approx. 5mm.

We will fly this checked and modified model to a larger one in windless weather beech with low growth. First, we throw the model slightly to the ground at flight speed. If it swings model, add weights to the head box, or lower the washer at the lashing pin elevators. If the model flies sharply to the ground, we

remove the weight or raise the mat. Directional flap — by bending it, we adjust the flight of the model to a slight turn. With the help of a more experienced modeler, we can start trying to tow a model using a 25m long one cords. Flight correction is performed again by adding or removing weights and rudder deflections directional flaps. For towing a model with a subsequent round flight, it is more appropriate to glue a tow hook to the side of the fuselage - the location of the hook and the method of towing the model then needs more experienced modeler. A pin (27) is prepared for the detormalizer, which is glued to coated elevator.

#### List of material:

Hull head, 1pc, (30)

Side cover of the head, 2 pcs, (32)

Model hull, 1 pc (31)

Balsa bar .12x 3 -330 ", 3 pcs, (21, 22, 24, 23 )

Balsa abs 5 x 3-330., 2 pcs, (23, 25)

Center drain bar, 1 pc., (1)

Ear drain bar, 2 pcs (11)

Spruce beam 3 x 8 -540, 1 pc, (7)

Balsa beam 3 x 8 – 150, 2 pc, (15)

Basic rib, 16 pcs., (4, 14)

Center leading bar, 1 pc., (3)

Ear guide, 2 pcs., (13)

#### Bag A:

Right and left bevel ribs, 2+2 pcs. (2, 12)

Rib cover, 2 pcs. (6)

rib edge, 2 pcs. (16)

Center cover 1.5 -100 x 34, 2 pcs. (5a, 5b, 9)

#### Bag B:

Rudder, 1 pcs., (36)

Wing bed, 1 pc, (41)

Reinforcing triangle, 8 pcs., (10, 17)

Turn signal flap, 1 pc., (40)

Elevator washer front, 1 pc., (33)

Rear elevator washer, 1 pc., (34)

Bamboo pin 02 -35, 1 pc., (27)

Bamboo pin 02 - 25. , 1 pc., (37)

Lashing pin 04 -30, 2 pcs., (38)

Elevator rail 3x5-25, 1 pc., (35)

Load, 1 pc., (39)

Hook, 1 pc., (42)

Rubber bundle