

KOS

Building Instructions

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

INTRODUCTION:

The Kos competition glider is intended for modellers who already have experience with building simple handball. It will serve perfectly to get acquainted with the classic construction and paper coating. Under the supervision of an experienced You can tune it to high performance with a handball specialist - after all the model was the winning handball of the two-time Czech champion of the Republic. We recommend using Kana gom, quick-drying glue, to bond the model dispersion adhesive (Perfect G, TiteBond II or III), UHU Hart, or instant adhesive.

To build the model you will need a flat worktop into which pins (latvka, hobra, etc.), psoriasis saw, grinding wheels - sanding paper No. 180 and 360-400 glued to hard fries balsa or aluminum L-pro6120x20x120 mm, modeling pins, scissors, Narex razor blade, adhesive and stretching nitro lacquer, nitro thinner for varnish thinning, flat hair brush. Familiarize yourself with the model assembly procedure before beginning construction by studying the construction instructions and the plan.

ASSEMBLY OF THE MIDDLE PART OF THE WING:

Note: The blackbird is designed for a right-hand turn into a right turn; of for this reason, the right middle part of the wing is intentionally shorter than the left, while the right ear is longer than the left. Place the construction drawing on a flat worktop; place on the drawing a thin clear plastic film (eg a cut large plastic bag). The model is built directly on the drawing, the foil prevents parts from sticking to it. On pin the construction drawing with the right (shorter) inlet and outlet sash rail (1P) and (2P) - flat surface to the worktop. Among these cut the parts precisely (from bar no. 3) and glue the bevel bar (3) so that the bevel points to the outside - see section A-A (6 °). Glue to the center of the wing the spacer (4), which you cut from sheet no.4. Cut into the notches in the center of the wing from the strip No. 6 of the rib tape (5) so that they can be inserted into the notch in leading and trailing parts of the wing. Then seal them. From bar no. 6 also cut the triangular plywood (12) that strengthens the corners of the structure.

After the glue has dried, remove the middle part of the wing from the plan and repaint diluted adhesive varnish (1: 1). Carefully sand after thorough drying rofile of the wing with a whetstone. The correct wing profile is drawn on hull. Assemble the left middle part of the wing in the same way.

ASSEMBLED WINGS "":

Pin the right (longer) ear drain sheet to the construction drawing wings (6P). Glue the end arch of the ear (7) to the drain part, k then the right leading bar of the ear (8P) - straight side to the working board. Cut

precisely between these parts (from bar no. 3) and glue the bar with a bevel (9) so that the bevel points to the outside - see section A-A. Cut the rib ribs (10) from the No. 6 sheets into the notches on the wing ear so that they can be inserted into the notch in the inlet and outlet rails. You then seal. From the bar No. 6 also cut the triangular plywood (12), which they strengthen the corners of the structure. After the glue dries, remove the wing ear with a plan and repaint with diluted adhesive varnish (1: 1). After a thorough drying, carefully grind the sash profile with a sander. In the same manner also assemble the left ear.

BODY ASSEMBLY:

Glue the bevelled bar (11) to the main fuselage sheet (16). Glue to the hull (14) on a flat plate head (15). Glue the sheet to the upper part of the fuselage (13). Glue the glued sheets firmly to the fuselage on a flat worktop hull. Glue the weight (17) to the fuselage head. From the right and left side glue the side fuselage side covers (20) so that they do not exceed the contour of the fuselage. Glue the rudder (18) and elevator (19) s to the back of the fuselage overhanging 10mm backwards. Glue the glued hull with a fine abrasive paper including forging, signpost and repaint with diluted adhesive varnish (1: 1).

MODEL ASSEMBLY:

At the right and left center of the wing, gently grind the center joints surfaces and lightly grind the bevel for gluing together. On the worktop lay the plastic foil and pin one center of the wing straight flat to the board. Paint the other middle part of the wing at the gluing point glue and apply to the pinned part of the wing with a base of 8 mm (2x balsa section XX), see section B-B. Now align the Bevel bevels ears. Pin the glued middle part of the sash to the worktop with a protected foil. Cut the ear support (XY) length from the remaining bar No. 4 40 mm. Coat the side bevel of the ear with glue and stick it to the middle part wings - support the end of the ear with a support (XY). In the same manner lepeptee and the other ear. Sand the glued sash with a fine abrasive paper and repaint with diluted adhesive varnish (1: 1). Thus assembled glue the wing to the assembled fuselage.

PAINTING AND COATING:

Paint the whole model twice more with thin adhesive varnish (1: 1). After each varnishing, we regrind the entire model with a fine abrasive paper. Both halves of the middle part of the wing and the ears are coated separately. Coating start the middle part of the wing by cutting the cover paper ("fibers") coating paper must be parallel to the leading edge) so that to always exceed the circumference of the coated part of the wing by at least 5 mm on each side. Start coating by painting the perimeter of the middle the upper part of the wing with undiluted adhesive varnish with quick application and by applying the coating paper to the skeleton of the sash so that it is coated part of the wing was the same overlap. Coat the coating paper over the entire upper surface with diluted adhesive varnish and smooth it again around the perimeter.

After the paint has dried, cut off the excess paper around the entire perimeter wings. Pull the other half of the center of the wing in the same way, the underside of the center of the wing, the upper and lower sides of both ears. Now you can attach accessories made of colored coated paper to the model. Paint the coated wing with the fuselage with a thin tensioning varnish 2x to 3x. After each painting, sand the coated sash with a fine abrasive paper. Glue a support triangle from the bottom right half of the wing (21) cut into the wedge (see section B-B). Finally, glue the sides of the fuselage anti-slip sanders (22) and enclosed self-adhesive accessories. By this the construction of the whole model is completed.

MODEL BALANCE:

Support the model with your fingers under the wing at the center of gravity marked on construction drawing. The fuselage of the model should remain horizontal position. If the bow of the model rises, glue the weight to the lower box in the fuselage head. Lastly, you can paste on both sides torso emery rests for better holding of the model in the hand when throwing.

Fly the model in calm, windless weather - preferably in the evening.

Hold the model under the wing and slightly throw with the bow slightly tilted to the ground, release it. Watch his flight closely. Houpe-lirn with the model in flight, gently bend the trailing edge of the elevator down. If the model flies sharply to the ground, turn the trailing edge of the elevator up. When turning the model to the right, tilt (when viewed from behind) the back of the turn signal to the left. If the model turns to the left, bend the back turn signals to the right. For competition flying, the model can be adjusted according to the articles on competitive adjustment of handball models (see the magazine Modelář, RC modely, Internet).

THE KIT CONTAINS:

Wing leading bar (L, P) (1) 2pcs

Wing drain bar (L, P) (2) 2pcs

Wing ear guide bar (L, P) (8) 2pcs

Wing ear drain bar (L, P) (6) 2pcs

End arch of the ears of the wing (7) 2pcs

Head (15) 1pc

Side fuselage cover (20) 2pcs
Hull strip (spruce 5x5x360 mm) (16) 1pc
Hull reinforcement bar (spruce 3x5x175 mm) (11) 1pc
Wing bar (spruce 2x5x175 mm) (13) 1pc
Hull (14) 1pc
Elevator (19) 1pc
Direction indicator (18) 1pc
Reinforcement triangle (21) 1pc
Balsa bar with bevel 7x7 mm, No.3 (3), (9) 1pc
Balsa bar 7x7 mm, No.4 (4), (XY) 1pc
Balsa bar 7x1.5 mm, No.6 (5), (10), (12) 6pcs
Weight (roller) (17) 1pc
Abrasive anti-slip supports (22) 2pcs
Coated paper 2pcs
Construction drawing and instructions 11-1pcs