

## Fuselage assembly of Maxa Pro EL

Tools:

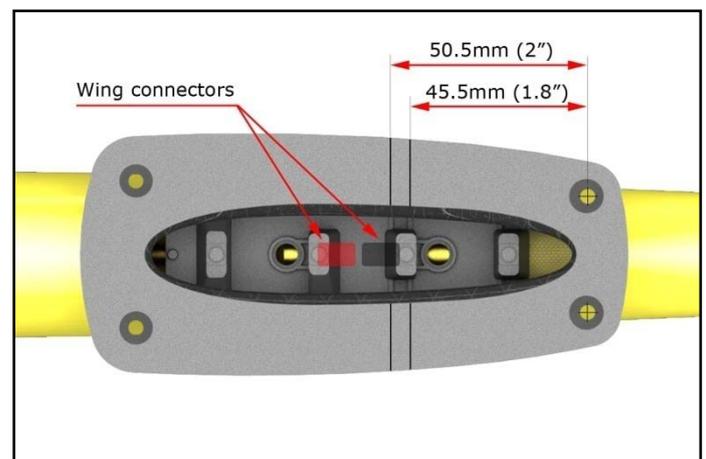
- sandpaper №150-80; № 320-240
- epoxy with microcellulose;
- adhesive tape;

- paper tape (used for protection against an excess of epoxy resin)
- superglue, CA (medium viscosity and low viscosity);

1) For install the servo platform in the fuselage sanded the place inserts in the fuselage and the side surface of the platform by sandpaper № 150-80

2) Try how the servo platform is fitted, by slipping it through the canopy hole (platform front side is wider). Center of wing electrical connectors must coincide with the center of the servo platform. Connectors will be located between the servos. (approximate size is on figure). The platform should be placed horizontally along the axis of the tail boom. (front part of the platform is above the rear one).

3) Glue platform by superglue carefully. Please fix it by the liquid superglue in two points first, then recheck and spill platform by medium superglue.



**Pic.1 – Proper installation servo platform in fuselage**



**Pic.2 – Preparing the fuselage to install servo platform**

4) Prepare the servo-horns with 12mm arm

5) Screw the bearing nut to the back side of the servo horn by screw M2. Screws head almost will hide in the servo horn hole.

# Fuselage of Maxa Pro El 3.5 m and 4m

## Recommendations for assembly

6) Put the tail boom with rods (please fix the tail on the tail boom in neutral position) and mark the rods length according to centers of the servos horn bearing spots on board. Front servo is rudder one with rod right side (by flight), rear servo is elevator one with the rod in left side.

7) Remove the boom from the fuselage and measure the distance from your marks required to clevis and thread rod tip installation (clevis must be adjusted to  $\pm 3$  mm at the rod tip). Cut the carbon rod according to your measure. Cut the rod tube to the edge of the 10mm longer rod tip. Sand the gluing spot in the rod by № 320-240 sandpaper and glue the rod tip by superglue. **Note:** keep the tail boom vertically with the fir in top, so the flown superglue will not fix the pipe to the rod.



Pic.3 – Bonding of pushrod and horns rods of tail

8) Install the horns with the bearings on the rod clevises.

9) Refit the tail boom and install servo horn bearings into the appropriate slots. Adjust the length of the rods by thread, that the horns (in neutral rudders) were perpendicular to the axis of the fuselage. Check how the control system working.

10) Notice how the distance from the rod to the surface of the fuselage.

11) Disassemble the fuselage and glue on the edges of the tubes rods pieces of balsa plywood or other material for fixation rod tubes to the fuselage. The width of these bands make according to claim 10. **Be careful** that the superglue will not filled the rods for this keep the tail boom rudder side to the bottom.



Pic.4 - balsa plywood for fixation rod tubes to the fuselage

12) Assemble the fuselage again for a final check.

13) Disassemble the fuselage, spread resin with microcellulose to the tail boom inside (by gloved finger, thin, rubbing the tail boom) and outside the fuselage. Also smear resin to the strips on the rods for fixed it to the fuselage.

14) Assemble the fuselage. Set servos horn bearing into the slots. Check the operation of the control system and fixation rod pipes to the fuselage.

15) Screw the central panel and check the stabilizer/ central panel position.

16) The tail boom must be in the central of the gap rate. In this case will be right stabilizer angle.

17) Wipe off any excess resin and secure the beam by glued tape prior to polymerization of the resin.