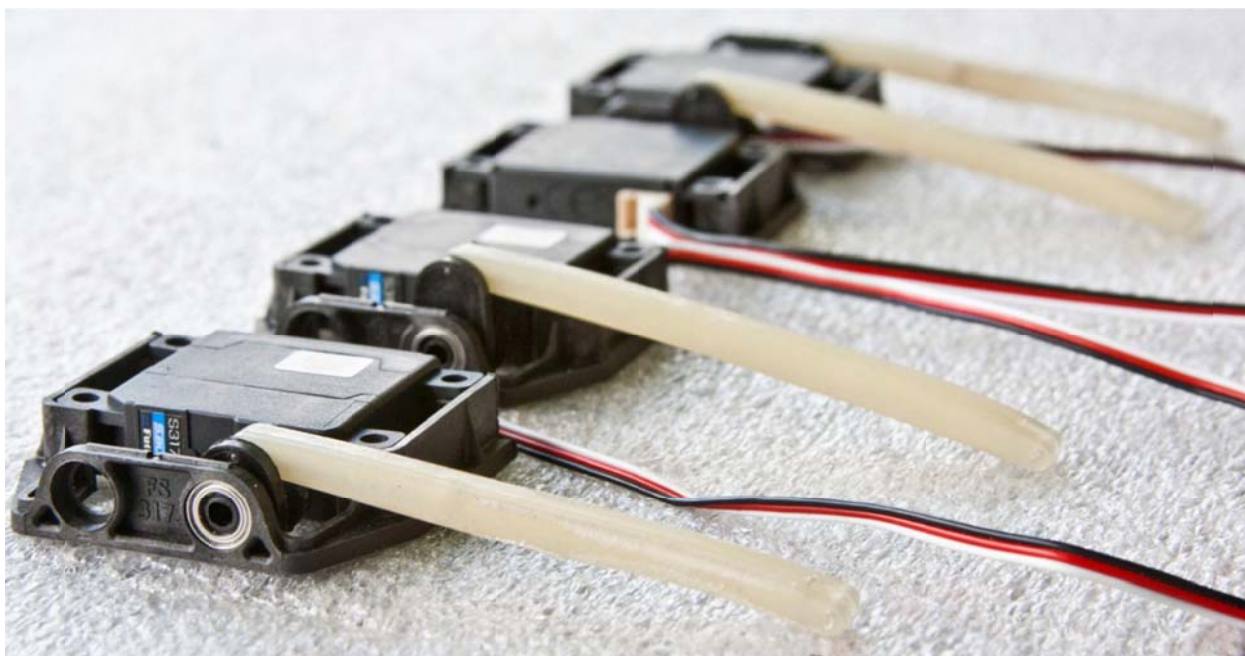


We recommend ordering the installation of IDS systems in the wing when ordering the model. We install the frame to the wing of the jig in the process of assembling the wing in the mold.



This manual is pictured Maxa wing assembly, but these principles can be used for Supra wing.

You need to purchase a set of IDS for the ailerons and flaps according to the type of your model and type of your servos.

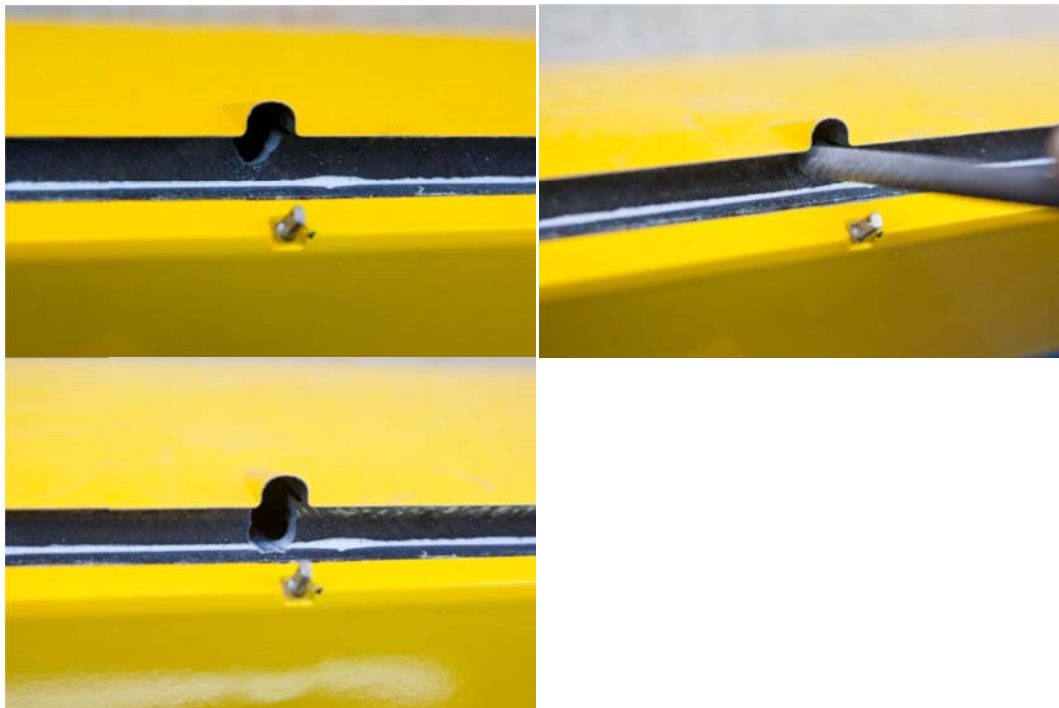


Maxa IDS Type Robbe 3173 for ailerons

Maxa IDS Type Robbe 3173 for flaps

Preparing of the wing

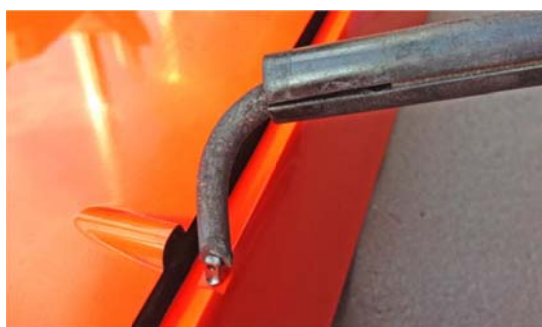
- 1) Clean servo gluing spot of excess resin and sanded by paper №240.
- 2) Extend the flap rod slot to the bottom wing surface by a round file, like in Pictures



3) Only for Maxa.

If you have not pre-ordered model Mach for IDS system installation, you must replace the flap horn (with a hole of 1.6 mm) and glue new horn from IDS set with 1,5 mm hole.

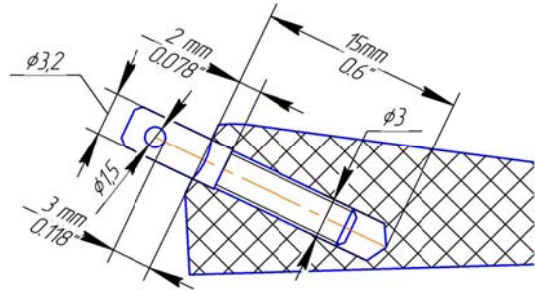
- Use a soldering iron to heat the flap horn (for the epoxy destruction around the horn) and unscrew it from the flap.



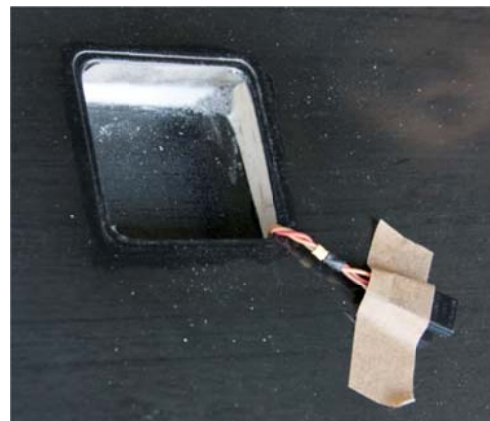
- Drill 3 mm holes to the full depth of the horn holes and drill 3,2 mm hole to 2mm depth by hand. Do not use power tools or Dremel for this operation.



- Glue the new horn by epoxy resin according to sizes on the sketch.

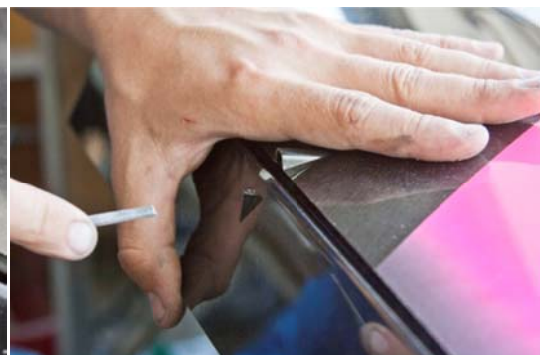


4) For convenience, remove the wire connectors from the hatches and temporarily fix them outside the wing.



5) For Maxa only.

Make flat slots in the aileron horn spot by flat file, as shown in the pictures.





- 6) Screw the horn to the aileron until the stop.



Servo frame preparing

- 7) Cut the extra parts and sprues with a knife.
8) Cut the part of the frame, in order to frame fit to the servo hatch hole as in picture.



- 9) Sand the frame from the flat side.



- 10) Install the ball bearing to the servo horn spot.



Servos preparation.

- 11) Prepare servo horns with the smallest arm from the IDS set for aileron servos, and the horns with the biggest arm for flap servos.
- 12) Connect the servo to the servotester and set the central position (1500ms). Or set the servo central position by transmitter, controlling by servo monitor.

In this servo position, fix the servo horn perpendicularly the servo like in picture. It is the same for aileron and flaps servos.

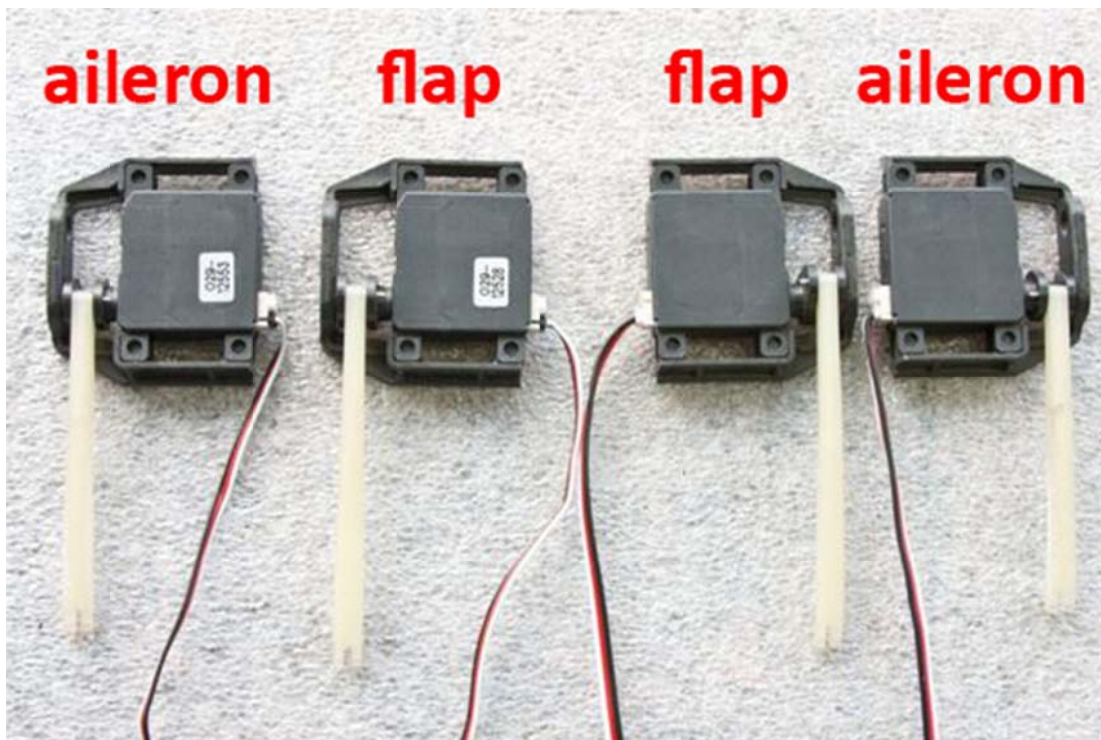


13) Apply separating layer to the servos, avoid gluing servos to the wing with the frames.

You can use as separator normal soap or your other separator for epoxy resins.



14) Assemble completely IDS systems with servos as shown in the picture. Screw each servo to the frame with two screws from the kit.

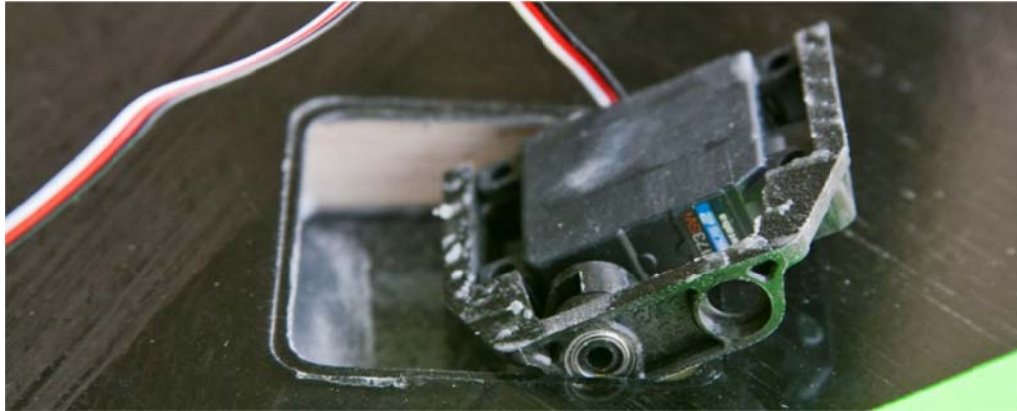


IDS system gluing

- 15) Install collected IDS system to the wing and attach the rod to the flap (aileron) horn using $\varnothing 1,5\text{mm}$ shaft from the kit. Place the servo in the position so that it is convenient to apply the resin.



- 16) Carefully apply the epoxy resin with microcellulose to the servo frame.



Aileron servo installation

- 17) Set aileron frame, applied with epoxy, into the wing.

Set a central position servo using servotester or transmitter (Pos 12). In this servo position, move the servo frame so that the aileron was the position "CRUISE" according to Maxa Wing Template (2,2 degree) (Fig.).



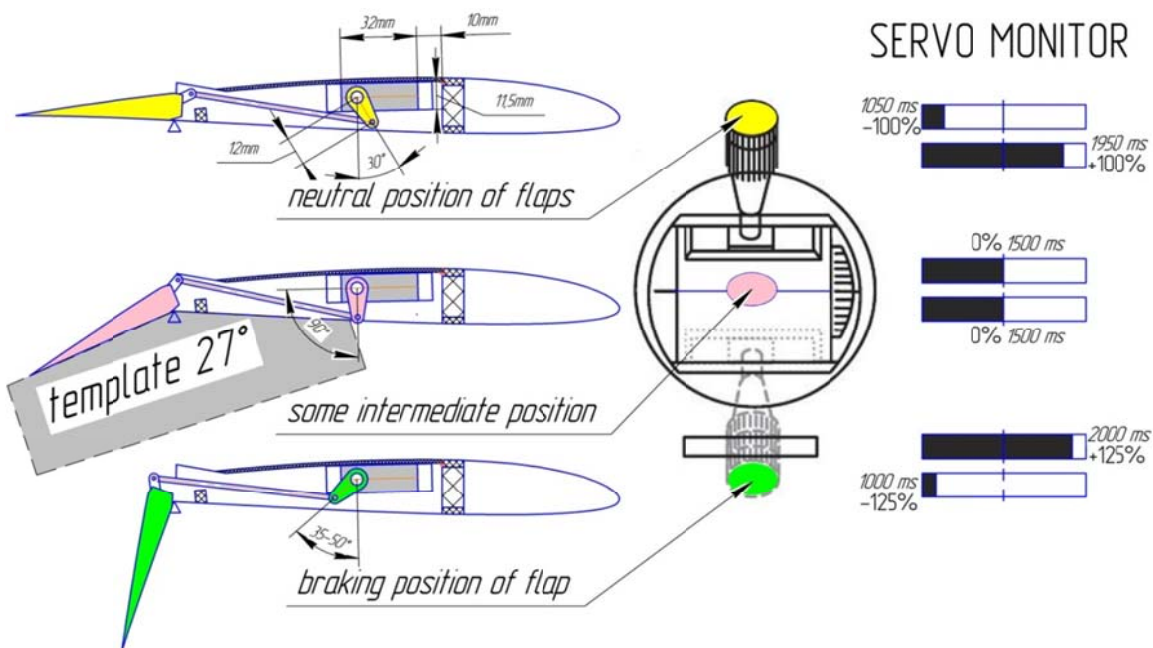
- 18) Until the fully epoxy polymerization fix the servo to the wing with adhesive tape and giving weight (no heavier than 150g).

Flap servo installation

19) Set flap servo frame, applied with epoxy, into the wing.

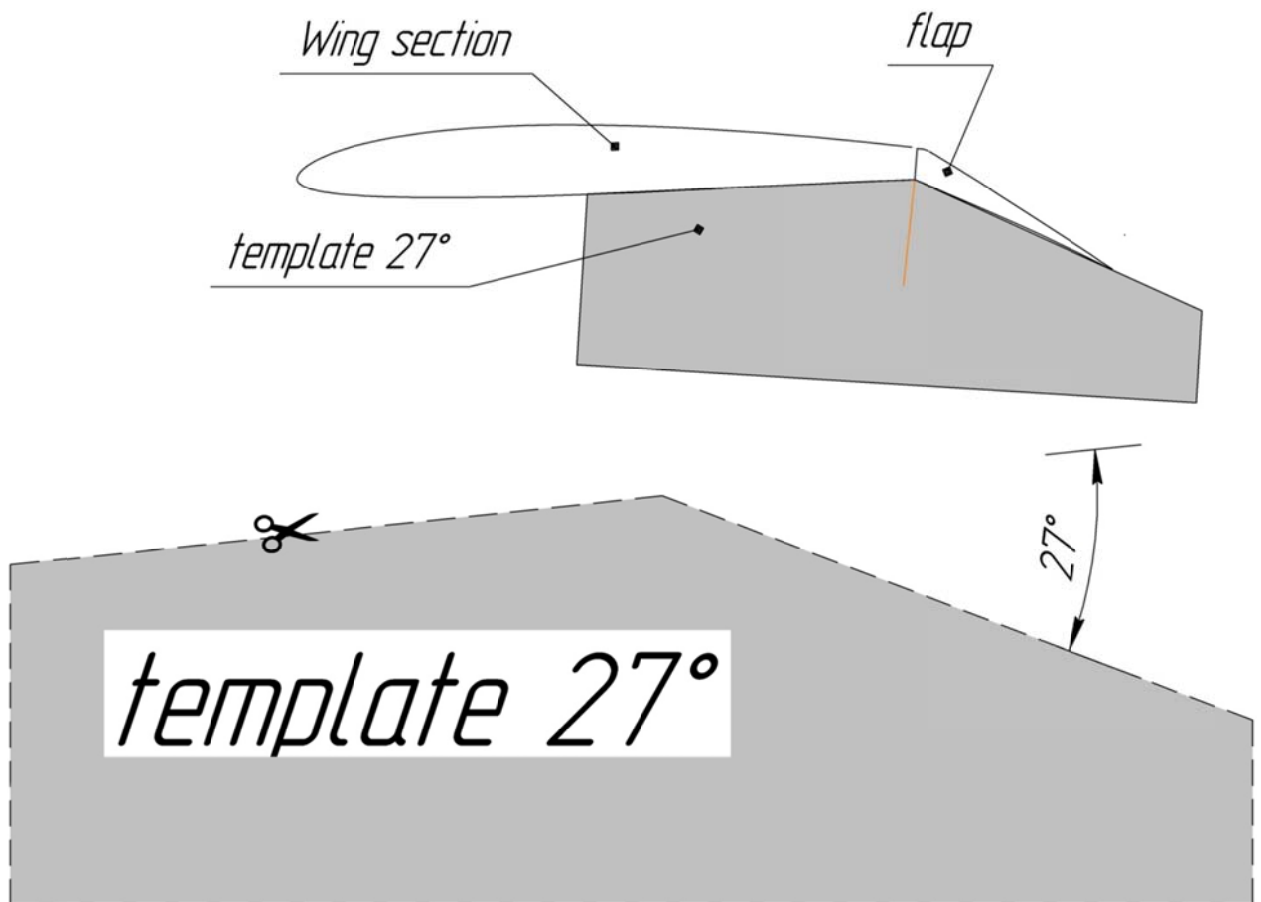
Set a central position servo using servotester or transmitter (Pos 12). In this servo position, move the servo frame so that the flap was the position according to Template 27° (Fig.).

This central position of the servo and flap will ensure the movement of the flap to 10° up and 85° down.



20) Until the fully epoxy polymerization fix the servo to the wing with adhesive tape and giving weight (no heavier than 150g).

LDS servoframe gluing



21) After set up and tests of wing movement, link the servo with the lower surface of the wing, using carbon plate from the kit. Pre-fit the balsa on the carbon plate according to thickness. Use Super Glue for fix the carbon plate.

This additional connection is extremely necessary for provide sufficient rigidity of wing control system.



22) Fix the horn to the aileron by Super Glue.