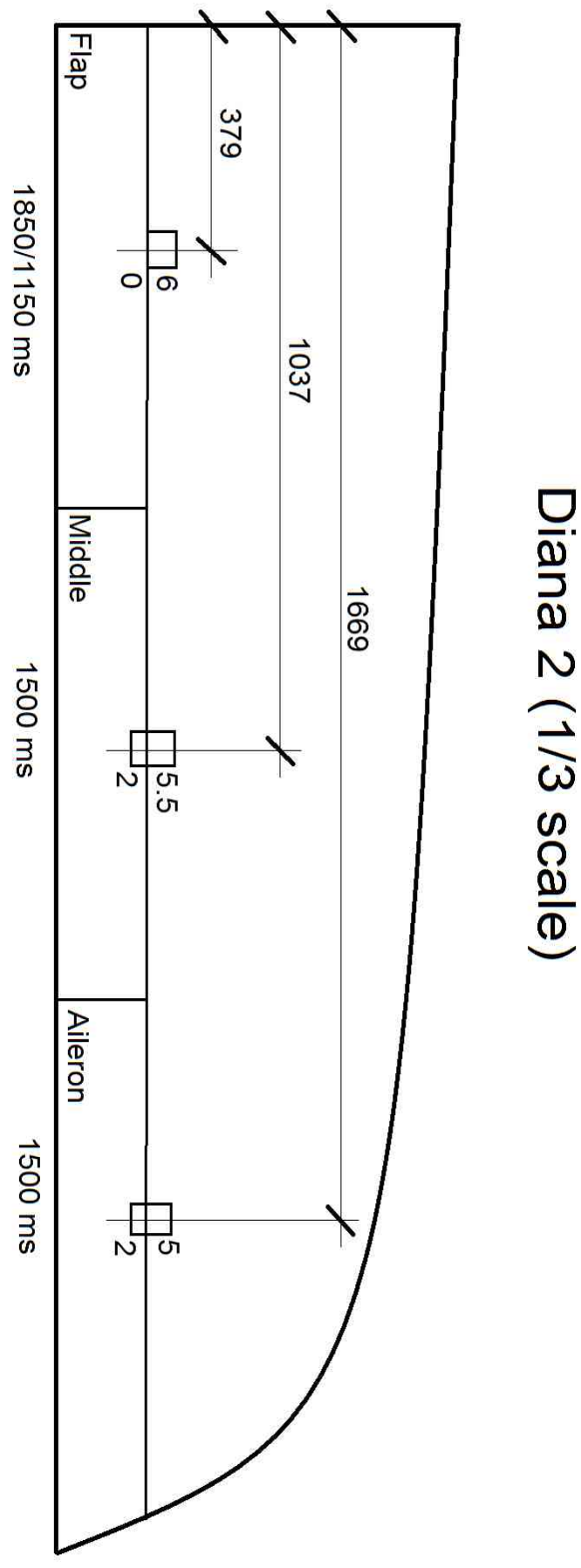
DIANA 2

(1/3 Scale)

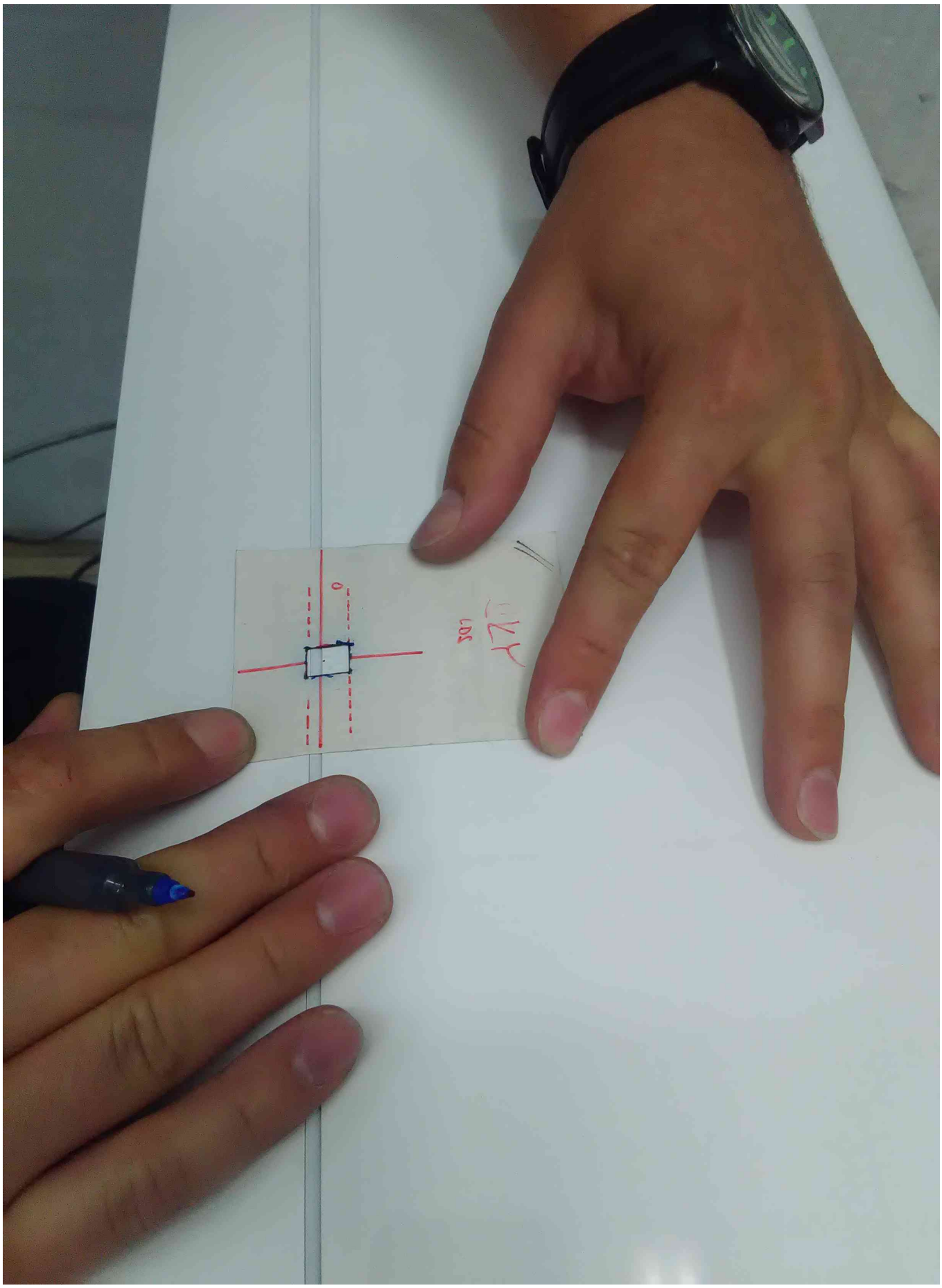
LDS Installation

Baudismodel
www.baudismodel.com
23/06/2017



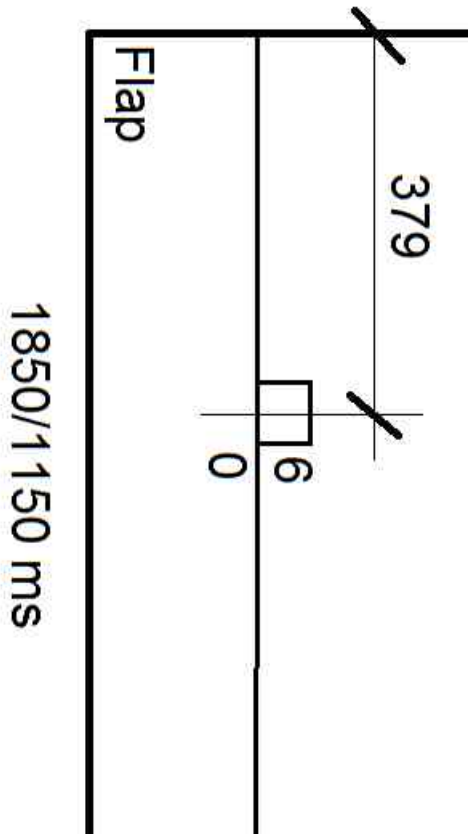
Template of horns and servos position (mm and ms)

Measuring and making a mark in each horn position



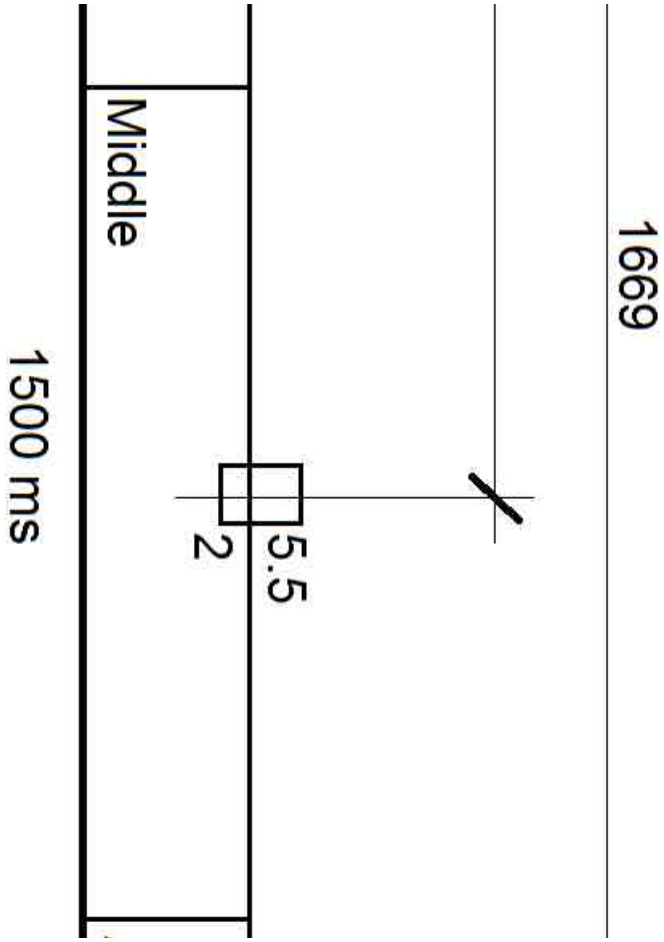
With a template is possible to mark the area to cut

Area to cut for Flaps (6mm in the wing and 0mm in the flap)

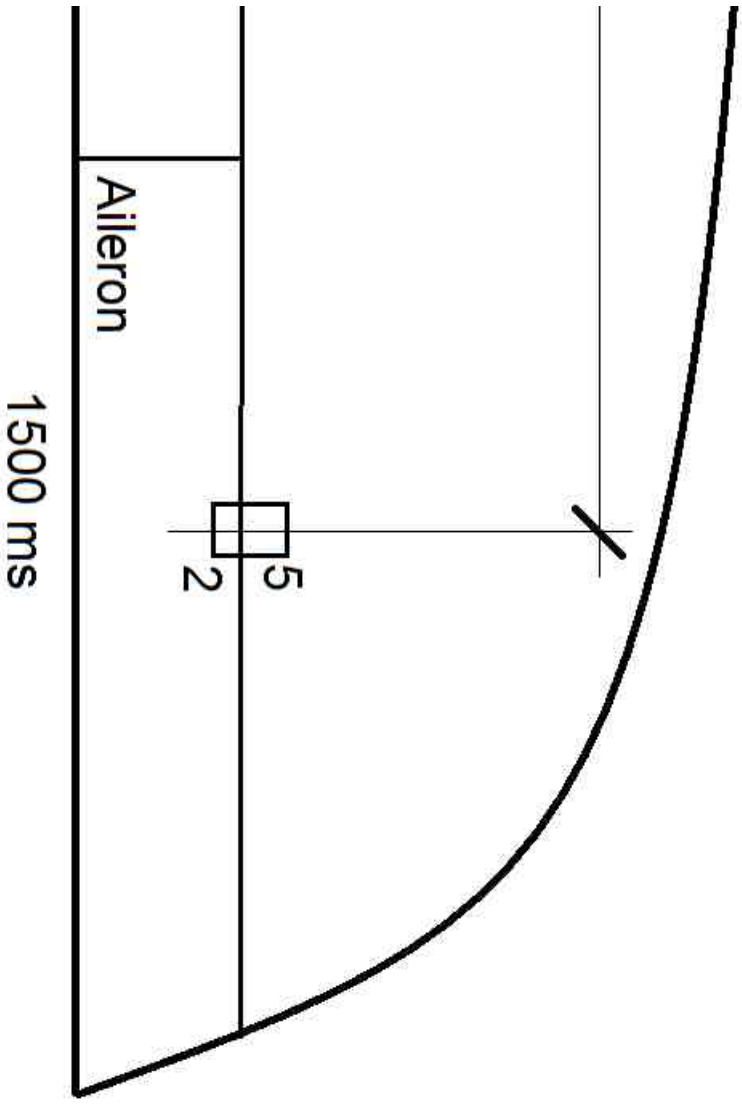


Area to cut for Flaps (6mm in the wing and 0mm in the flap)

Marking 6mm exactly



Area to cut in the middle flap (5.5mm + 2mm)

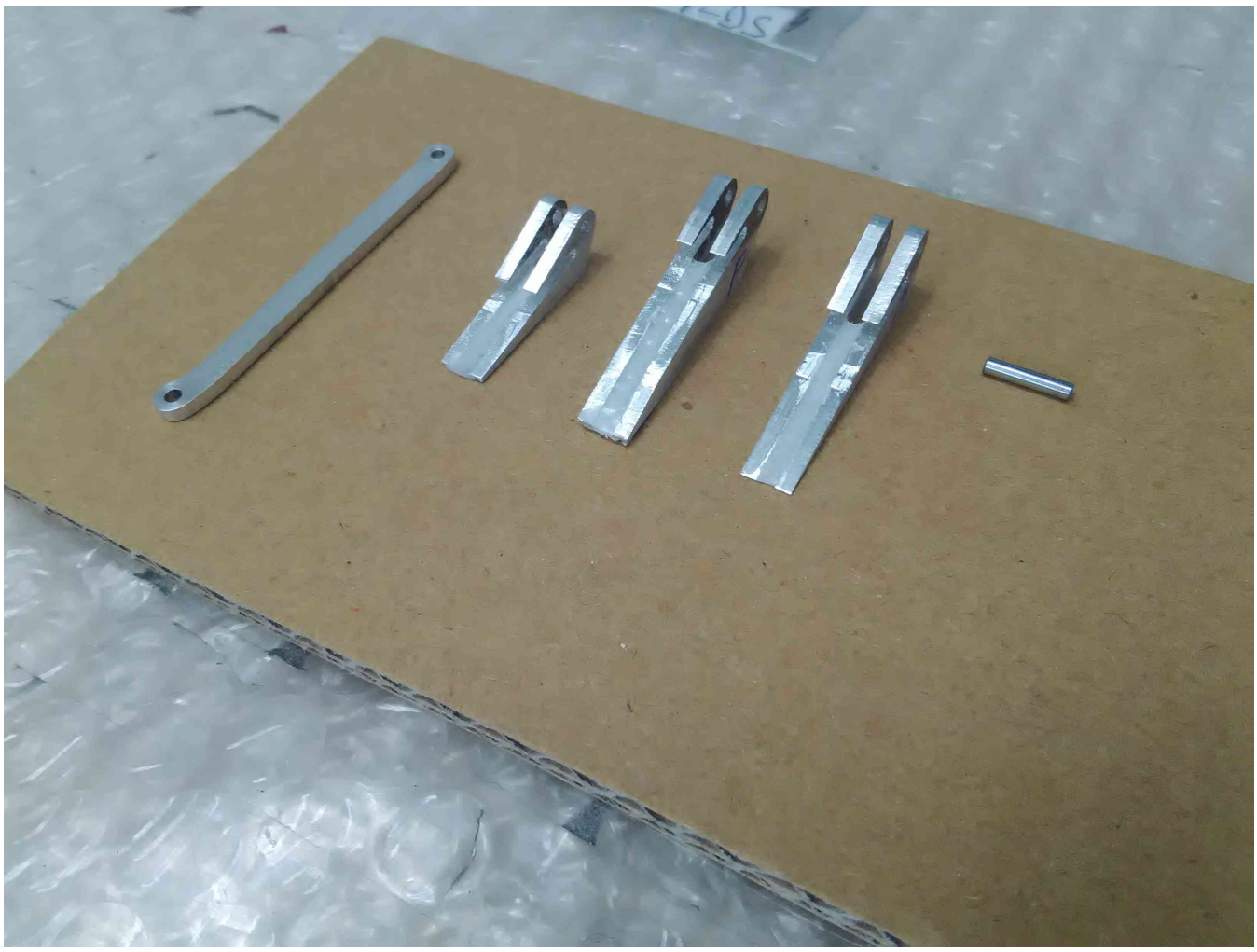


Area to cut in aileron (5mm + 2mm)

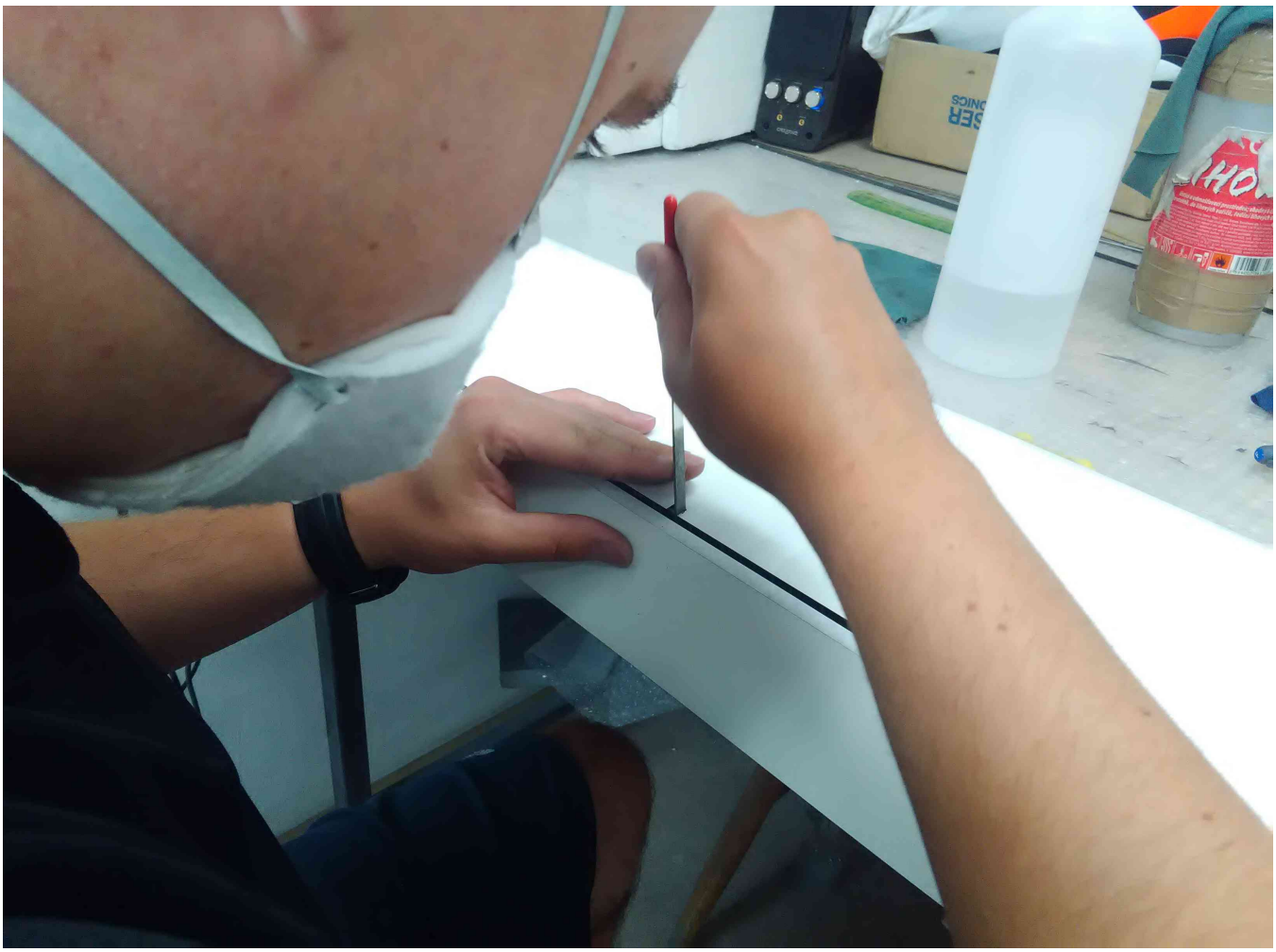
Marking the aileron cut limit

Area to cut

Cutting the pieces

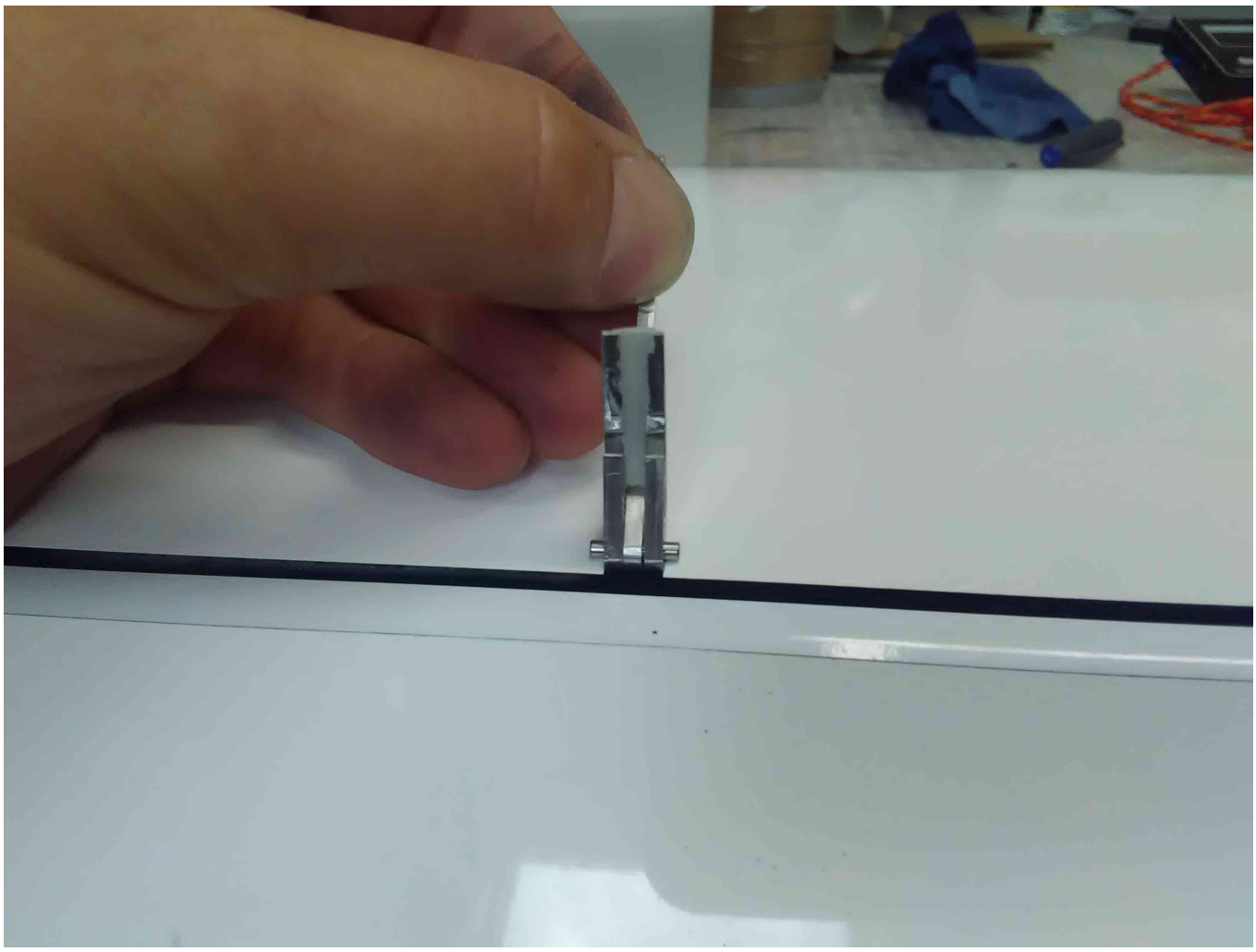


Preparing the horns



Adjusting the cut areas to horn's dimensions

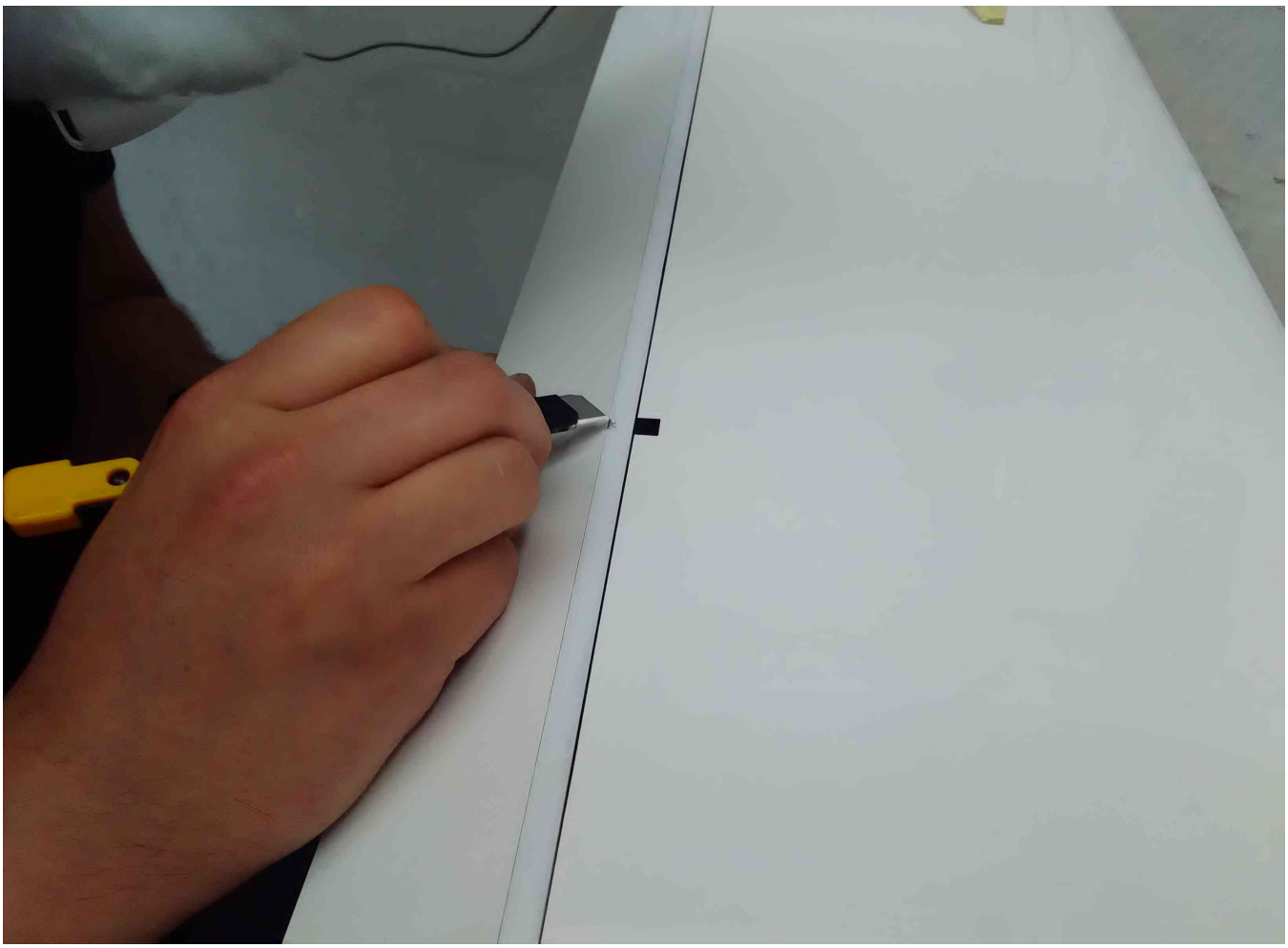
Comparing the horn with the cut area



Comparing the horn with the cut area

Preparing for cutting the foil cover

Cutting the foil cover

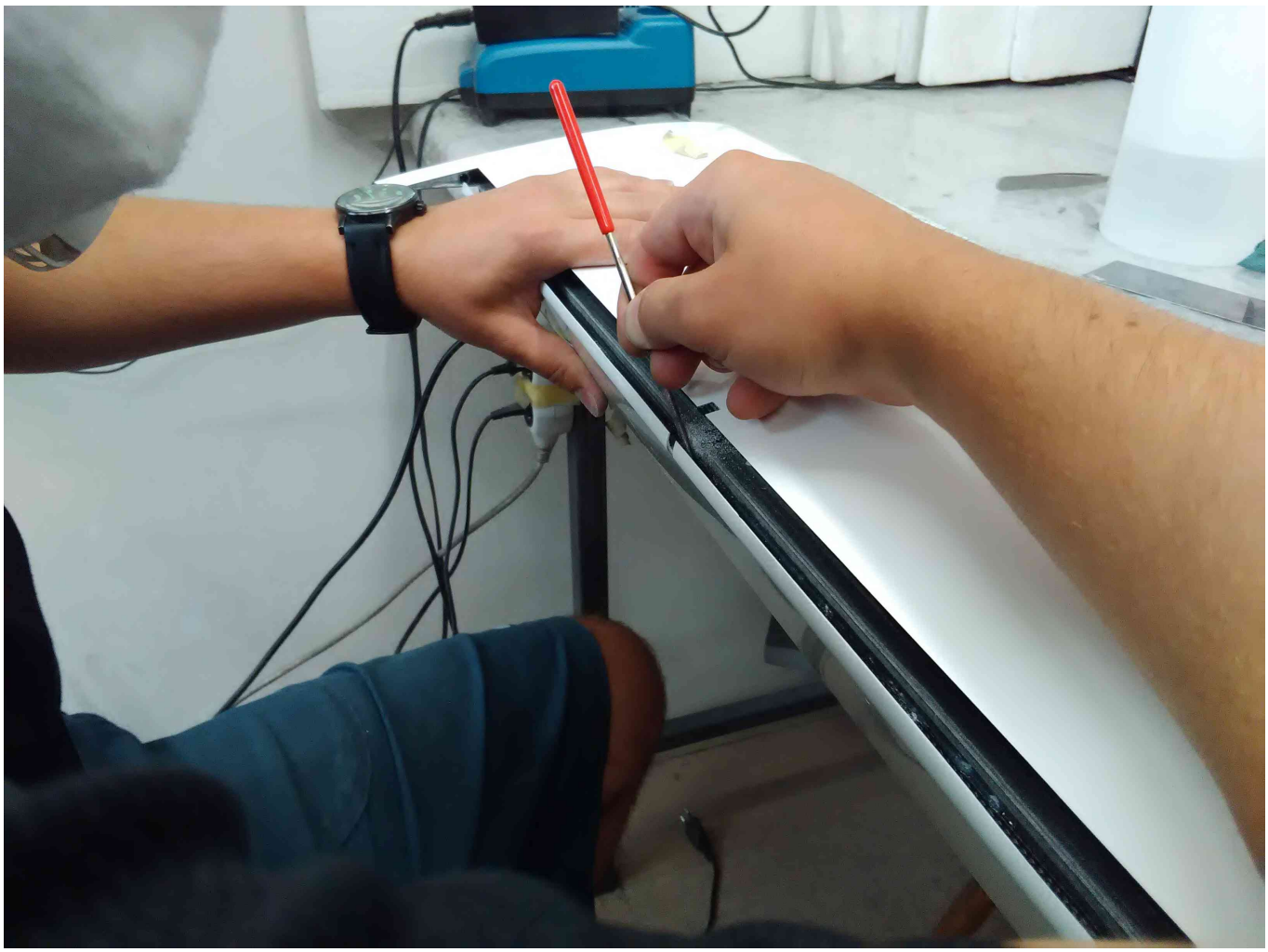


Removing the cut foil cover

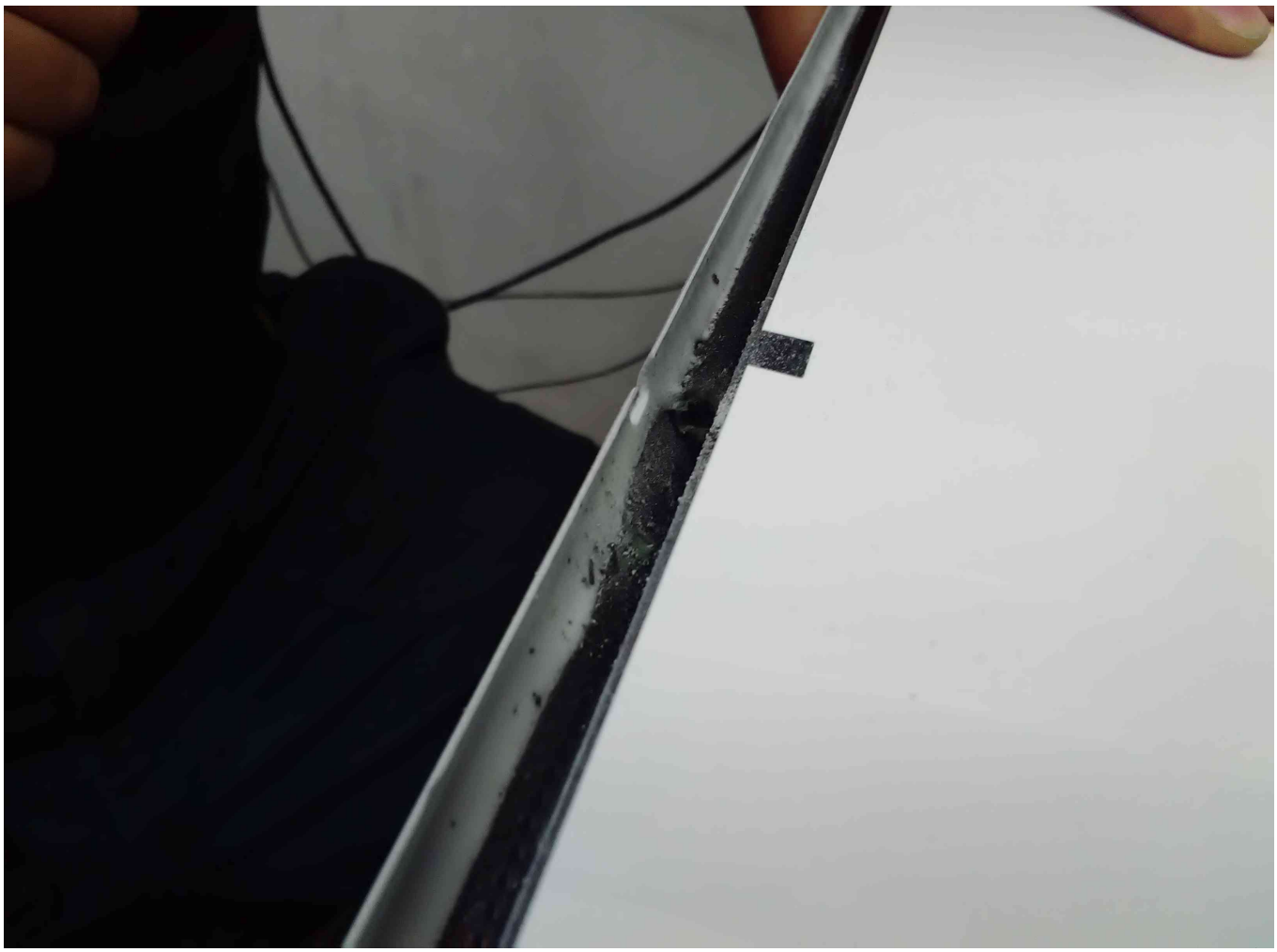
Aspect of the cut foil

Cutting the flap's hinge feature

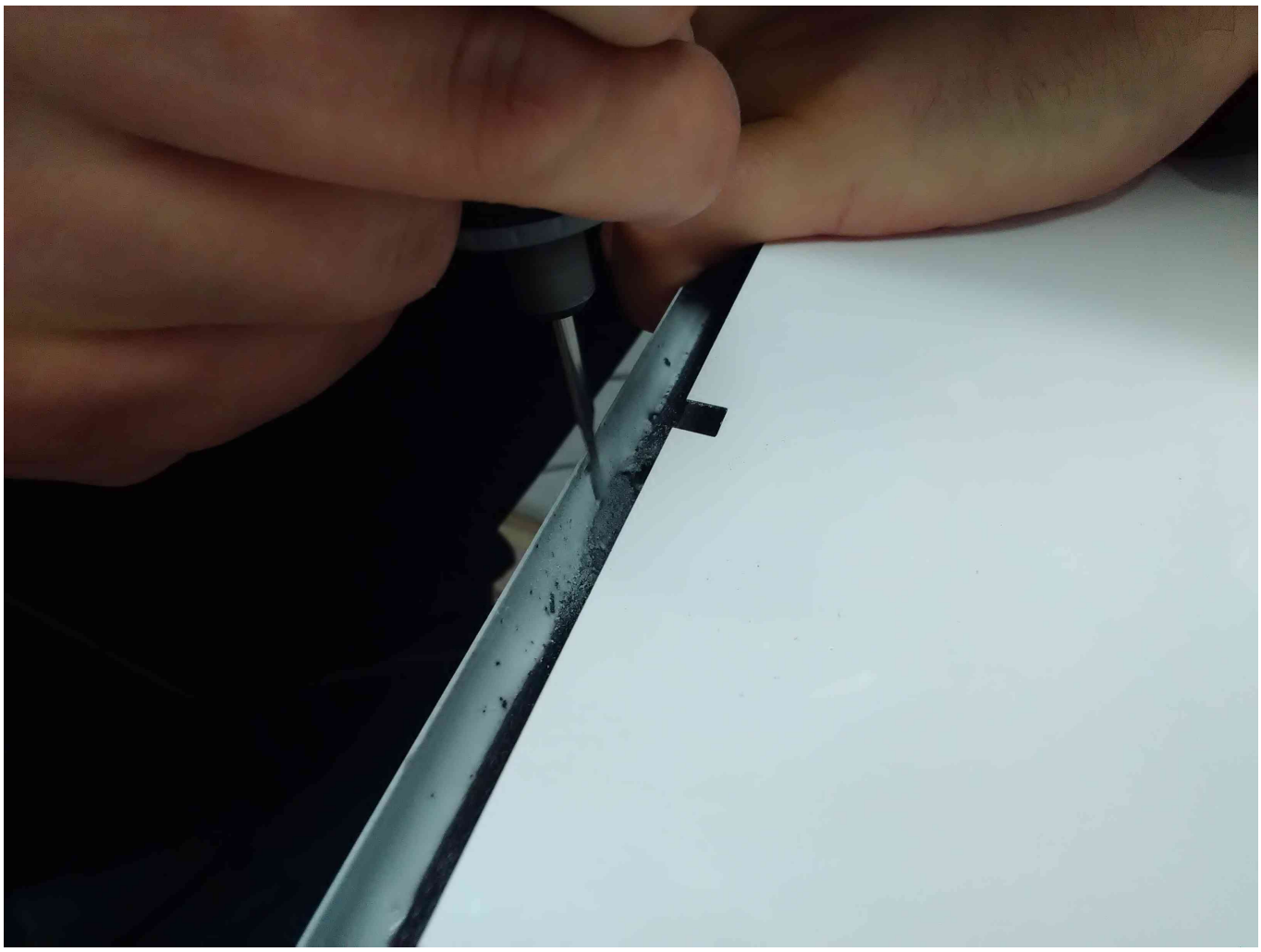
Final aspect of everything prepared



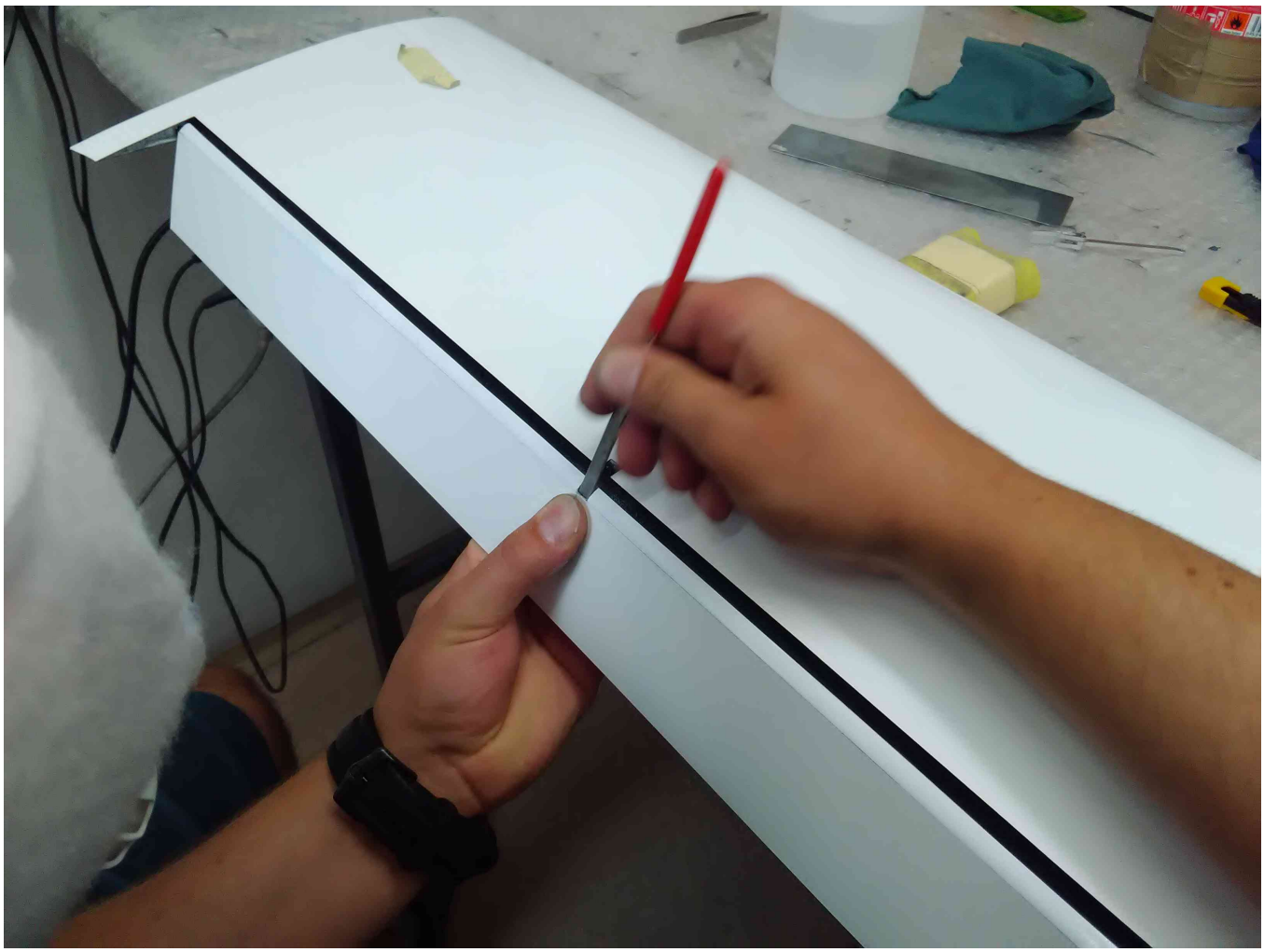
Smoothening the inner part to not to have problems when glueing with the epoxy bag



Aspect of the interior part of the flaps/ailerons

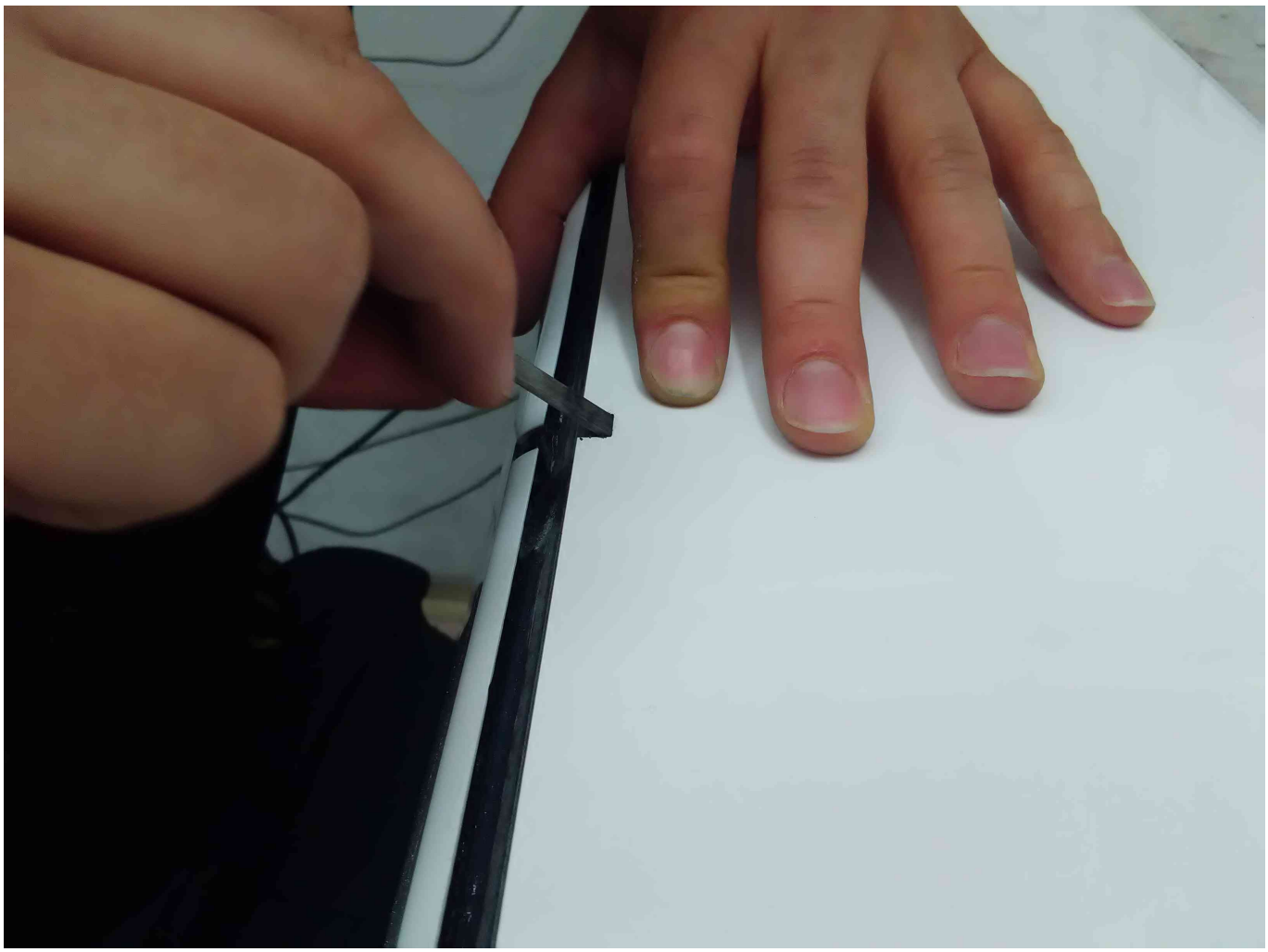


Preparing the interior of the flaps/ailerons to accommodate the horns

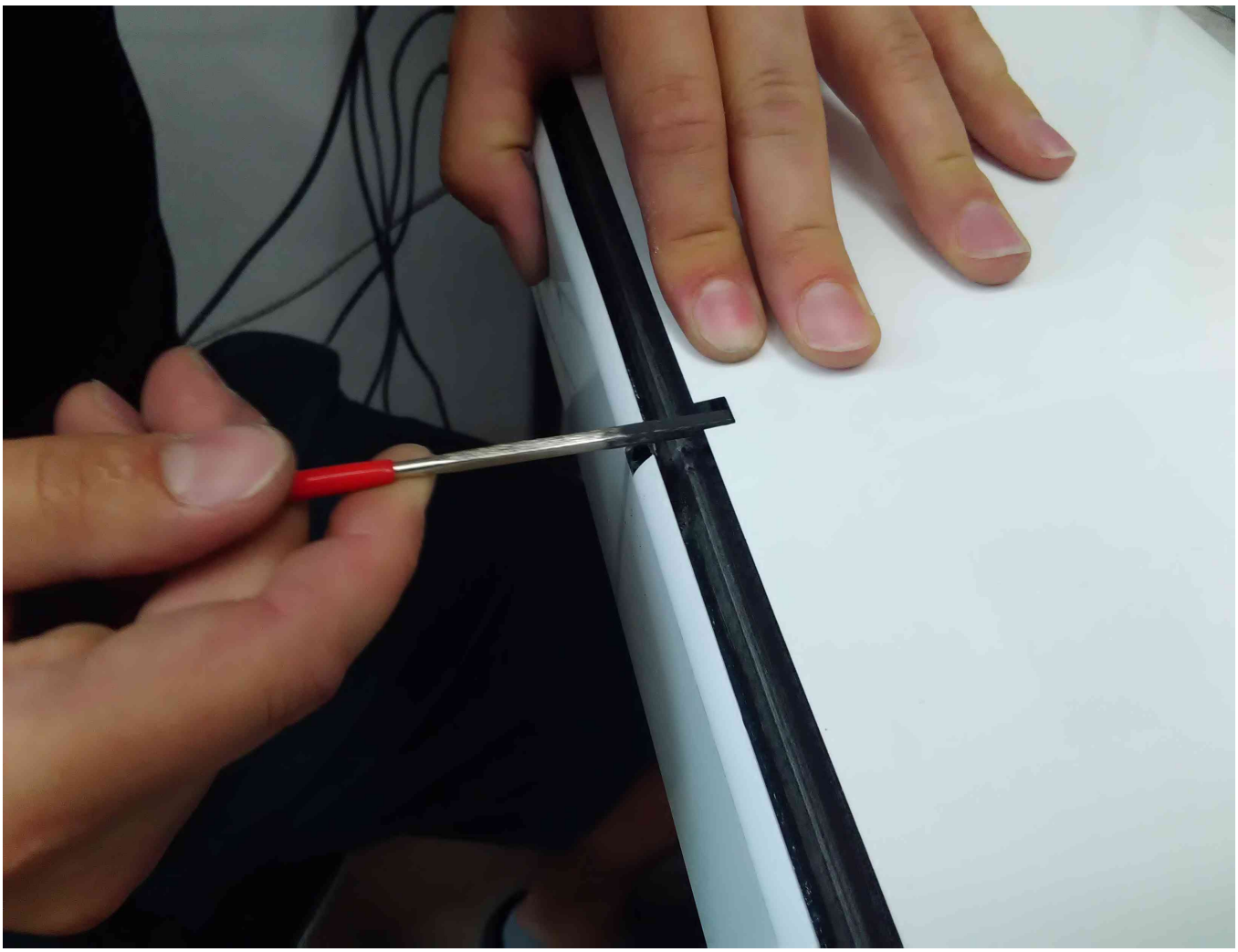


Idem

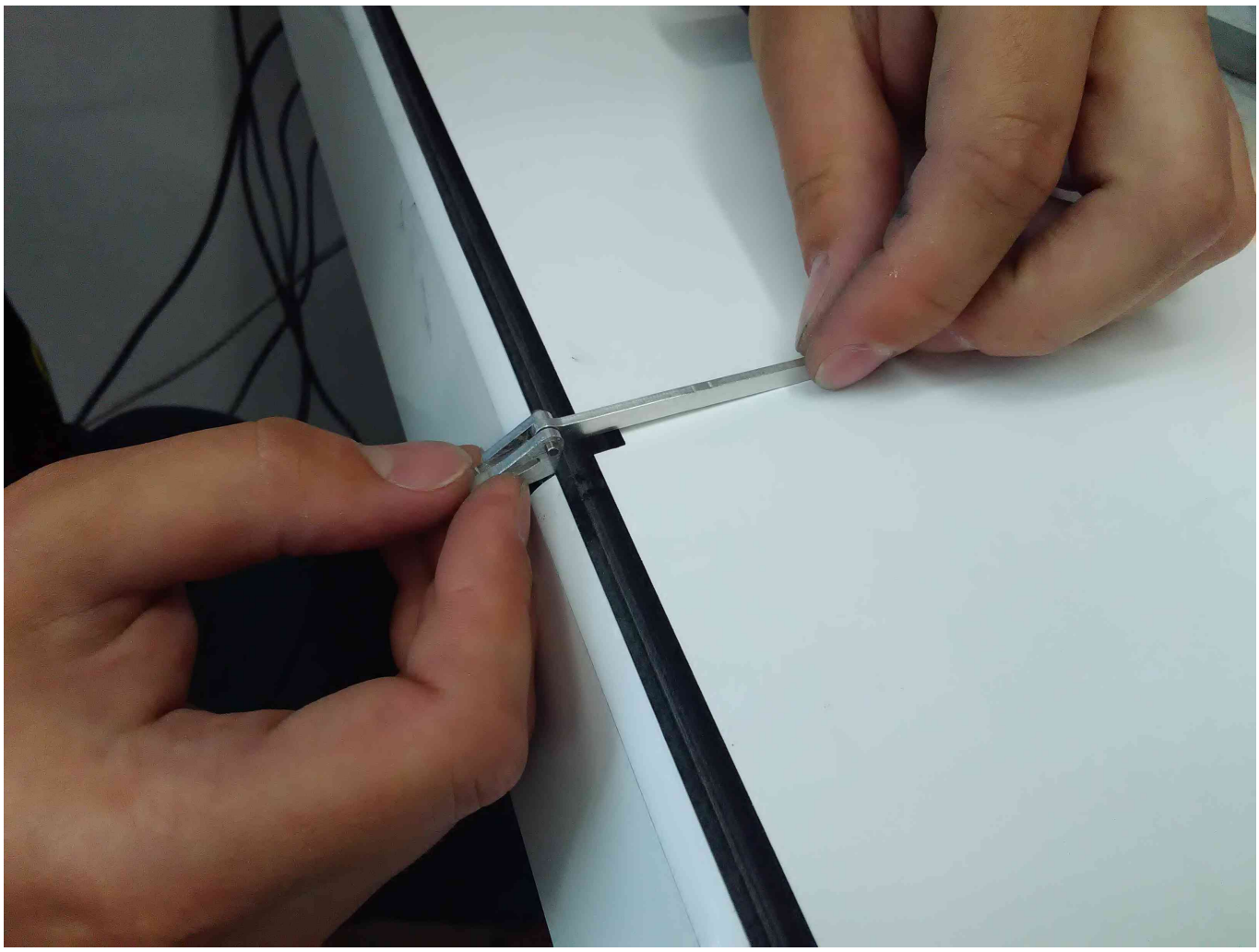
Final aspect of the interior of flaps/ailerons



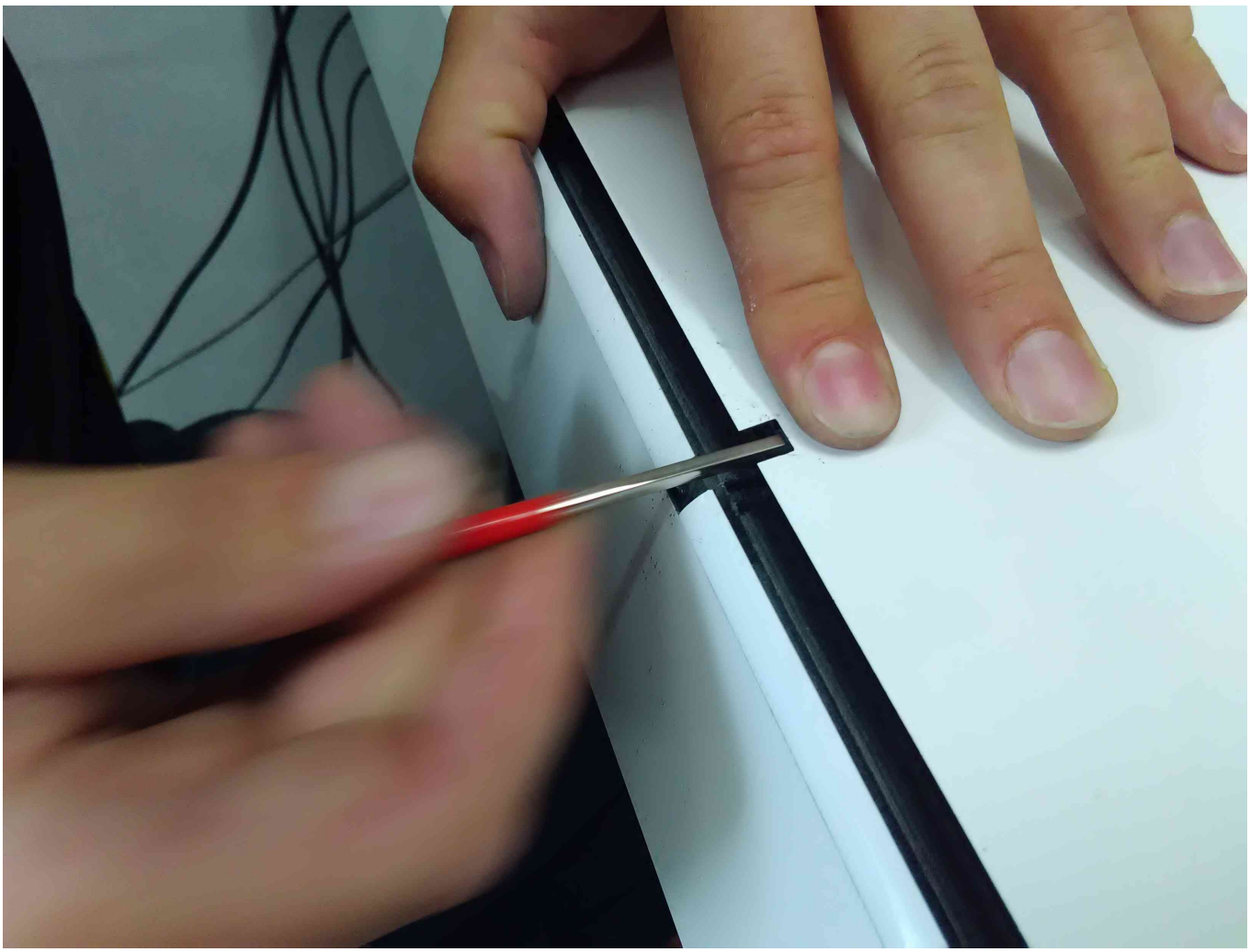
Accommodating the interior of the wing for LDS system



Idem

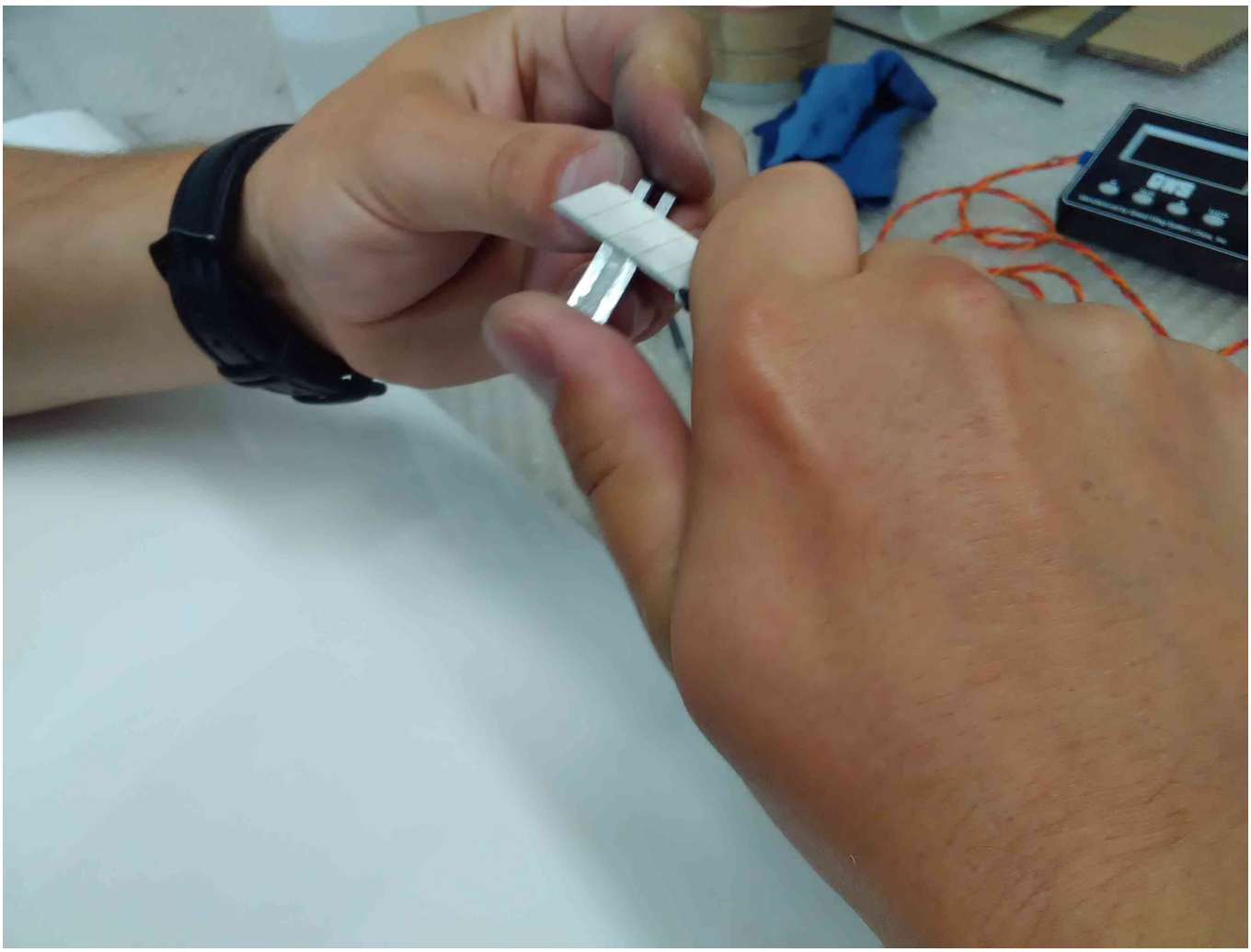


Presenting the LDS

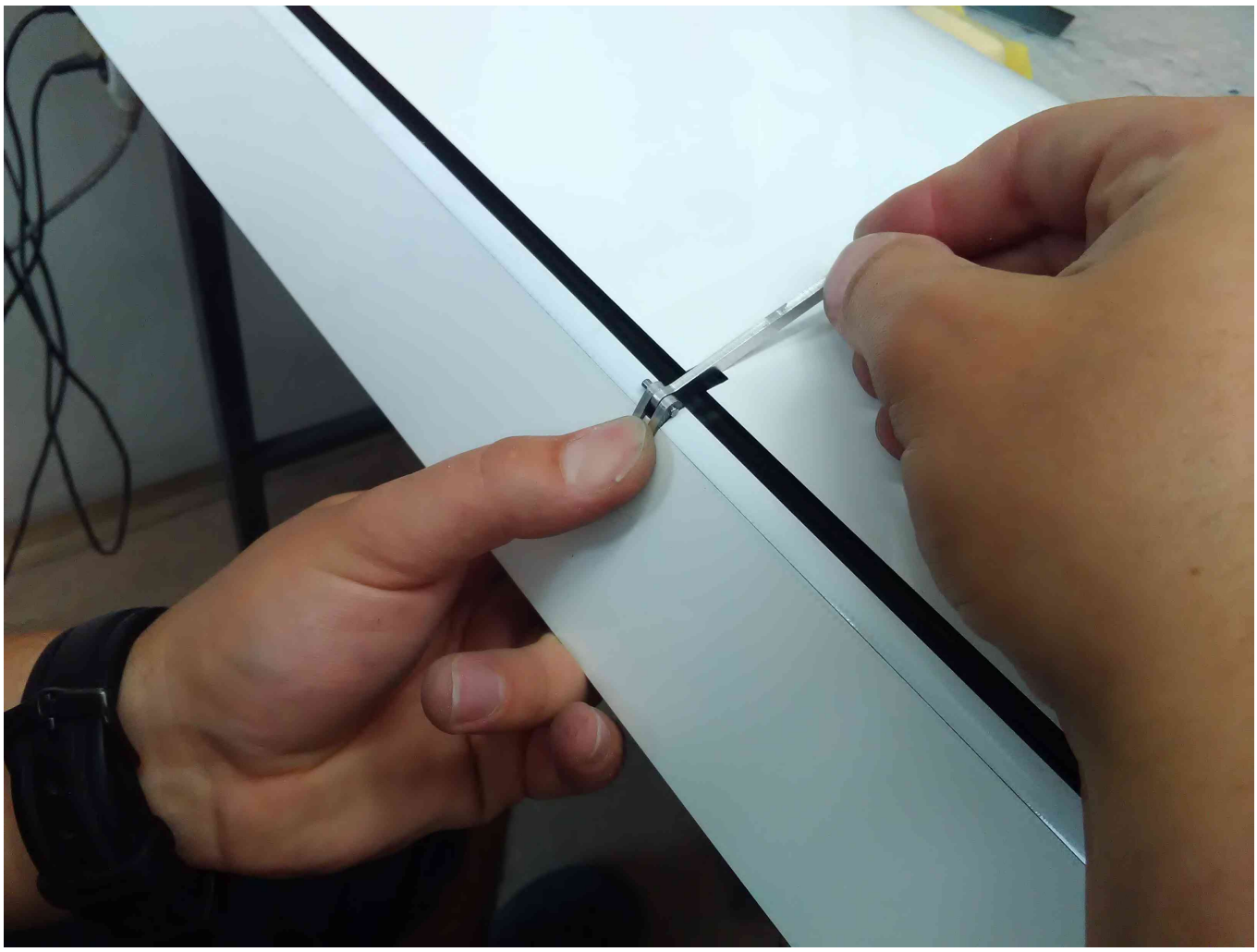


Continue with accommodating the wing

Final aspect of the wing

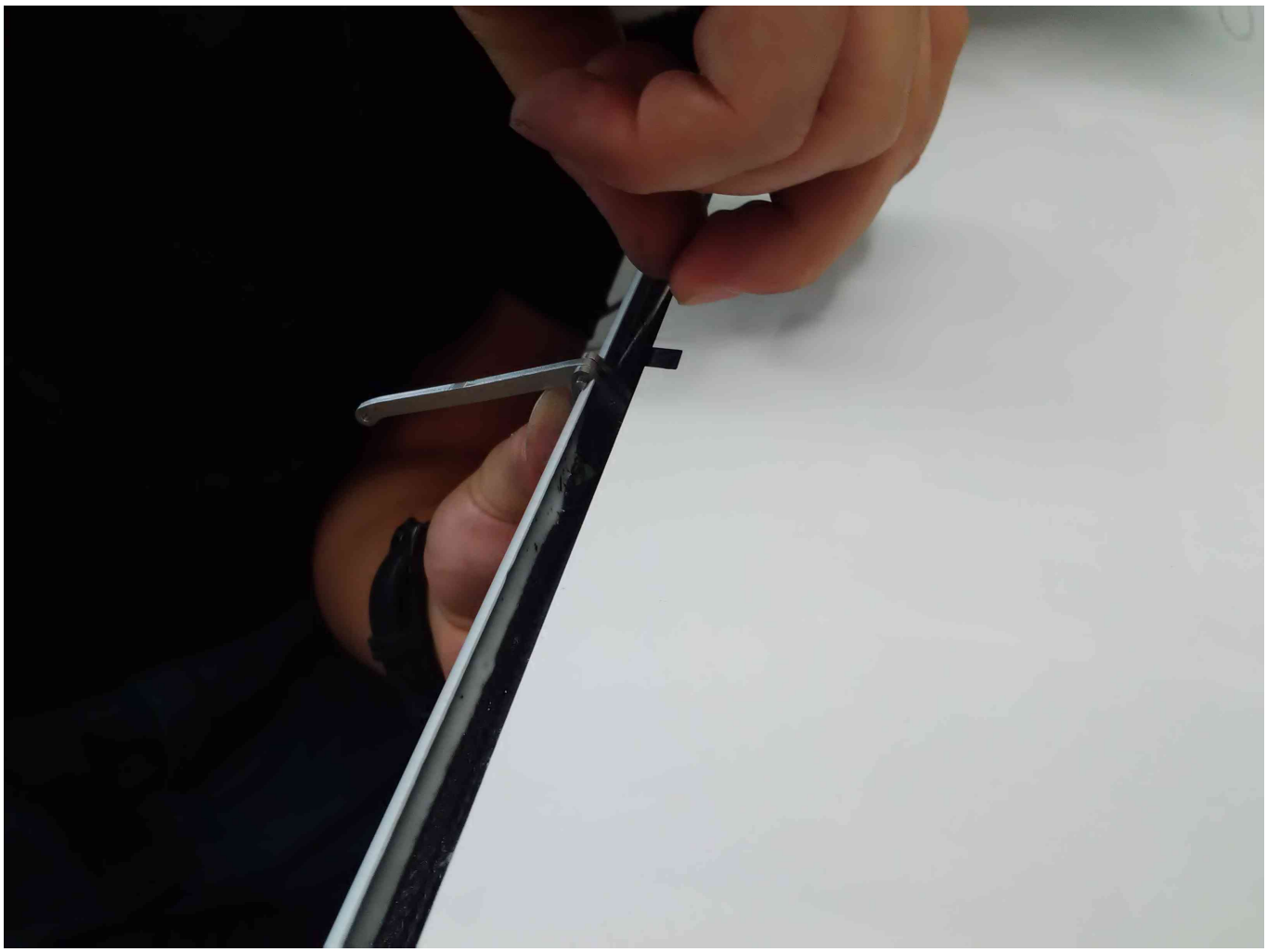


Preparing the horns for installation

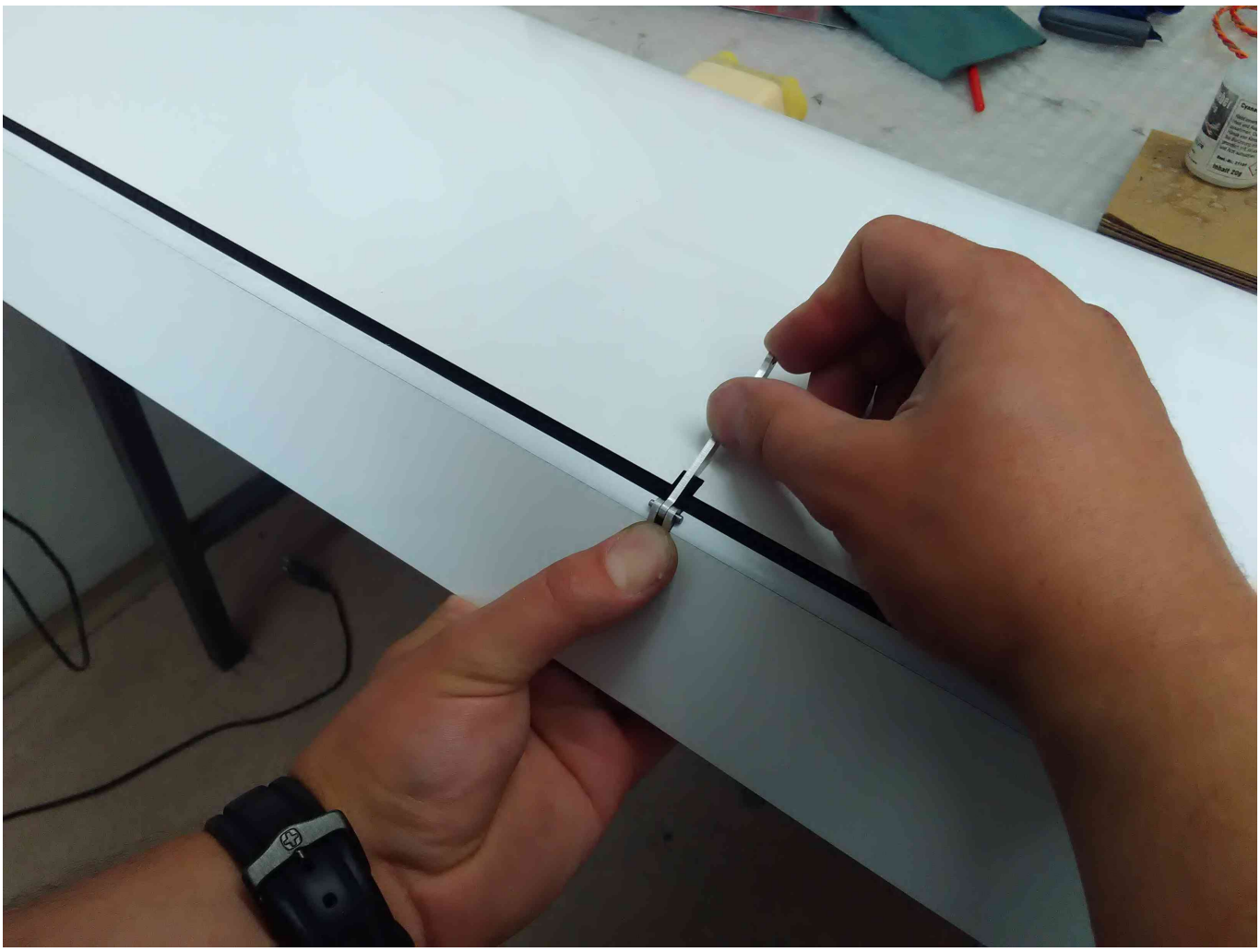


Presenting the horns in the wing/flaps/ailerons

Preparing a drop of fast glue to temporary fix the horns



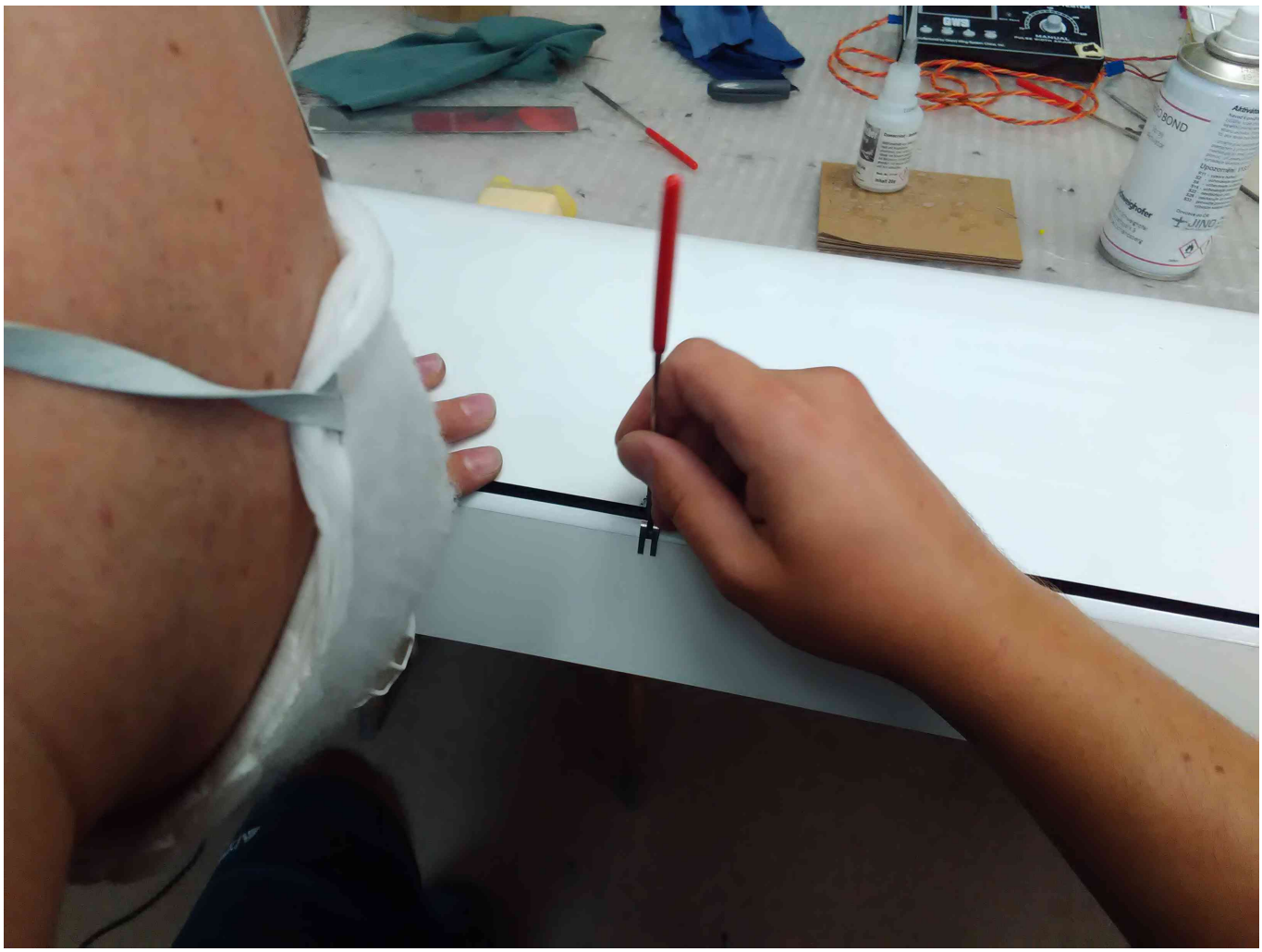
introducing the glue with a tool



keep horns in perfect position until glue is hard

top view of LDS in its perfect position

Checking if the hole in the wing is enough to accommodate the horn

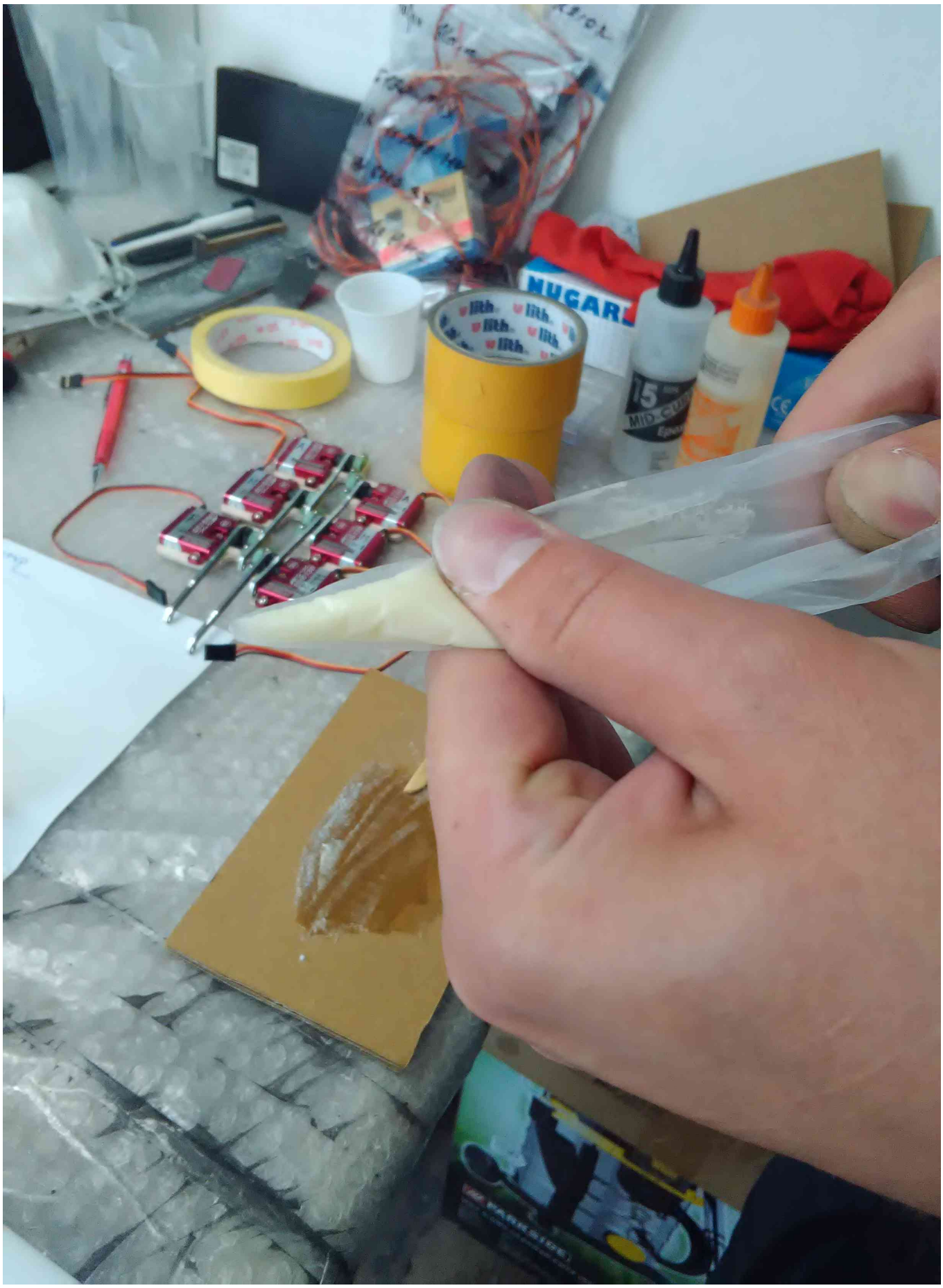


Making fine adjustments to the wing

Perfect installation of the horn

Prepare 15 min epoxy to temporary fix the horns

mix it with cotton

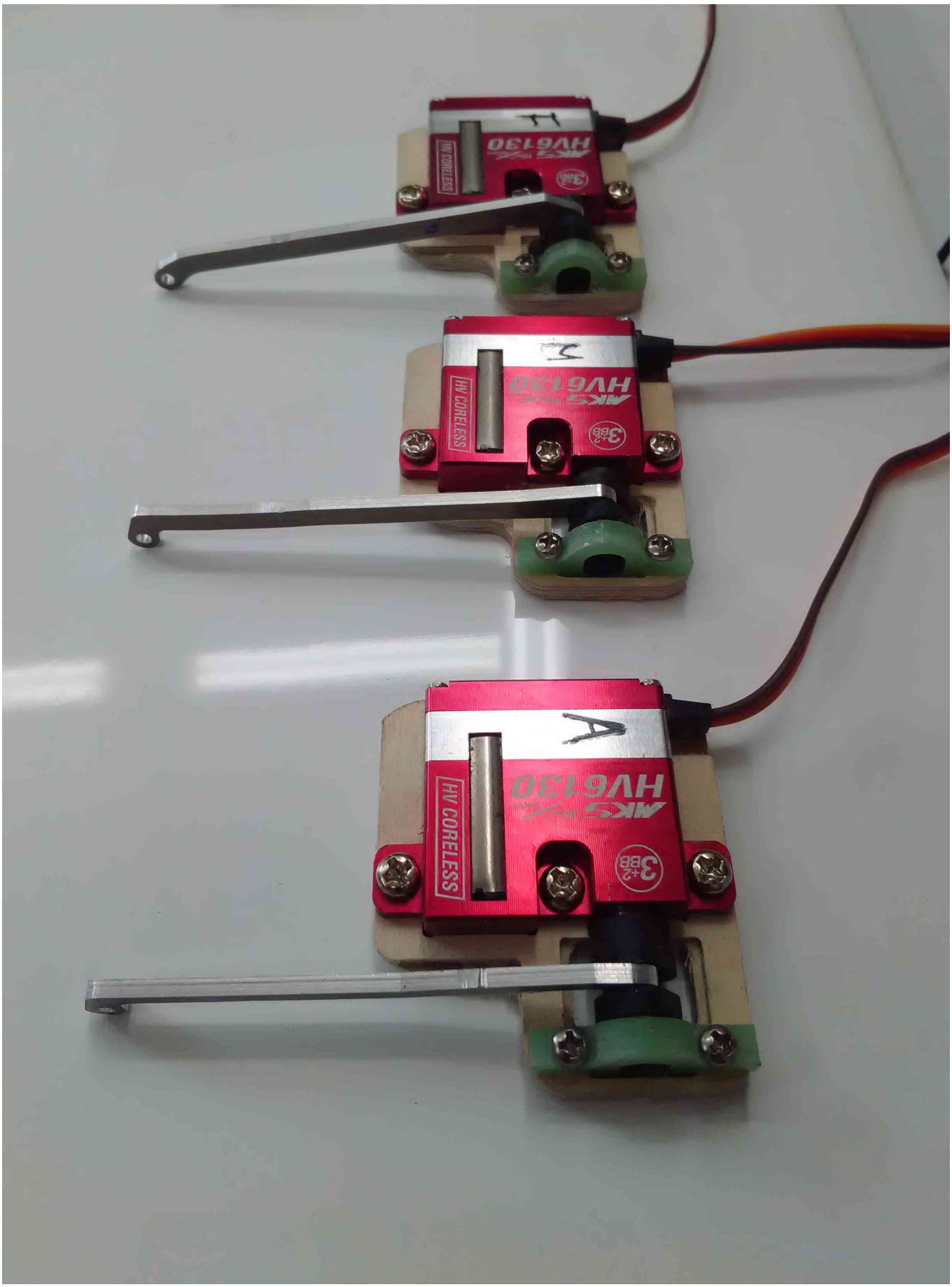


put it inside a triangular shape bag for easy dispenser

Apply epoxy to the lateral of the horns

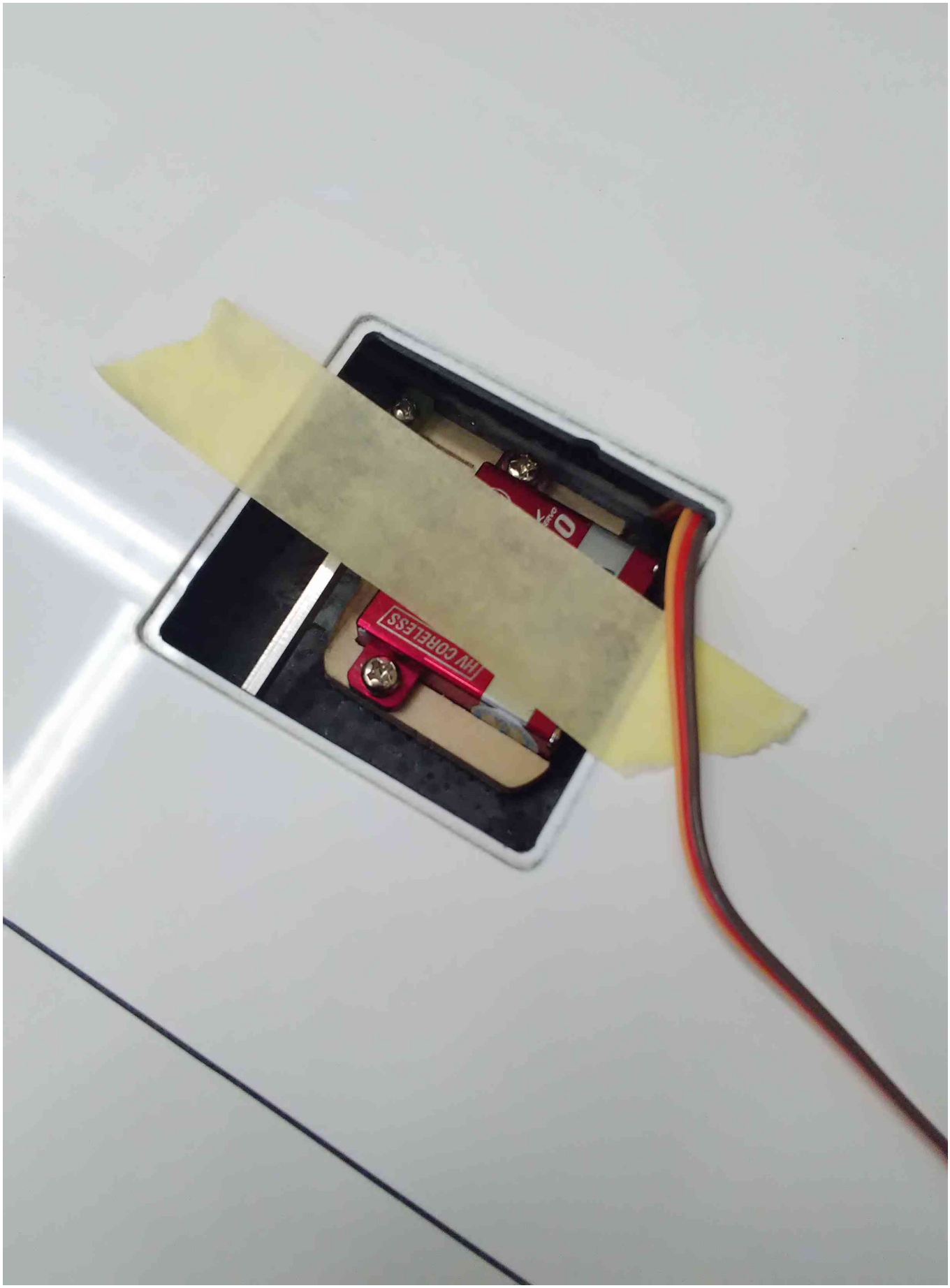
Repeat this operation for all horns

Everything is ready for the last step of glueing permanently the horns



Next step is to install the servos

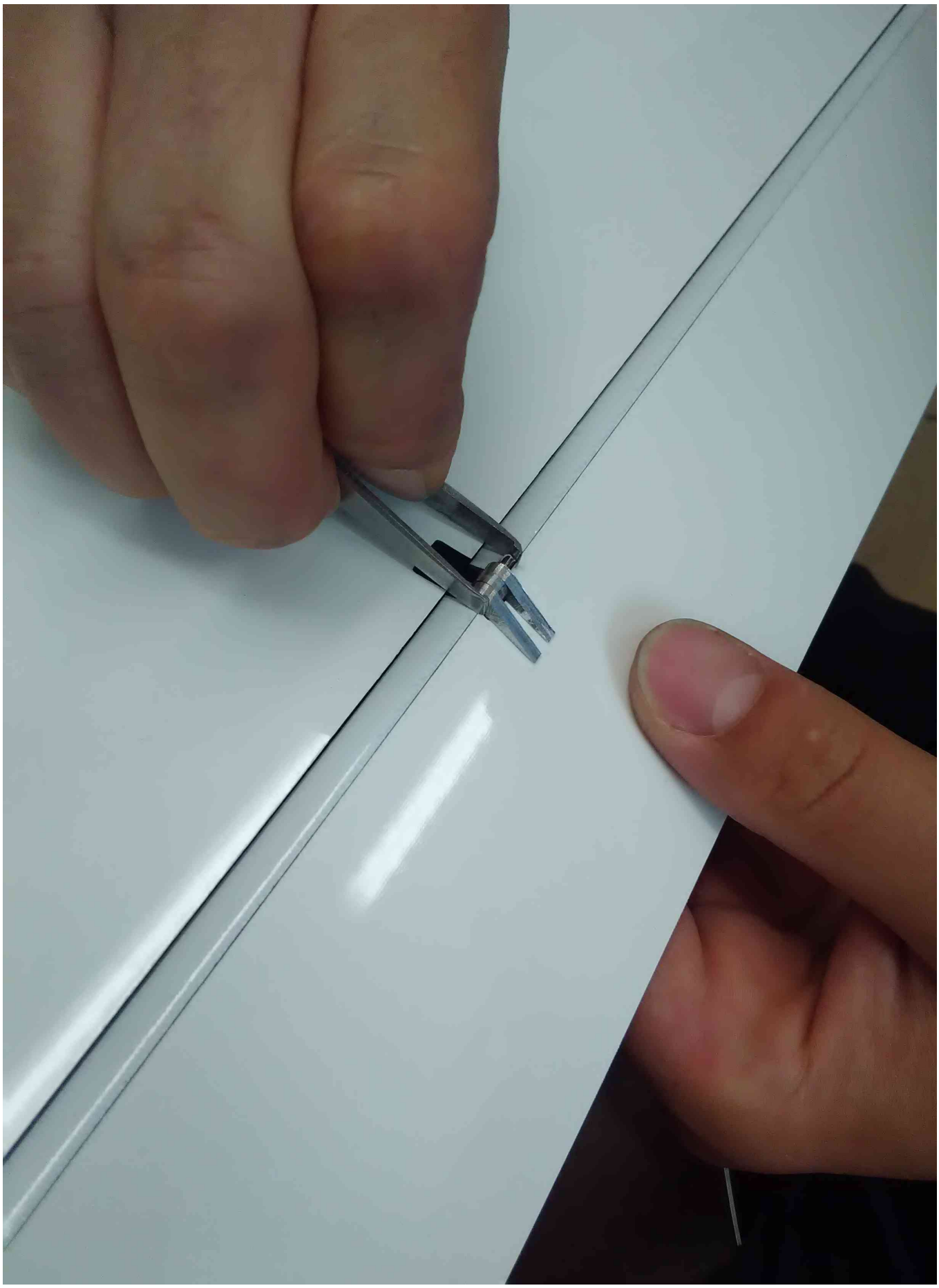
Place all servos in their position



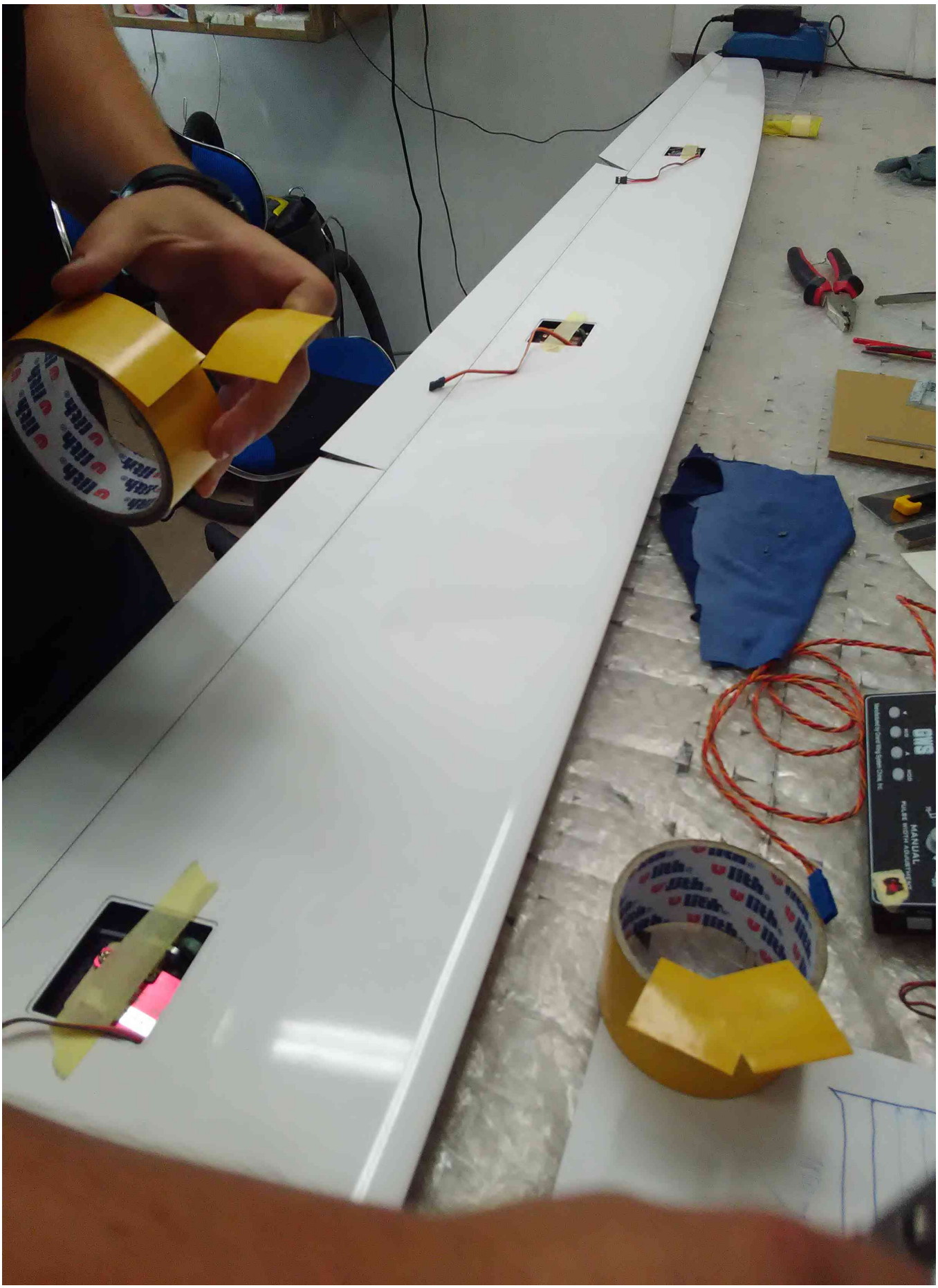
With a tape, fix them to not to fall off when you manipulate the wing

View of the wing with the tape installed

Clean all pins for installation

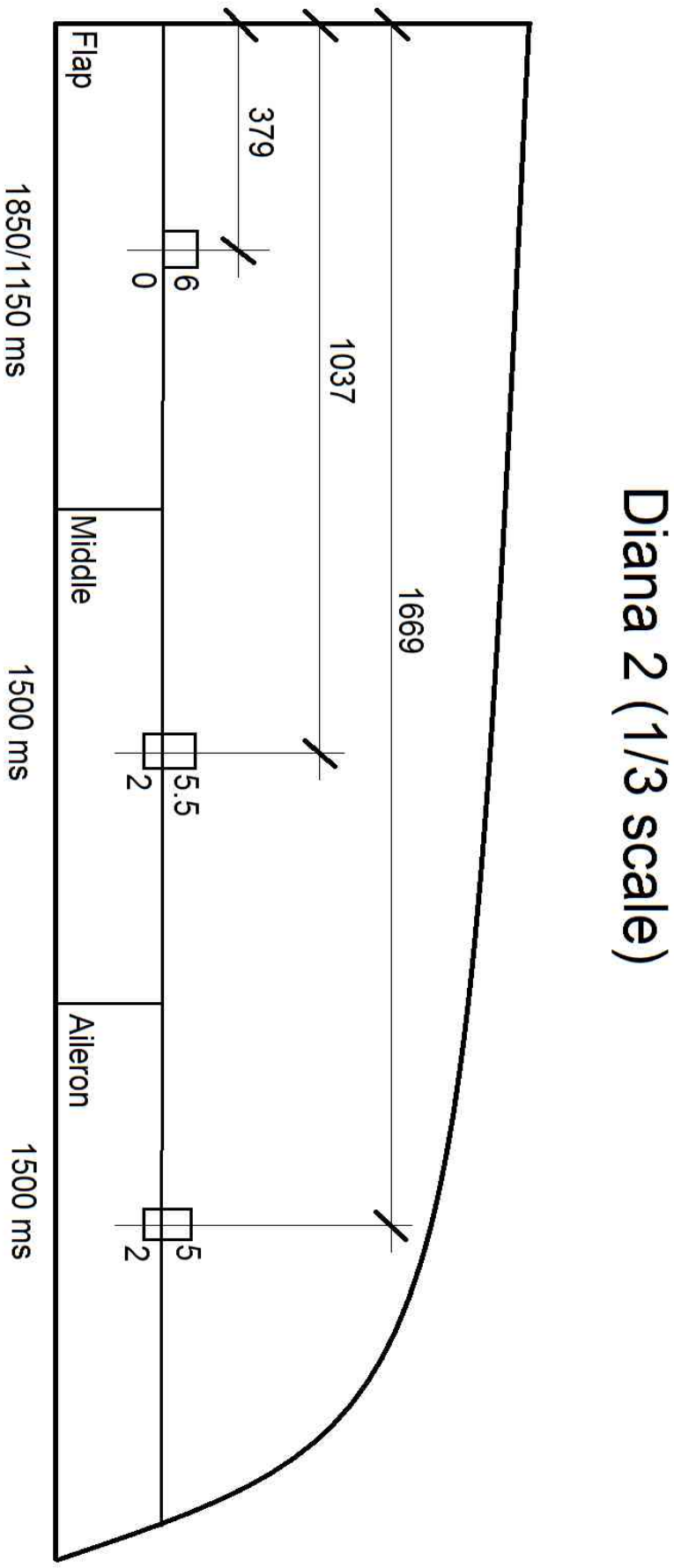


Connect all servos LDS's to the horns



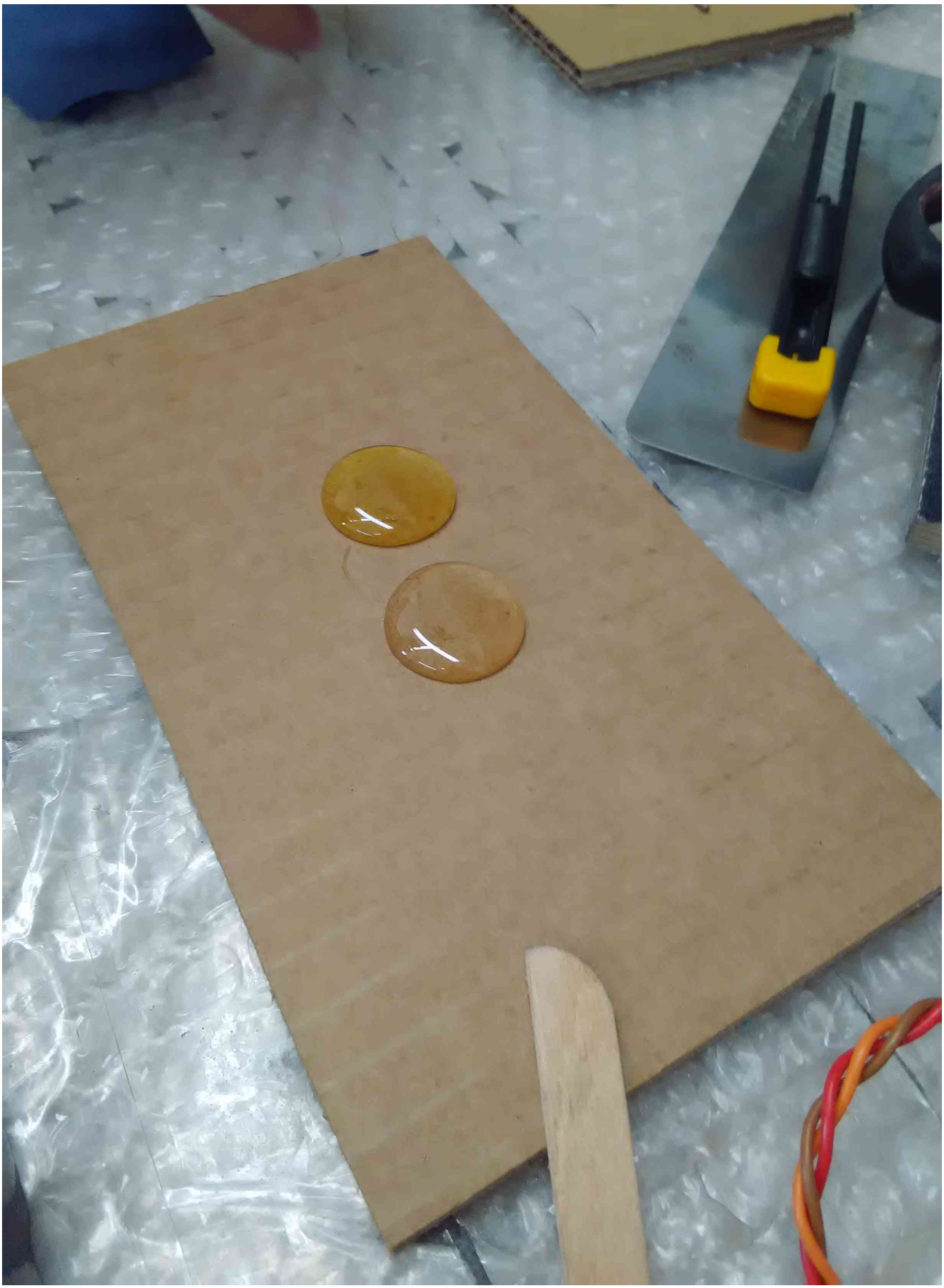
Prepare some tape to fix the flaps/ailerons to neutral position

Use a servo driver to place the servos at specific position



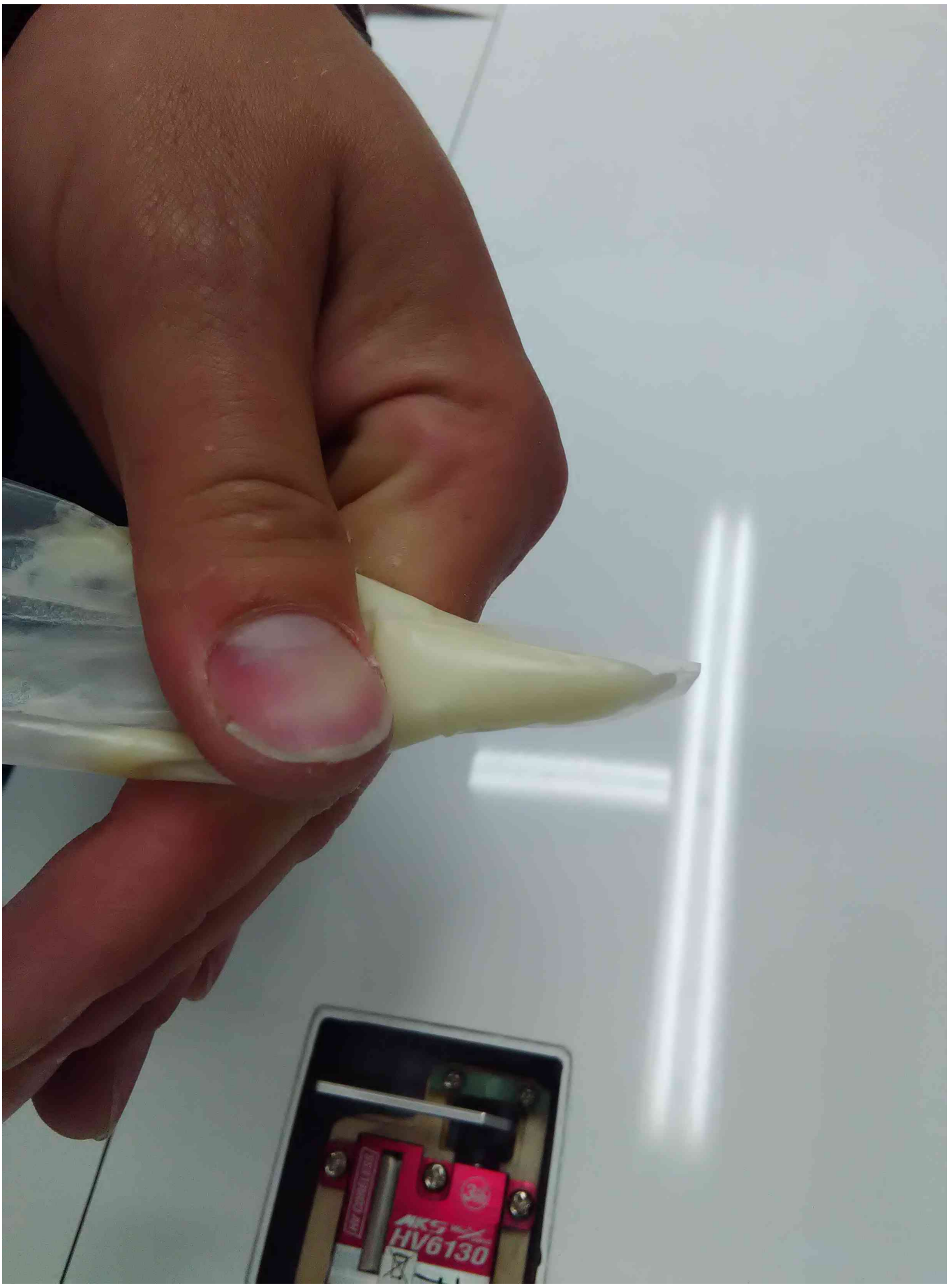
Schematic of neutral position for all wing servos in ms.

Prepare 15min epoxy to fix one servo at a time



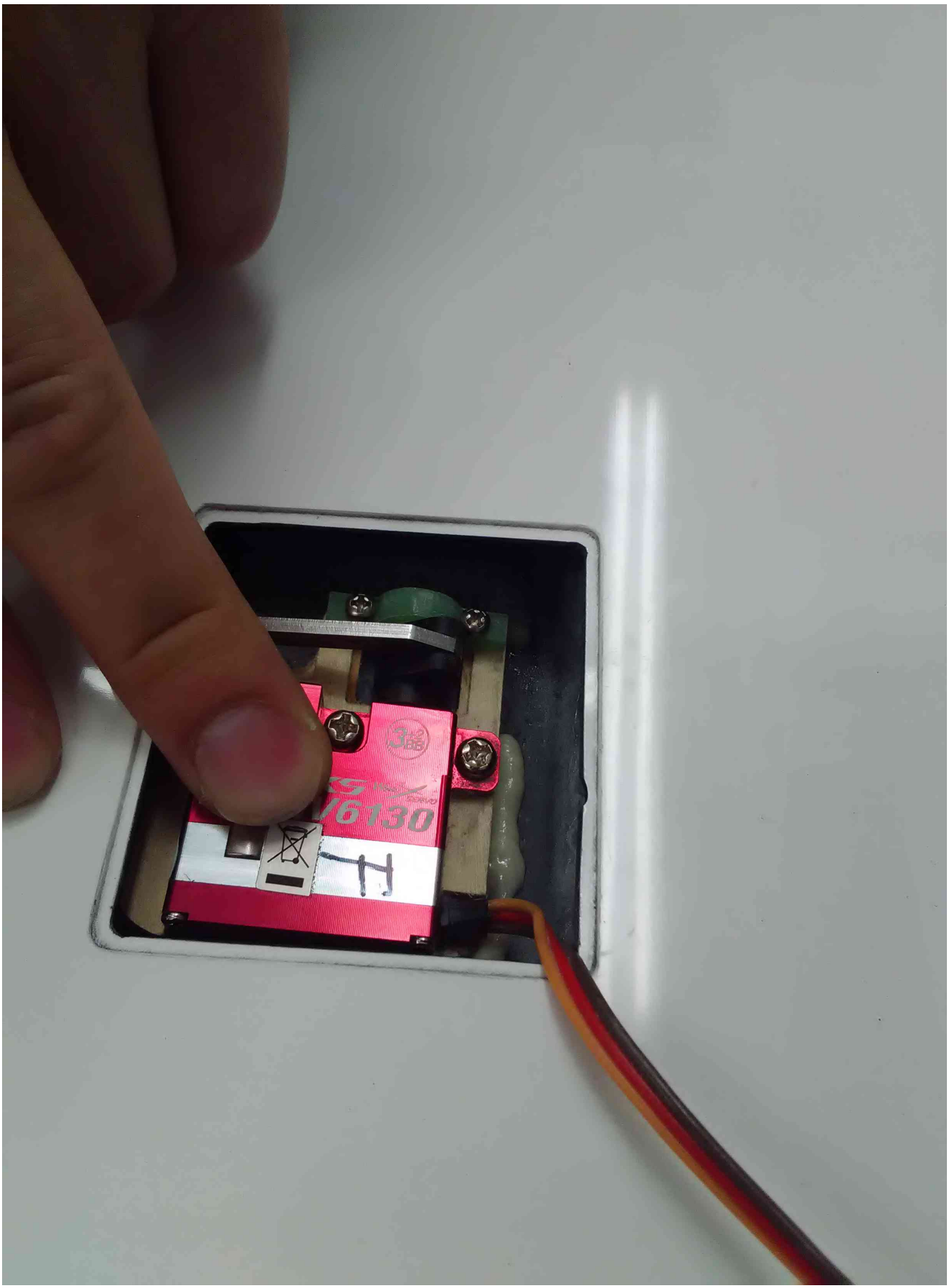
Quantity of epoxy to prepare

mix the epoxy with cotton to have a consistent glue

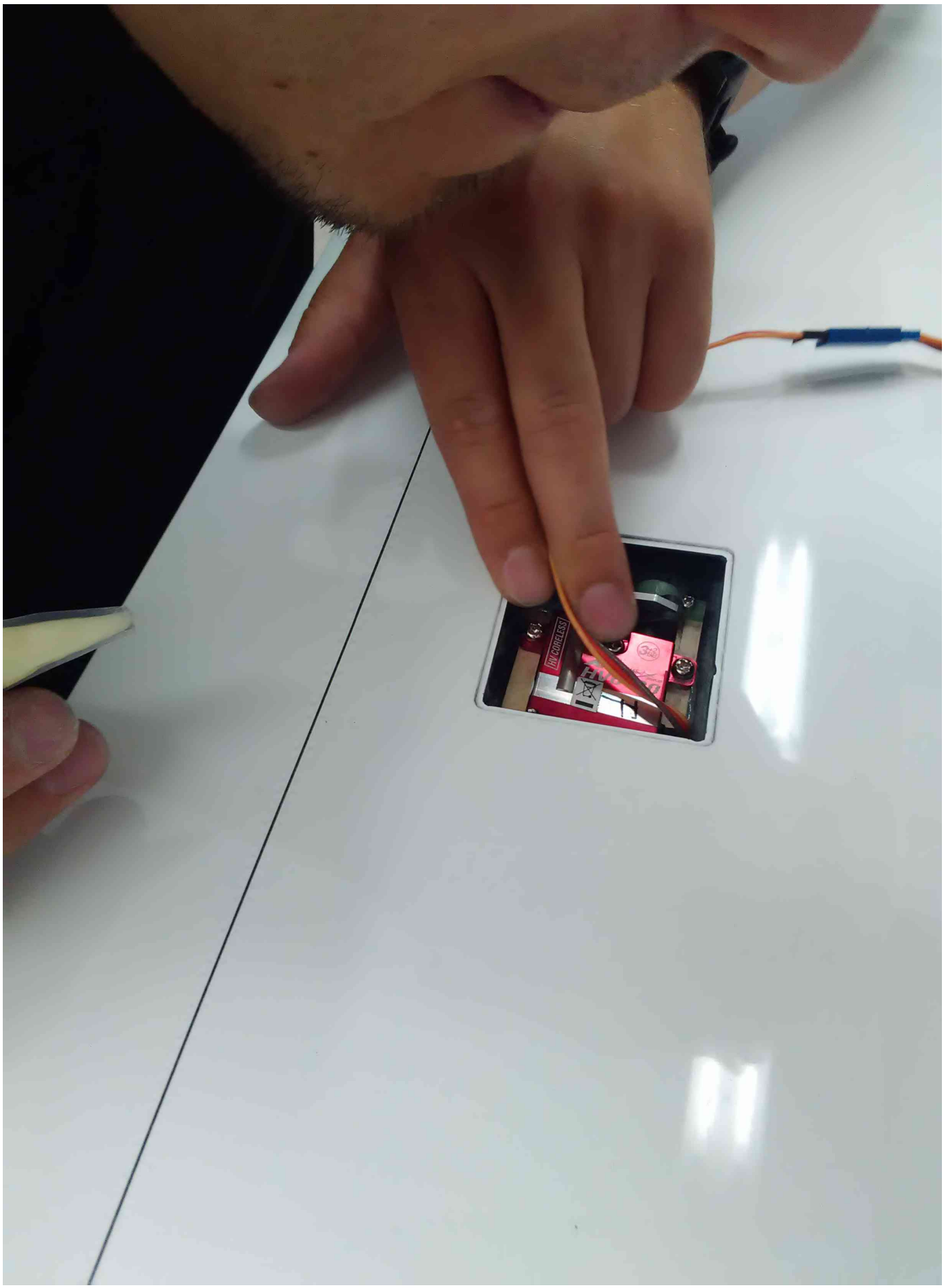


Use same kind of dispenser than previously

While moving the surface, apply epoxy under the servo

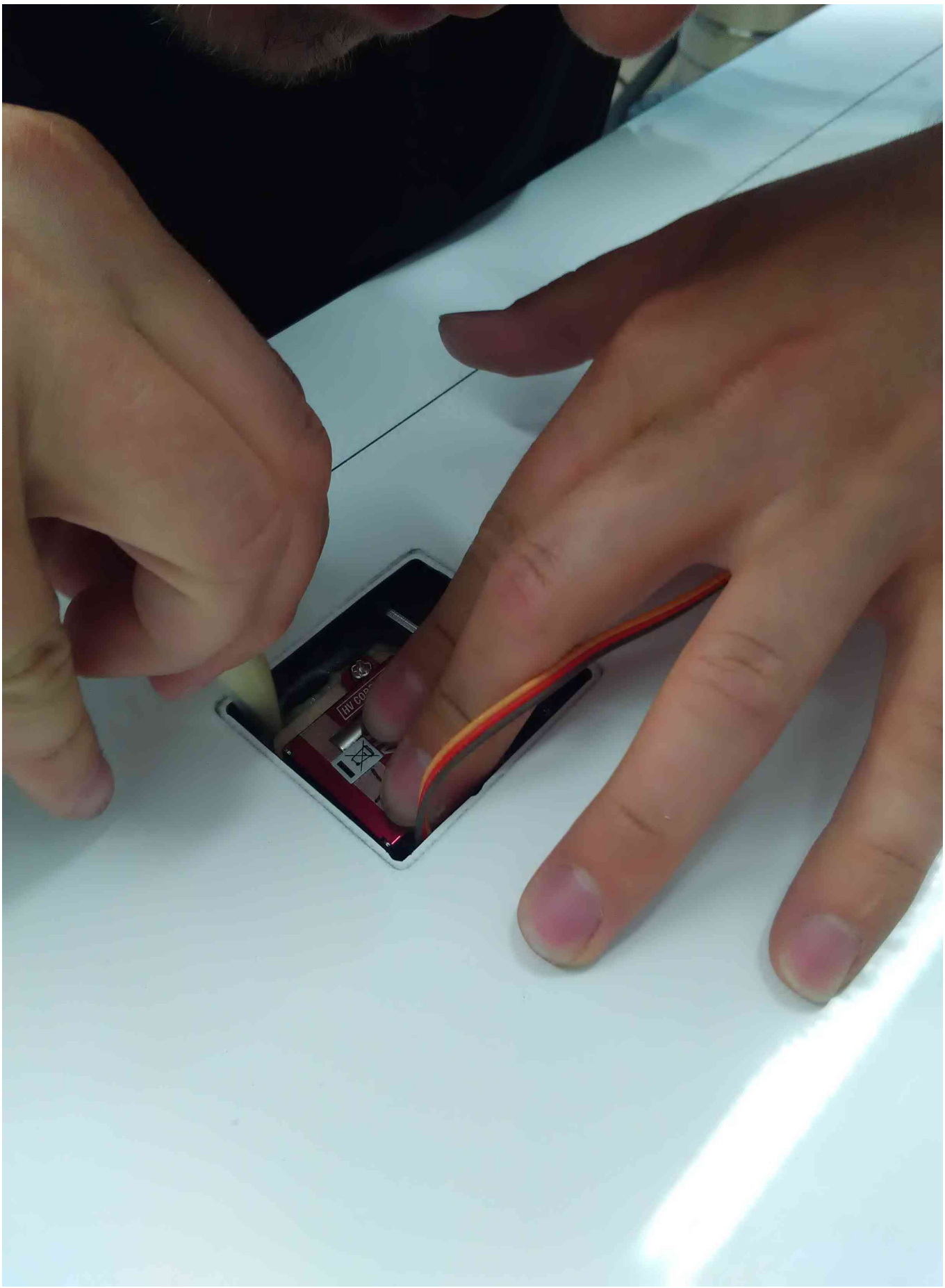


Apply pressure to ensure a good contact between servo and wing

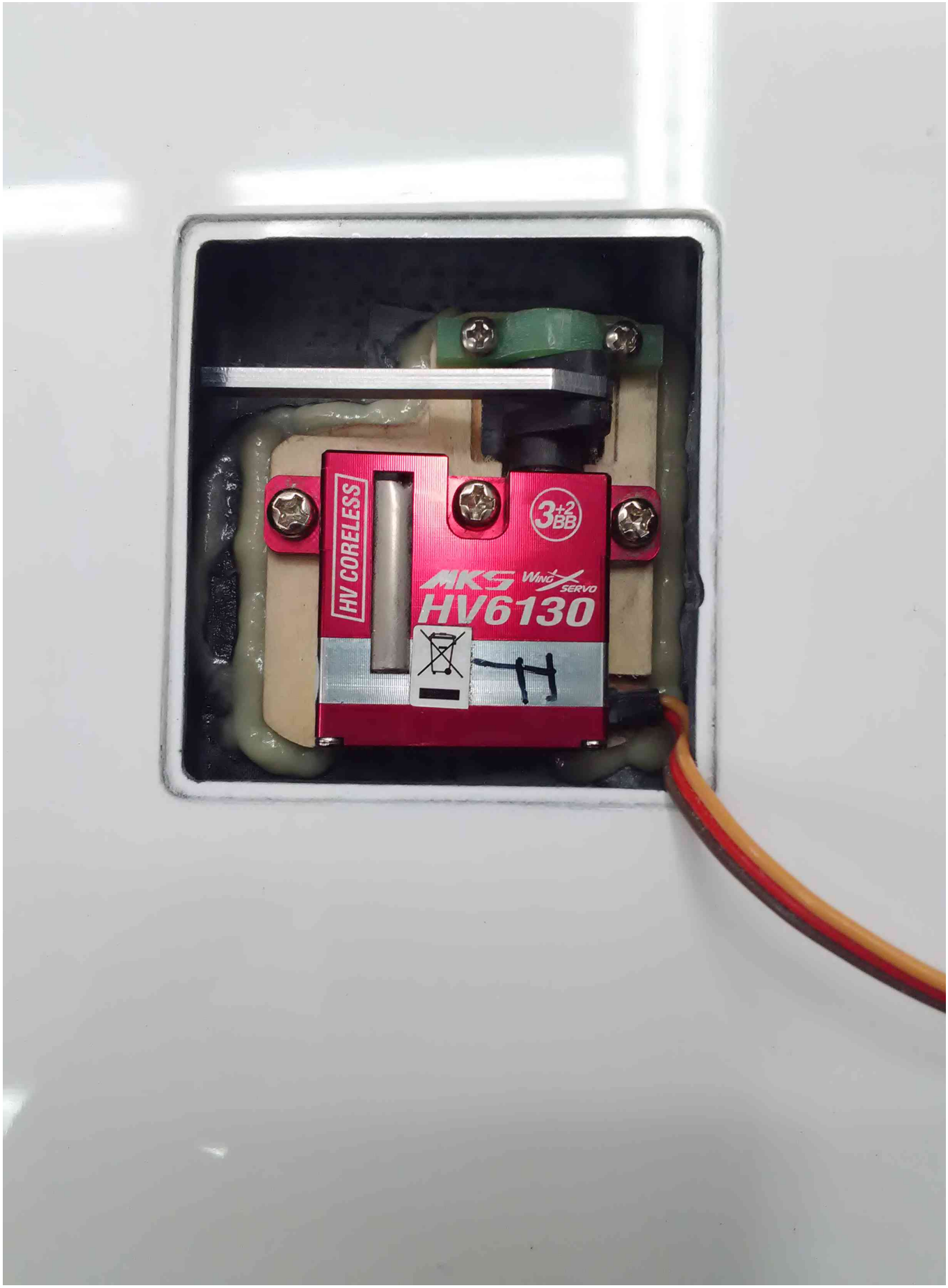


Slightly move the surface to accommodate the servo in its final position

Tape the surface in its neutral position



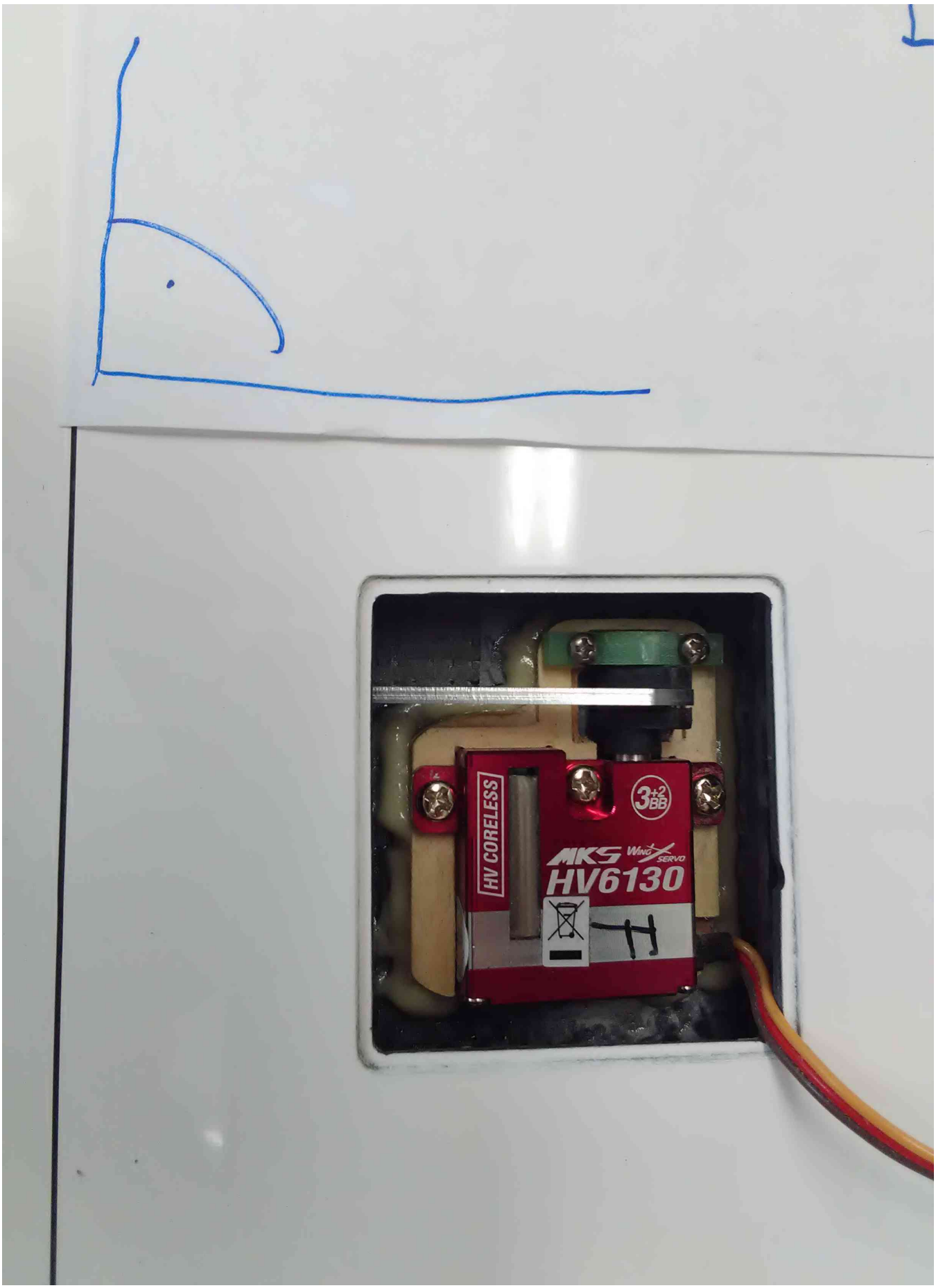
Apply epoxy in all the perimeter of the servo's frame



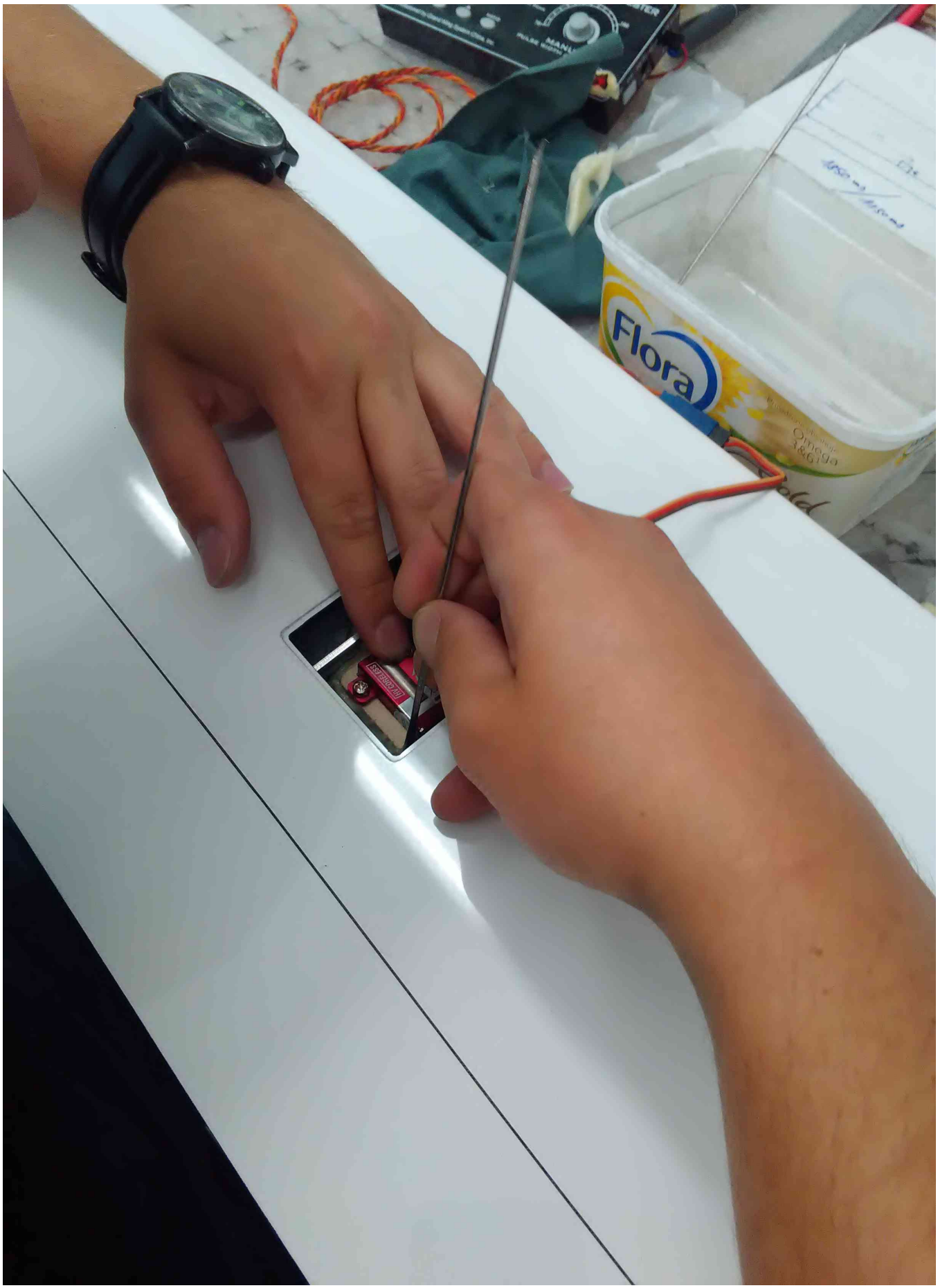
Aspect of the epoxy all around the servo's frame

Prepare a tool with flat end to manipulate the excess of epoxy

Wait some minutes until the epoxy becomes harder

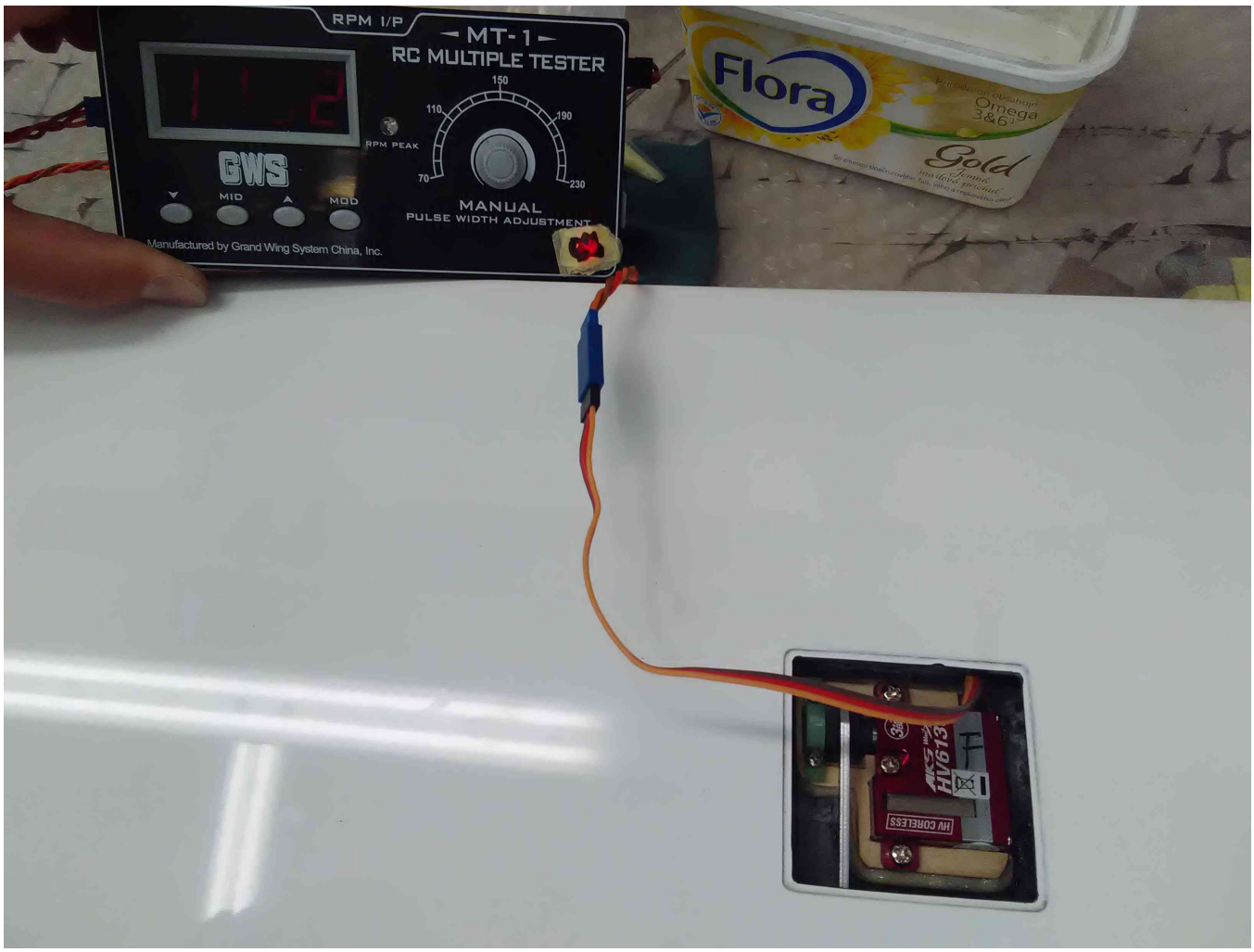


Control the perfect alignment of the LDS

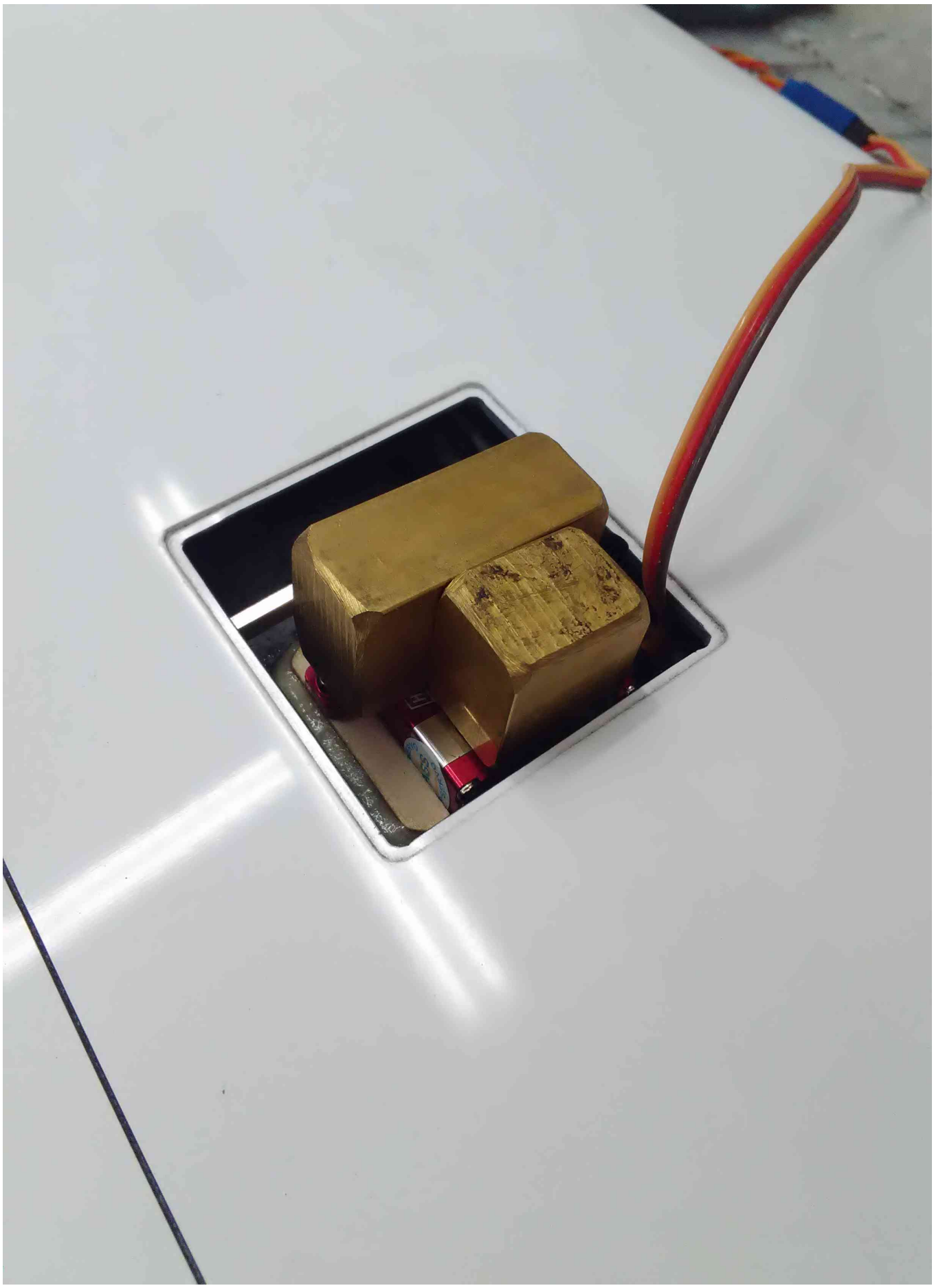


With the tool, shape the epoxy all around the servo's frame

Final work in the servo



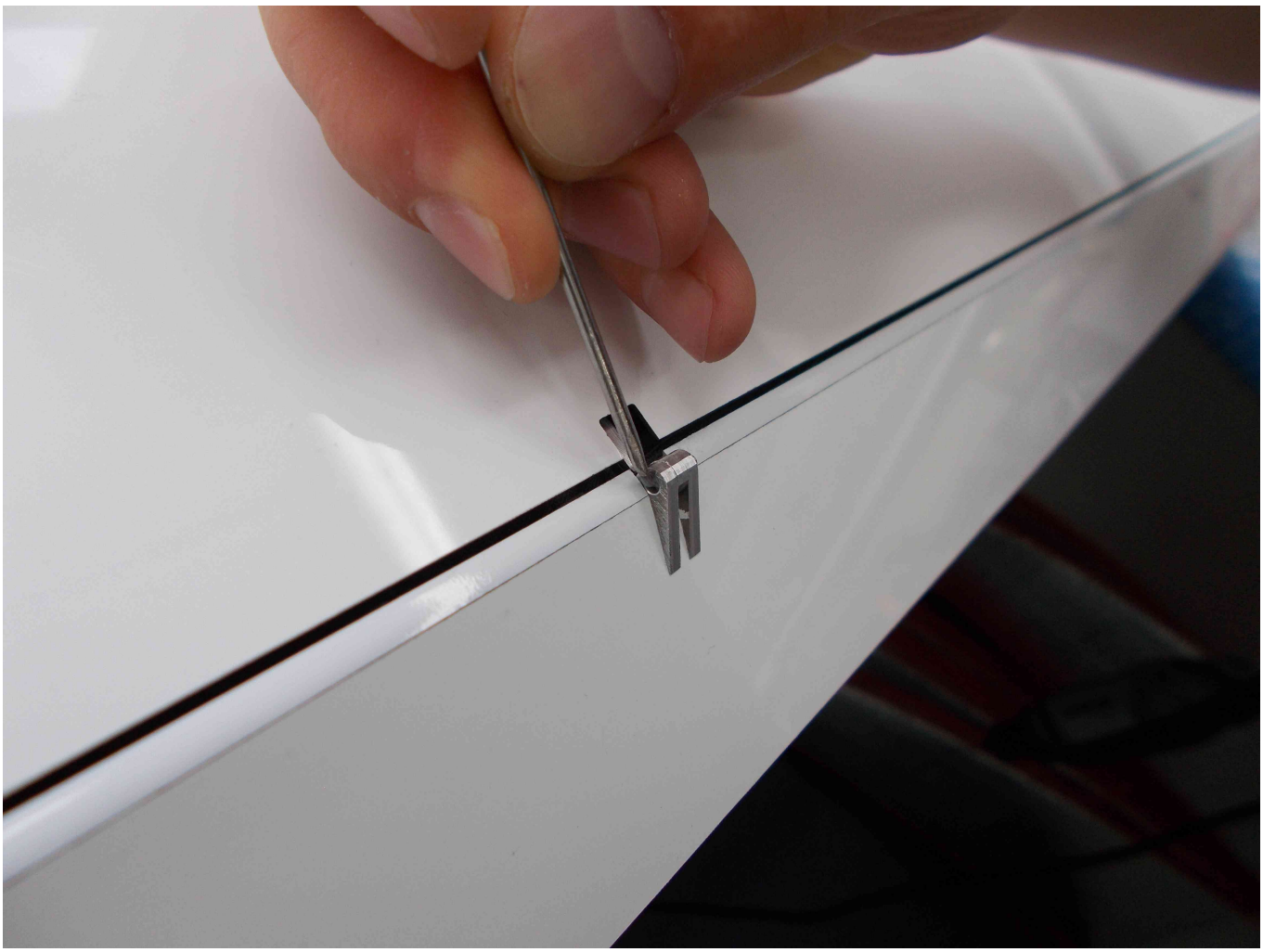
Control that servo neutral position is correct



Apply some pressure to keep the servo in its final position

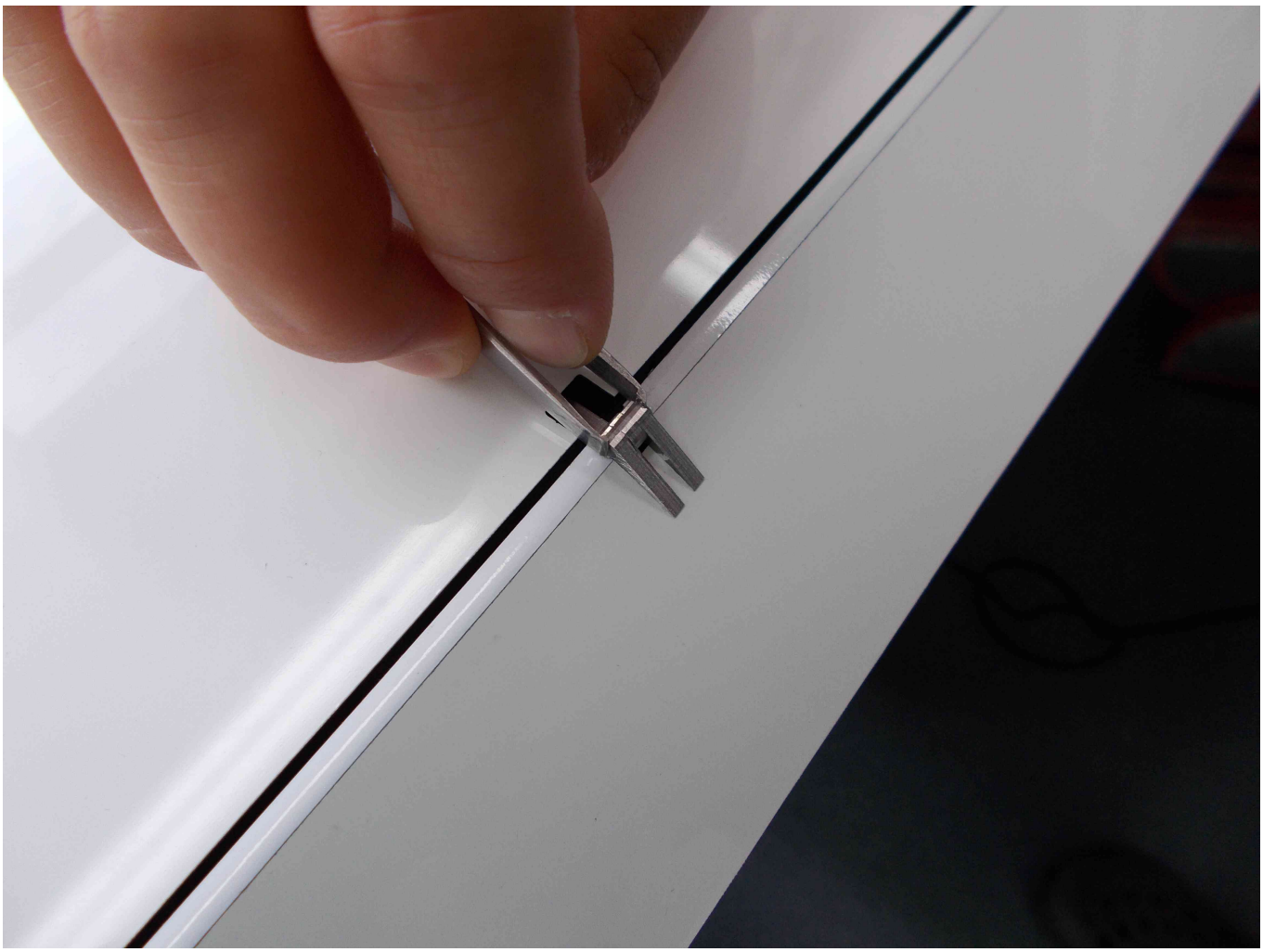
Apply epoxy to all horns filling the flaps/ailerons hole with it.

Prepare 5min epoxy to glue the pins in the horns.

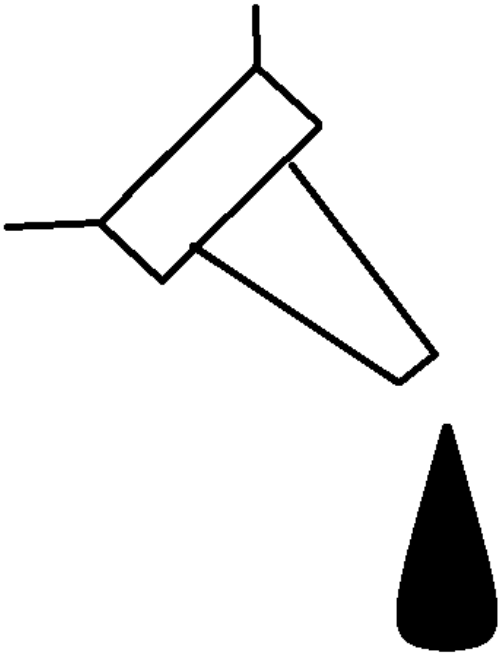


Apply with a tool the epoxy in the pin hole.

Also from the other side of the pin.



Press the pins in its final position.



WARNING!!!

Apply OIL to LDS
Every 3 Months!!!