

SebArt *professional line*

Sukhoi 29S 2.2m

ASSEMBLY MANUAL

The new Sukhoi 29S 2.2m ARF was designed by Italy aerobatic pilot, Sebastiano Silvestri and the design is based on of his new competition giant plane Sukhoi 29S.

This professional ARTF kit is the result of Sebastiano's long research in 3D performance and precision aerobatic. This combined with an extremely lightweight structure, the all wood airframe, the big control surfaces and the **new revolutionary Lift Generator on landing gear** give the Sukhoi 29S 2.2m an impressive thrust-to-weight ratio and crisp control authority at any airspeed and flight condition.

The Sukhoi 29S 2.2m can do it all...unbelievable easy harriers, torque rolls, blenders, waterfalls and almost anything else you can dream up are waiting you!

.....the only aerobatic limit is your fantasy!

Specifications:

Wingspan:.....218 cm
Length with spinner:212 cm
Wing Area:.....92 dm²

Recommended Set Up:

Radio:.....minimum 6-ch with 5 High Torque MG servo
Engine: ...from 50cc. to 60cc. GAS

Required radio, engine

Radio equipment:

- Minimum 6-channel radio system
- 3 digital servos Metal Gear, recommended JR PROPO DS 8911 (**ailerons and rudder**)
- 2 digital servos Metal Gear, recommended JR PROPO DS 8411 (**elevators**)
- 1 digital servos standard, recommended JR PROPO DS 8301 (**throttle**)
- 2 servo extension for elevator's servos + 2 for aileron's servos

We recommend to install the **Power Box EVOLUTION 40/16** system

We recommend GAS engine from 50cc. to 60cc.

Additional required item, tools and adhesives

Tools:

- Drill
- Drill bits: 1,5mm; 2mm; 2,5mm; 3mm; 5mm; 6mm
- Flat blade screwdriver
- Phillips screwdriver large and small
- Hobby knife
- Masking tape
- Paper towels
- Rubbing alcohol
- Sand paper
- Soldering iron
- synthetic oil

Adhesives:

- 5-minute epoxy
- thin CA
- medium CA

Warning

This RC aircraft is not a toy!

If misused, it can cause serious bodily harm and damage to property.

Fly only in open areas, preferably in official flying sites, following all instructions included with your radio and motor.

This plane is a compromise between Aerobatics and 3D flying, and not a pylon racer.

It is built with a very light structure and for this reason we hardly recommend:

→ **Do NOT fly your airplane at high speeds, because this may cause structural failures or flutter due to the extremely large control surfaces.**

Before starting assembly

Before starting the assembly of your Sukhoi 29S, remove each part from its bag and protection for a prior inspection. Closely inspect the fuselage, wing panels, rudder, and stabilizer for damage. If you find any damage or missing parts, contact the place of purchase.

If you find any wrinkles in the covering, use a heat gun or covering iron to remove them. Use caution while working around areas where the covering material overlap to prevent separating the covers.

Warranty information

SebArt guarantees this kit to be free from defects in both material and workmanship at the date of purchase.

This warranty does not cover any parts damage by use or modification, and in no case shall SebArt's liability exceed the original cost of the purchased kit.

Further, SebArt reserve the right to change or modify this warranty without notice.

In that SebArt has no control over the final assembly or material used for the final assembly, no liability shall be assumed or accepted for any damage of the final user-assembled product. By the act of using the product, the user accepts all resulting liability.

If the buyer is not prepared to accept the liability associated with the use of this product, the buyer is advised to return this kit immediately in new and unused condition to the place of purchase.

Control throws

We recommend the use of a computer radio, that will allow you to do quite a bit of fine-tuning of the feel of the Sukhoi, which will make aerobatics even easier.

Please, follow carefully the recommended linkage setups:

For the AILERON we recommend the following throws:

Low rate: 20° up / 20° down **Expo:** 40%

3D rate: 45° up / 45° down **Expo:** 80%

For the ELEVATOR we recommend the following throws:

Low rate: 20° up / 20° down **Expo:** 25%

3D rate: 50° up / 50° down **Expo:** 80%

For the RUDDER we recommend the following throws:

Low rate: 30° left / 30° right **Expo:** 30%

3D rate: 50° left / 50° right **Expo:** 60%

Note: the **Expo** is (+) for JR systems, and (–) for Futaba systems.

Mixing

For best performance, we recommend a linear-mix*: **Rudder → Elevator UP**

When you give full rudder to the right or left side, the elevator have to go up (positive) approx. 6 %

* if you have a programmable computer radio.

Recommended CG

The recommended **Center of Gravity** location is **175mm** behind the leading edge of the wing against the fuselage.

- **175mm** is good for aerobatics.
- **195mm** is good for 3D flying.

Pre-flight

Never attempt to make full throttle dives!

This model have to be flown like a full-scale airplane. If the airframe goes too fast, such as in a high throttle dive, it may fail.

Throttle management is absolutely necessary.

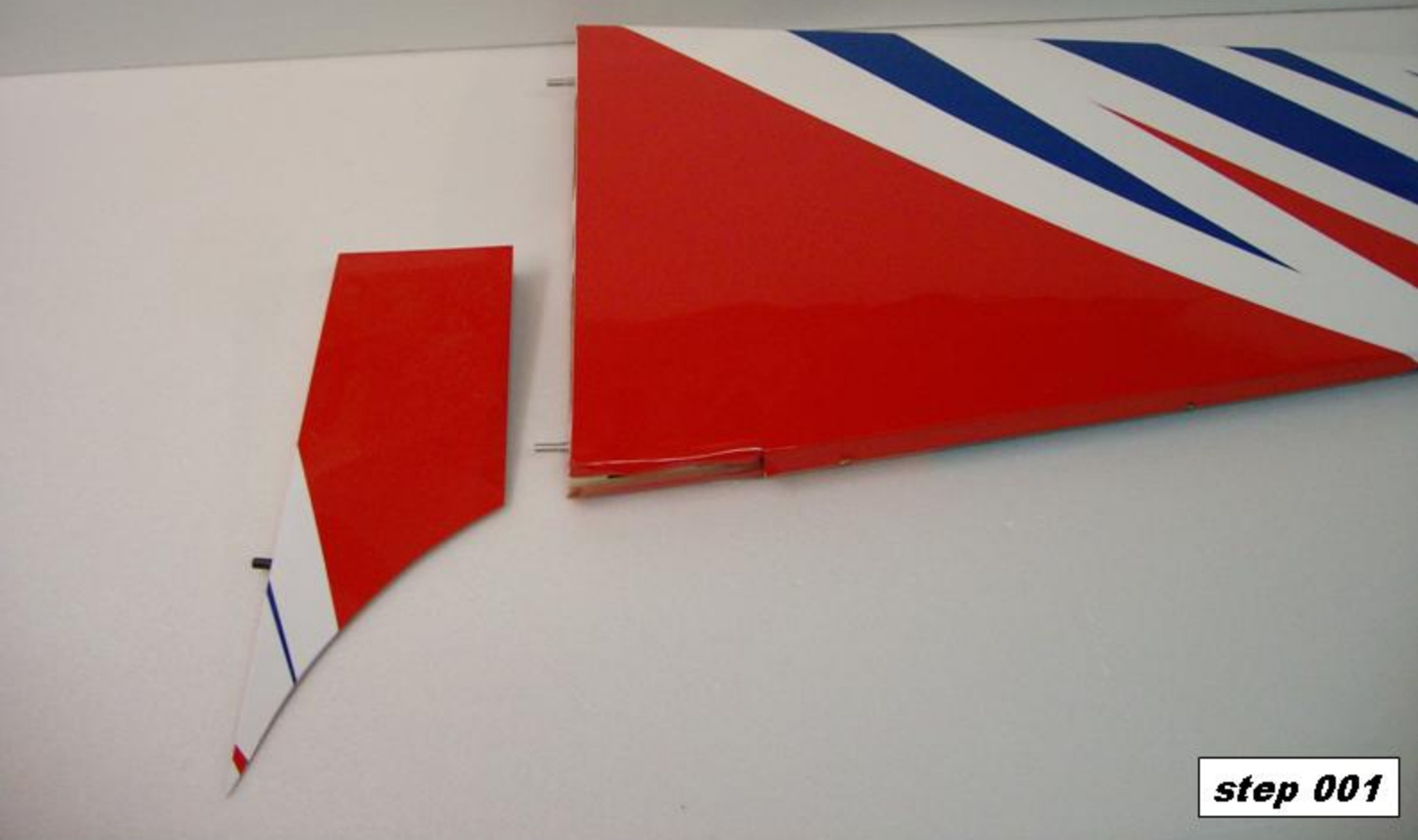
Range test your radio

- ✓ Before fly, be sure to range check your radio as manufacturer's instruction manual of you radio-system recommend.
- ✓ Double-check all controls (aileron, elevator, rudder and throttle) move in the correct direction.
- ✓ Be sure that your batteries are fully charged, as per the instructions included with your batteries and that your radio is fully charged as per its instructions.

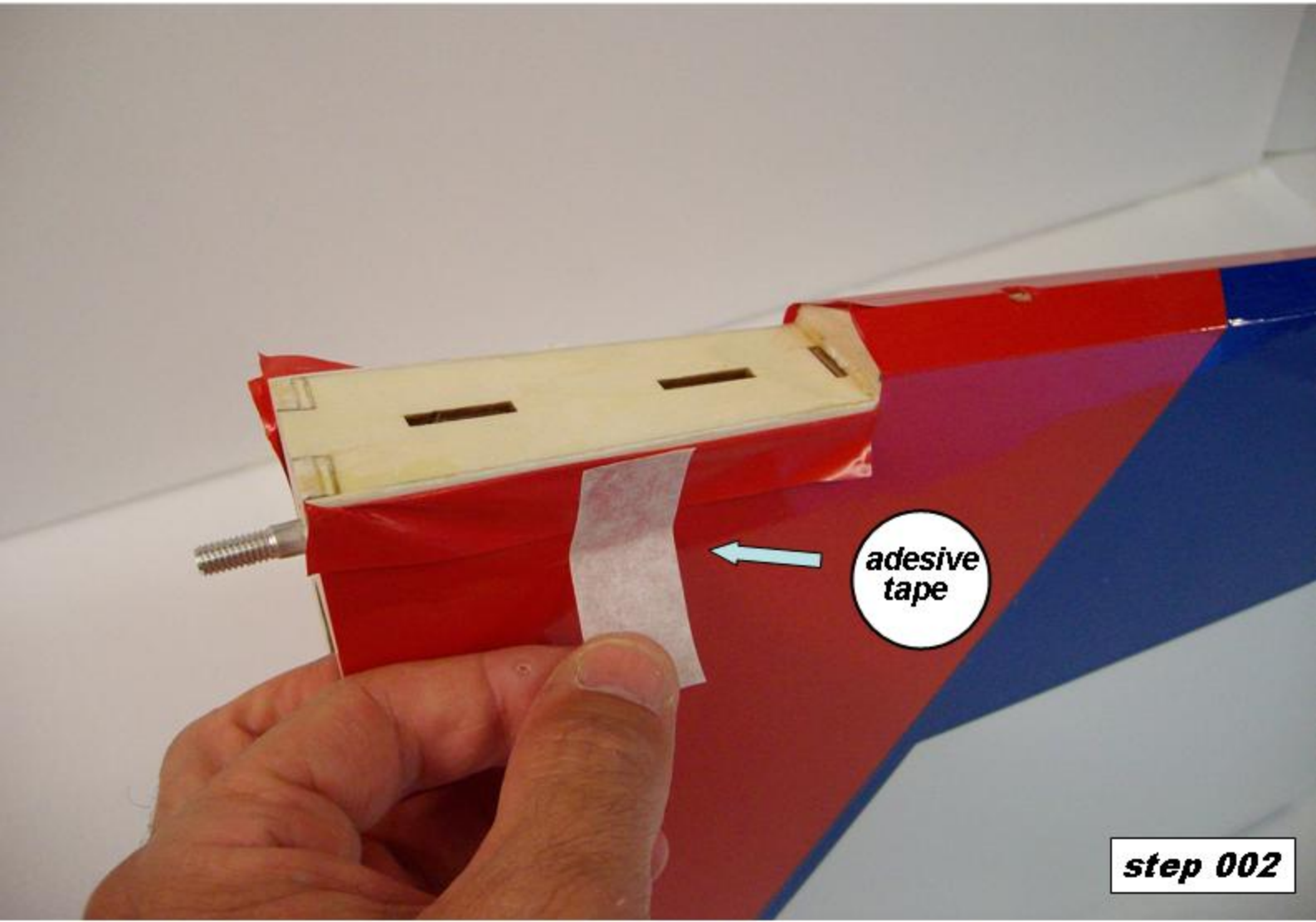
Finally...

have a nice flight!

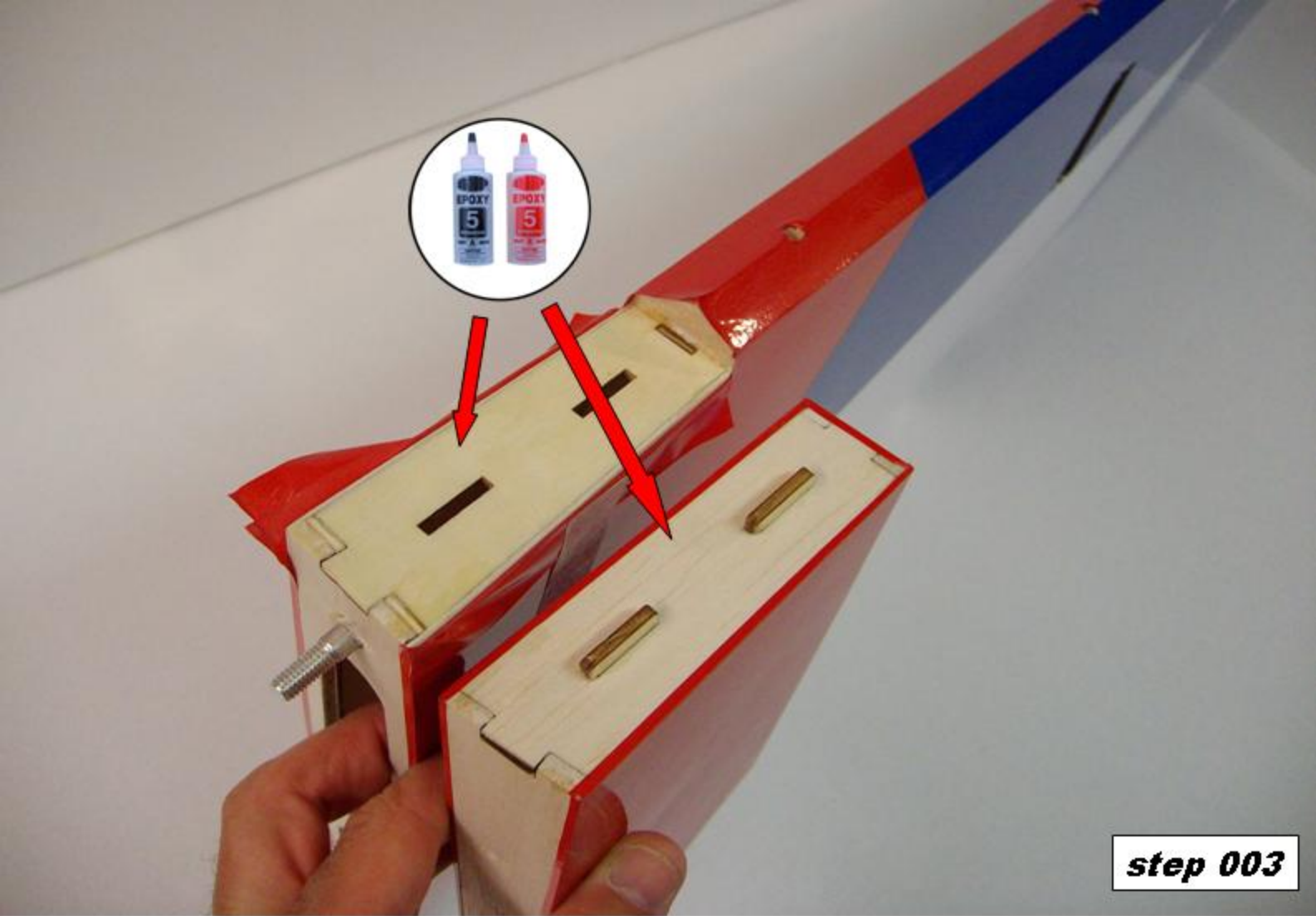
SebArt di Sebastiano Silvestri
Via Trento 69/3
38017 Mezzolombardo (TN) – Italy
www.sebart.it



step 001

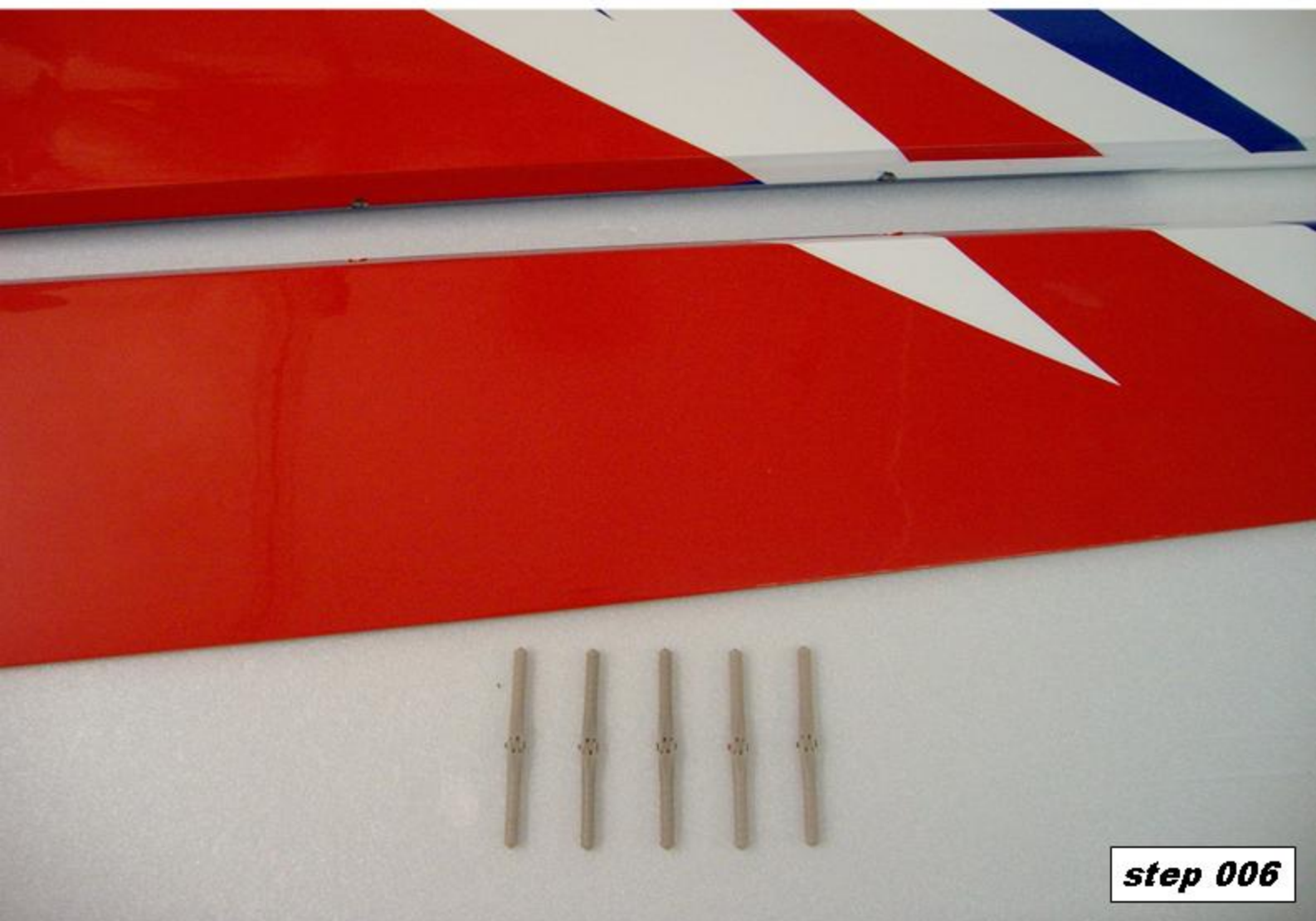


step 002

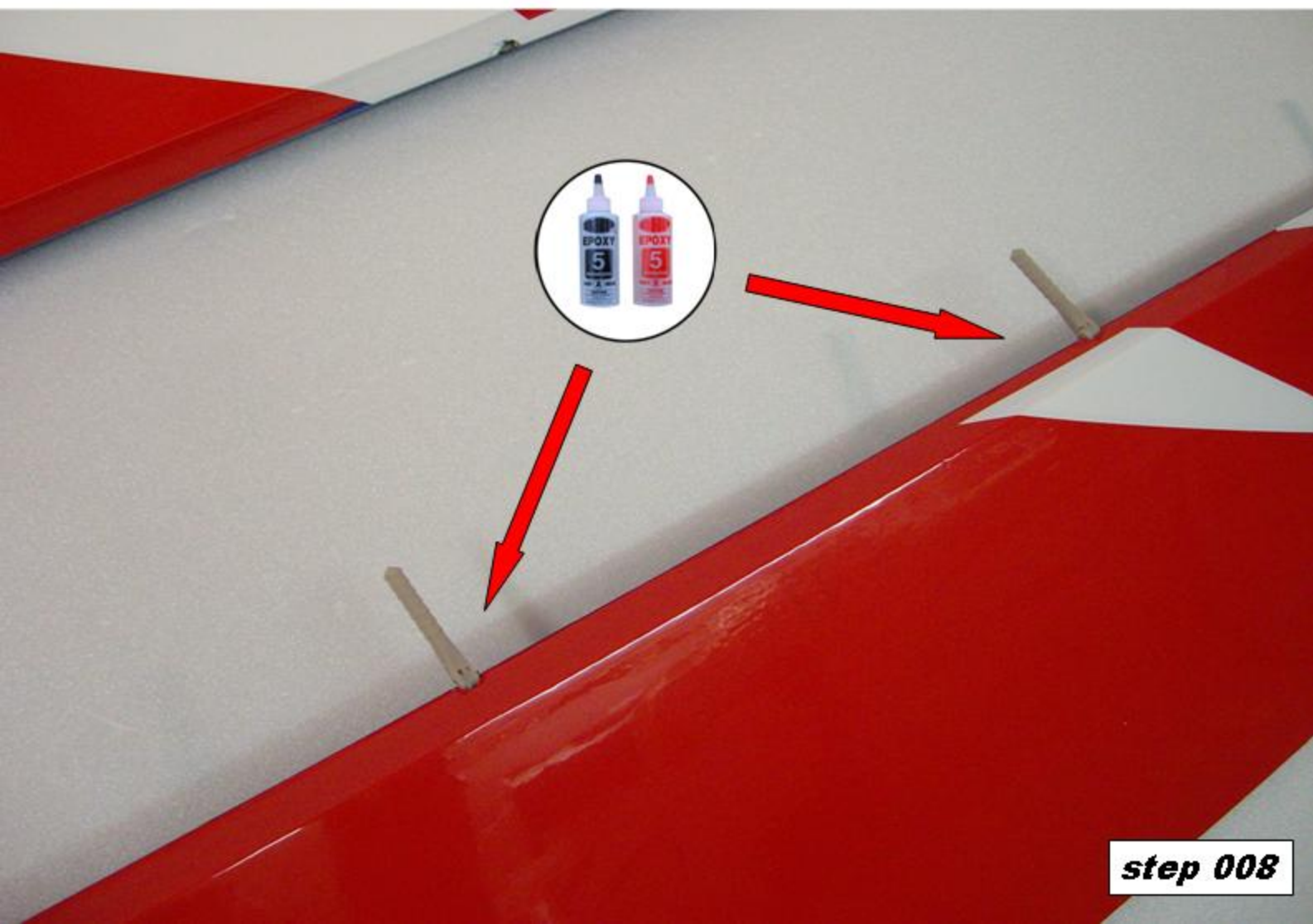


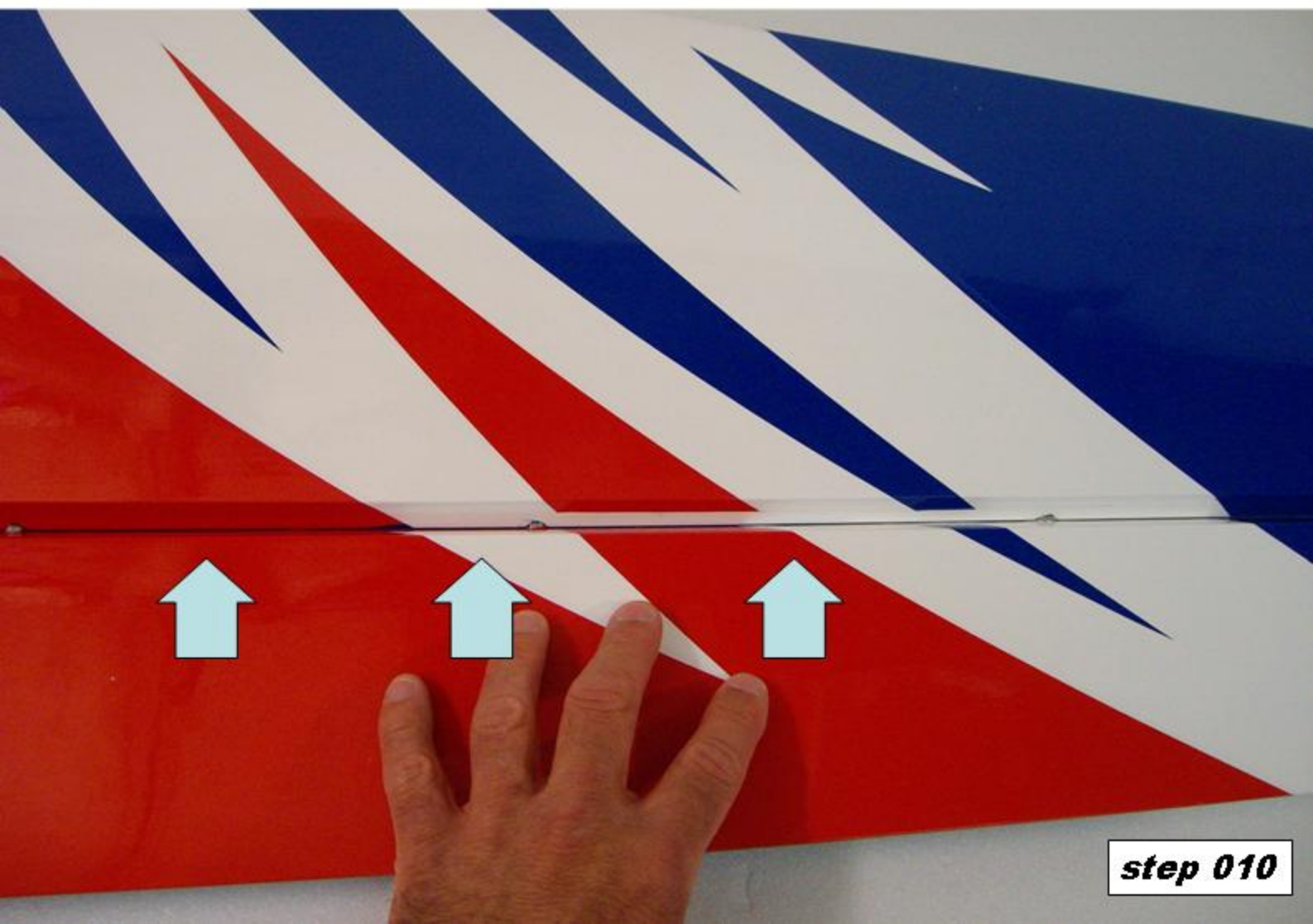
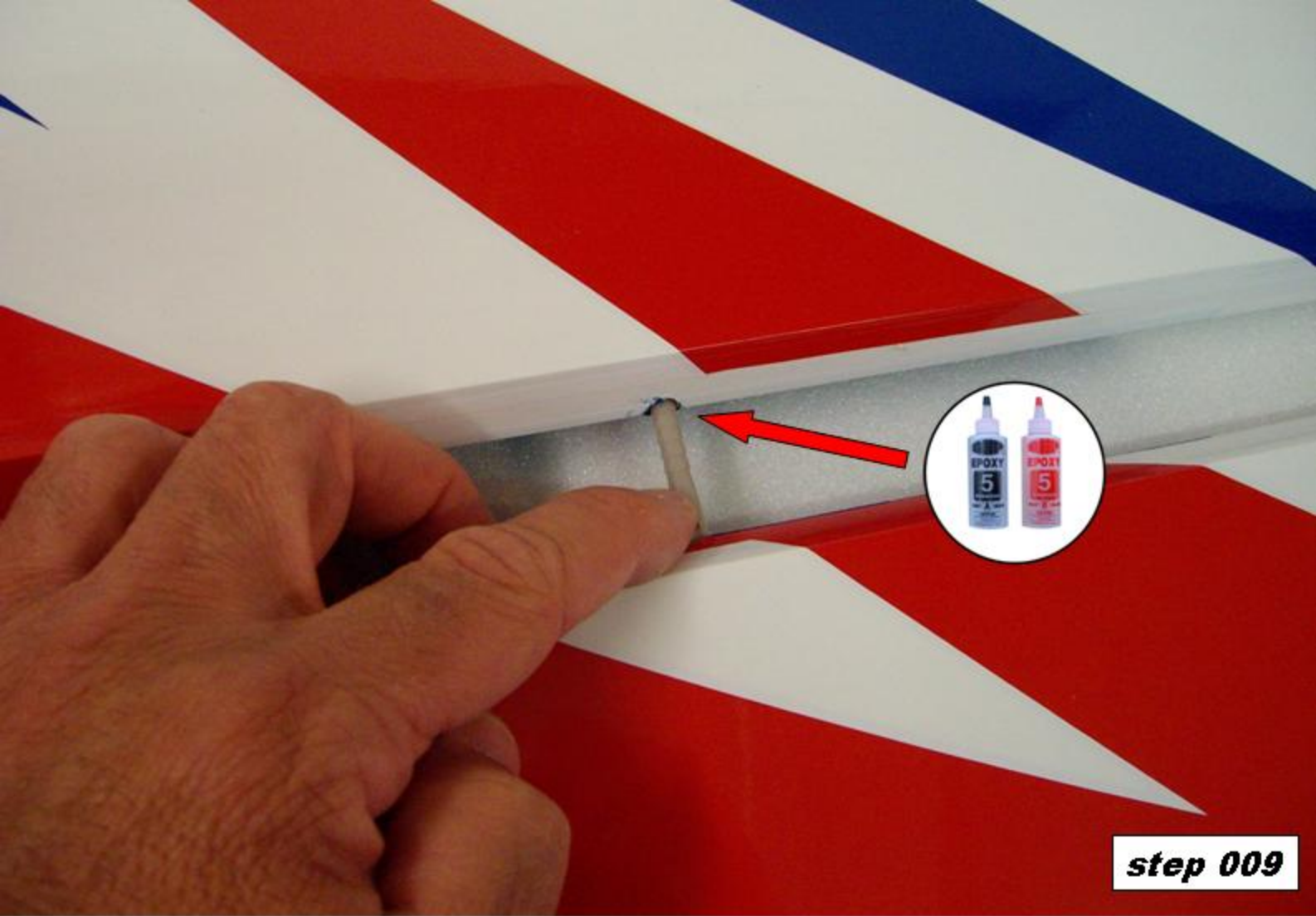


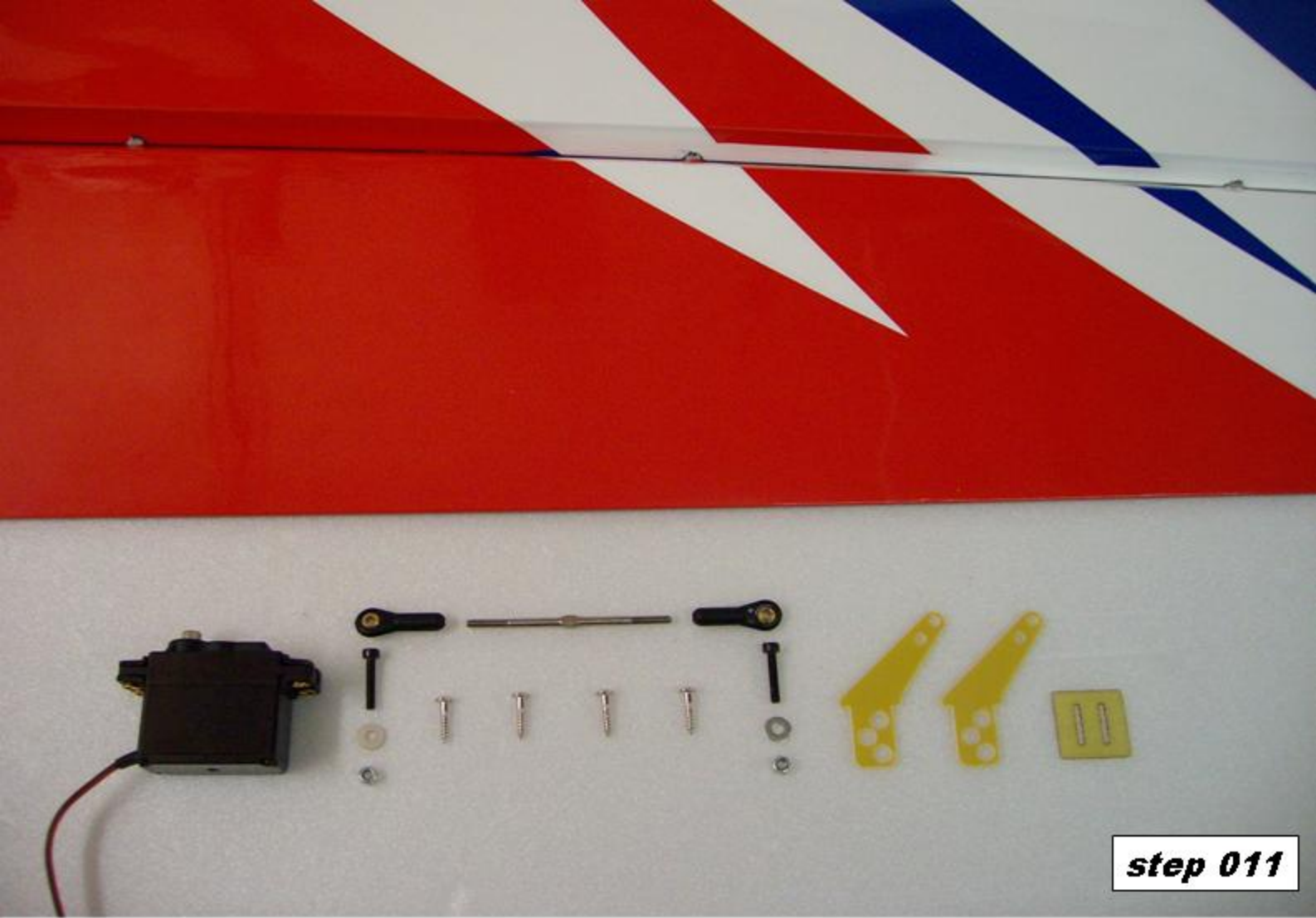
step 005



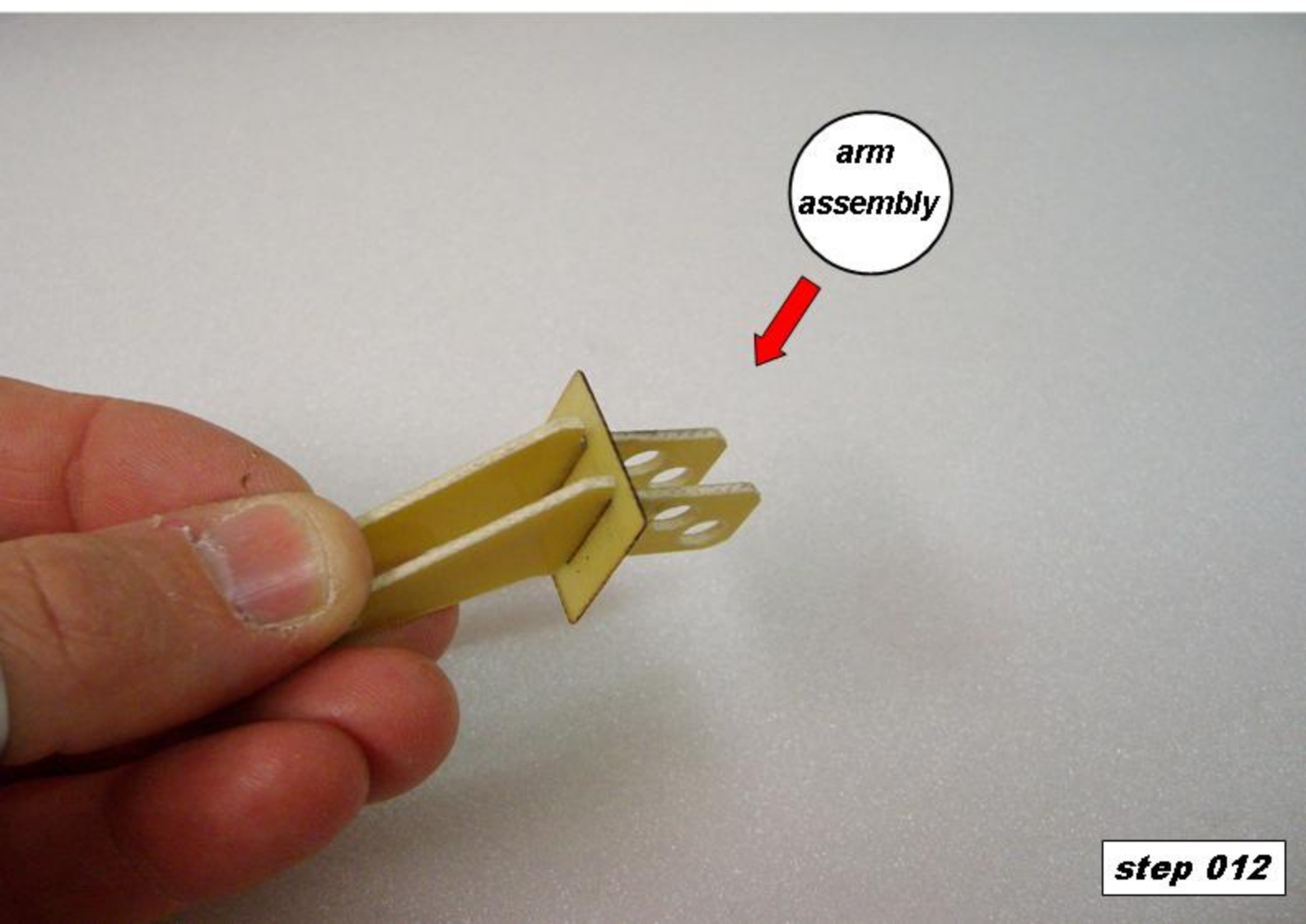
step 006





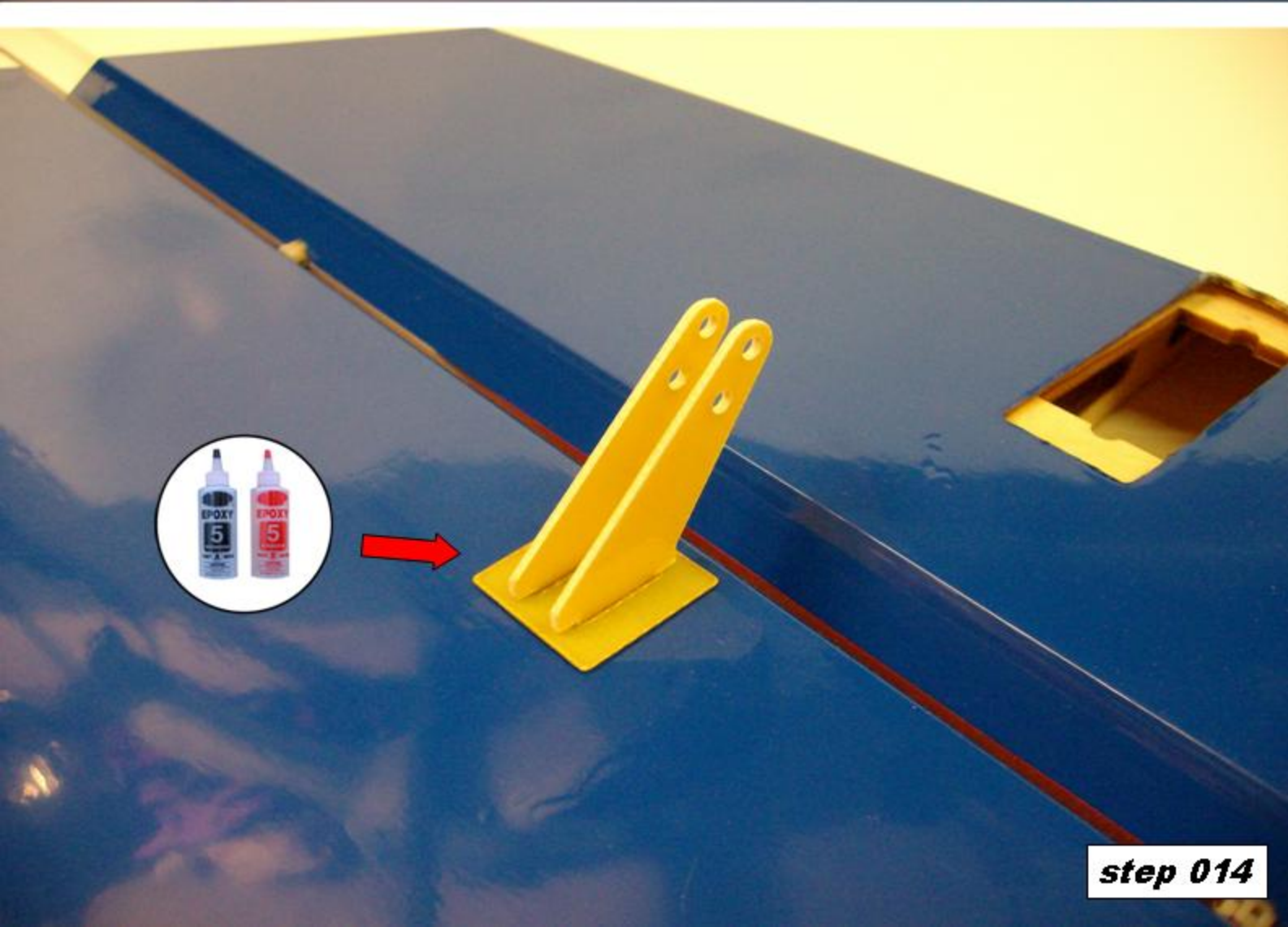
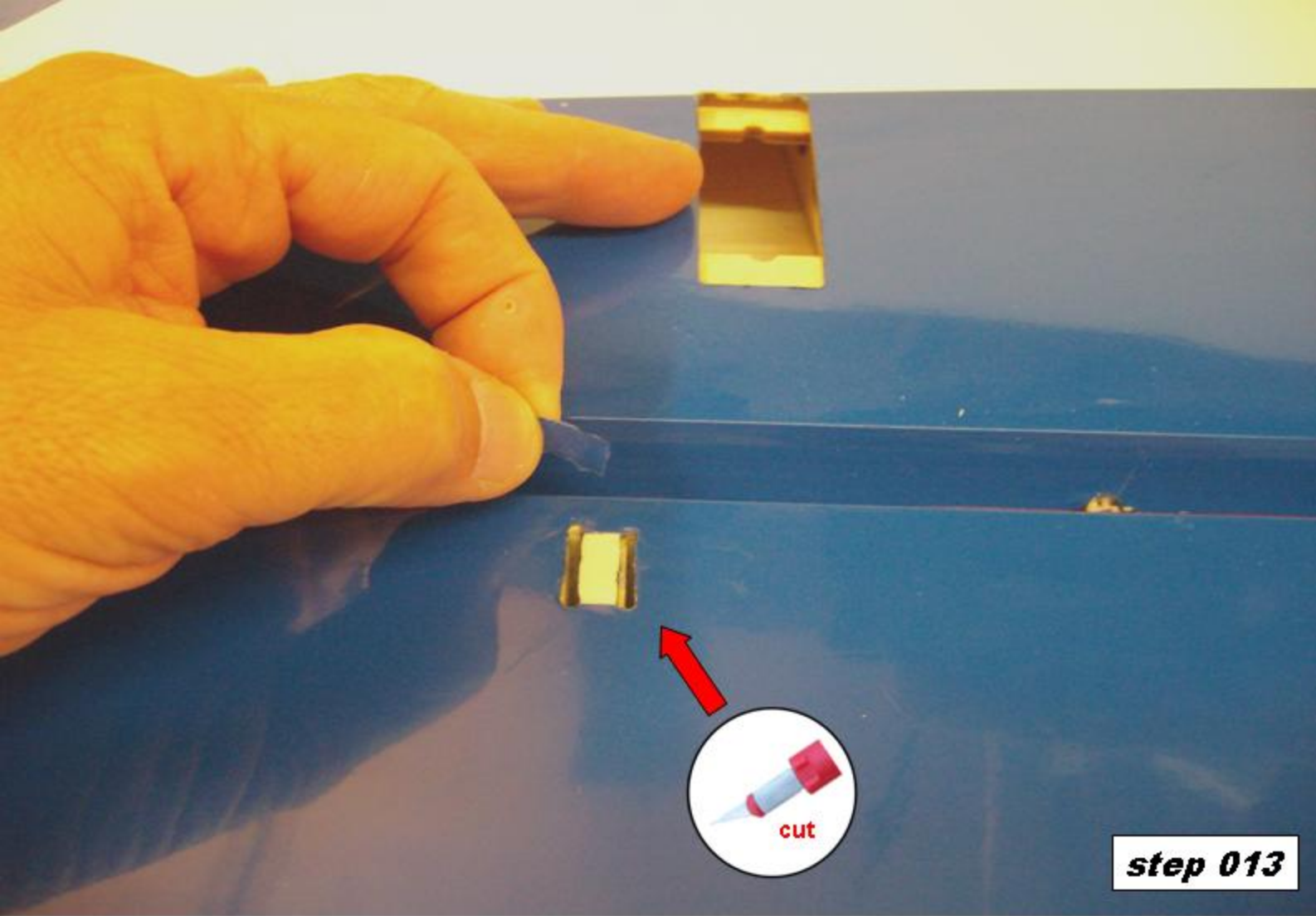


step 011



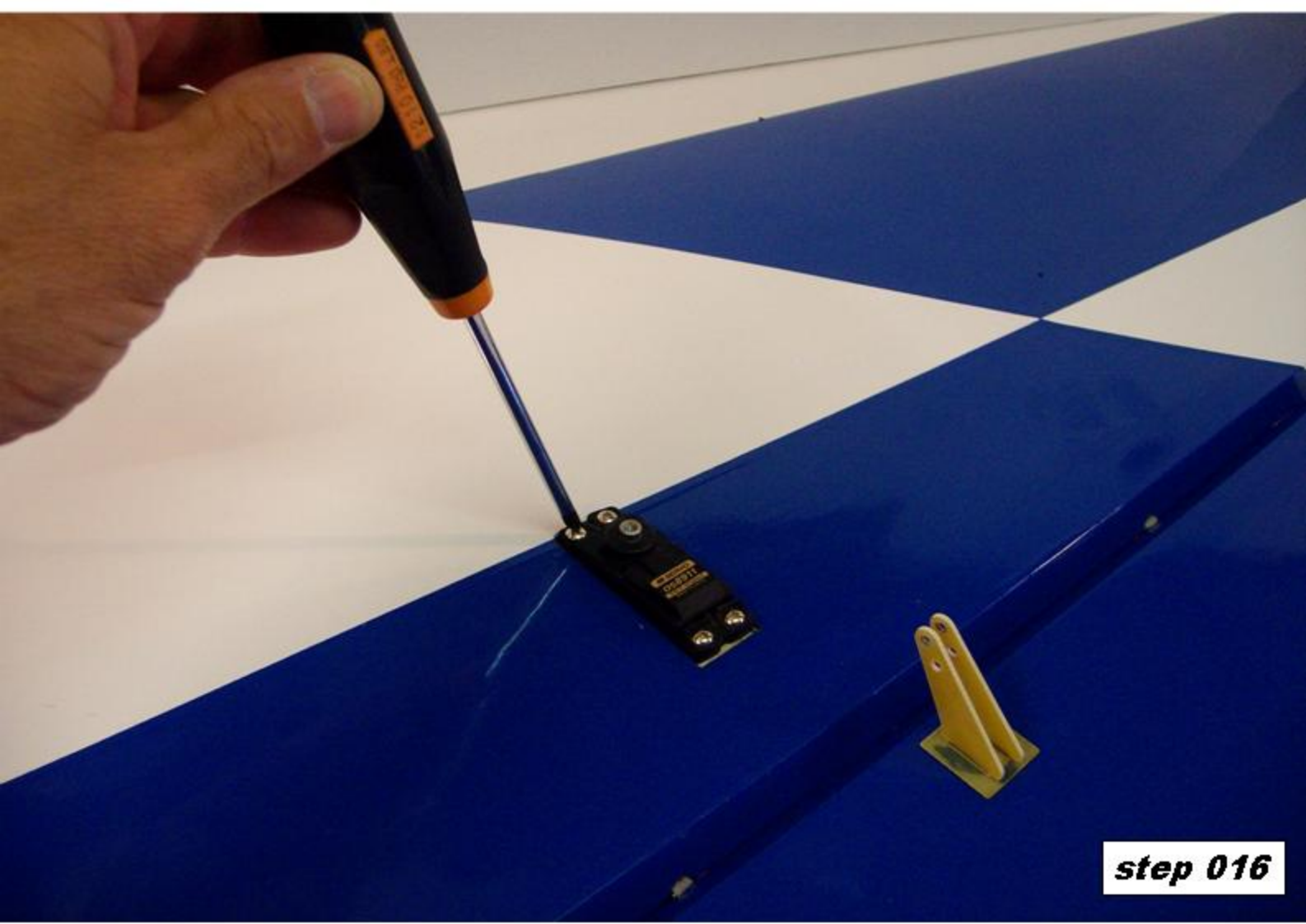
**arm
assembly**

step 012

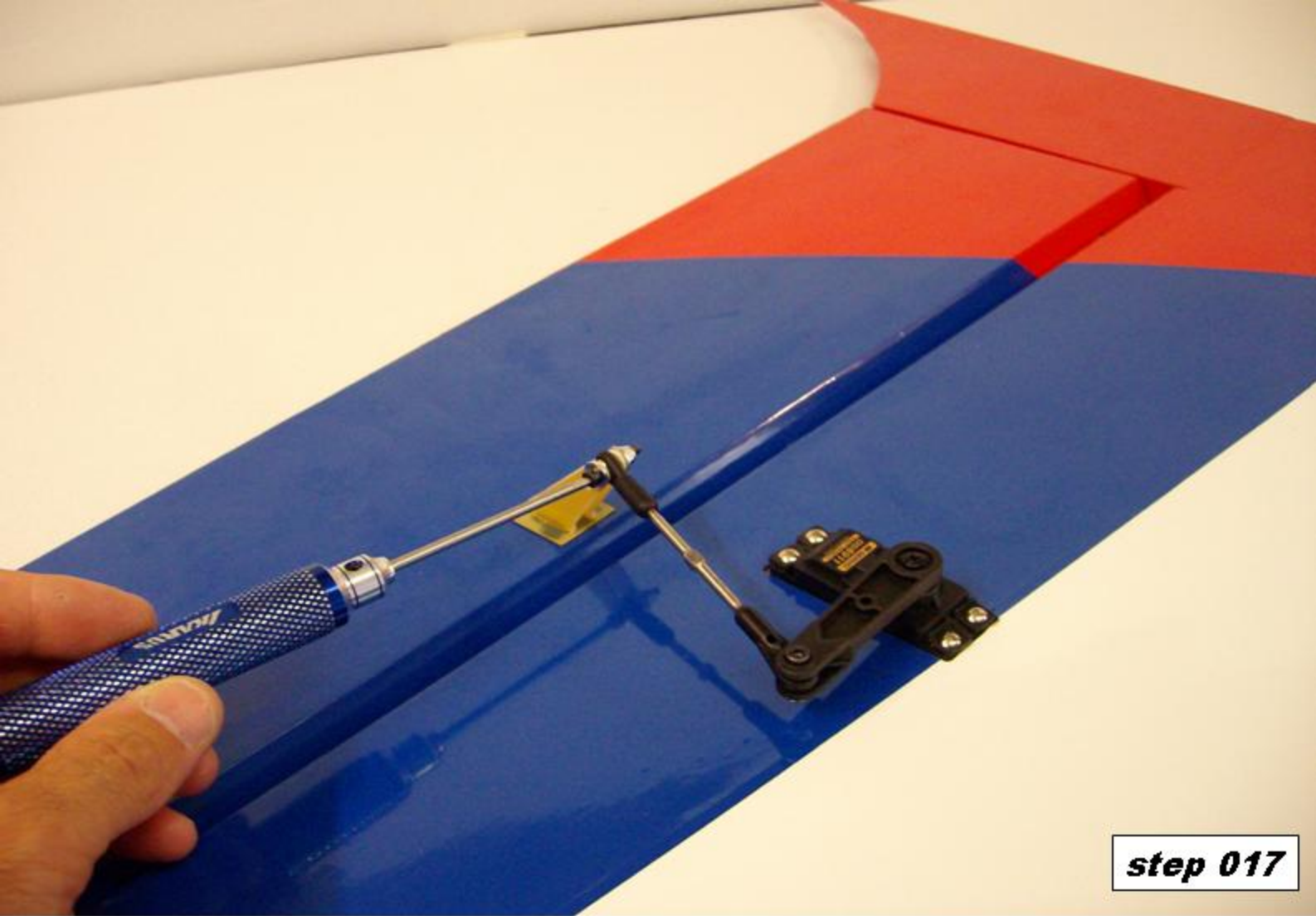




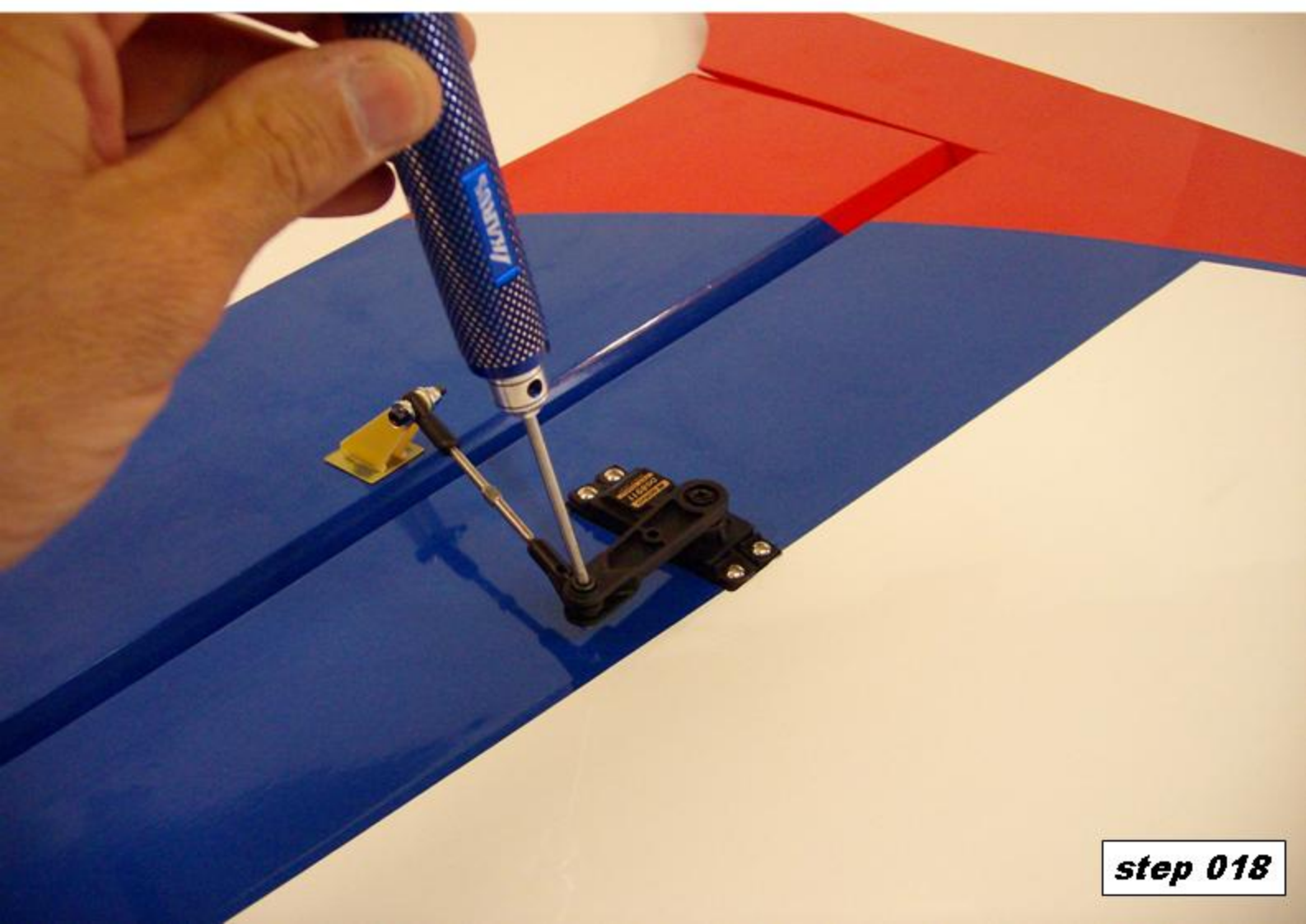
step 015



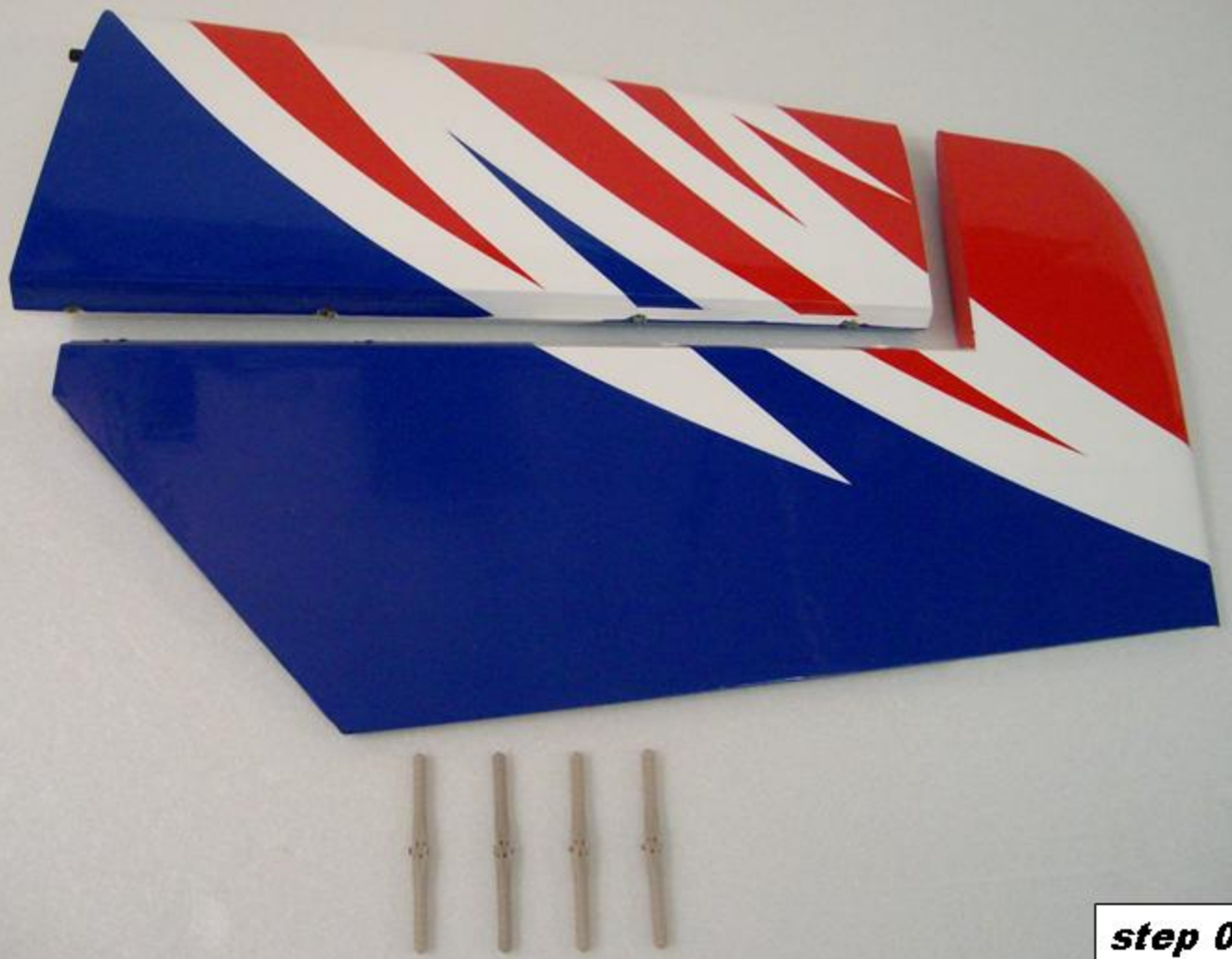
step 016



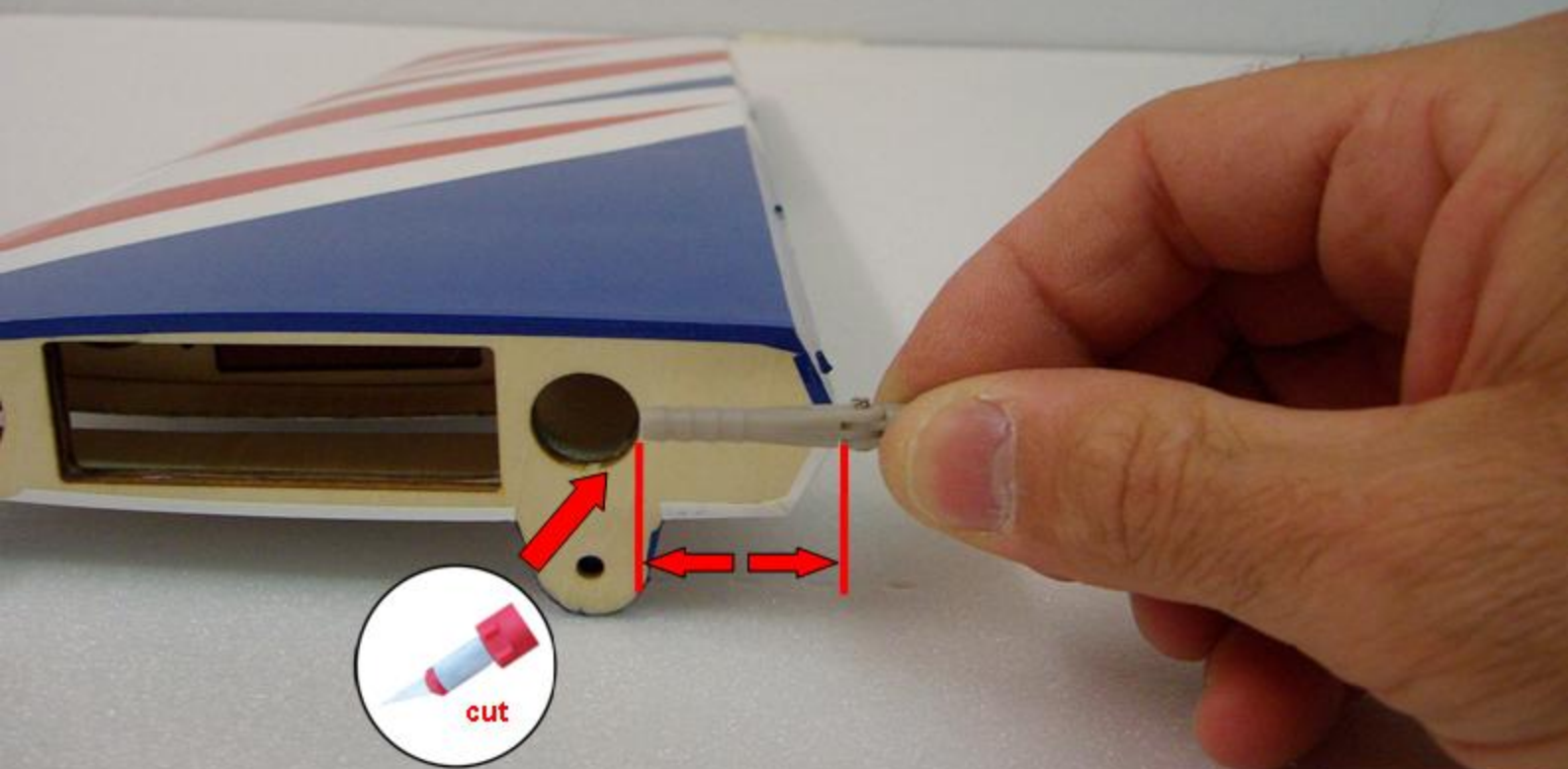
step 017



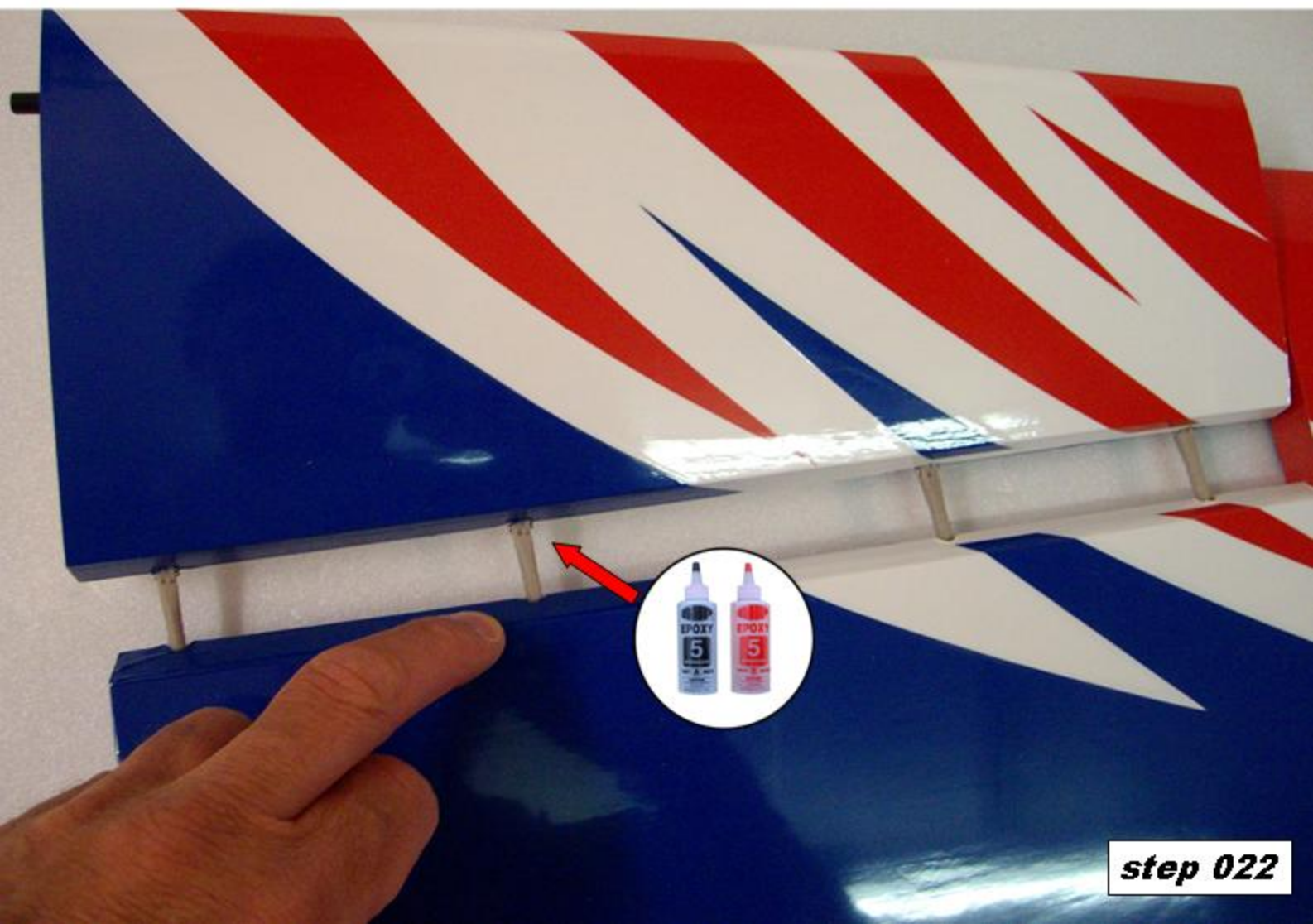
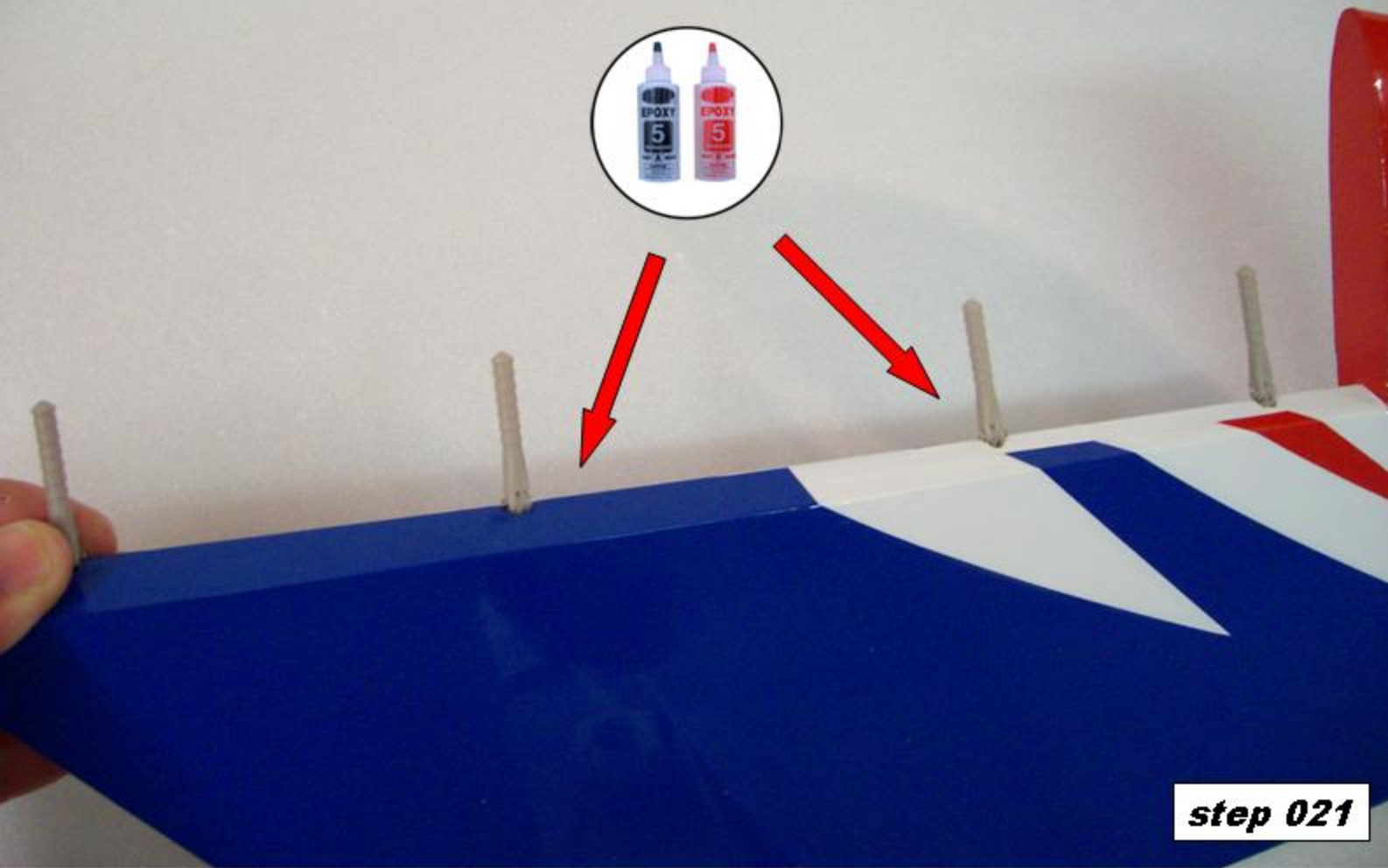
step 018

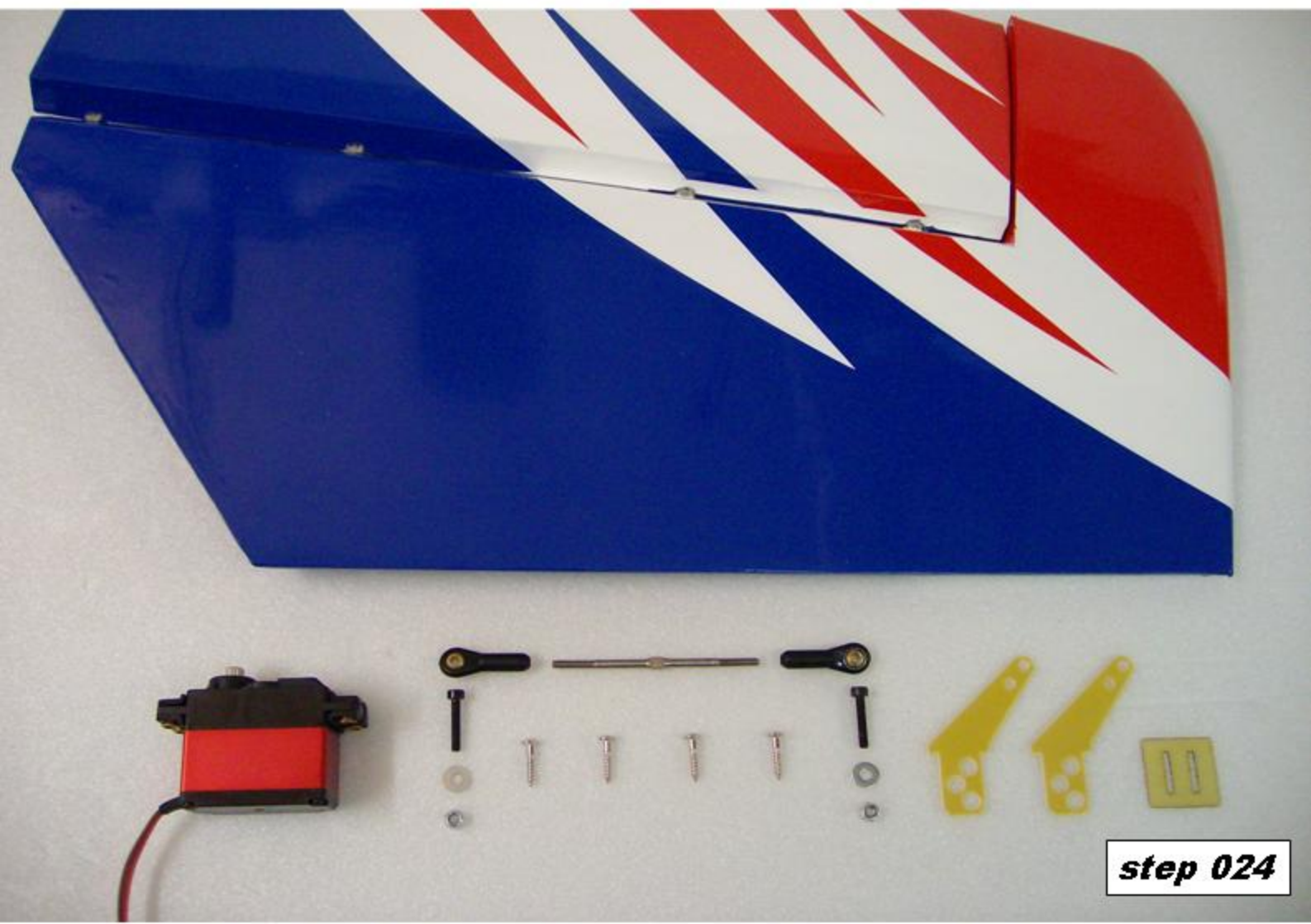
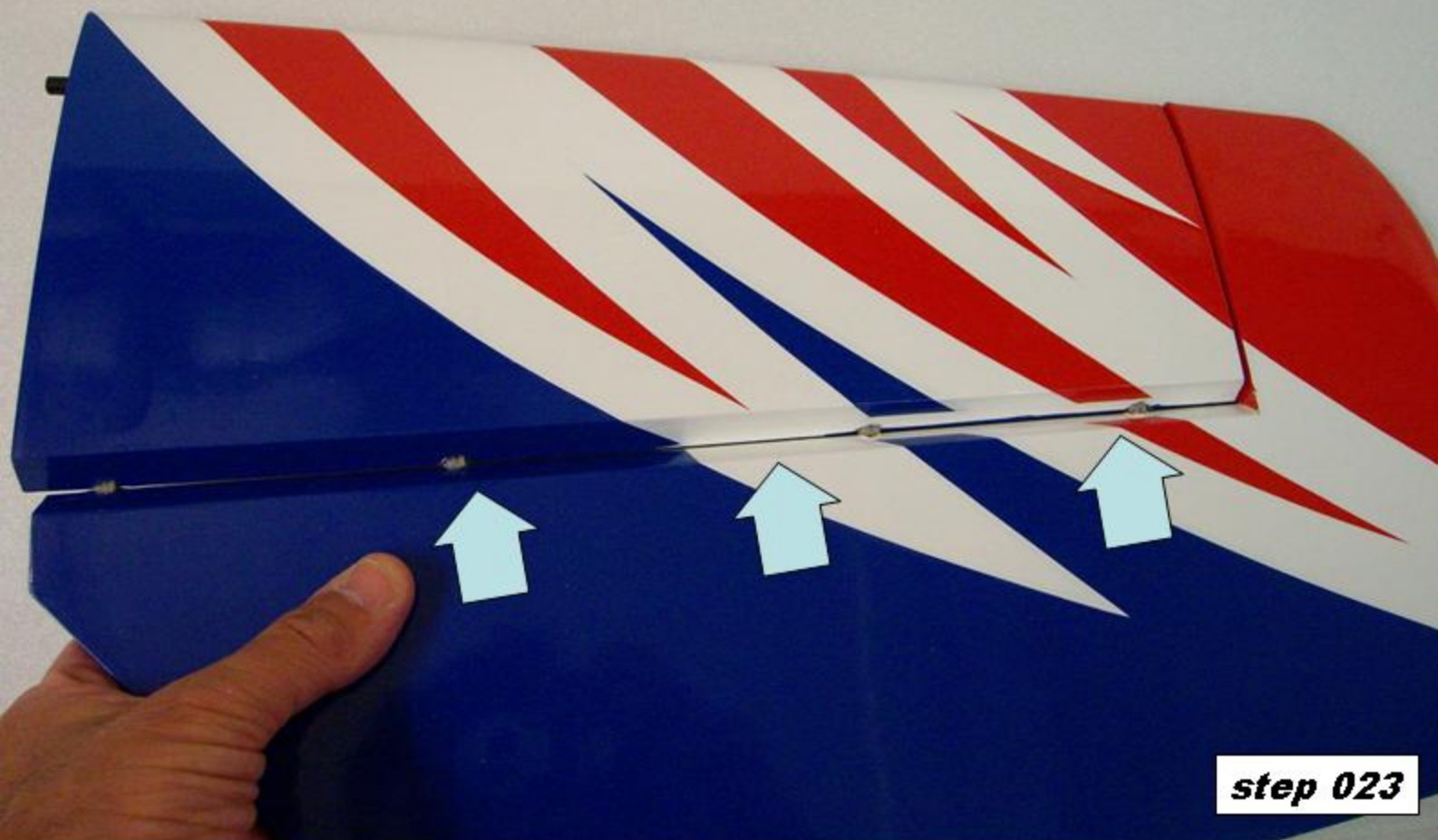


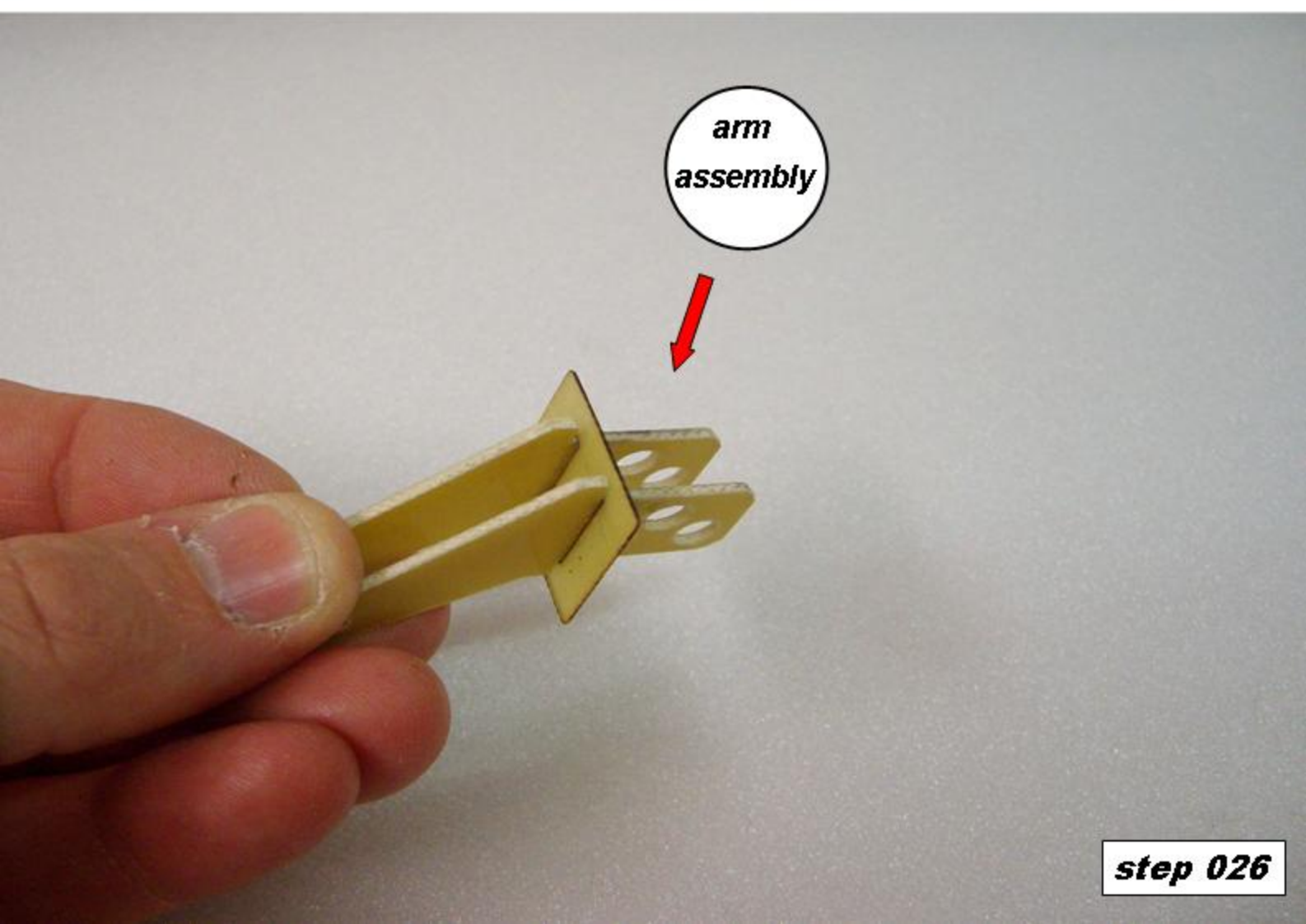
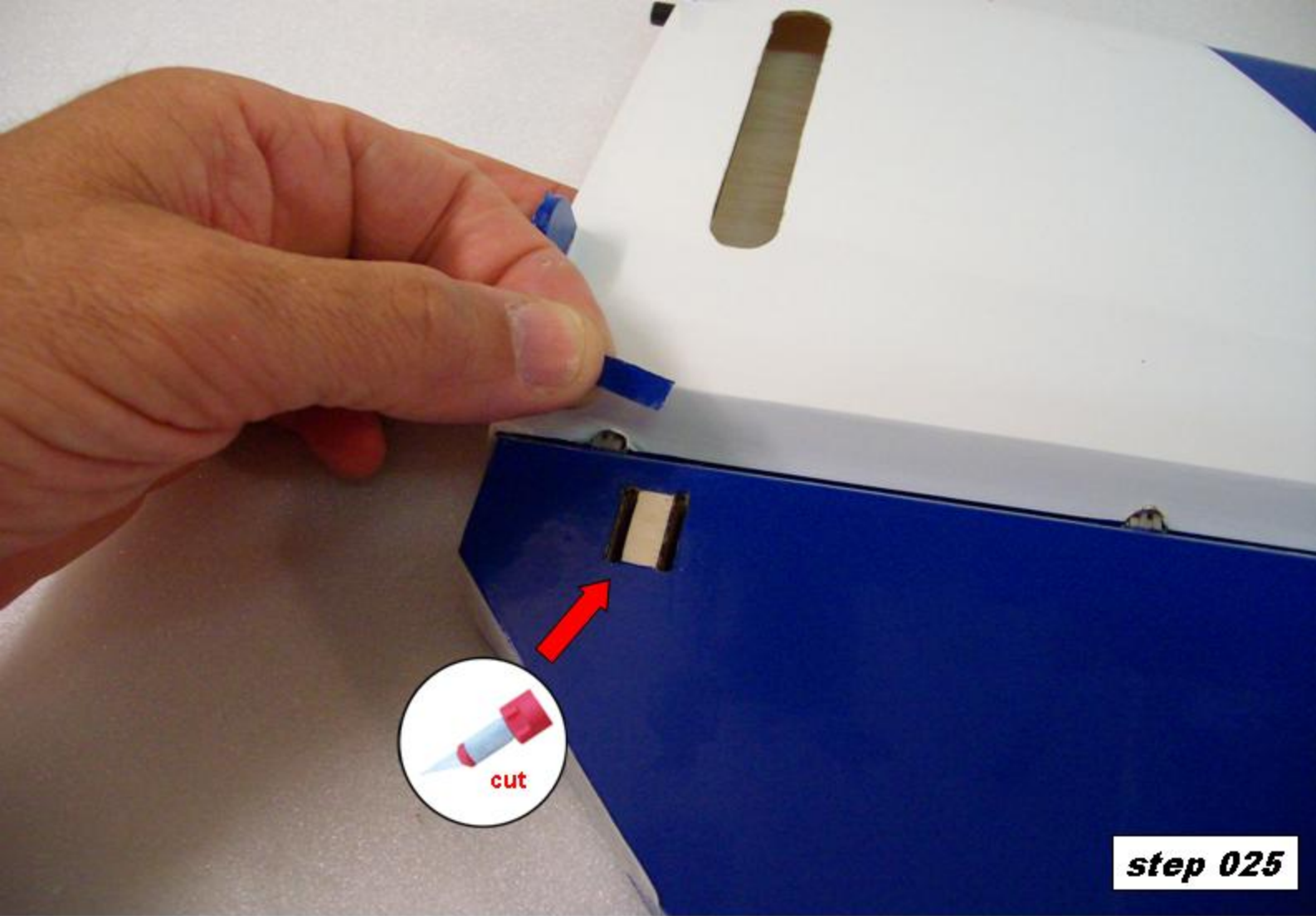
step 019

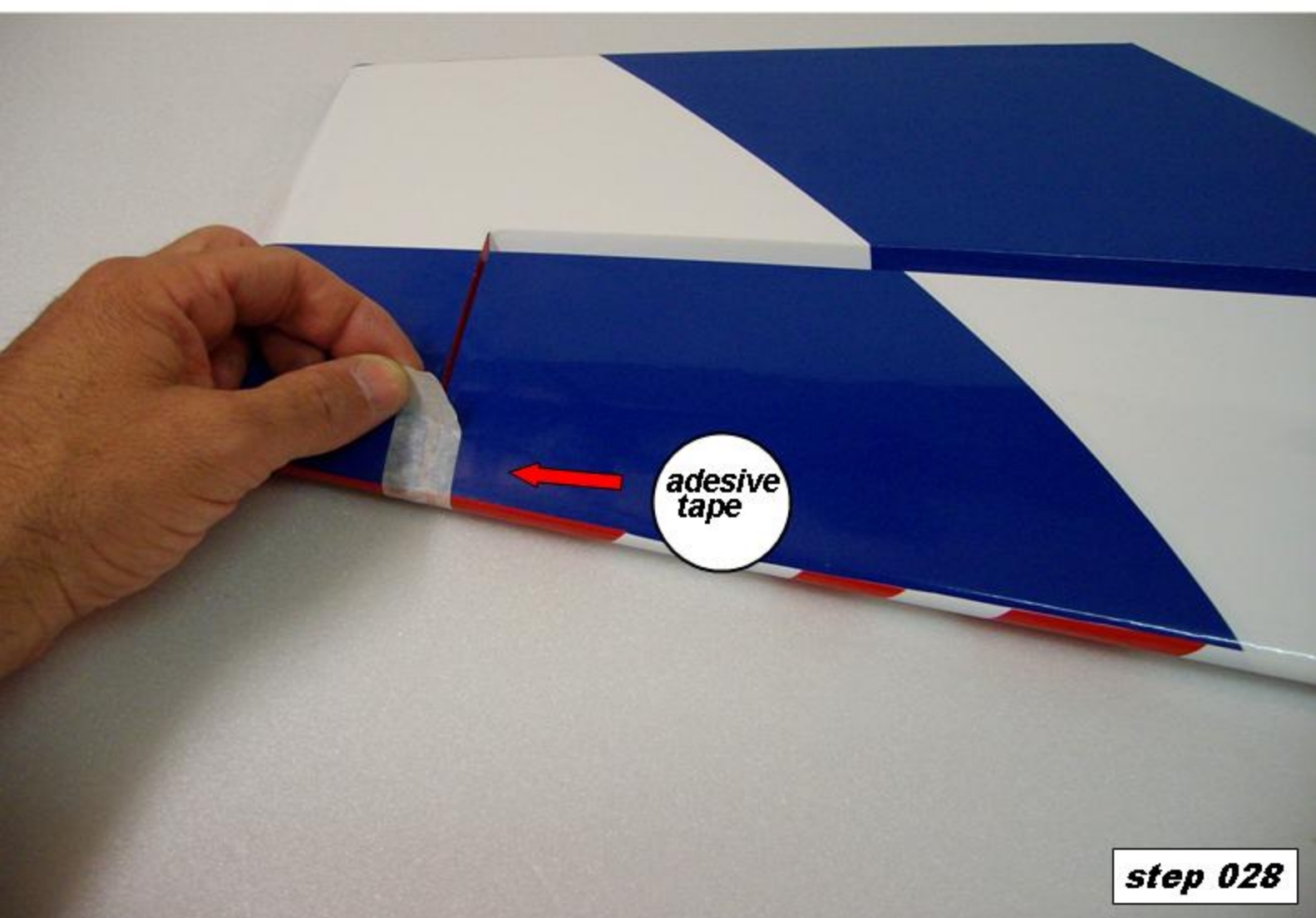
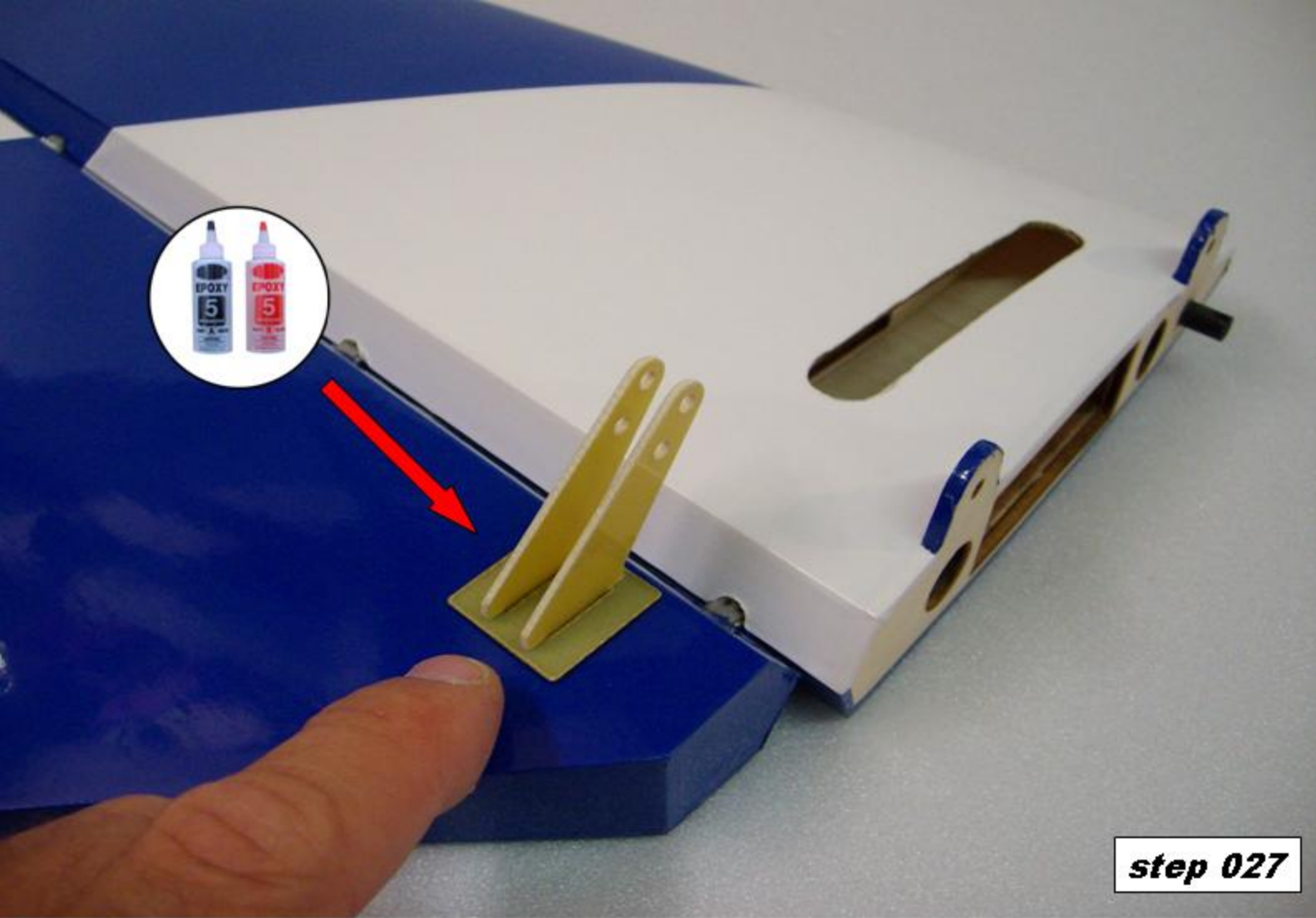


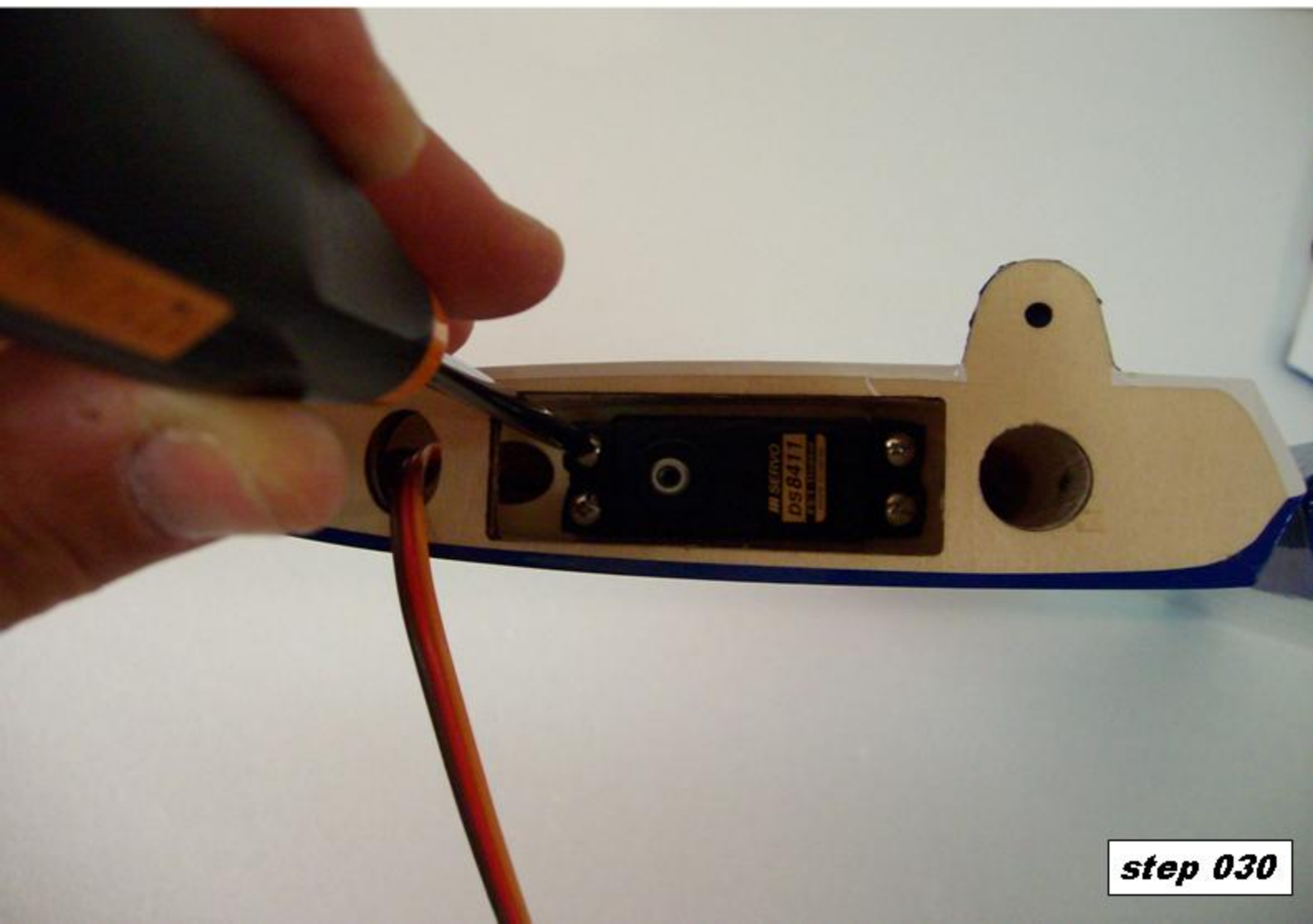
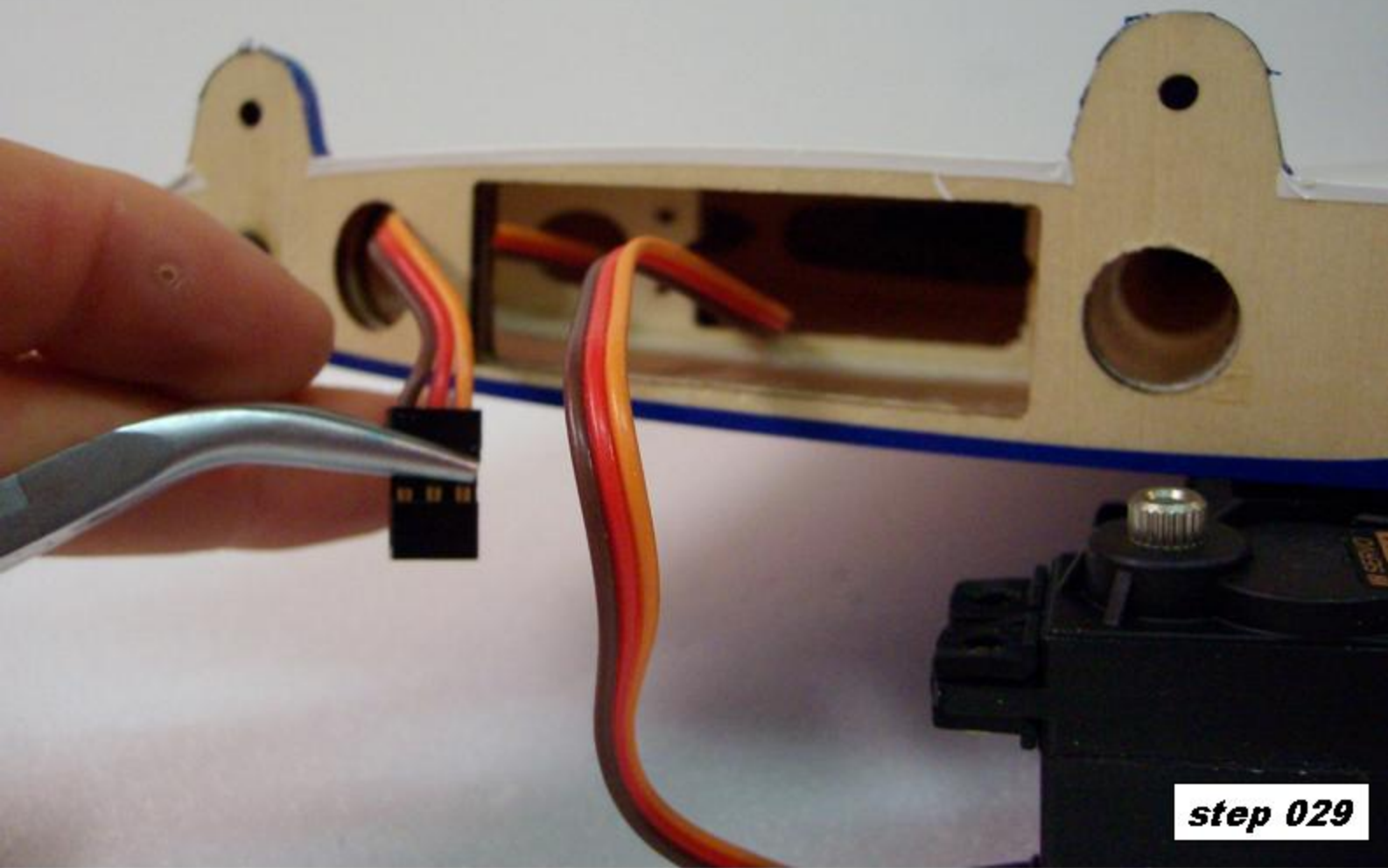
step 020

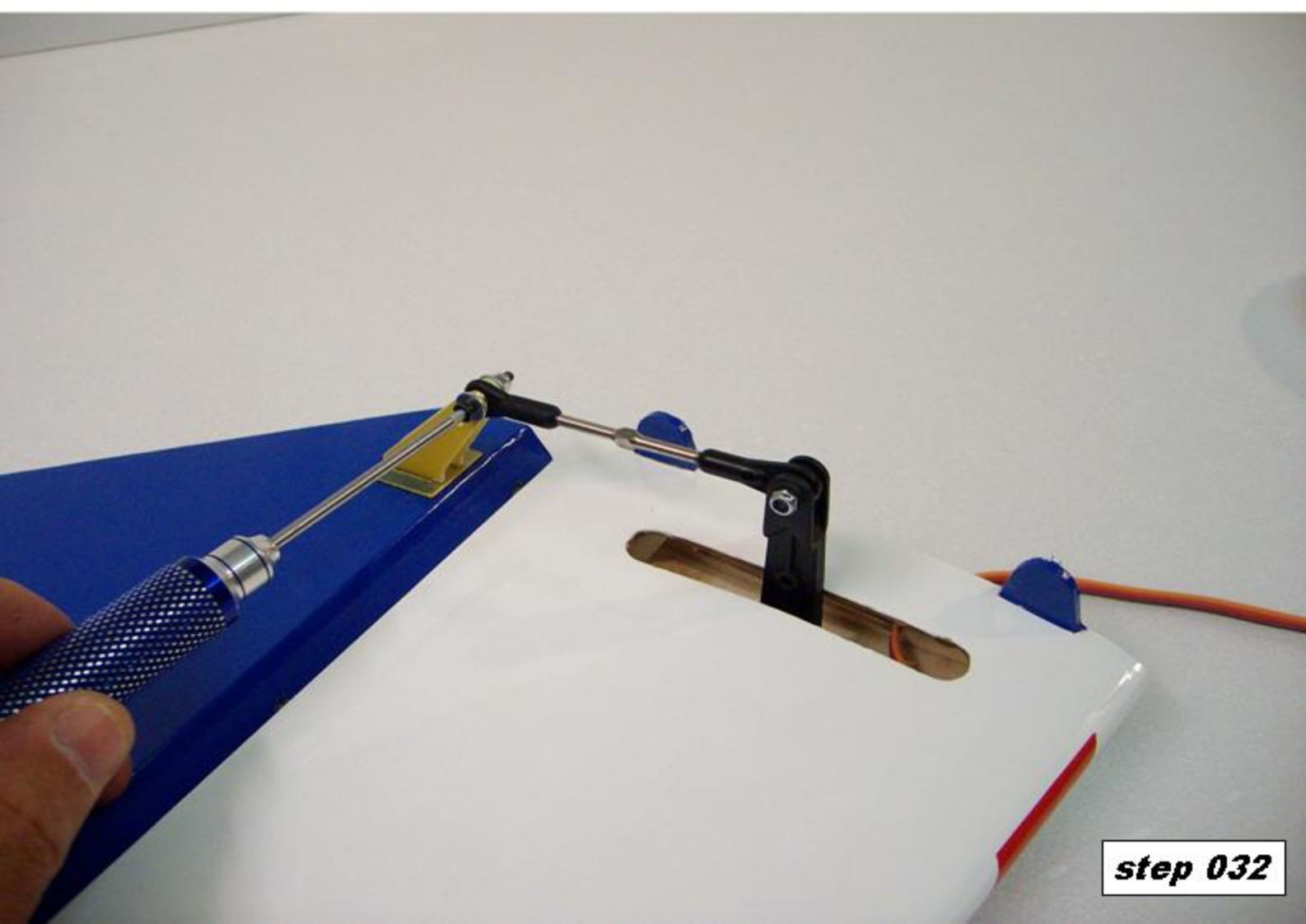
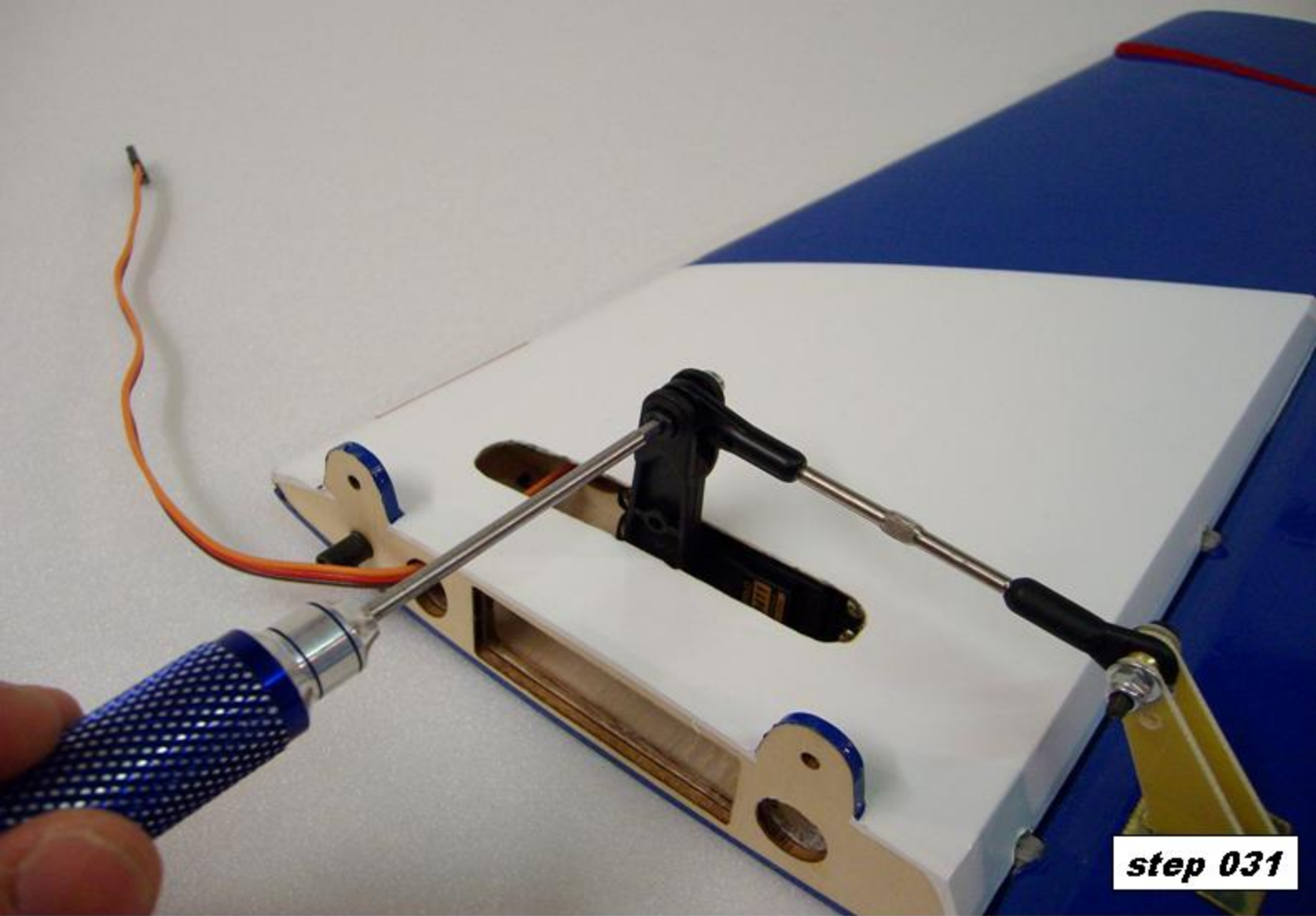


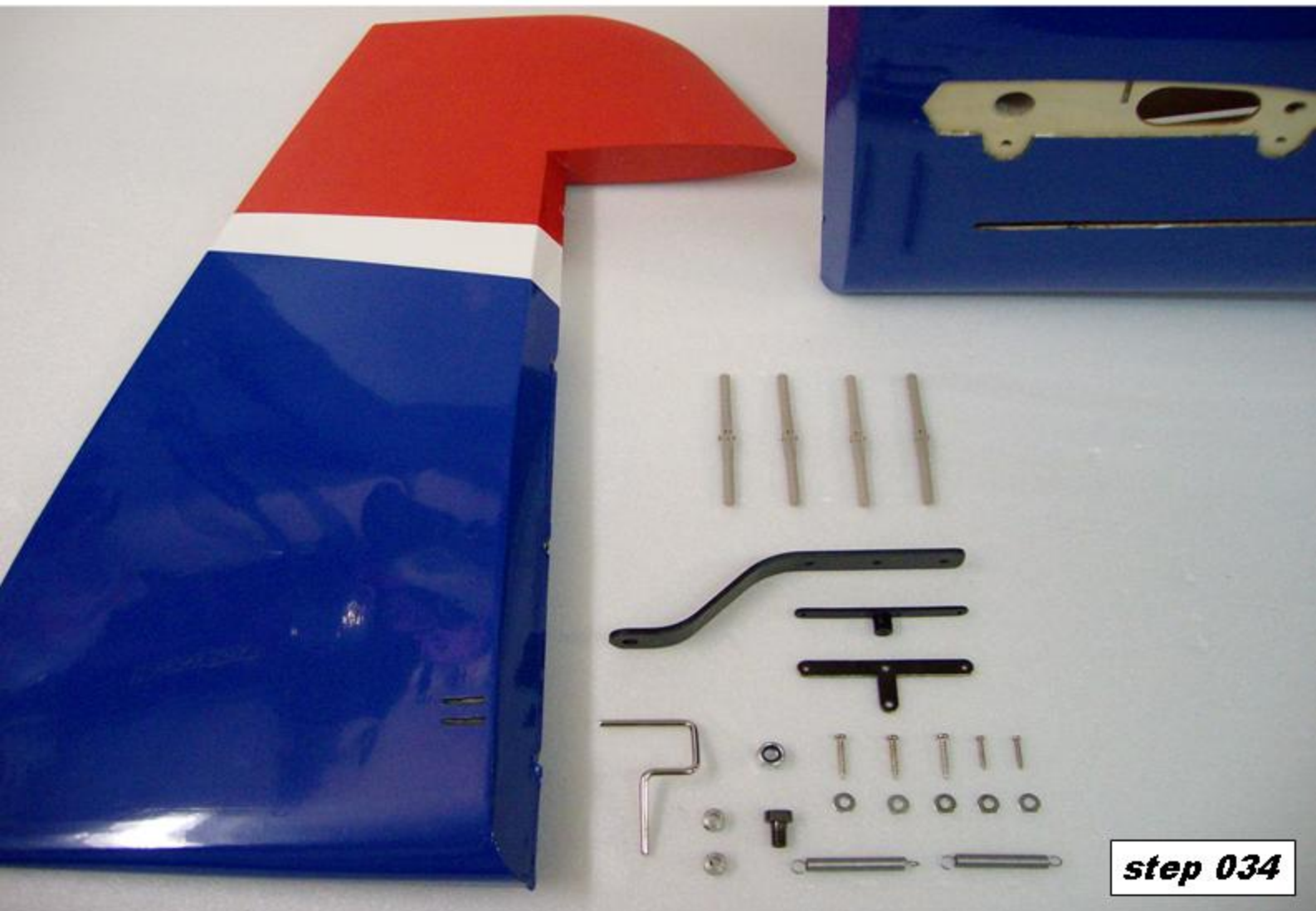
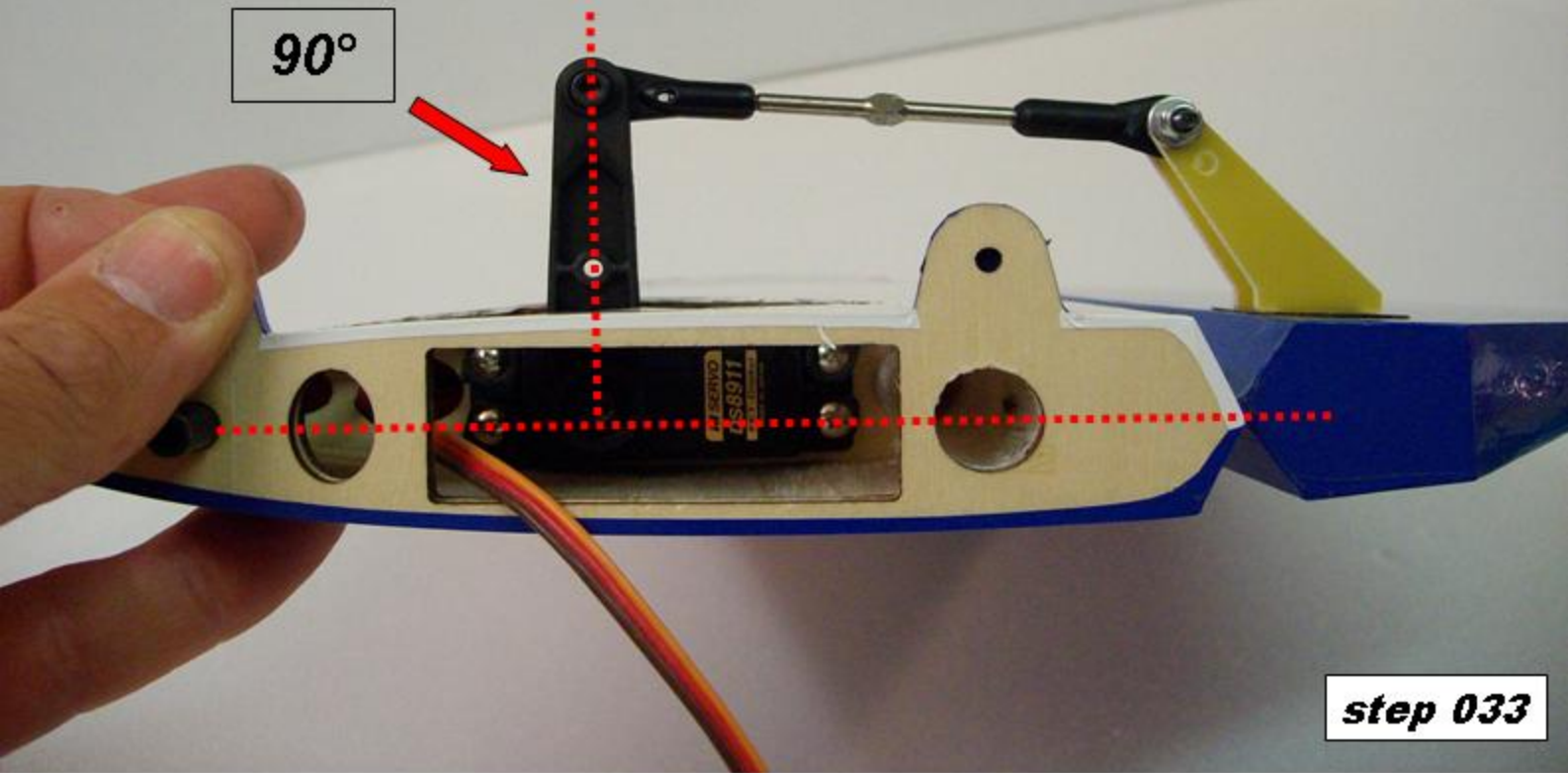


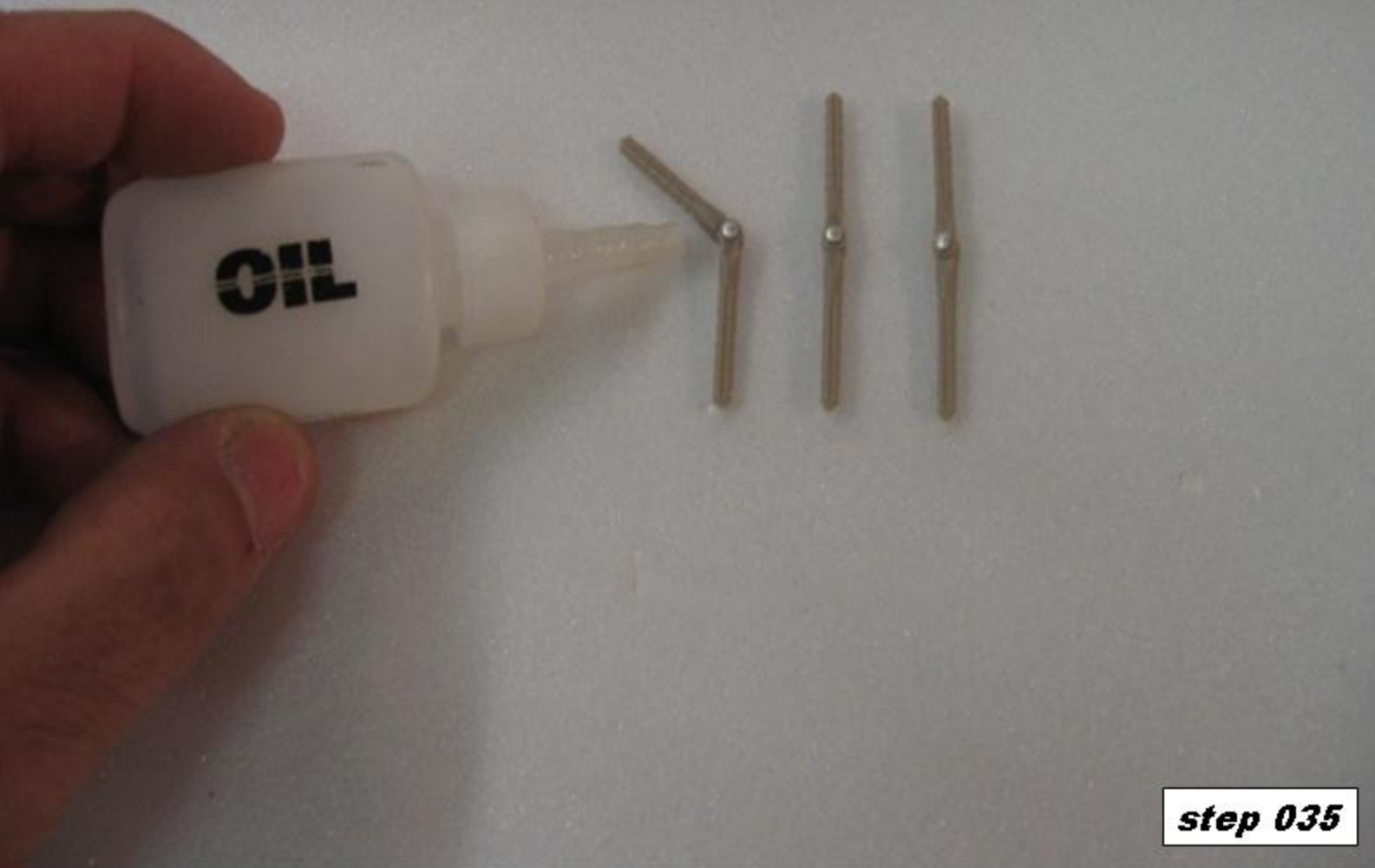




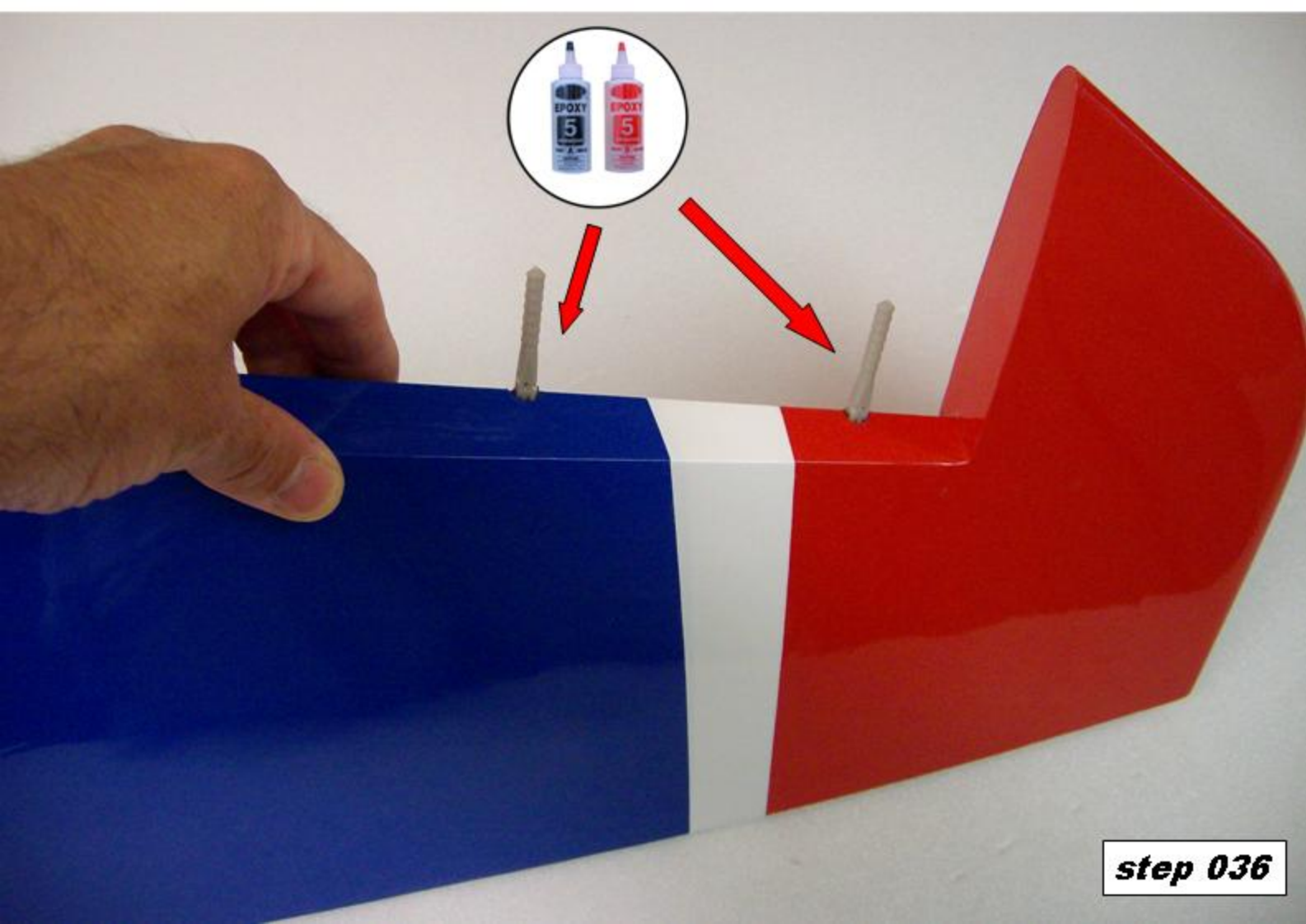




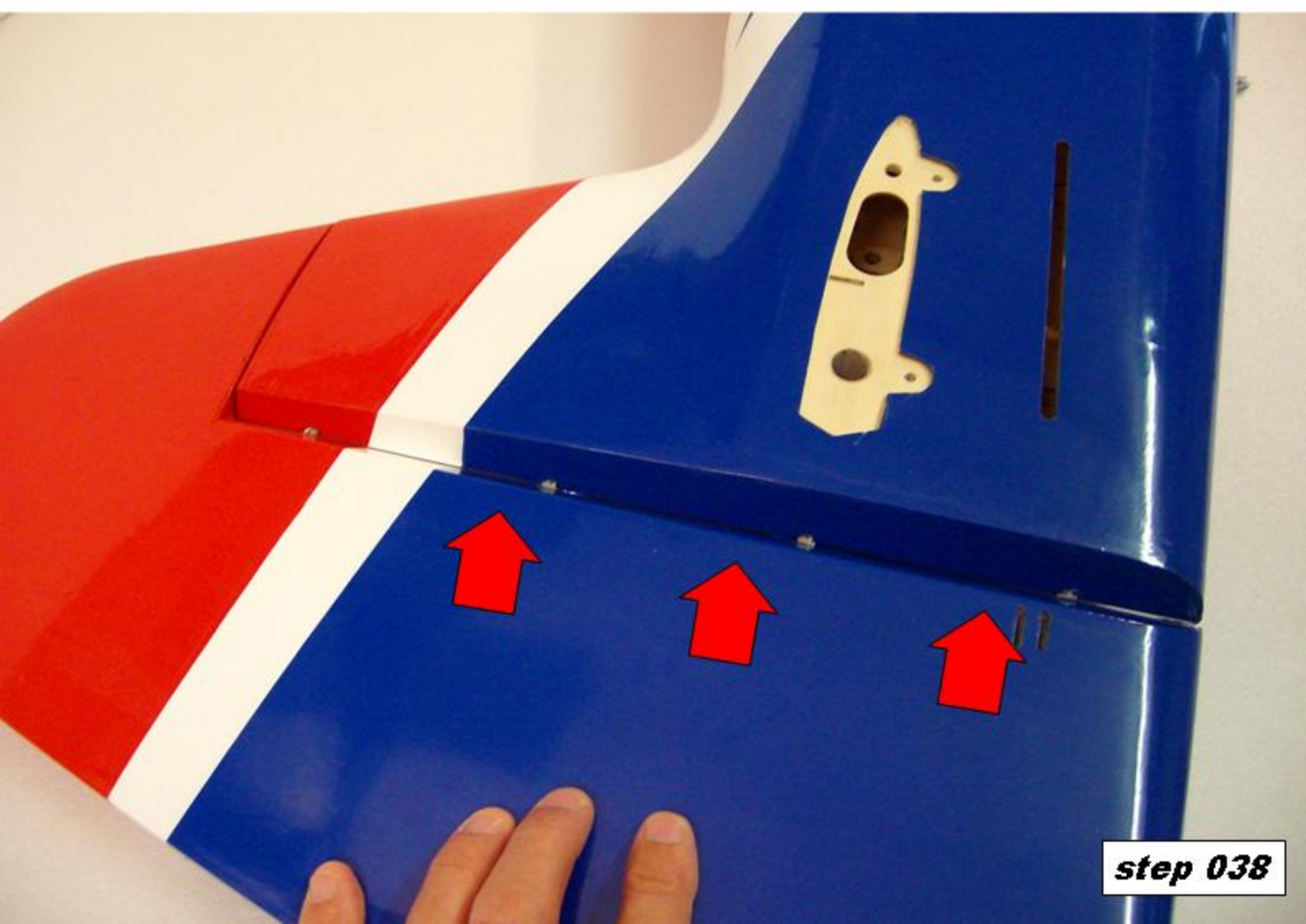
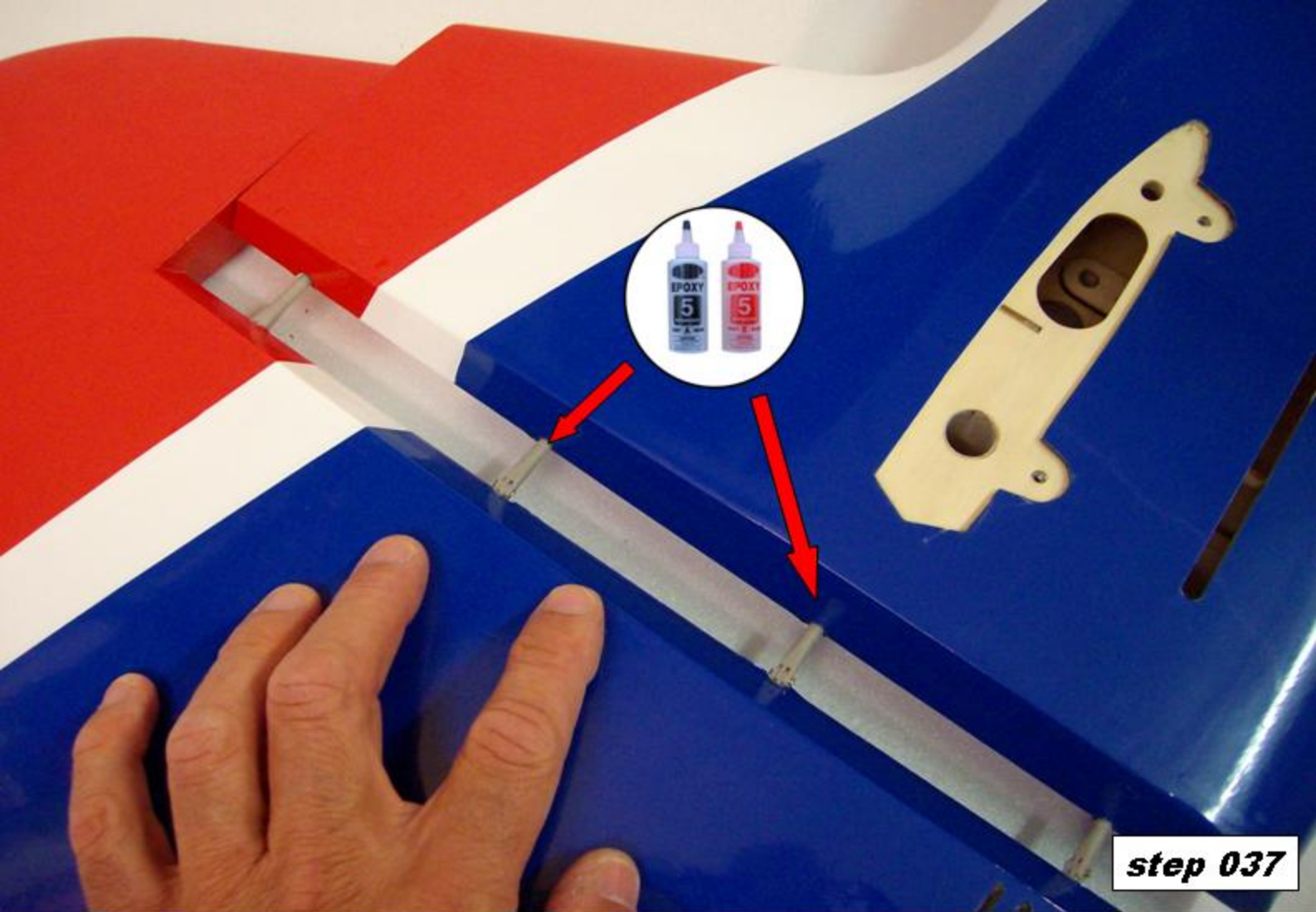




step 035



step 036

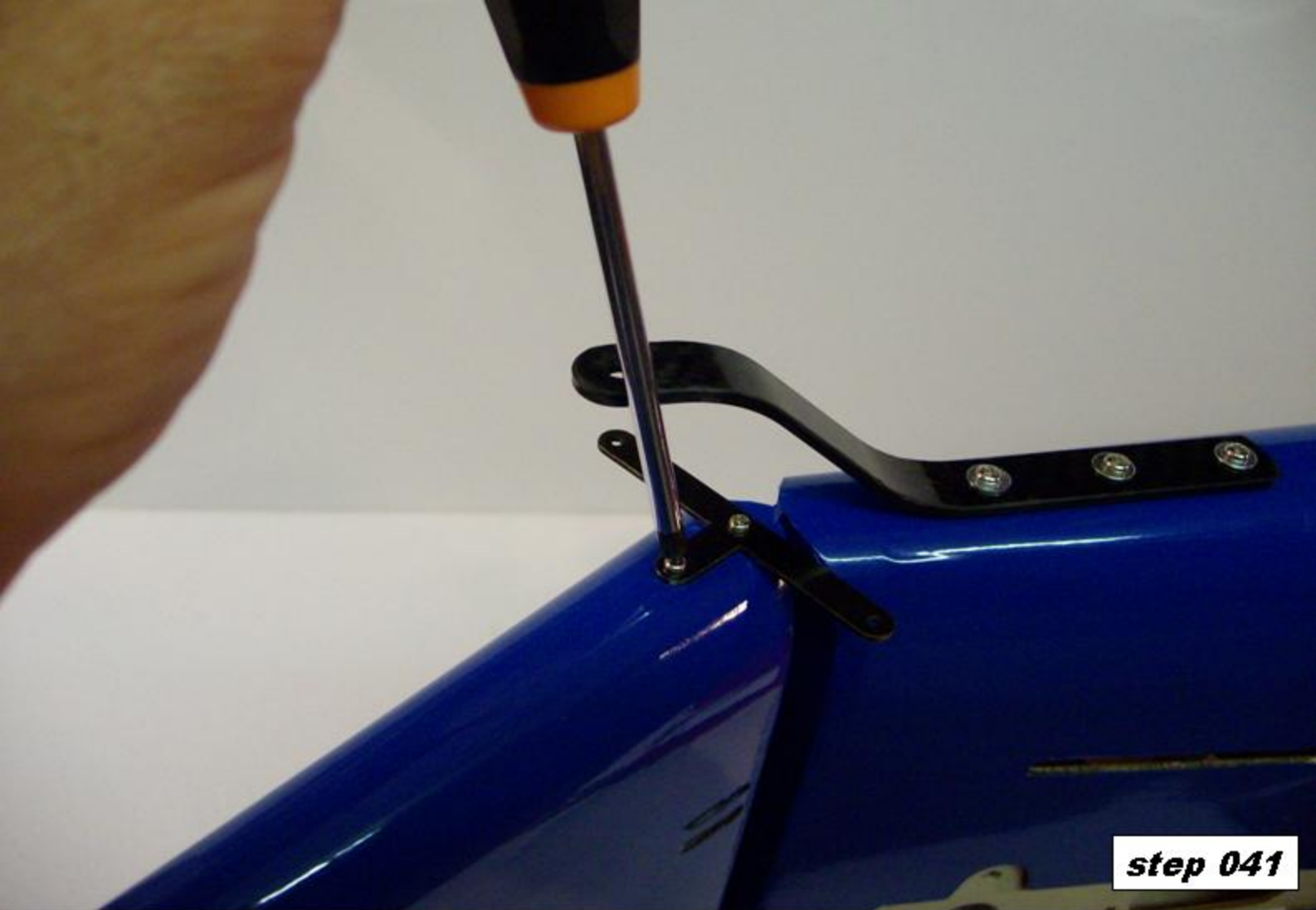




step 039



step 040





step 043



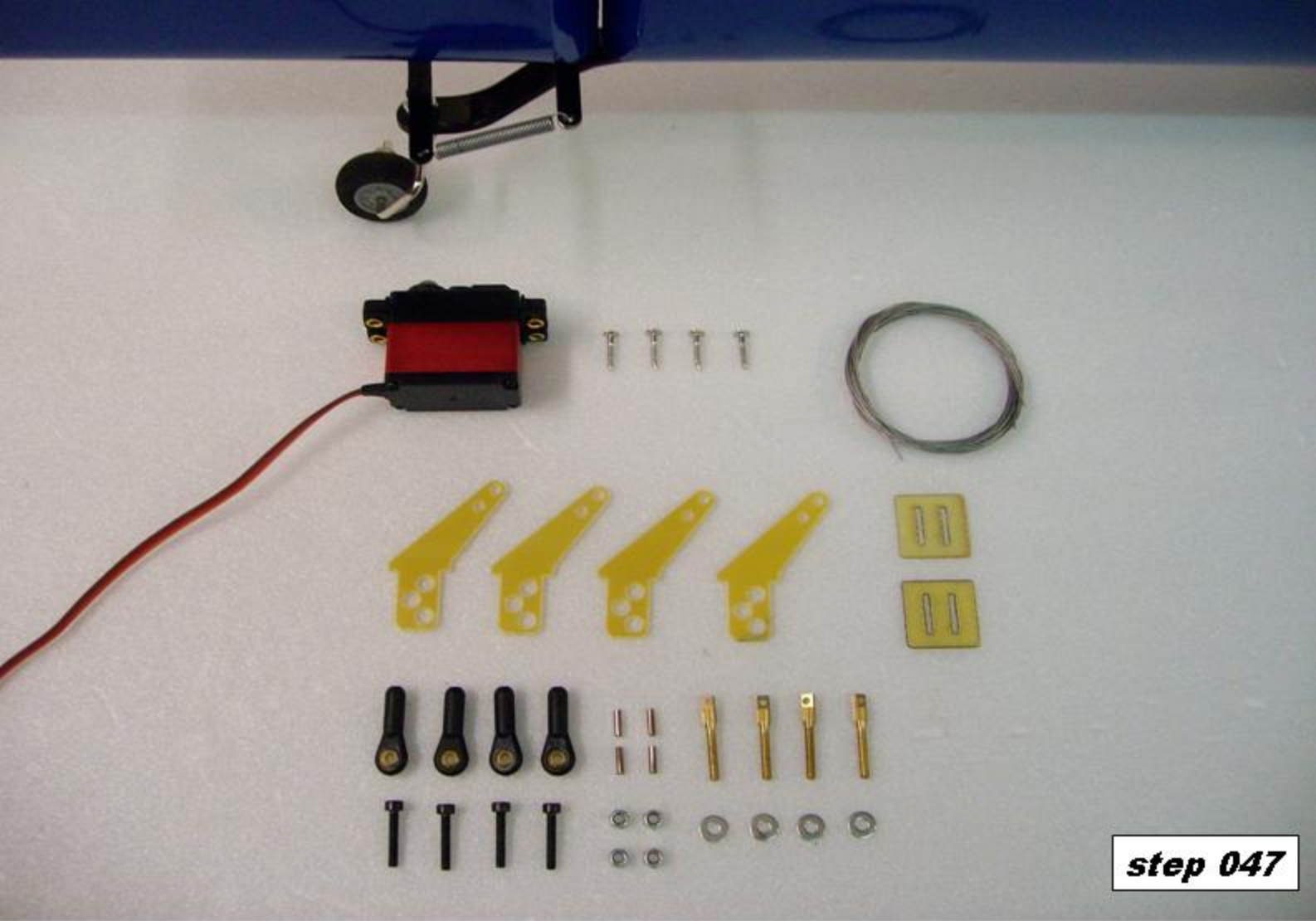
step 044



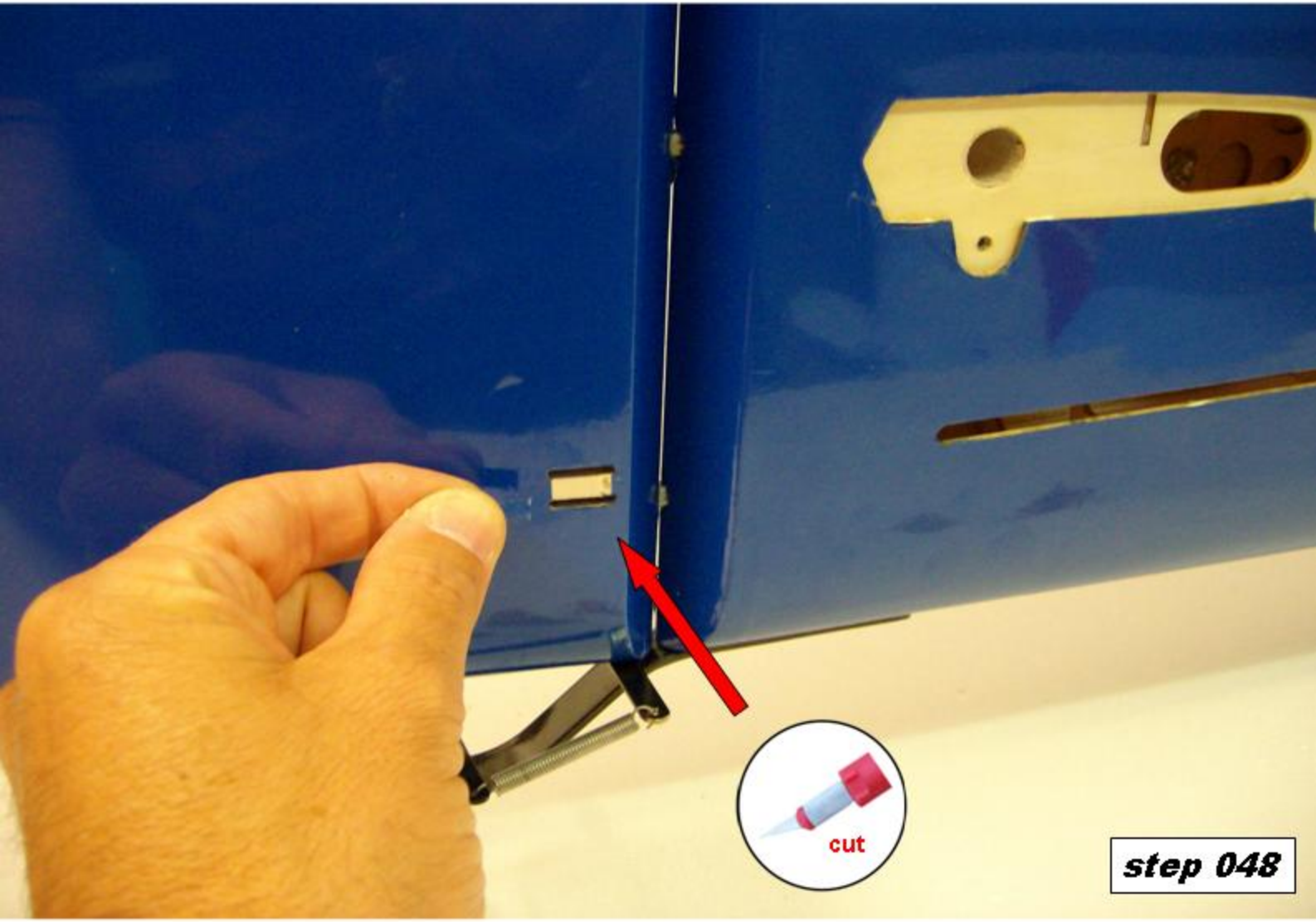
step 045



step 046



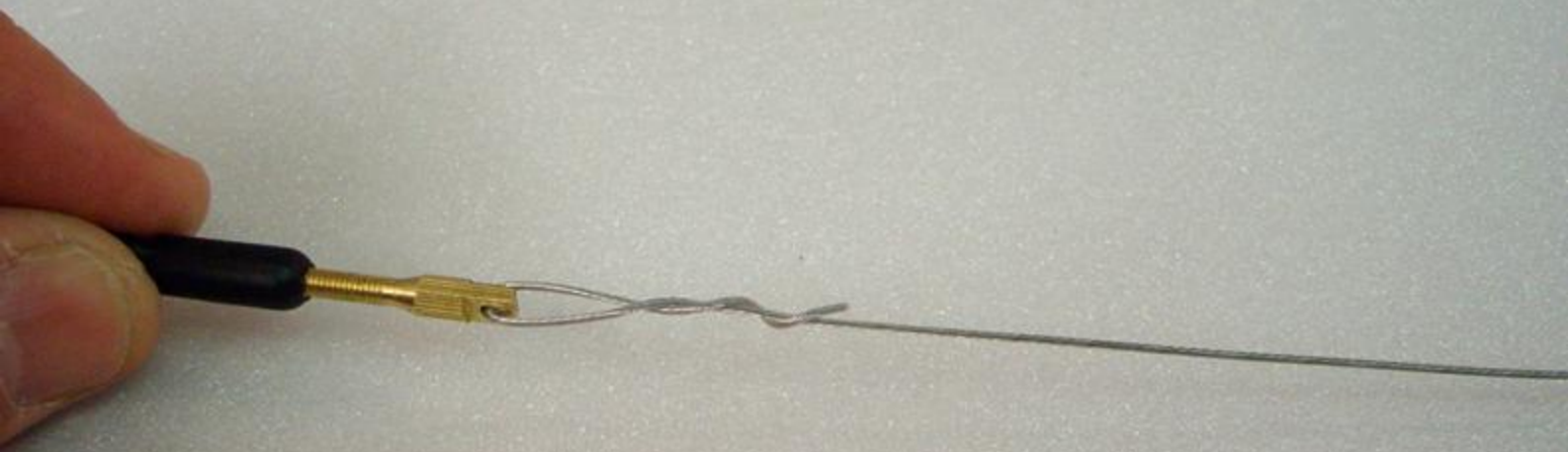
step 047



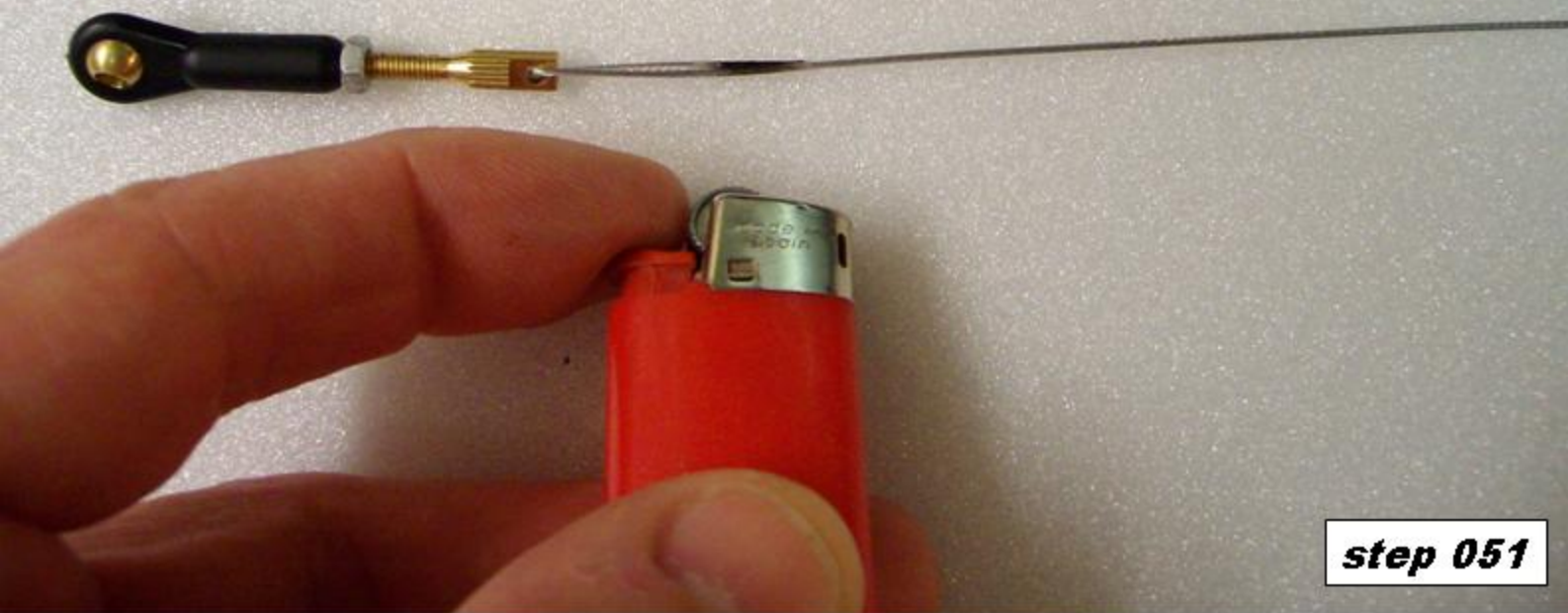
step 048



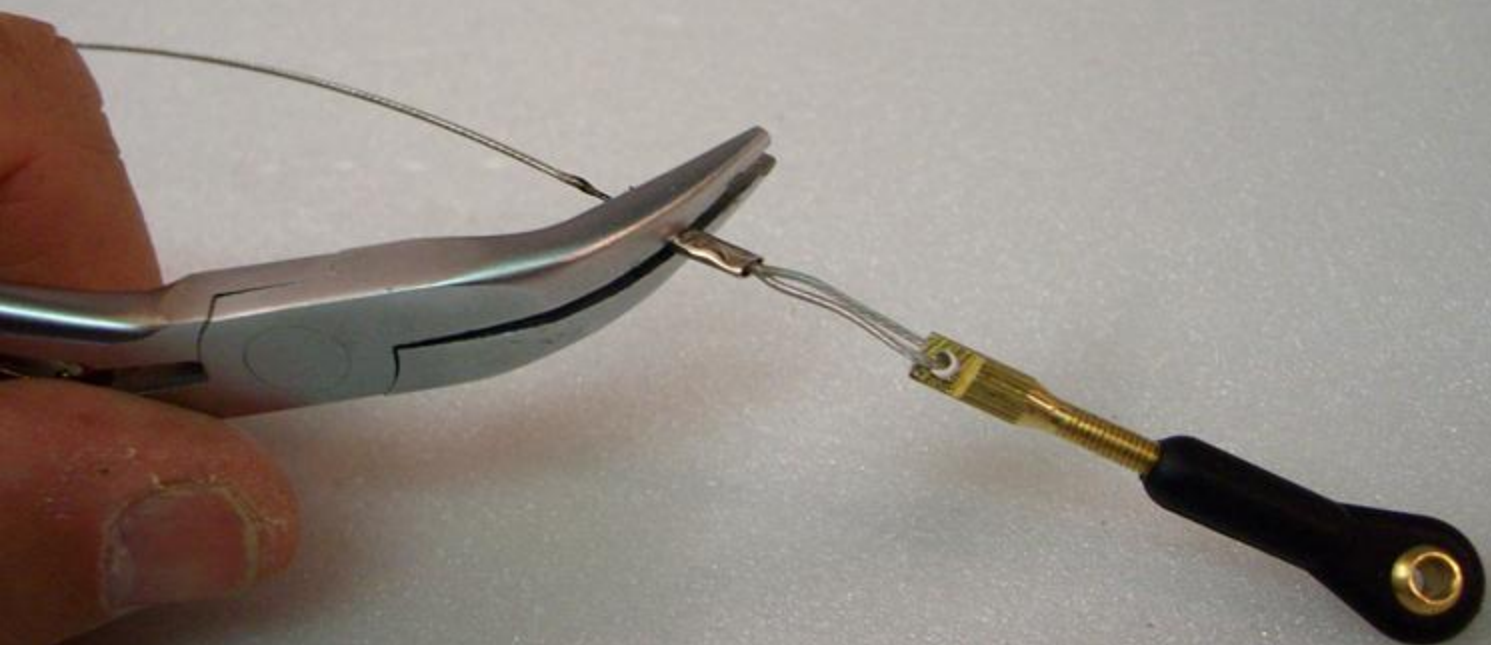
step 049



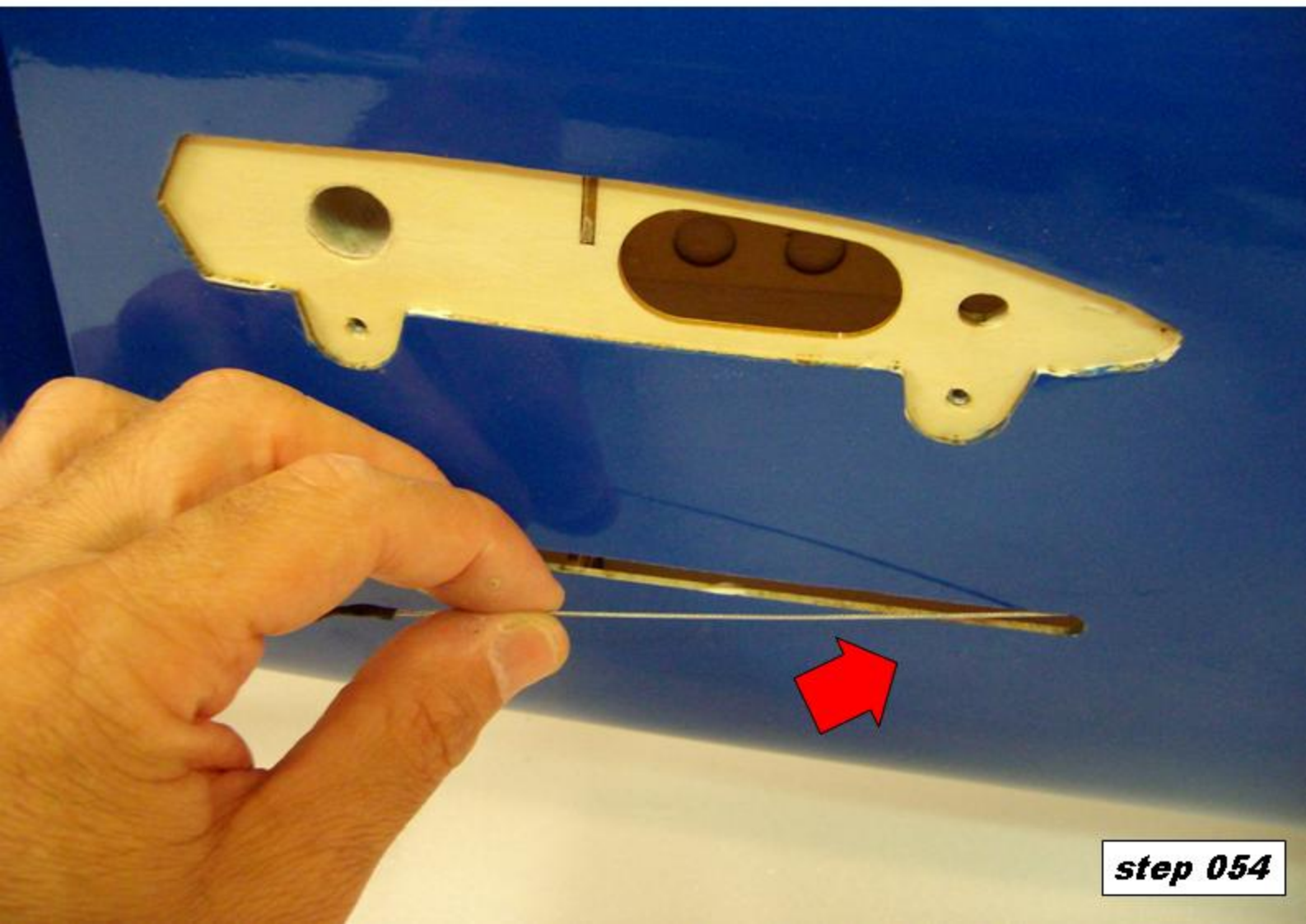
step 050

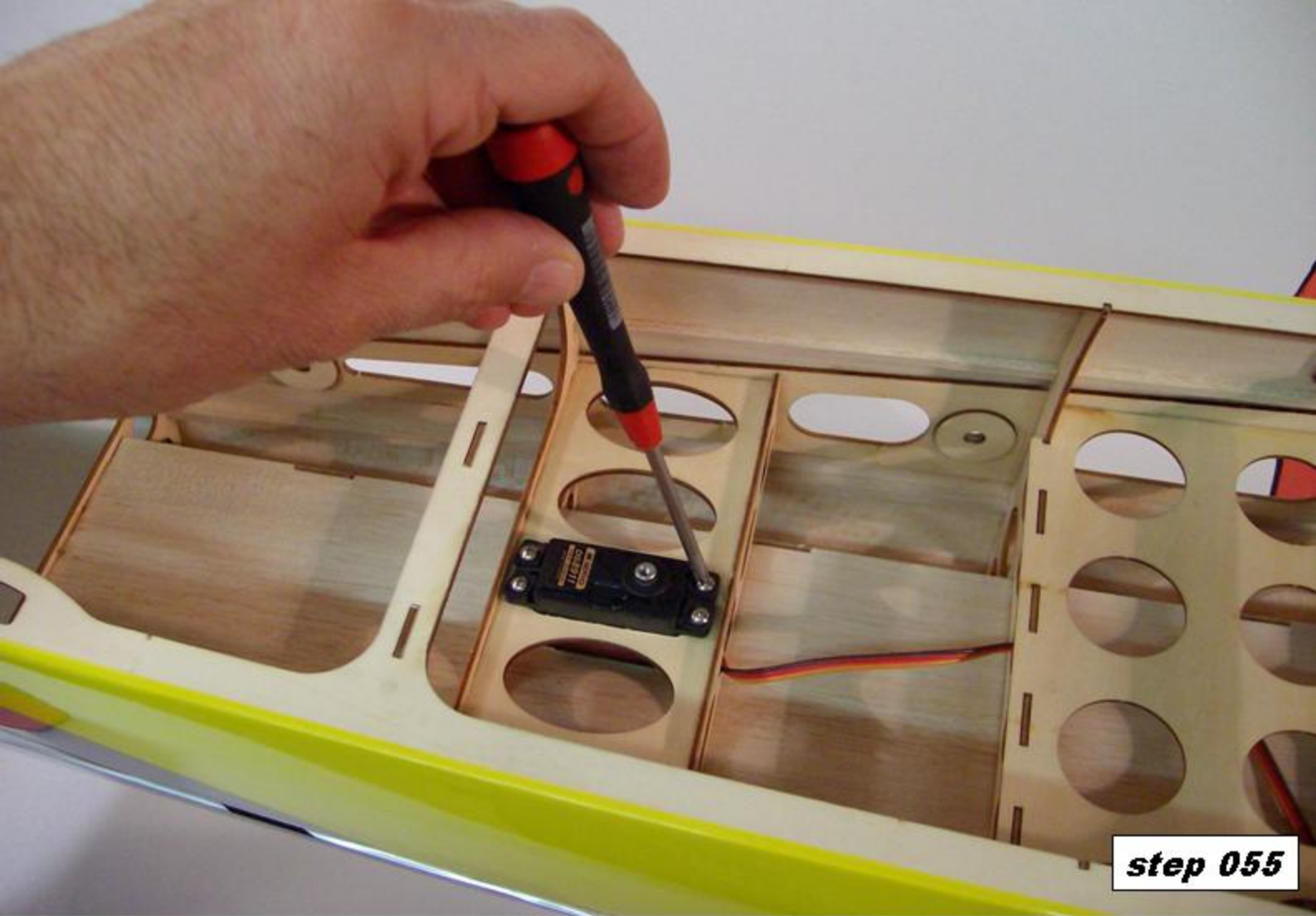


step 051

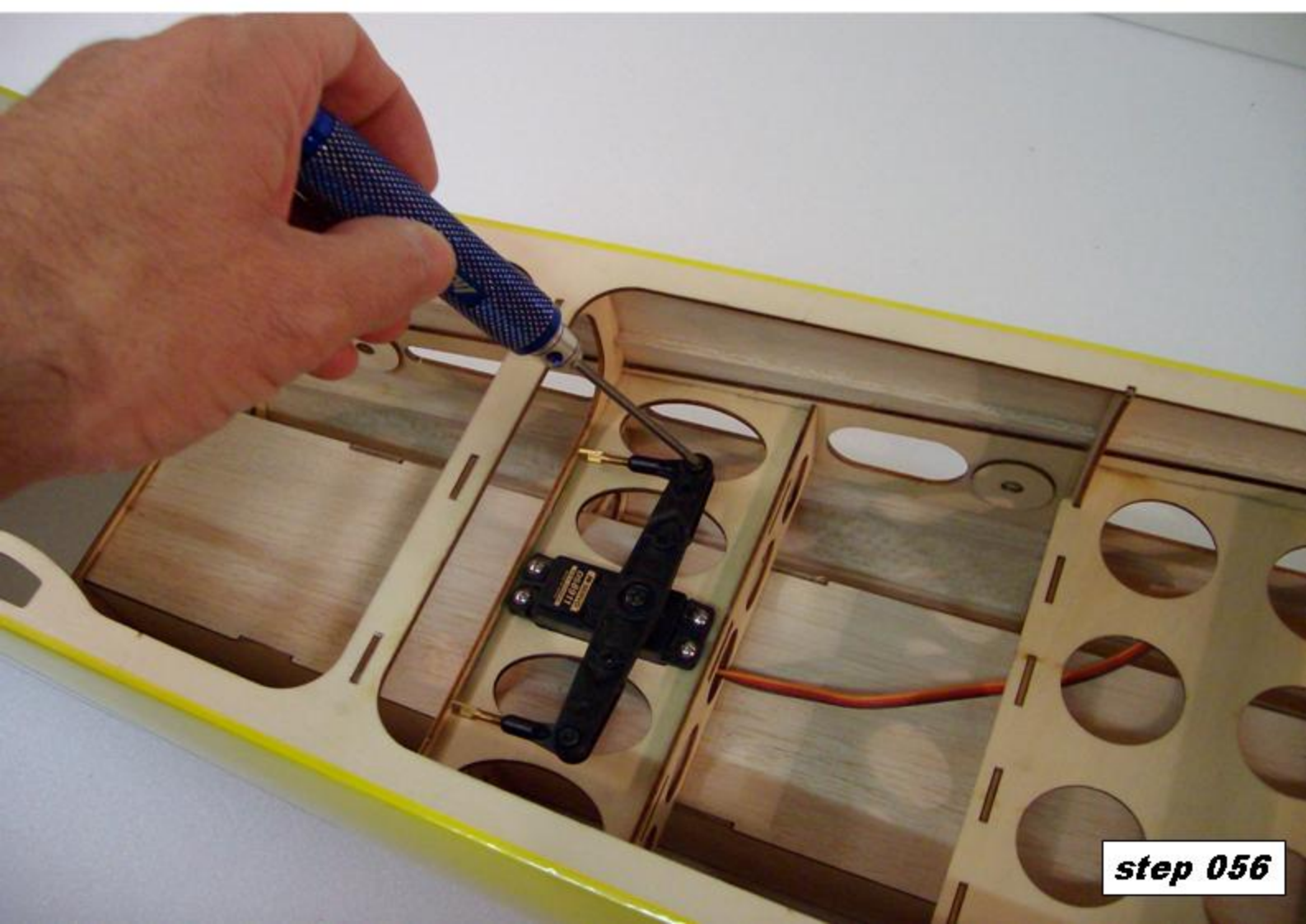


step 052



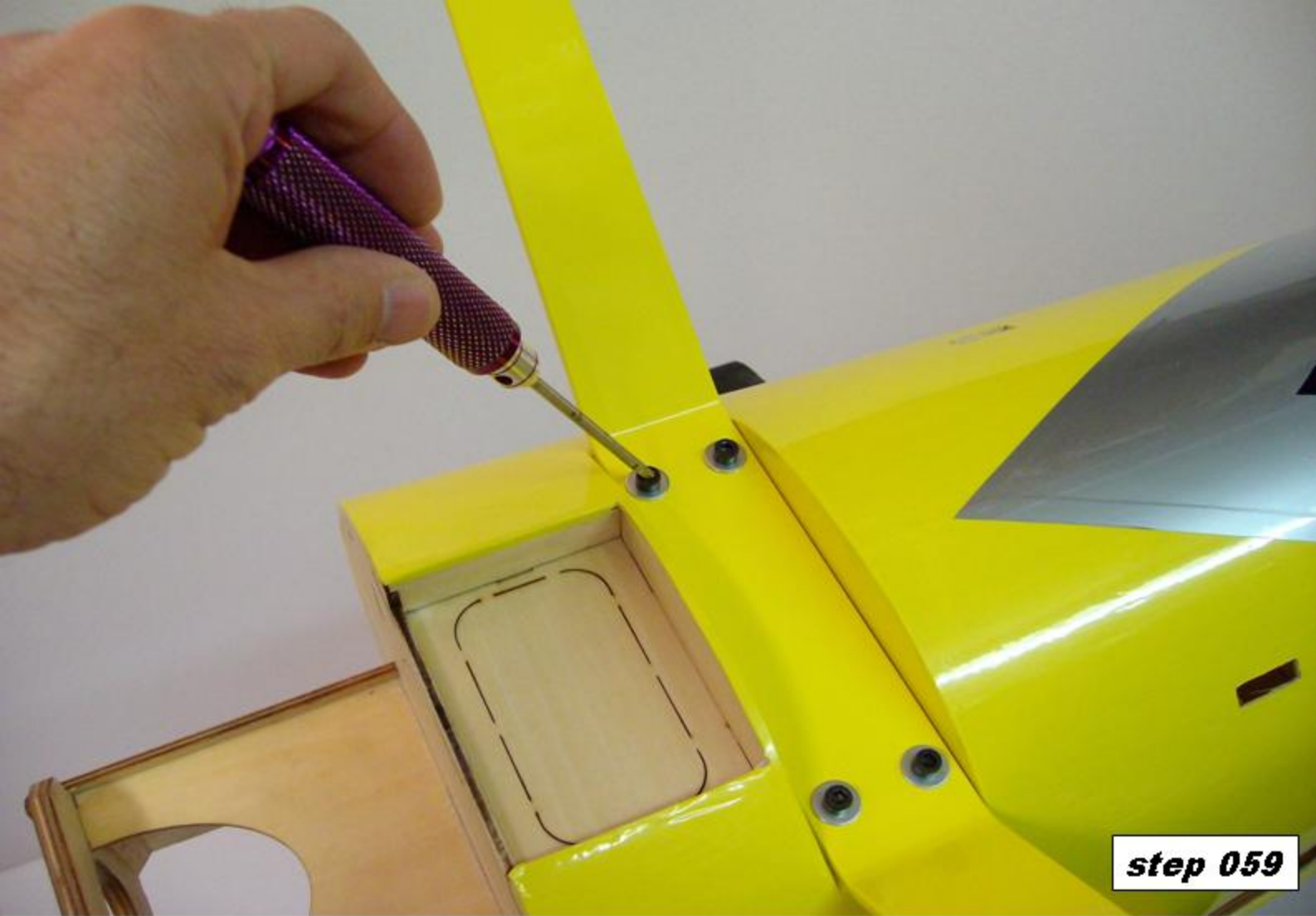


step 055

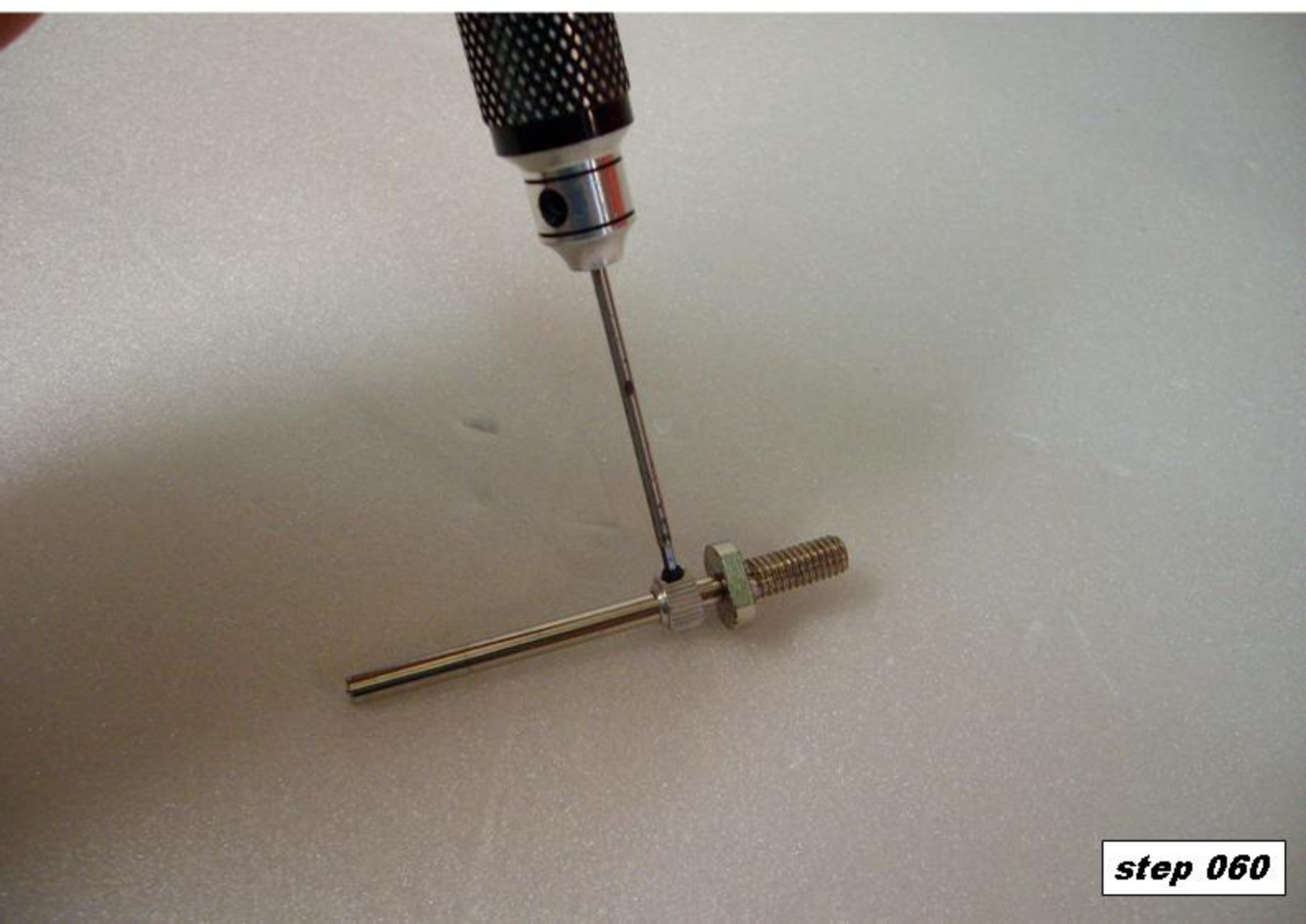


step 056





step 059



step 060



step 061



step 062



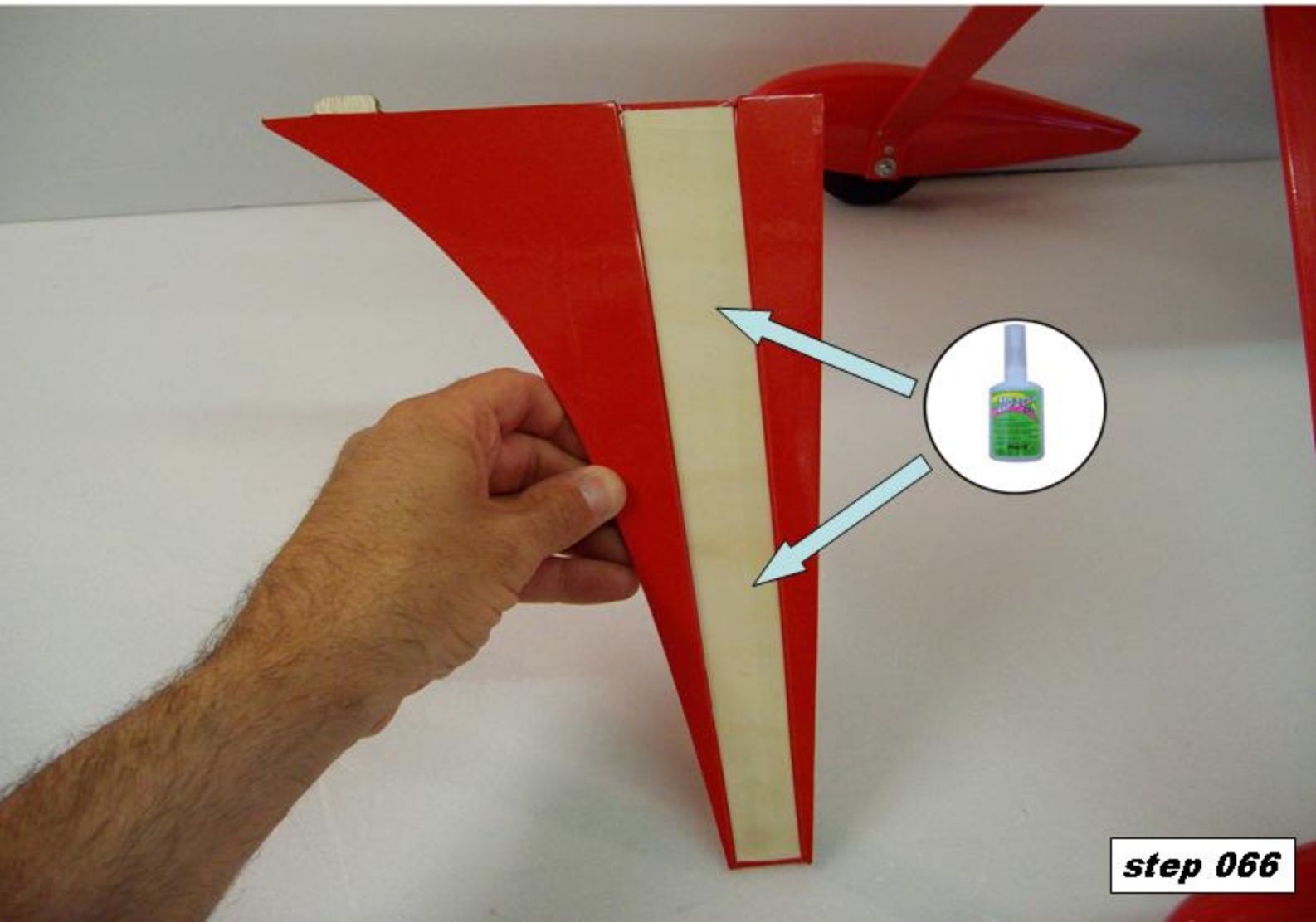
step 063



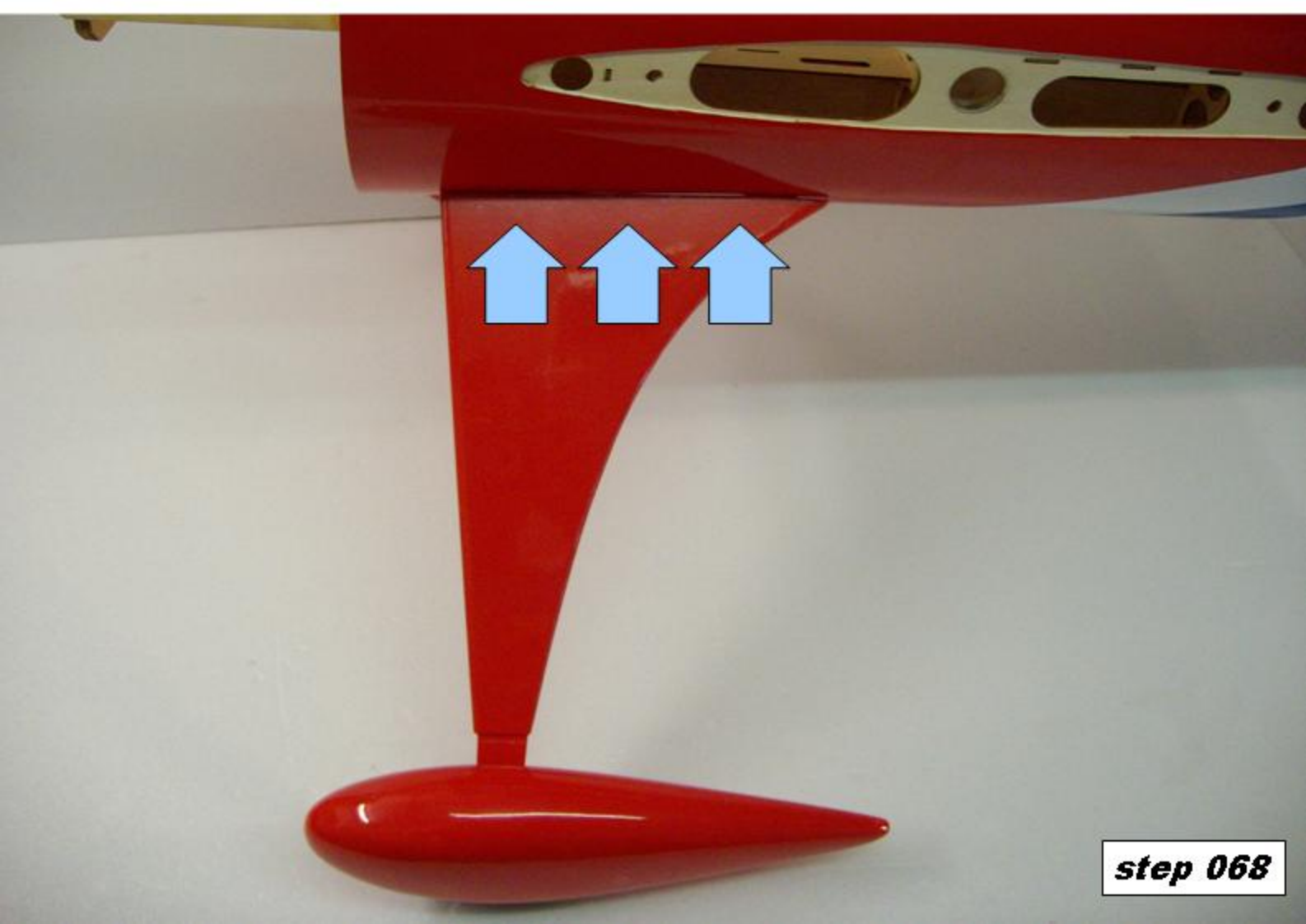
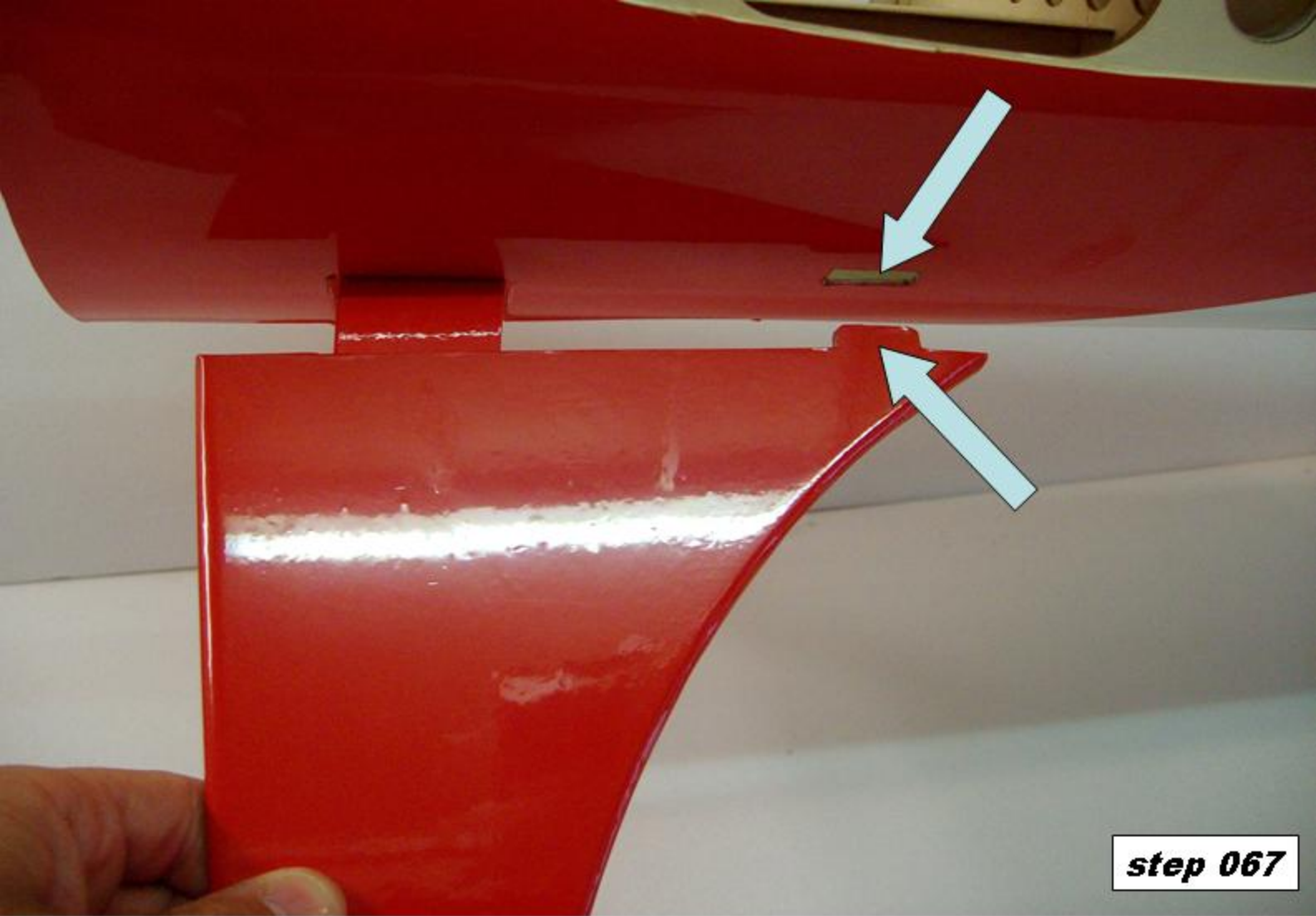
step 064

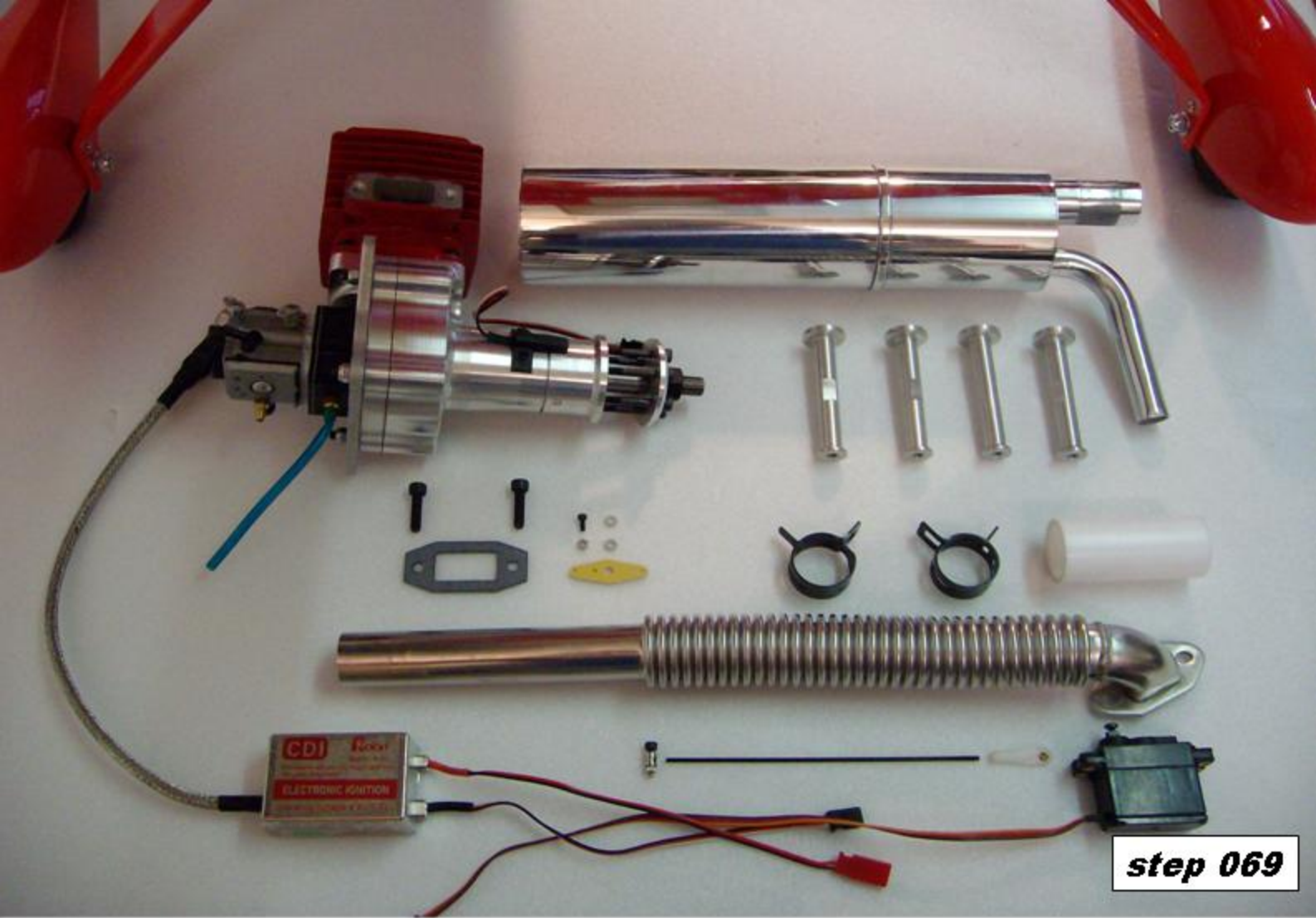


step 065

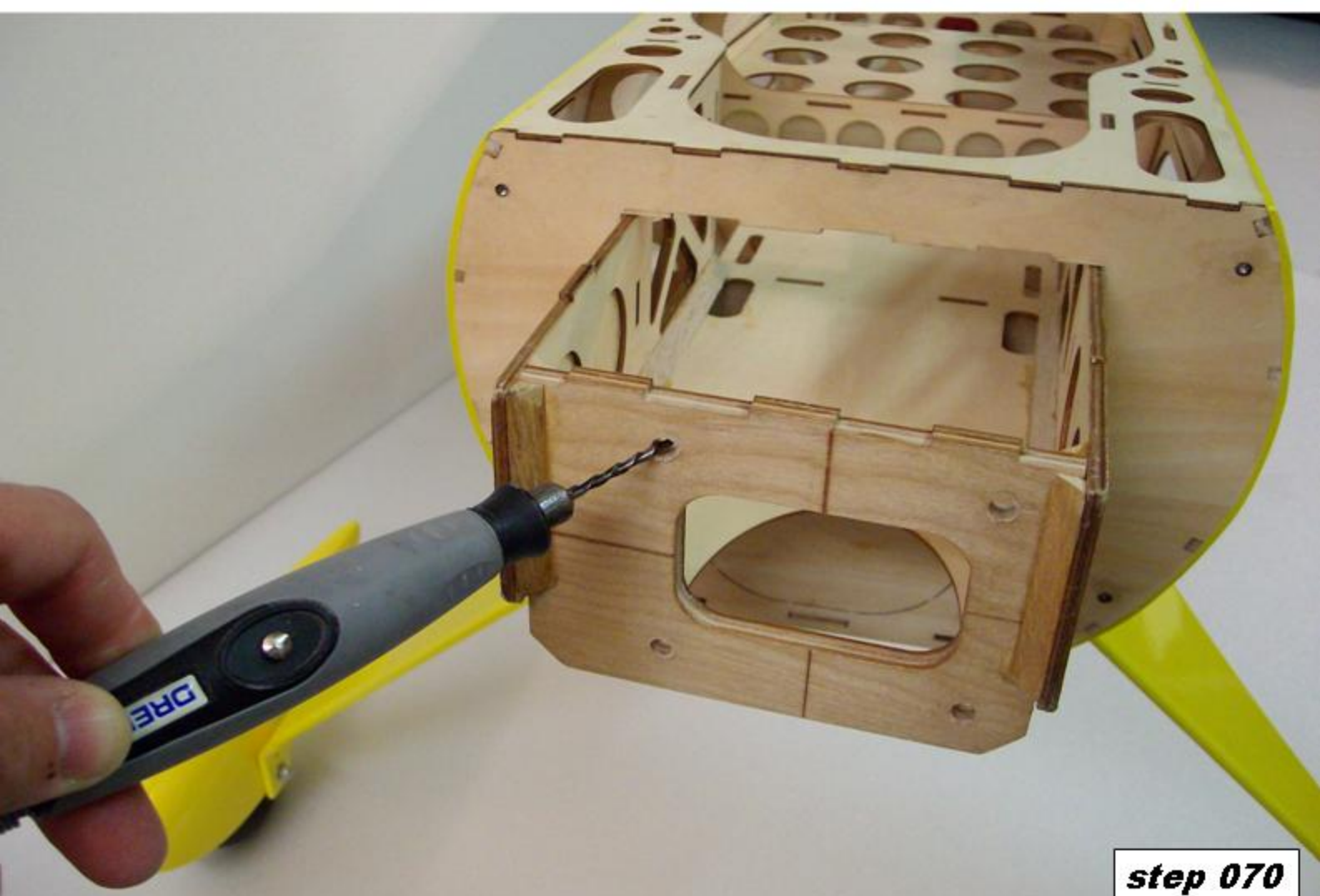


step 066

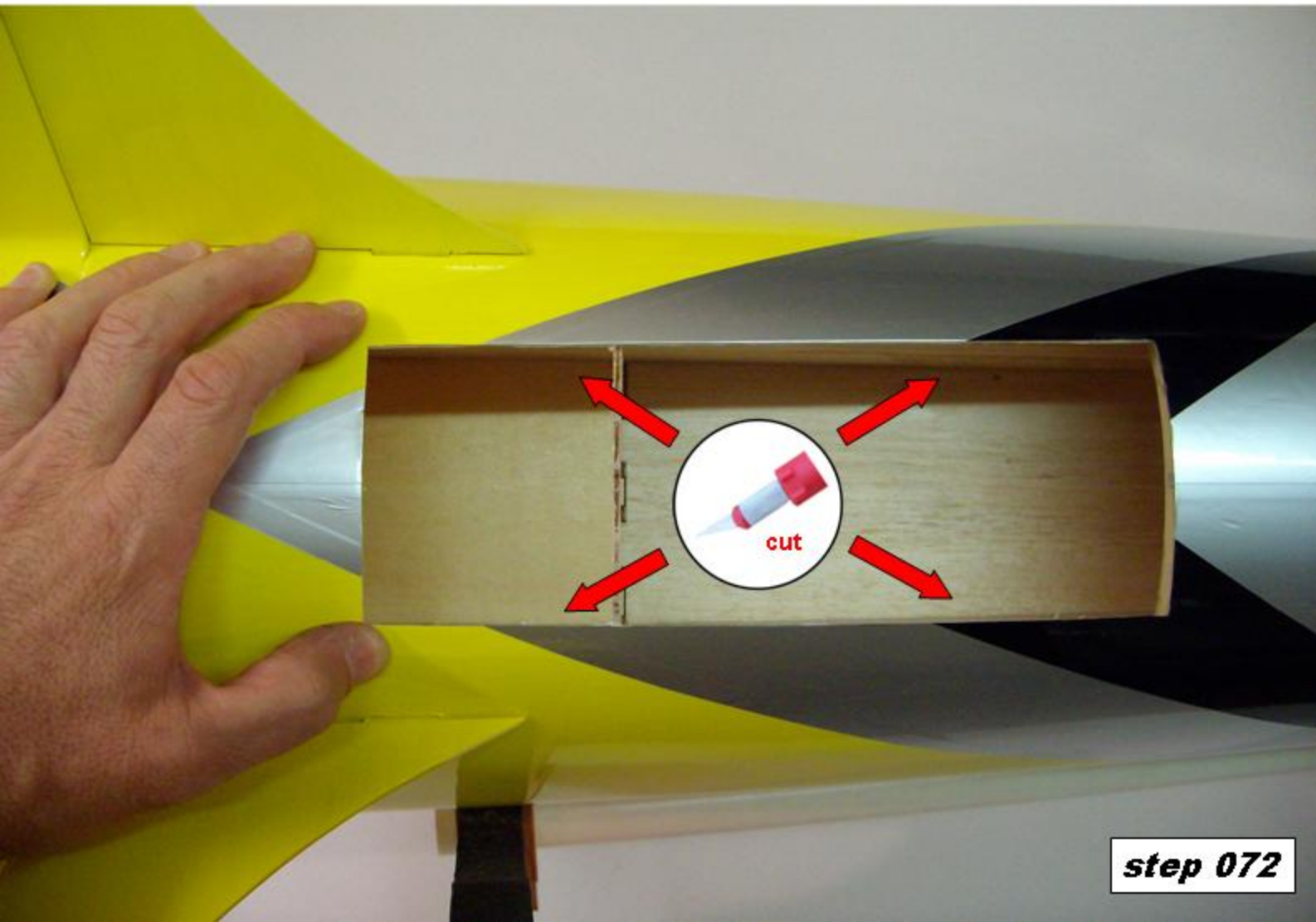
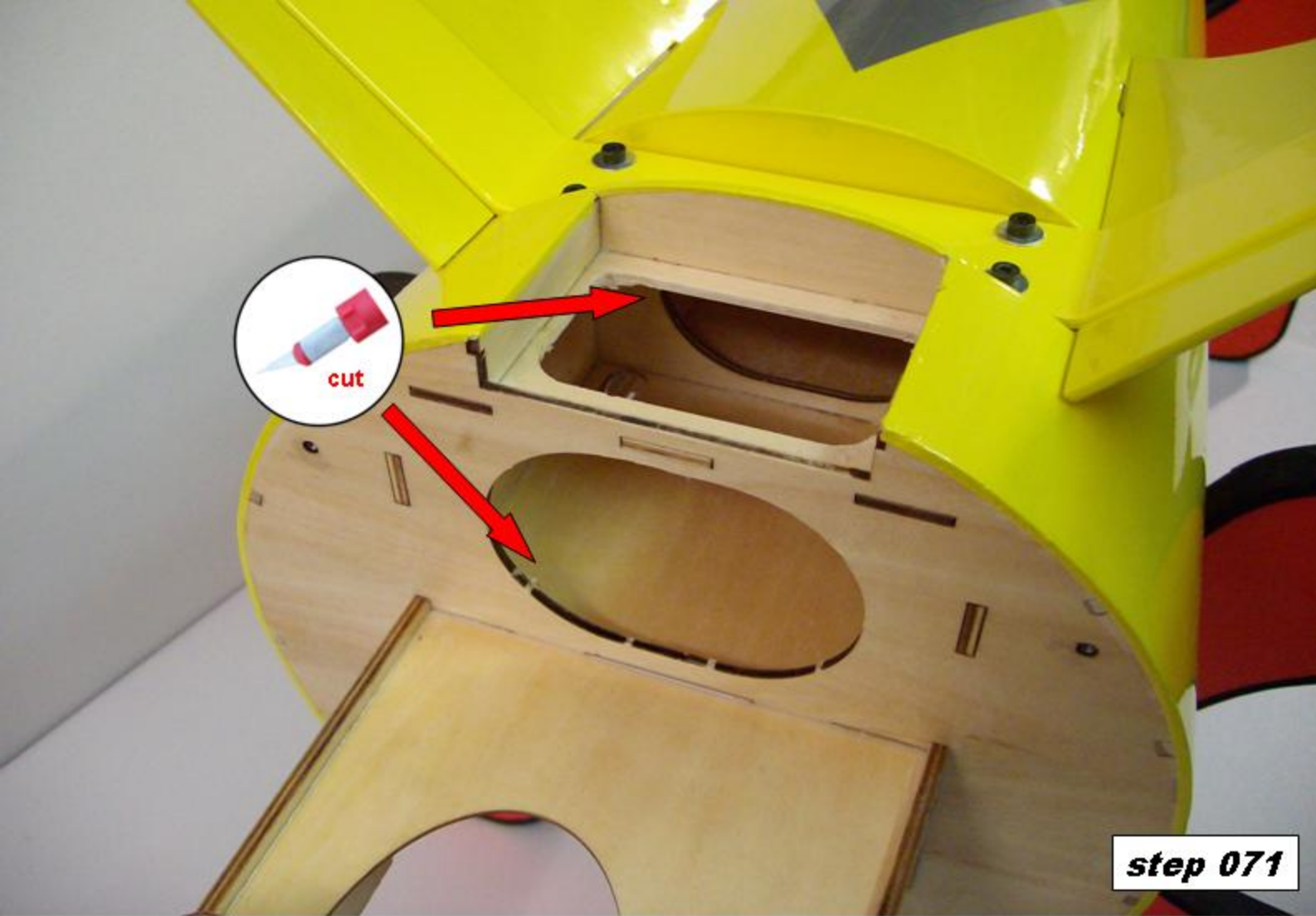




step 069

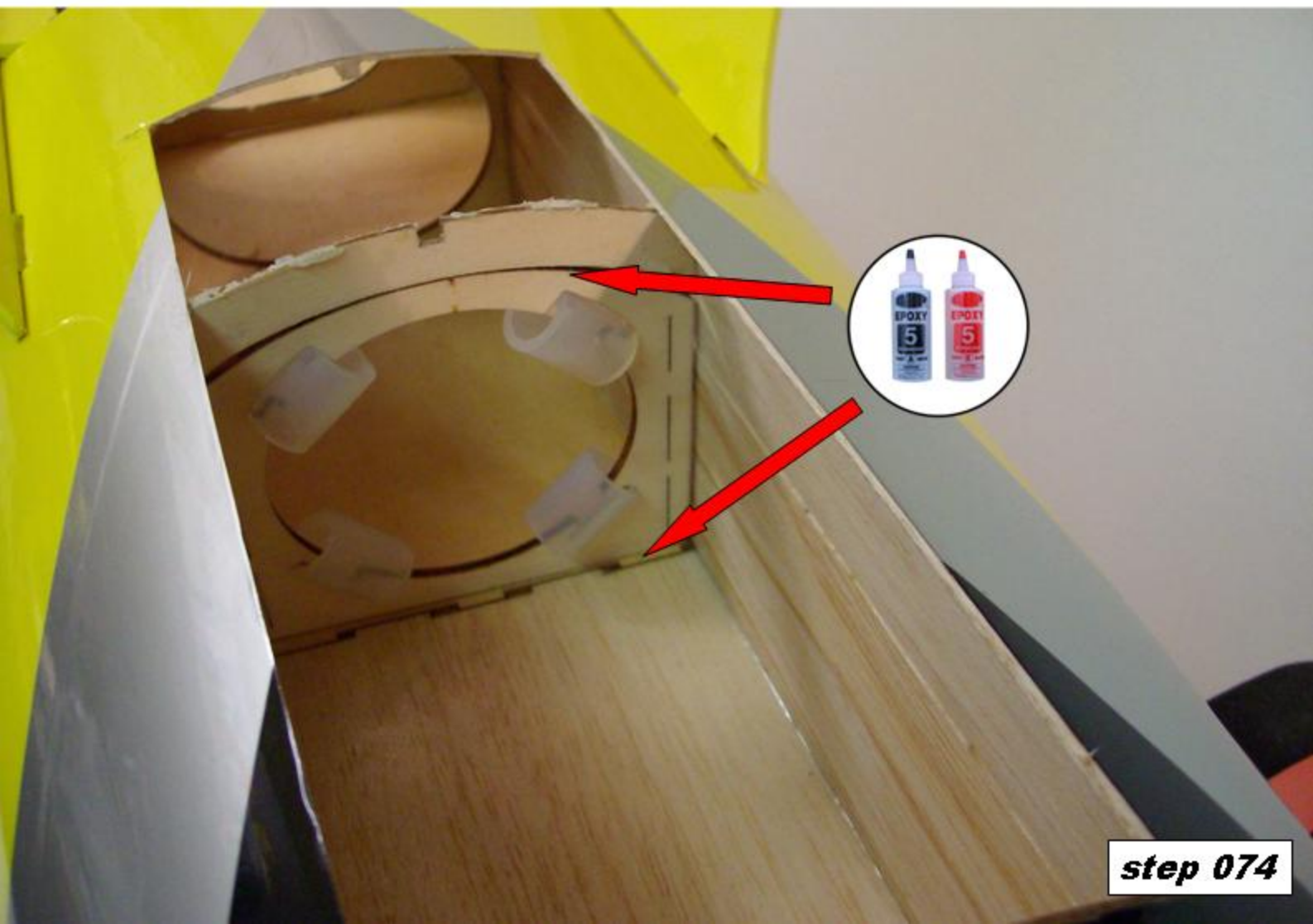


step 070

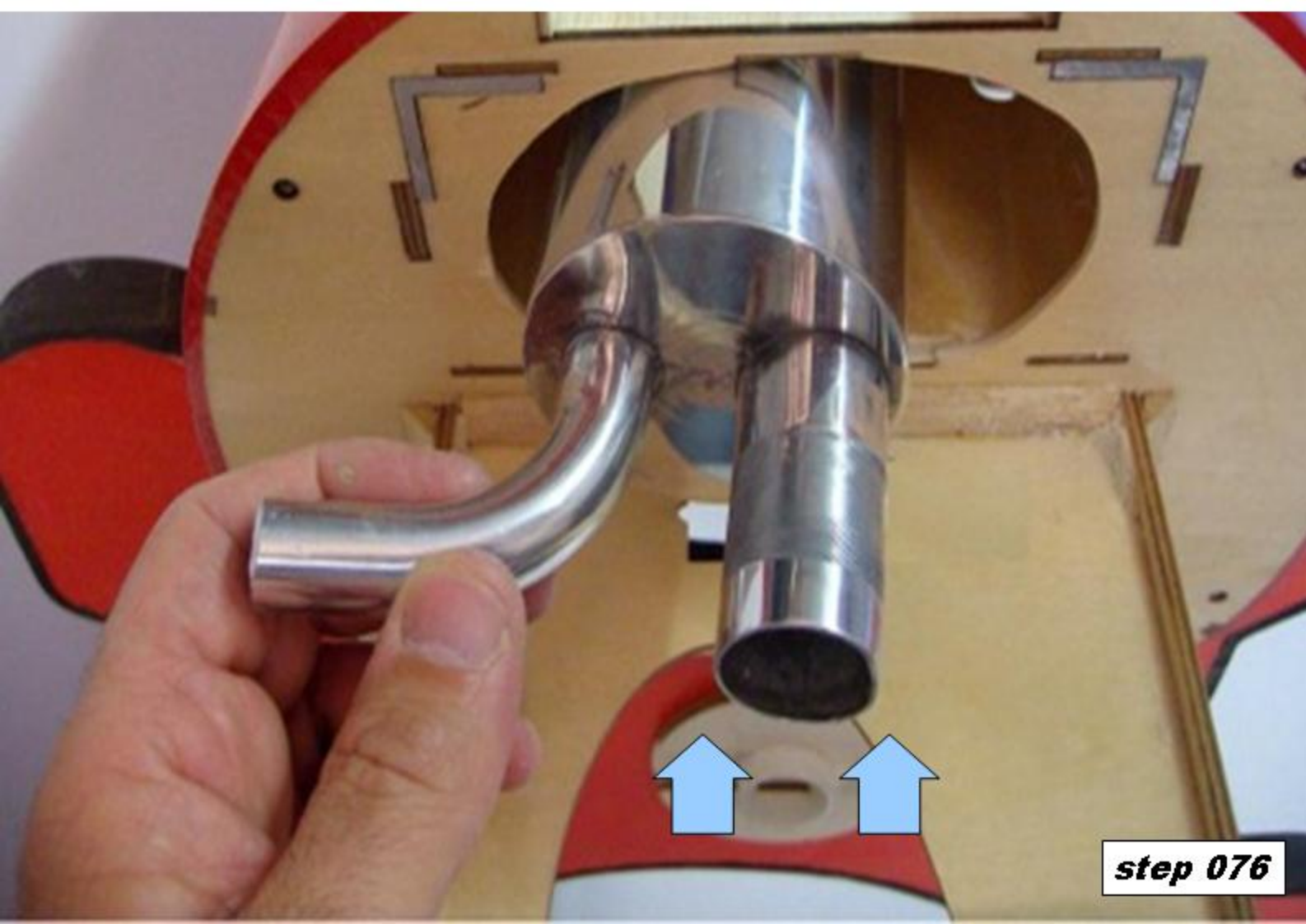




step 073

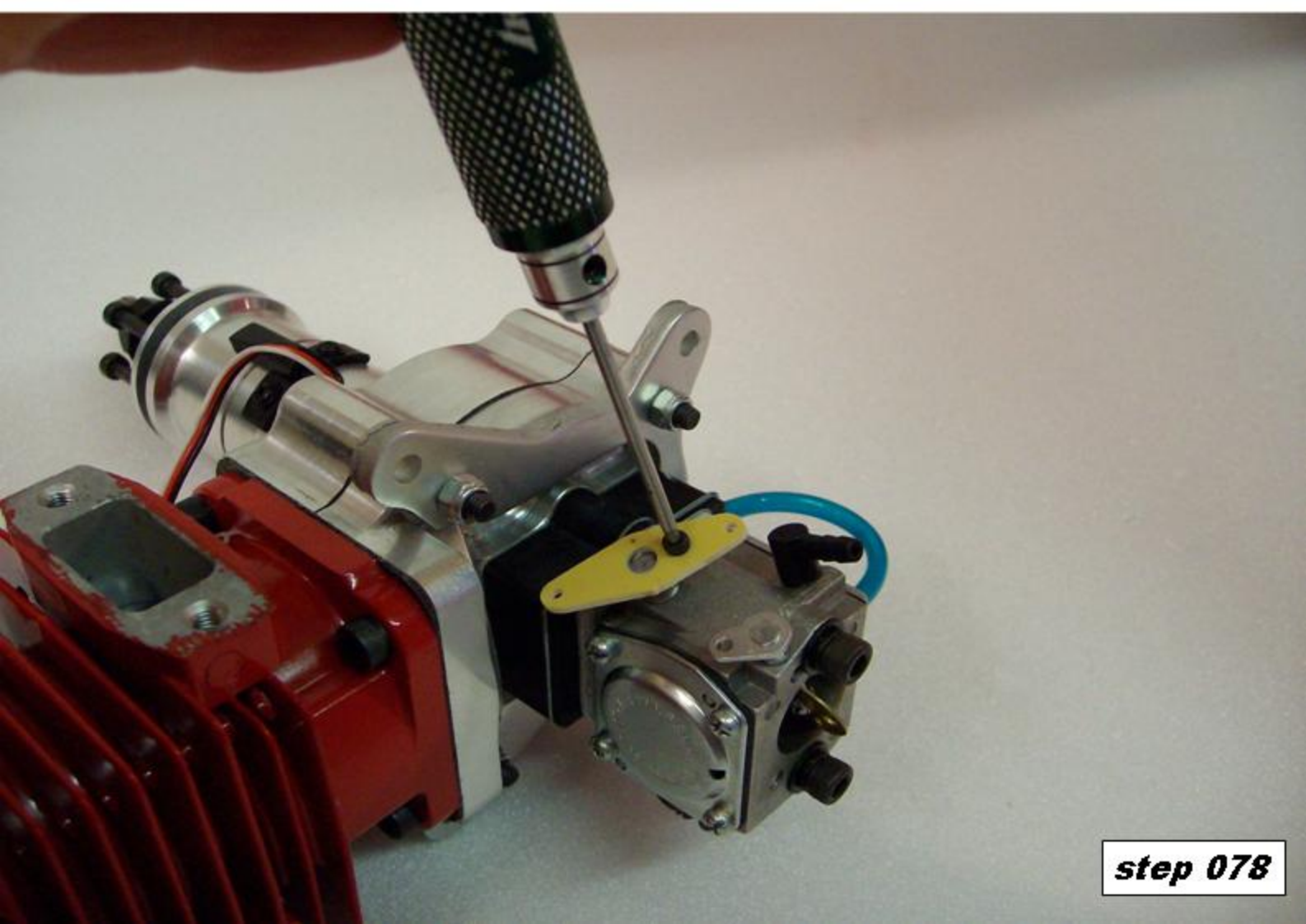


step 074

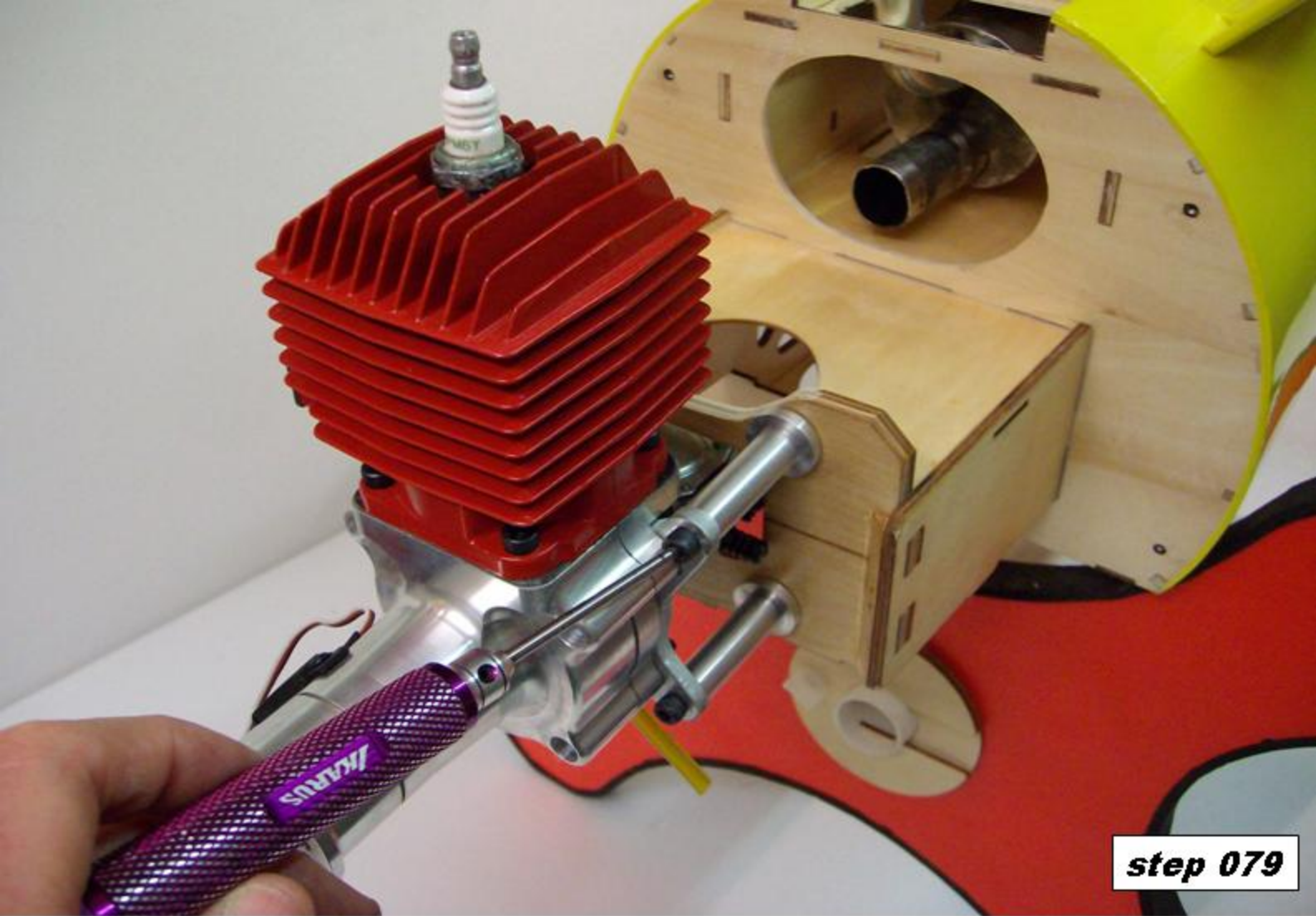




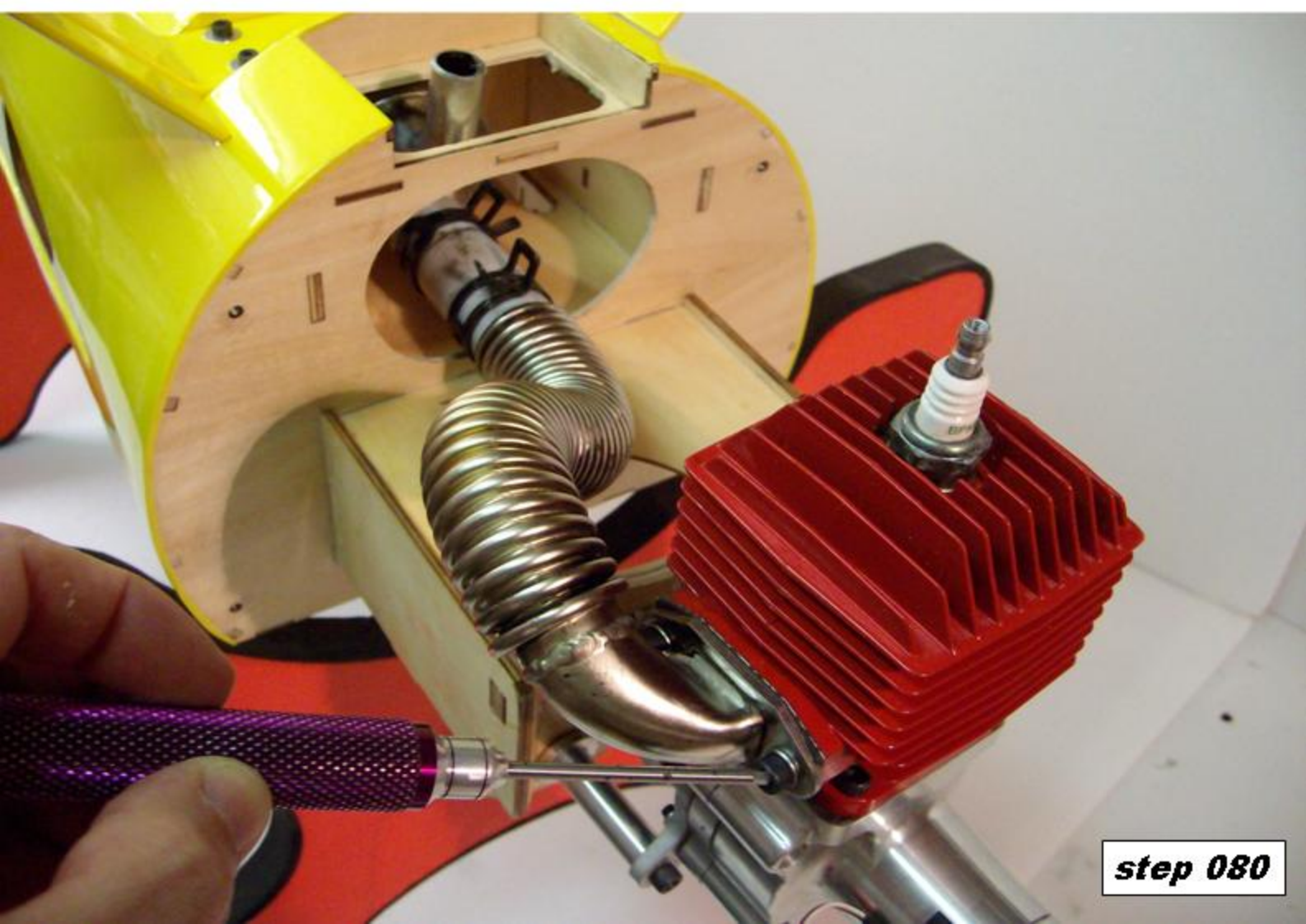
step 077



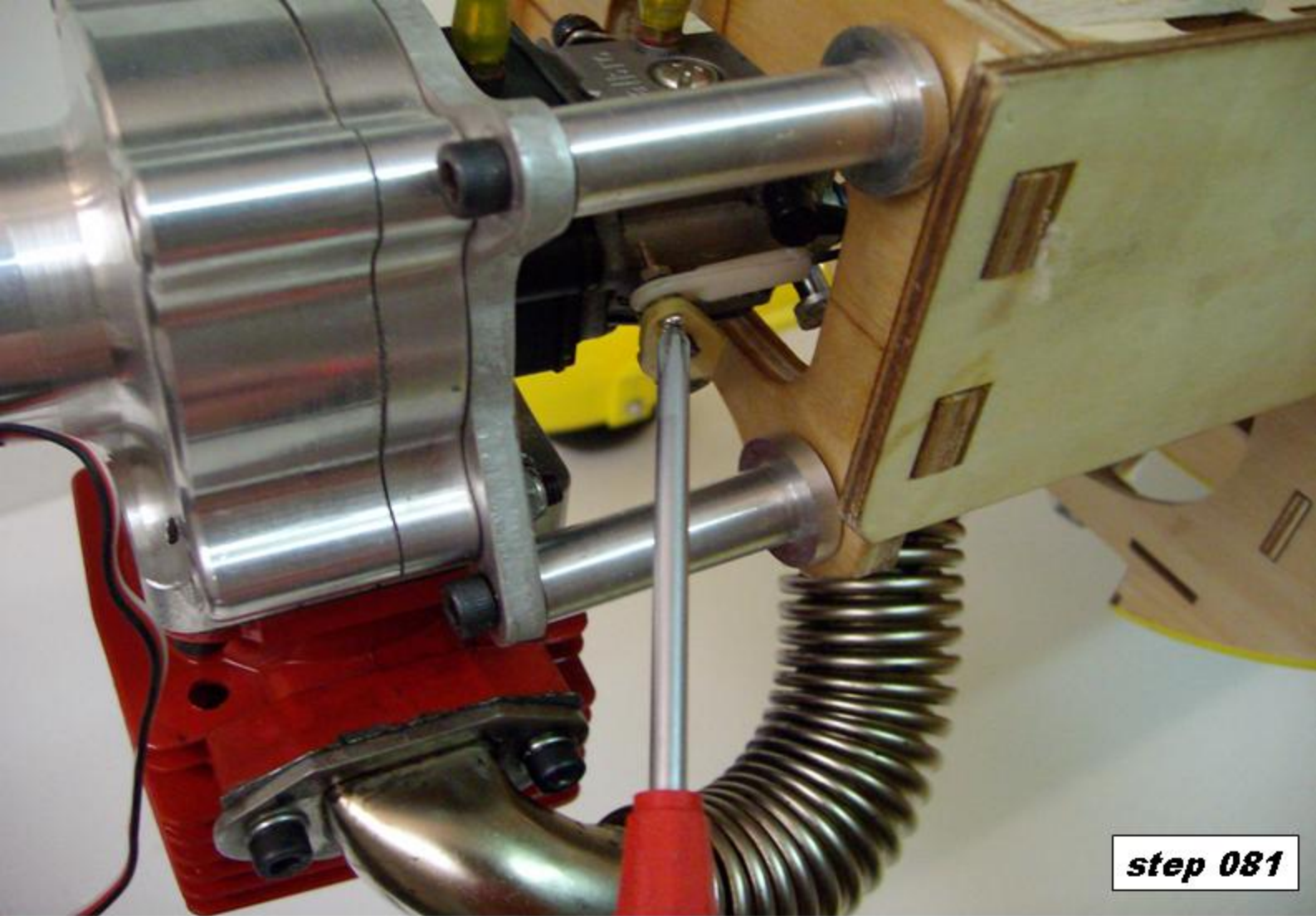
step 078



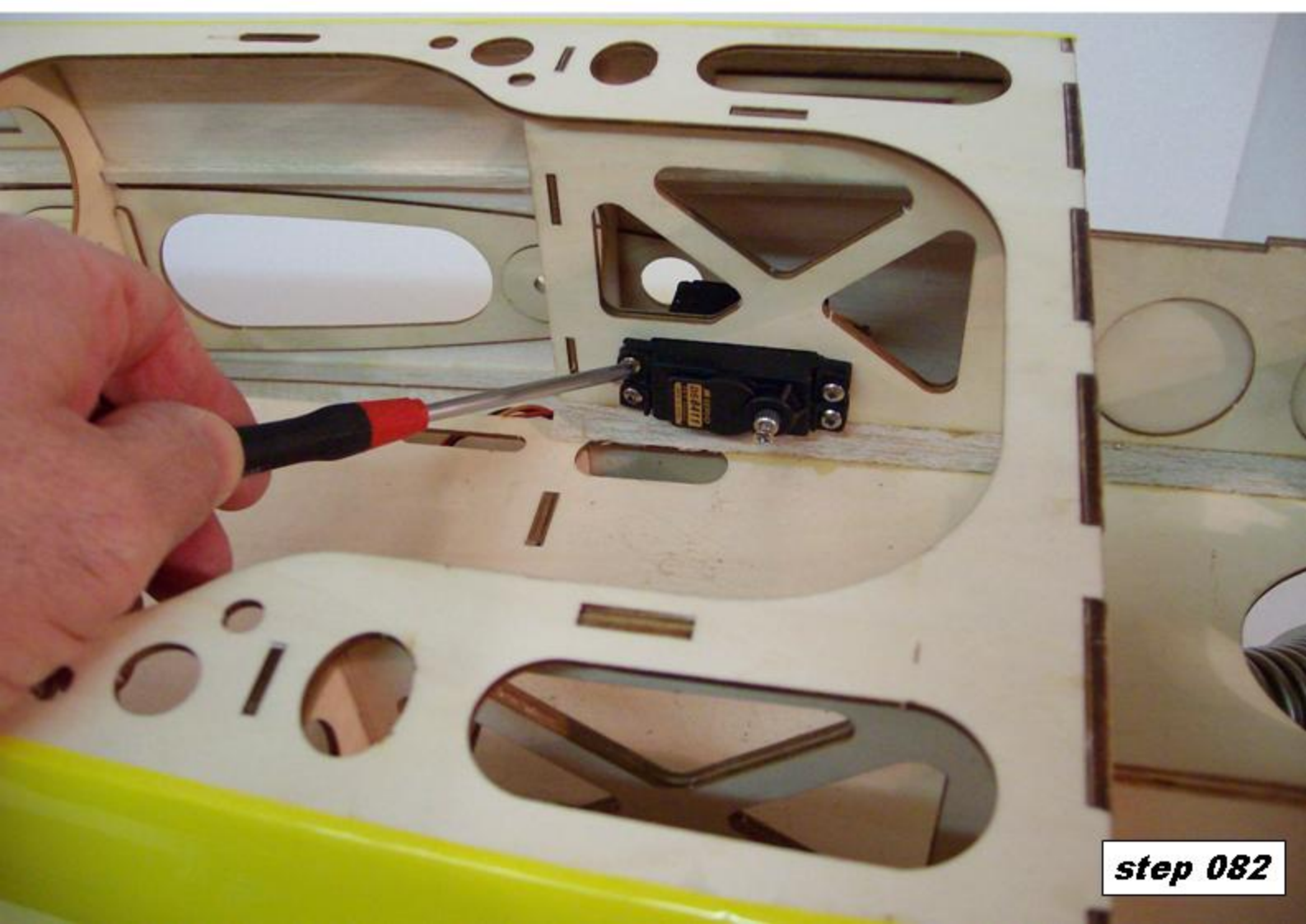
step 079



step 080



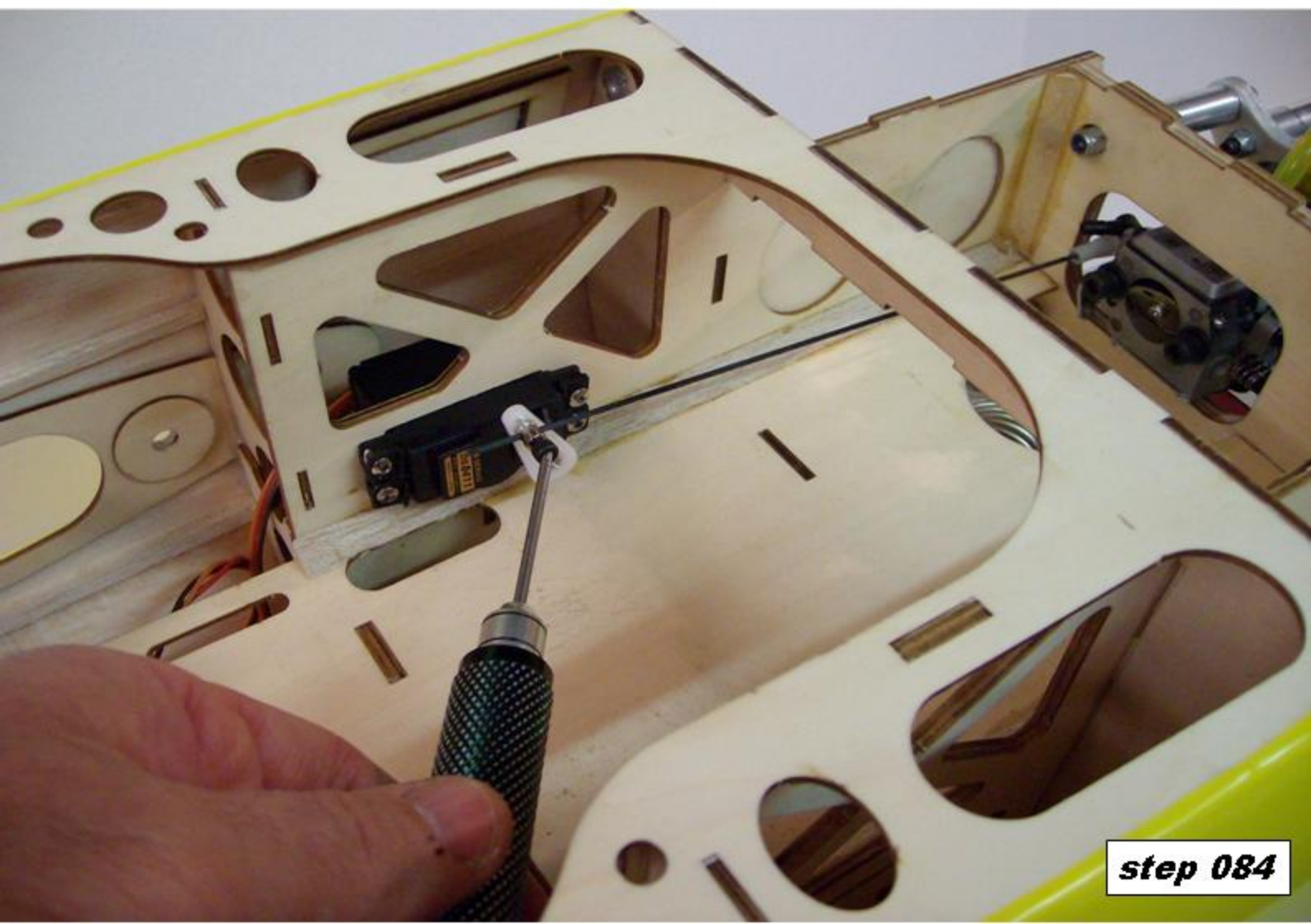
step 081



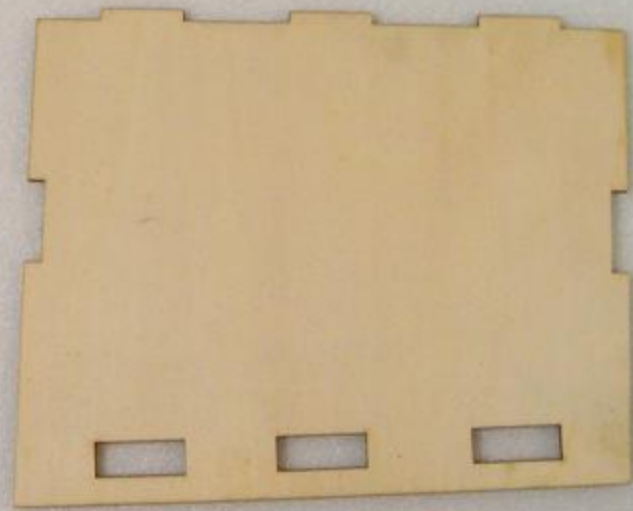
step 082



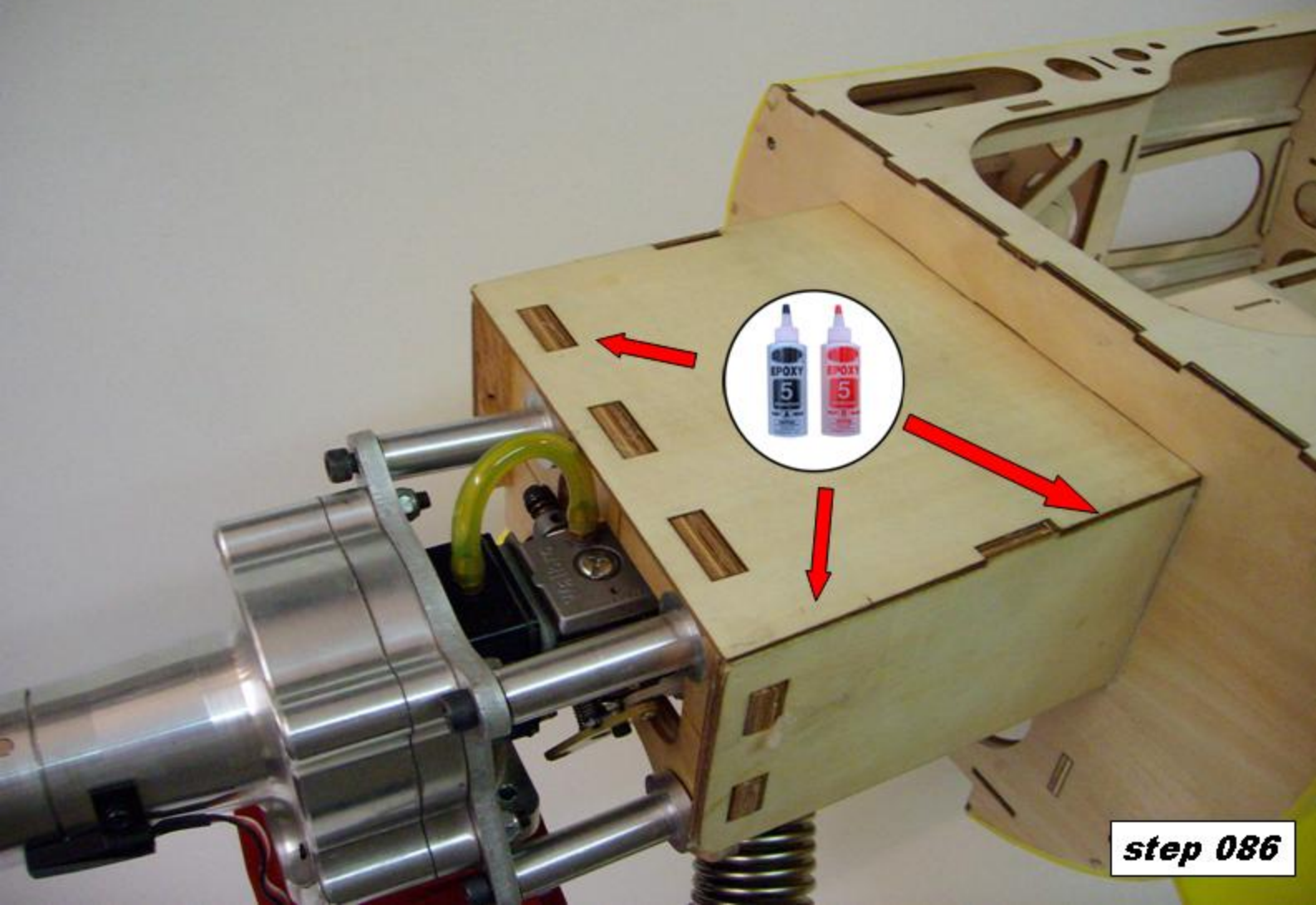
step 083



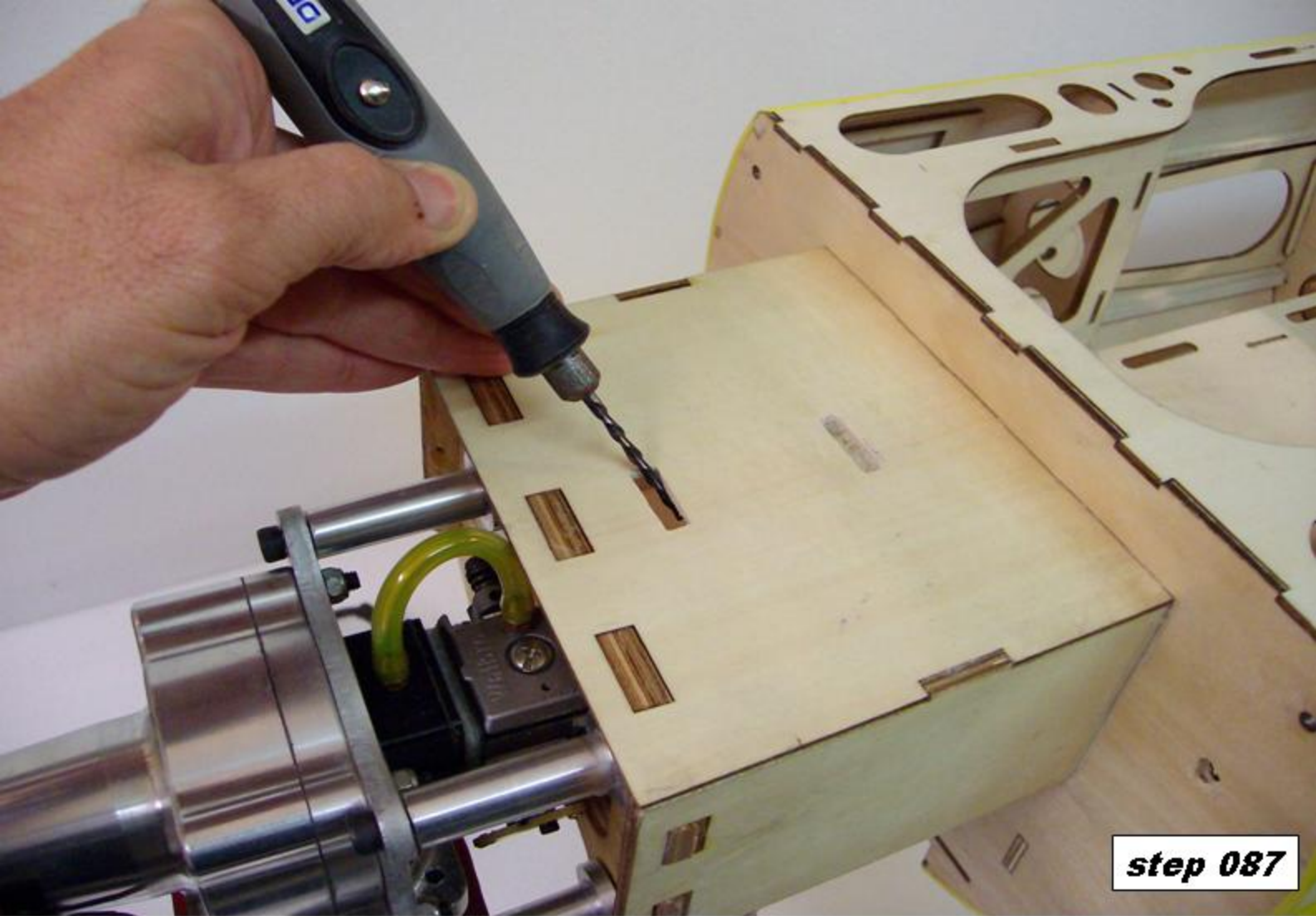
step 084



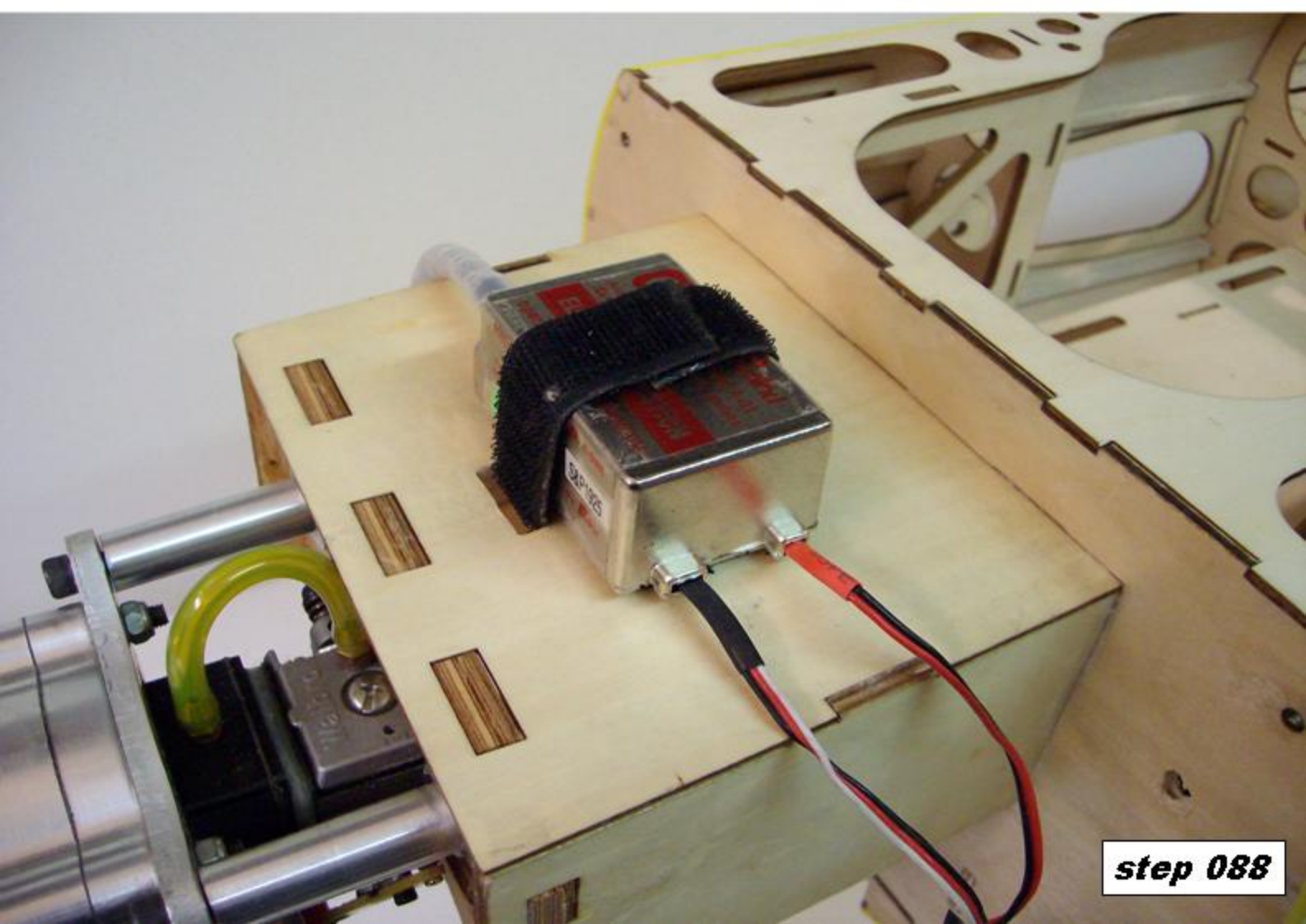
step 085



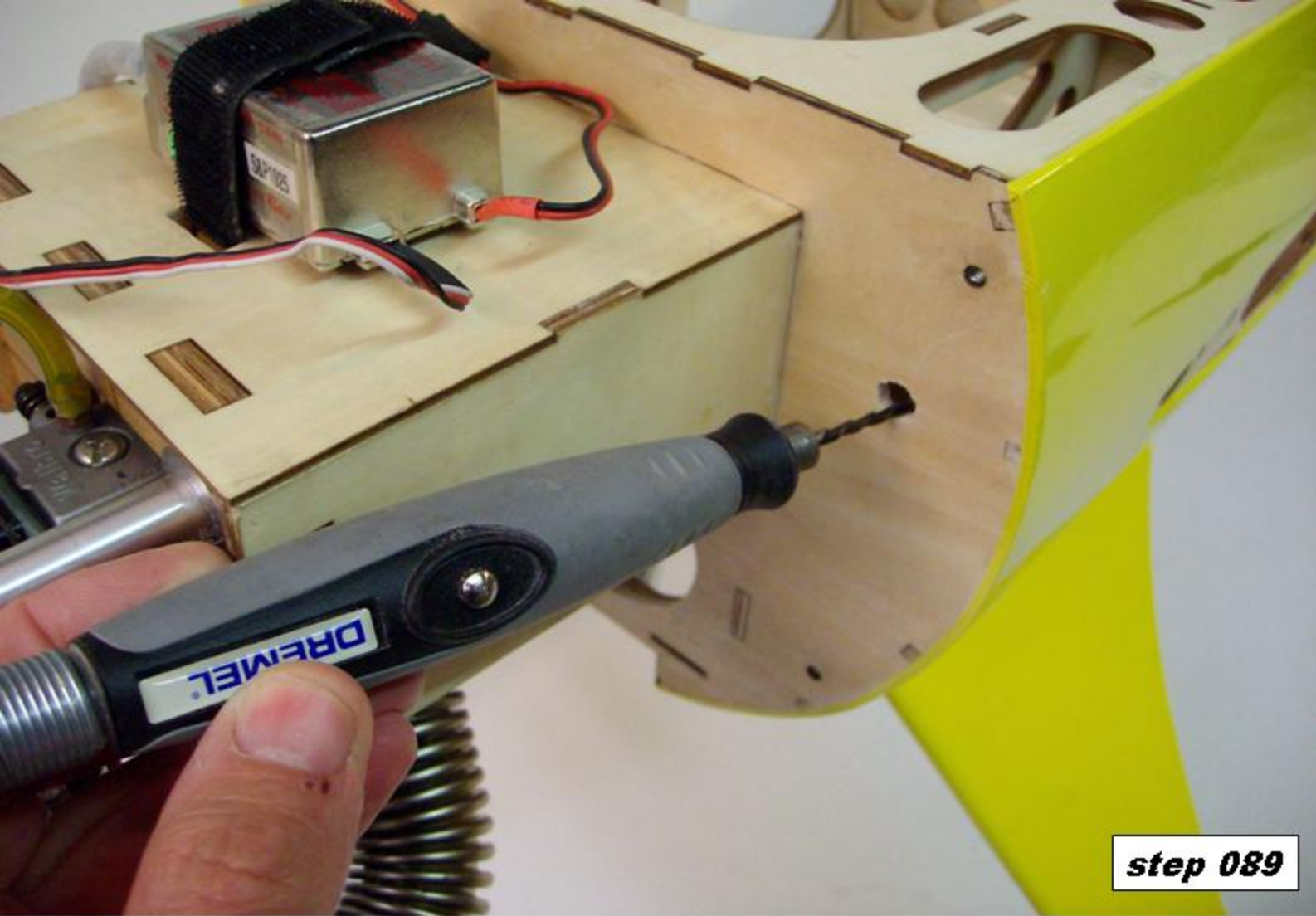
step 086



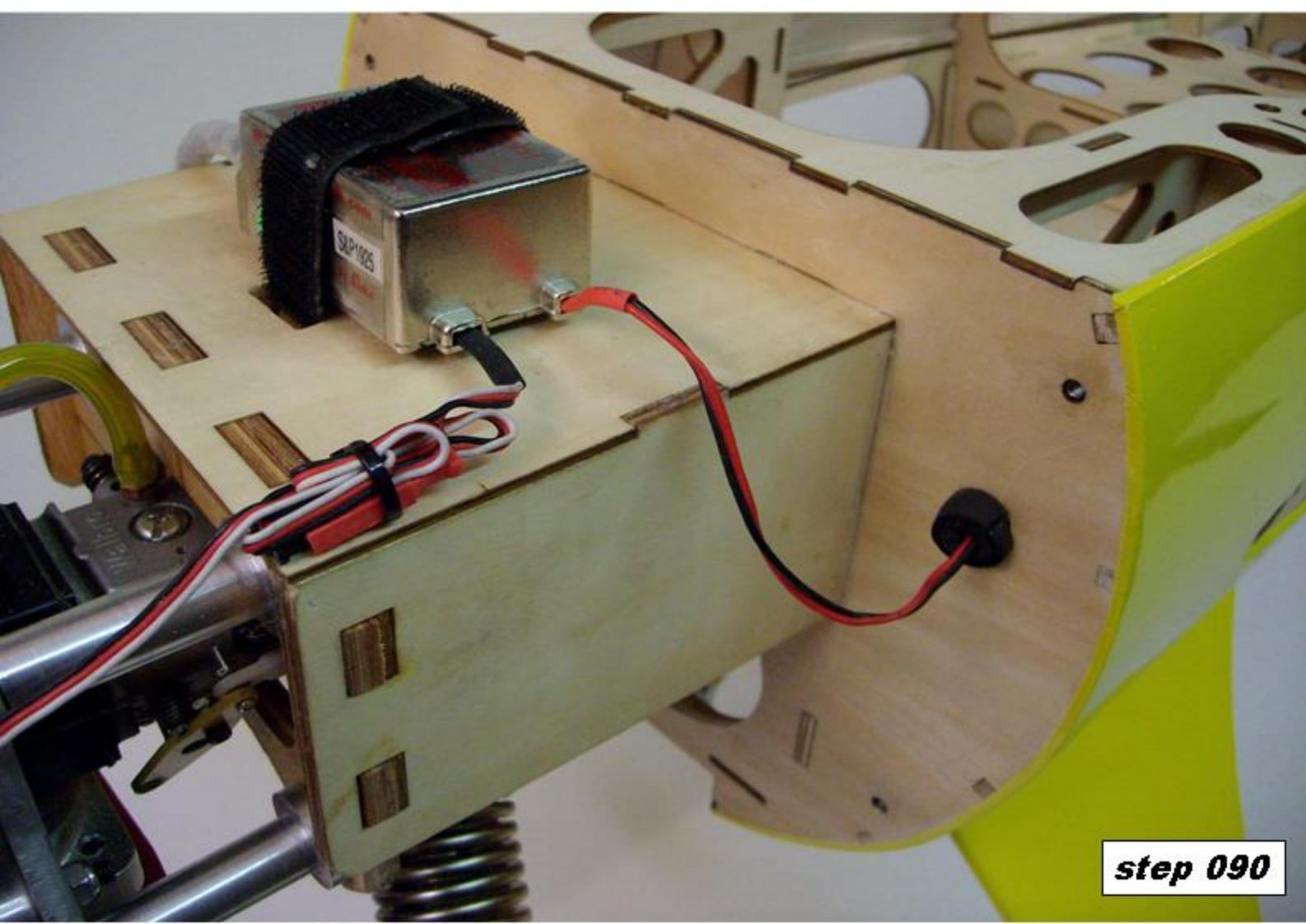
step 087



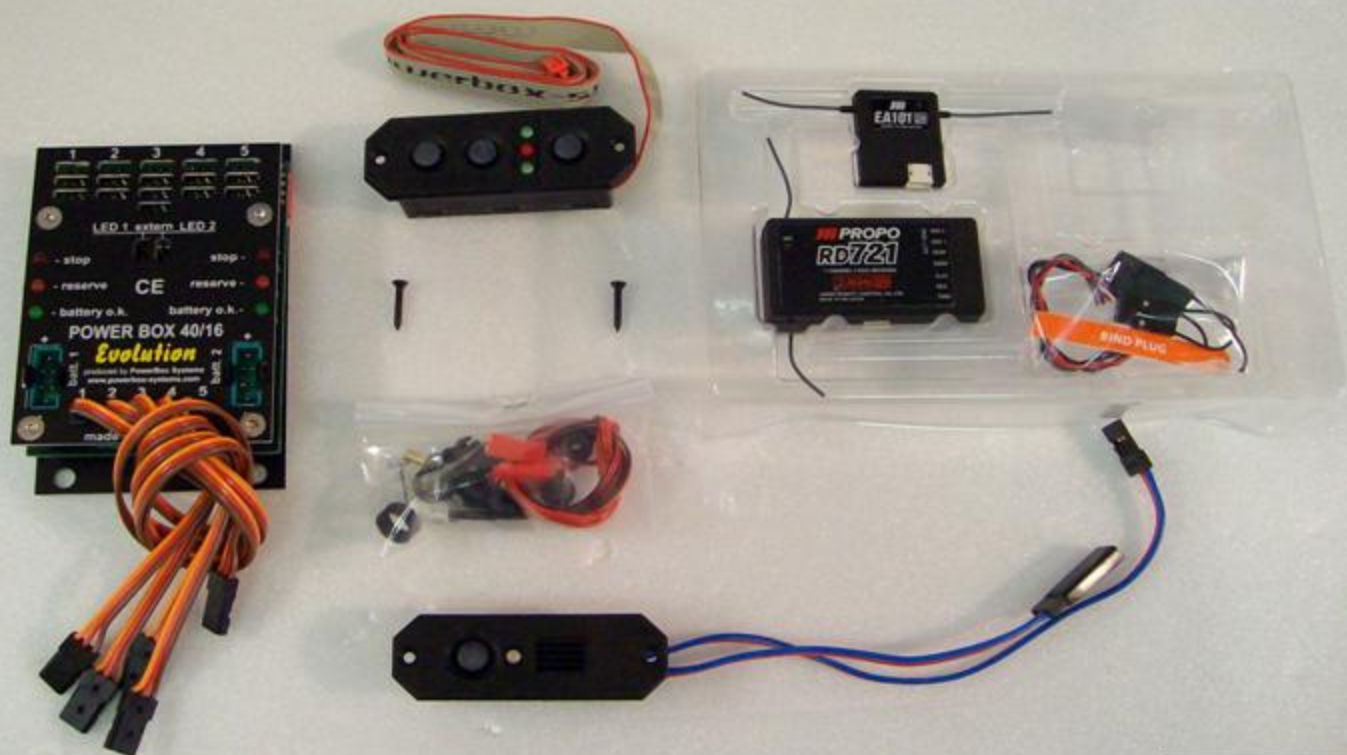
step 088



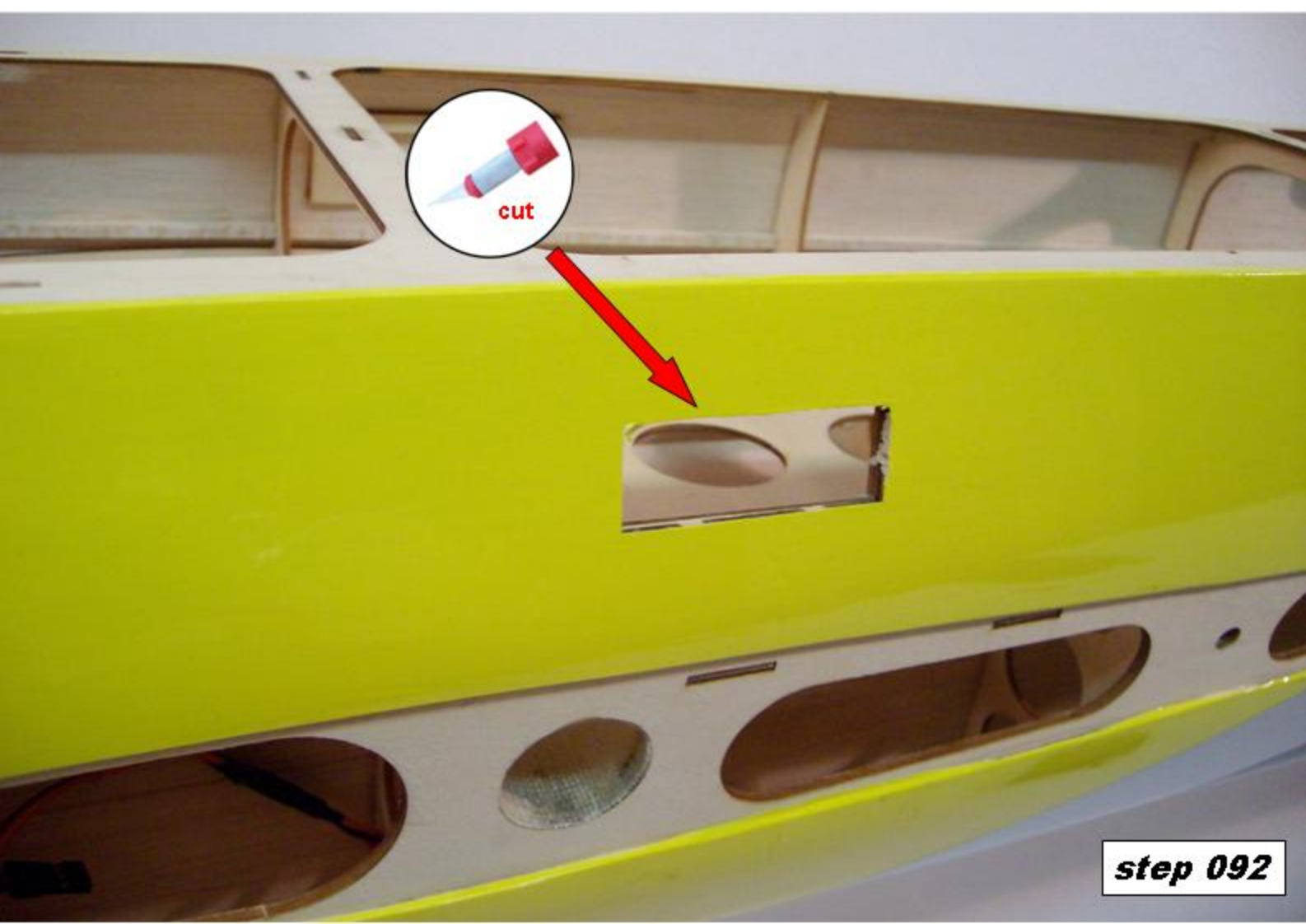
step 089



step 090



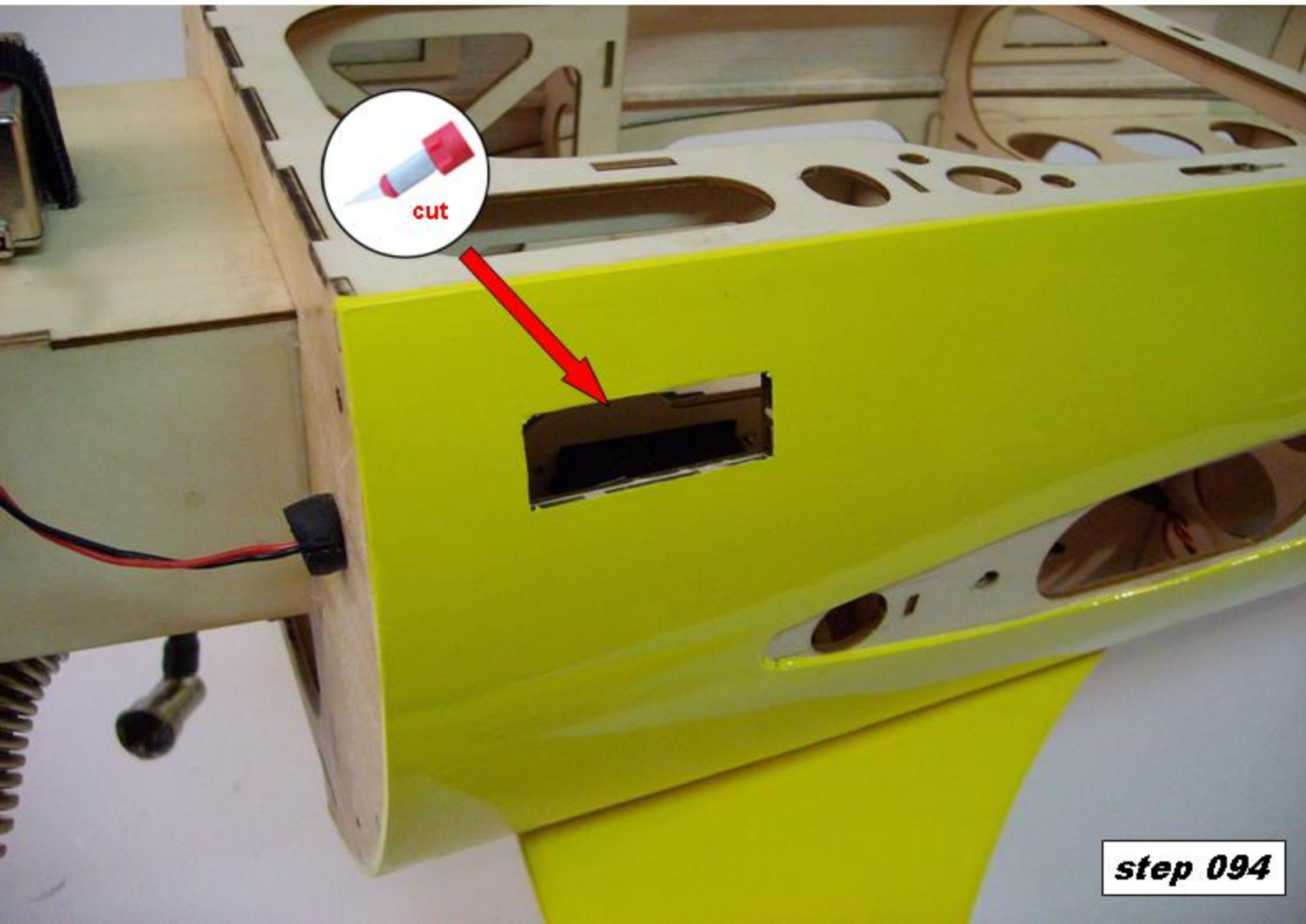
step 091



step 092



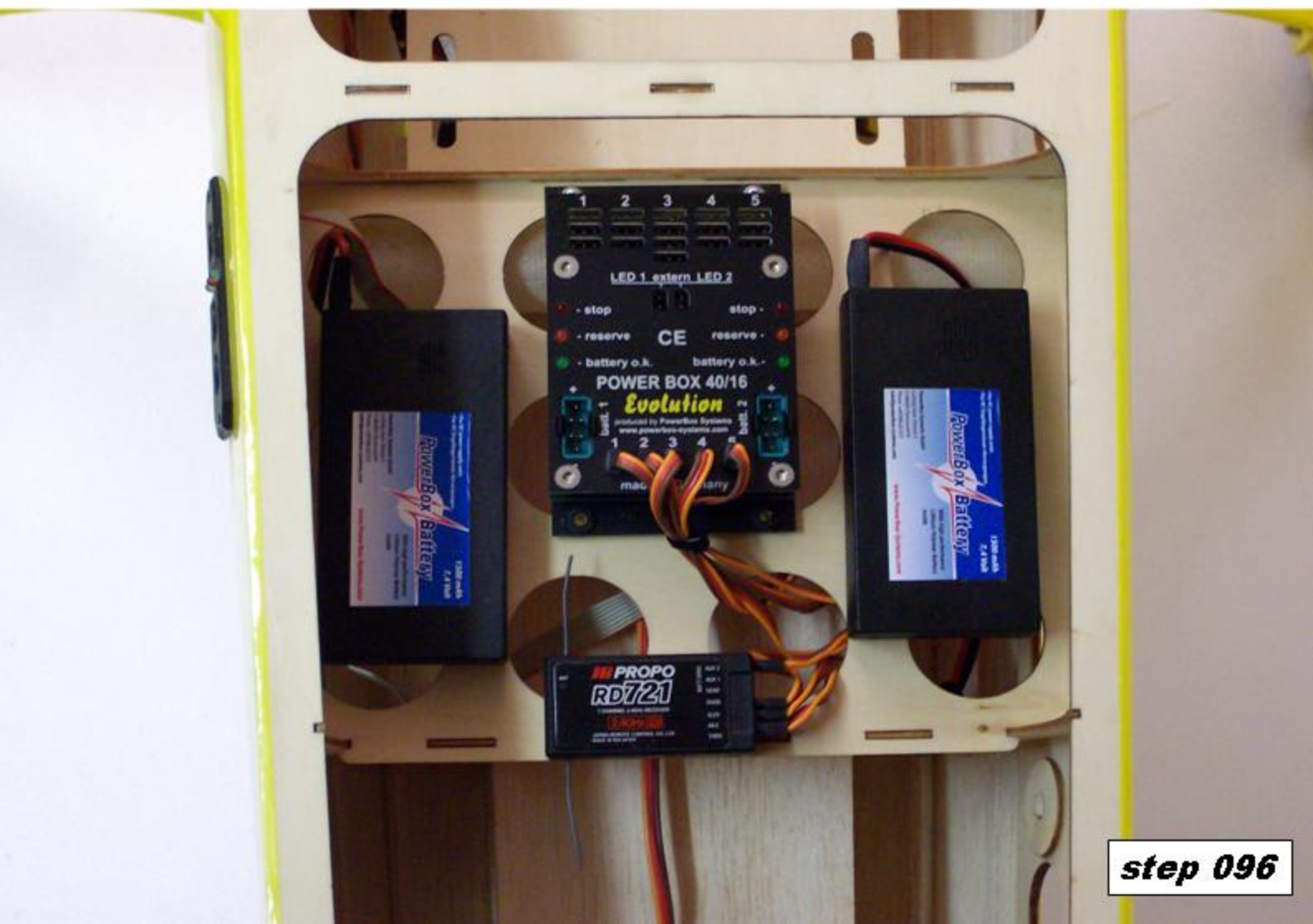
step 093



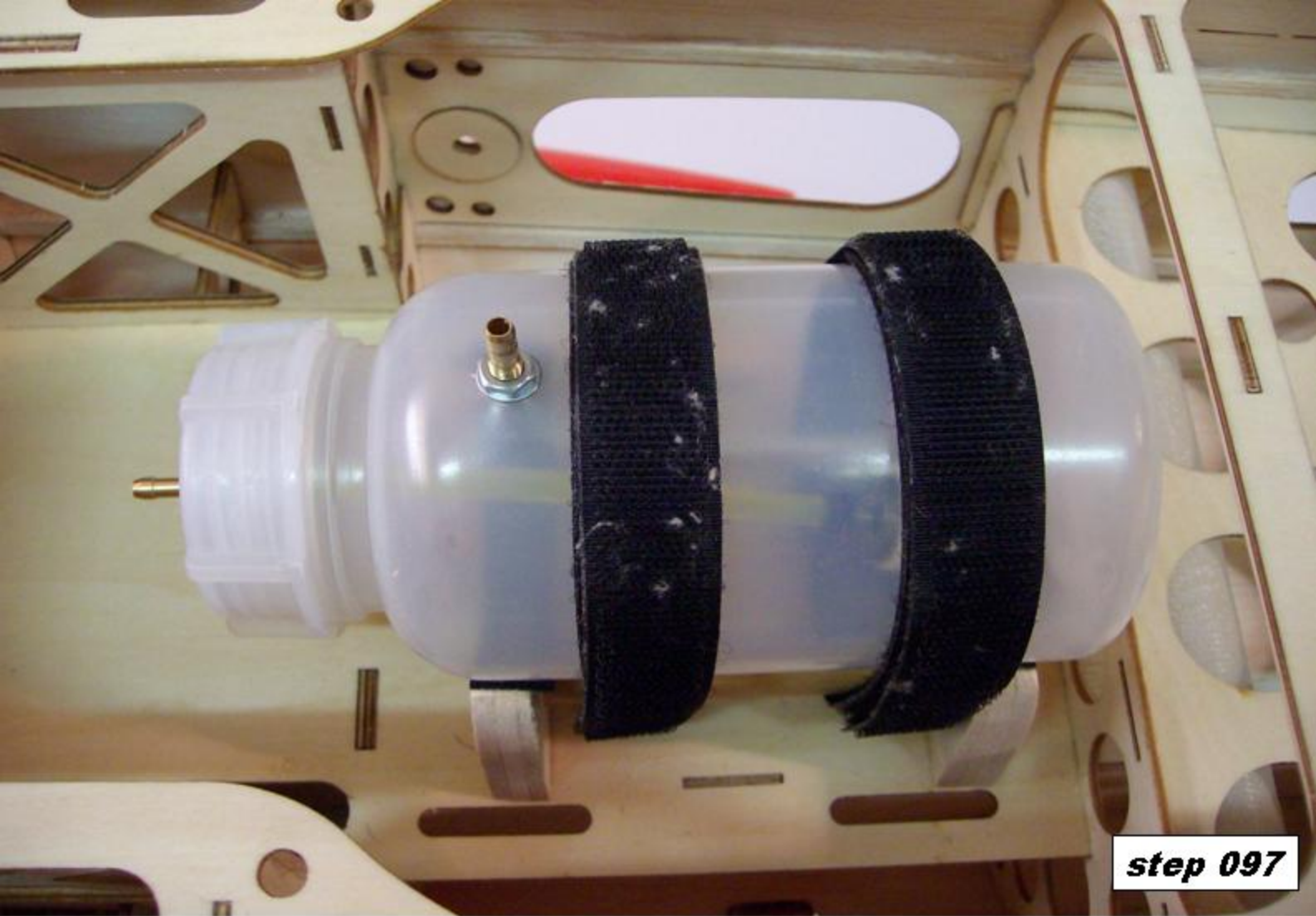
step 094



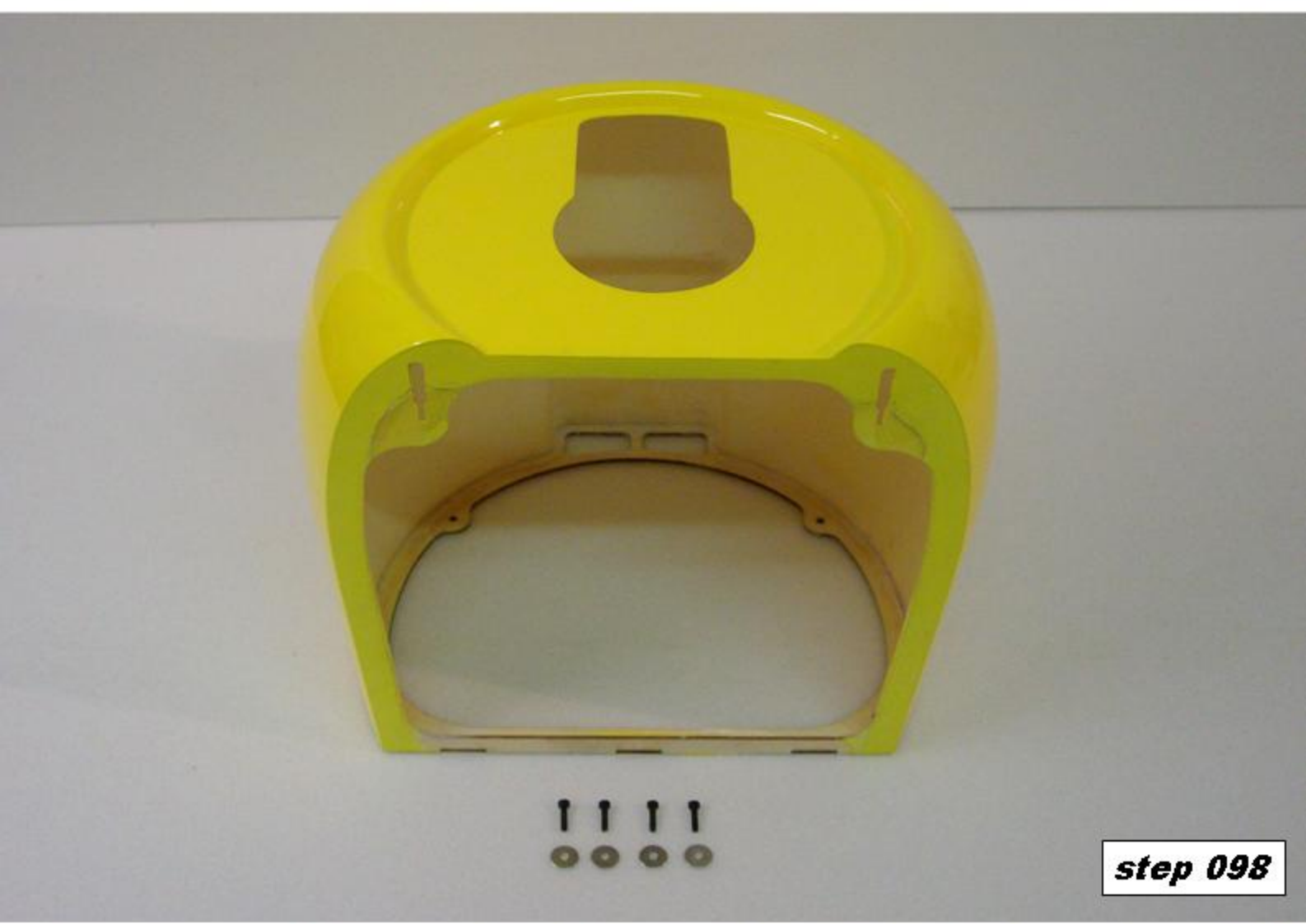
step 095



step 096



step 097



step 098



step 099



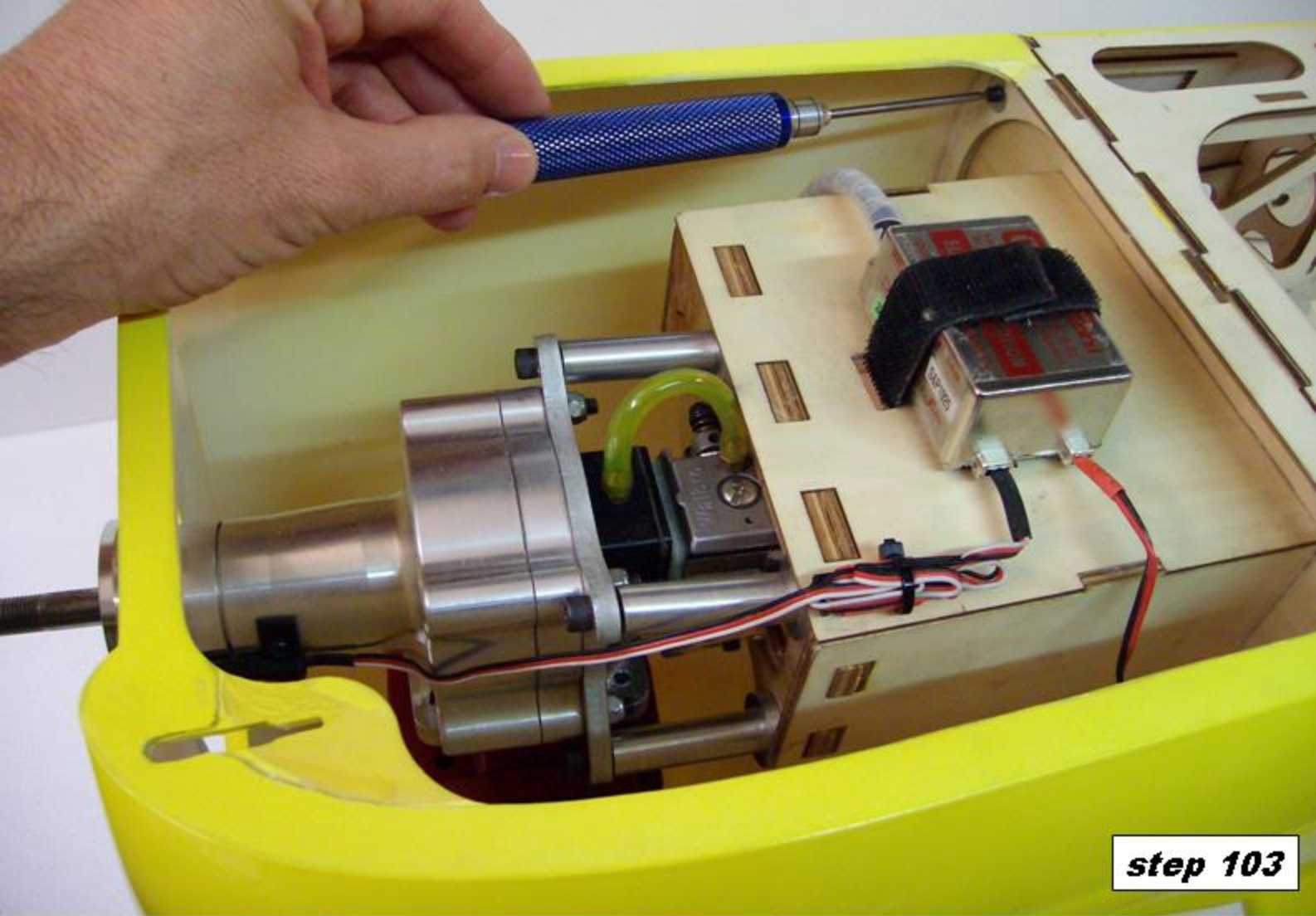
step 100



step 101



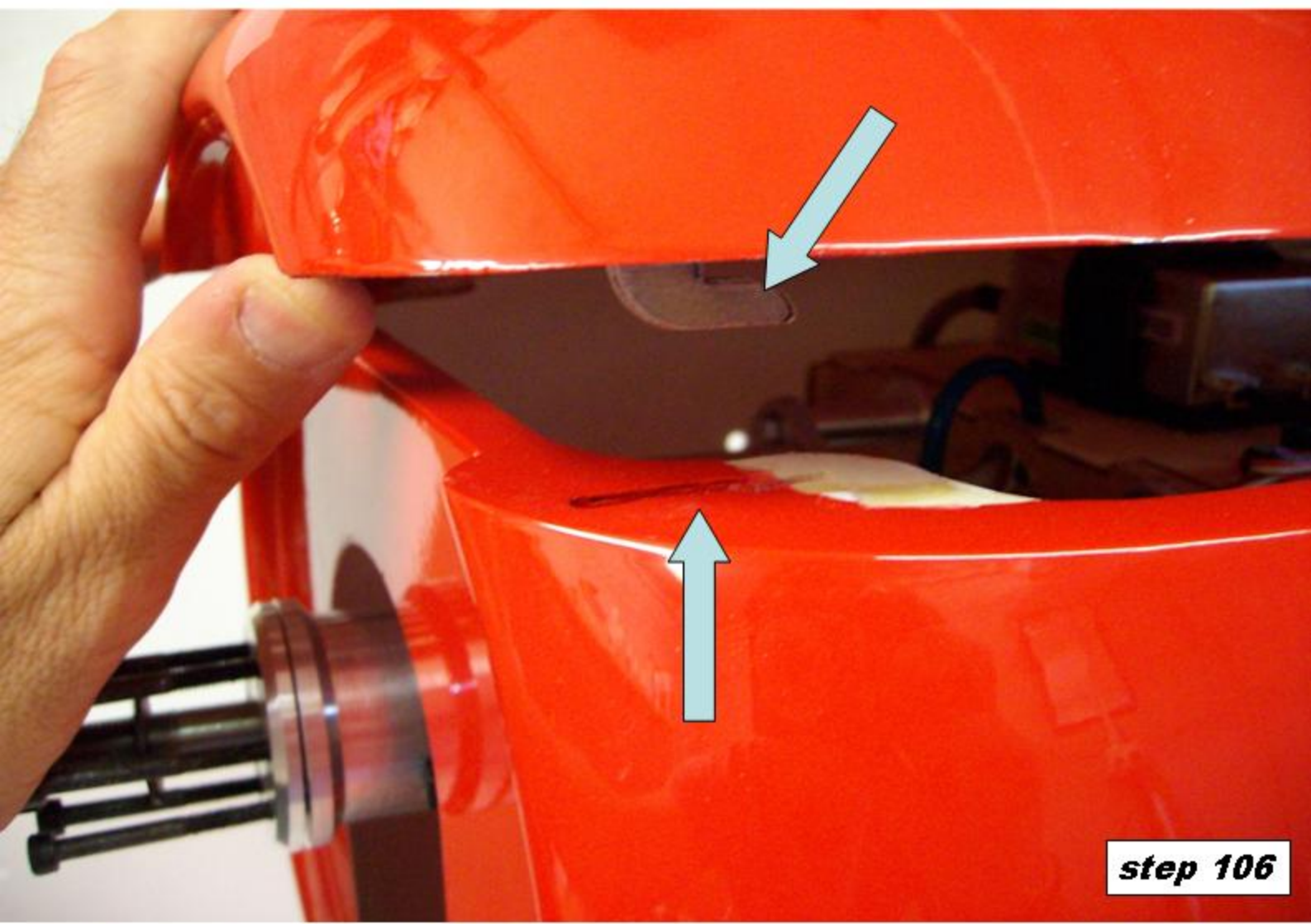
step 102

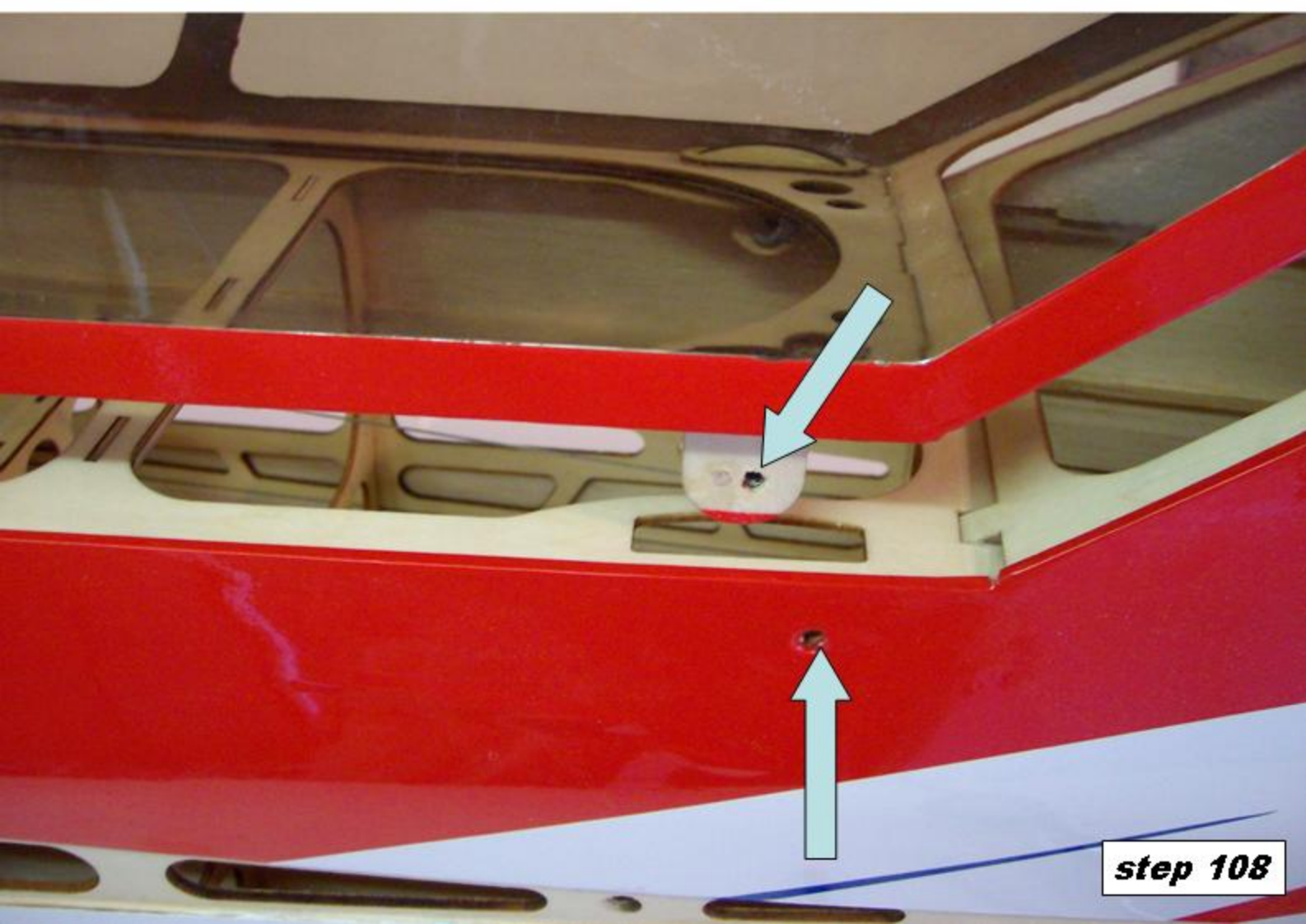


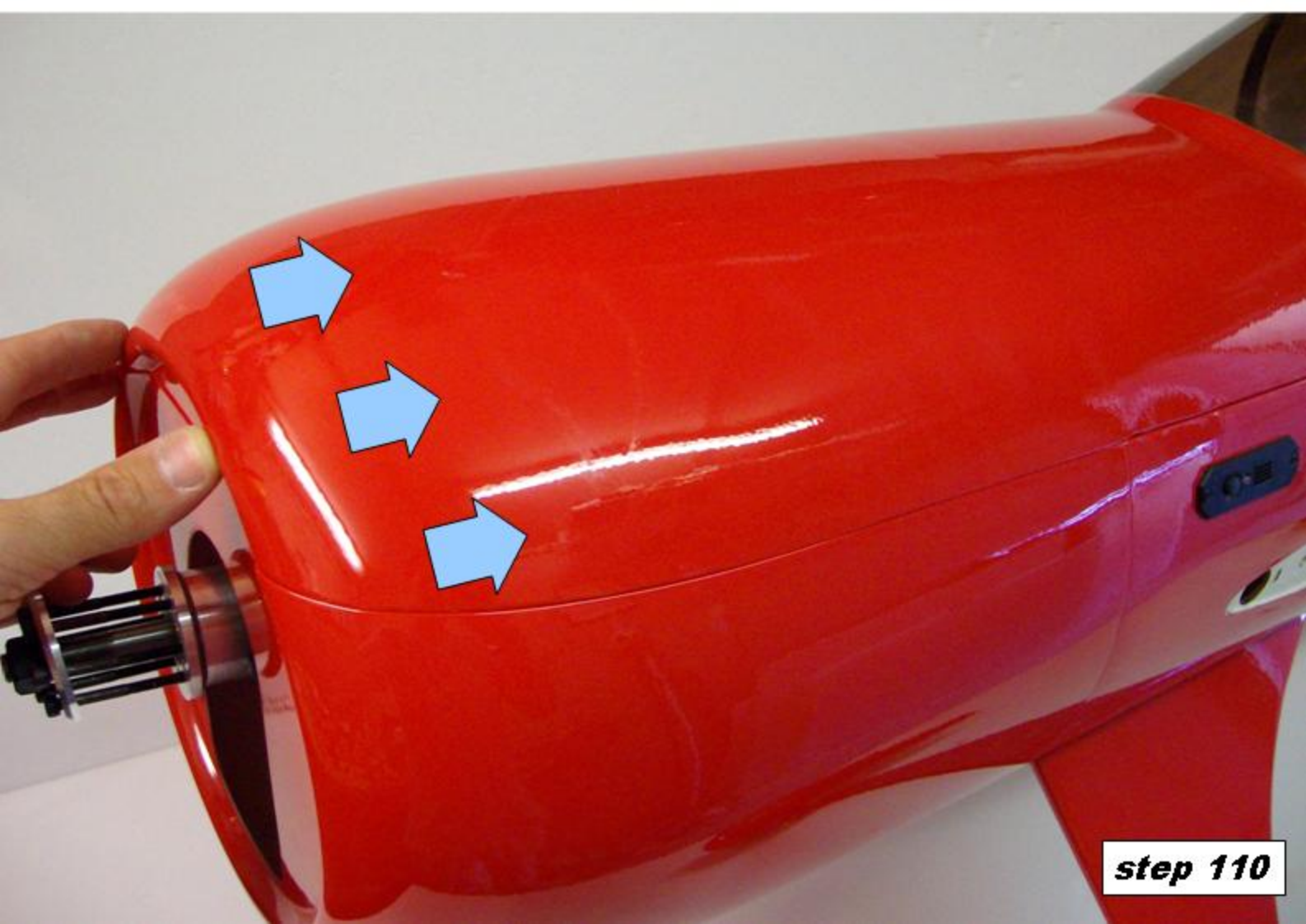
step 103



step 104



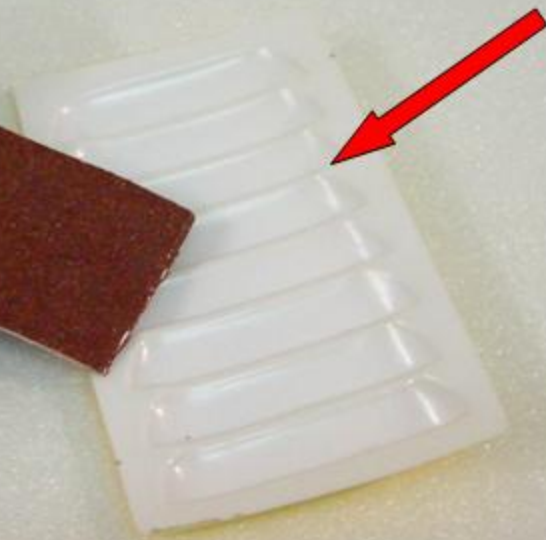
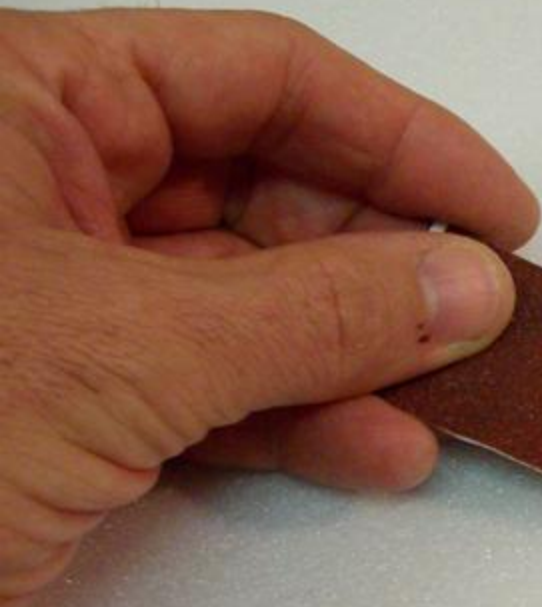








step 113



**Use
abrasive
tape**

step 114

