

SebArt *professional line*

Wind S PRO 2m ARF

ASSEMBLY MANUAL

The new *Wind S PRO ARF* was designed by Italy aerobatic pilot, Sebastiano Silvestri.

This professional ARF kit is the result of Sebastiano's 20 years experience in F3A world and his research in best F3A performances. This innovative design combined with the extremely lightweight structure, the full composite fuselage and all wood airframe wings and stabs, give the *Wind S PRO ARF* an impressive precision and smoothness at any airspeed and flight condition.

The *Wind S PRO ARF* will be your F3A dream plane!

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

Specifications:

Wingspan:.....188 cm
Length:.....199 cm
Wing Area:.....65 dm²
Stabilizer Area:.....18 dm²

Recommended Set Up:

Weight:.....3.600-3.800 g. RTF less motor battery
Radio:.....6-ch with 5 digital servos
Motor:Hacker C50-13XL + Jeti SPIN 99-Opto
Prop:APC 21x13WE
Motor battery:4500-10S Top Fuel

Required radio, motor and battery

Radio equipment:

- Minimum 6-channel radio system
- 5 digital servo: 3 JR DS 8401 or DS 8425 (ailerons and rudder) + 2 JR DS 3201 (elevators)
- 2 servo extension 100mm, for aileron's servos
- 2 extension 500mm, for elevator's servos

Recommended electric motor for best performance:

With 8S packs:

- Hacker C50-11XL + Jeti SPIN 99-Opto + APC 21 x 13WE

With 10S packs:

- Hacker C50-13XL + Jeti SPIN 99-Opto + APC 21 x 13WE

Additional required item, tools and adhesives

Tools:

- Drill
- Drill bits: 1,5mm; 2mm; 2,5mm; 3mm
- Phillips screwdriver
- 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 Wind S PRO, 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

Please, follow the recommended linkage setups:

For the AILERONS we recommend the following throws:

High rate: 40° left & right

Normal flight: D/R: 30% Expo: 20%

Snap: D/R: 100% Expo: 90%

Spin & 3D: D/R: 100% Expo: 90%

For the ELEVATOR we recommend the following throws:

High rate: 40° up & down

Normal flight: D/R: 30% Expo: 30%

Snap: D/R: 40% Expo: 50%

Spin & 3D: D/R: 100% Expo: 95%

For the RUDDER we recommend the following throws:

High rate: 40° left & right

Normal flight: D/R: 40% Expo: 60%

Snap: D/R: 50% Expo: 70%

Spin & 3D: D/R: 100% Expo: 90%

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. 2%

Rudder → Ailerons

When you give full rudder to right the ailerons need to go left approx. 1%

When you give full rudder to left the ailerons need to go right approx. 1%

* if you have a programmable computer radio.

NOTE: Elevator trim

For a vertical straight downline the elevators need to be trimmed down (negative) 2 or 3mm: that is NORMAL.

Recommended CG

The recommended **Center of Gravity** location is **200mm** behind the leading edge of the wing against the fuselage.

- **190mm** is good for windy condition.
- **210mm** is good for no wind condition.

You can use the battery pack, moving it forward or backward, to achieve the correct balance.

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.

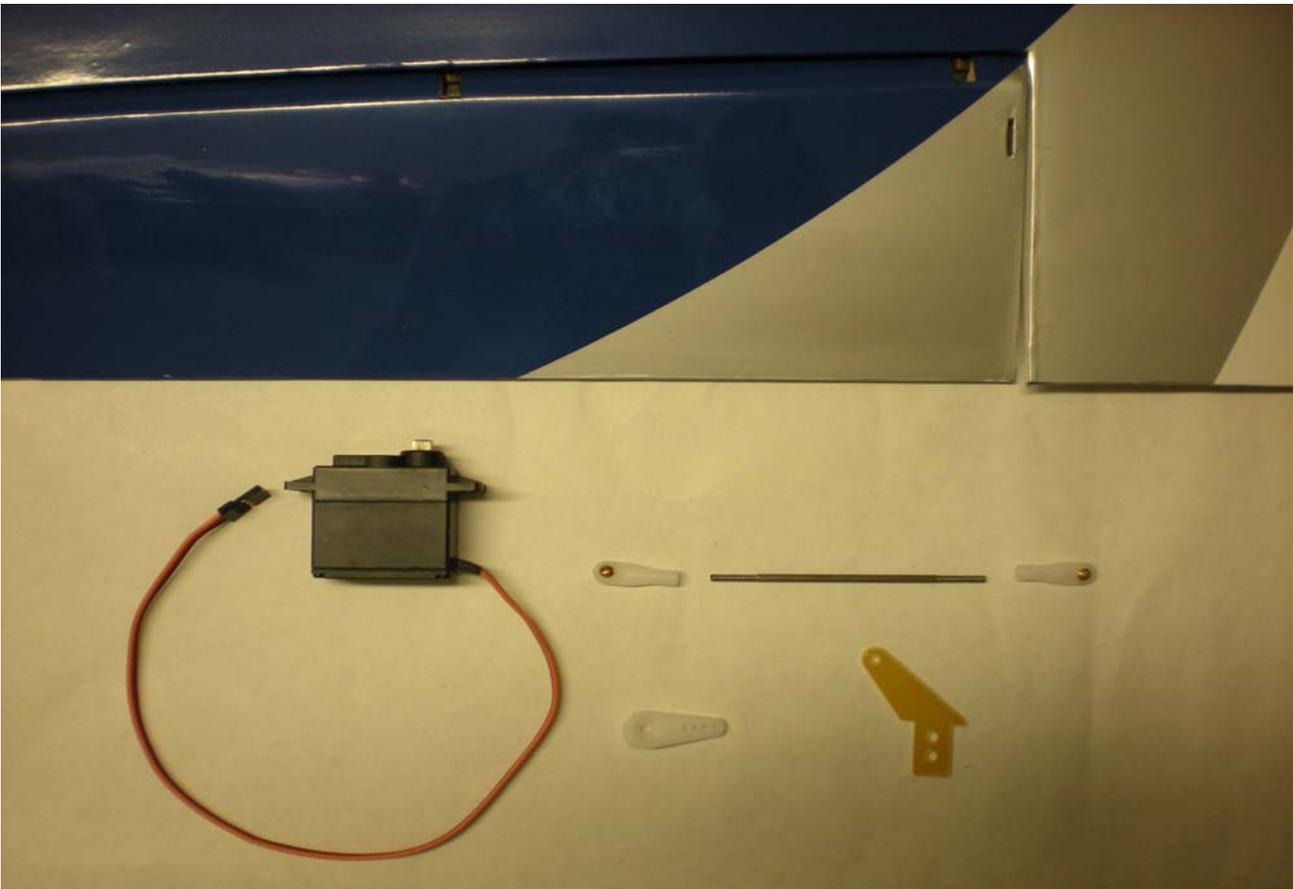
...good flights!

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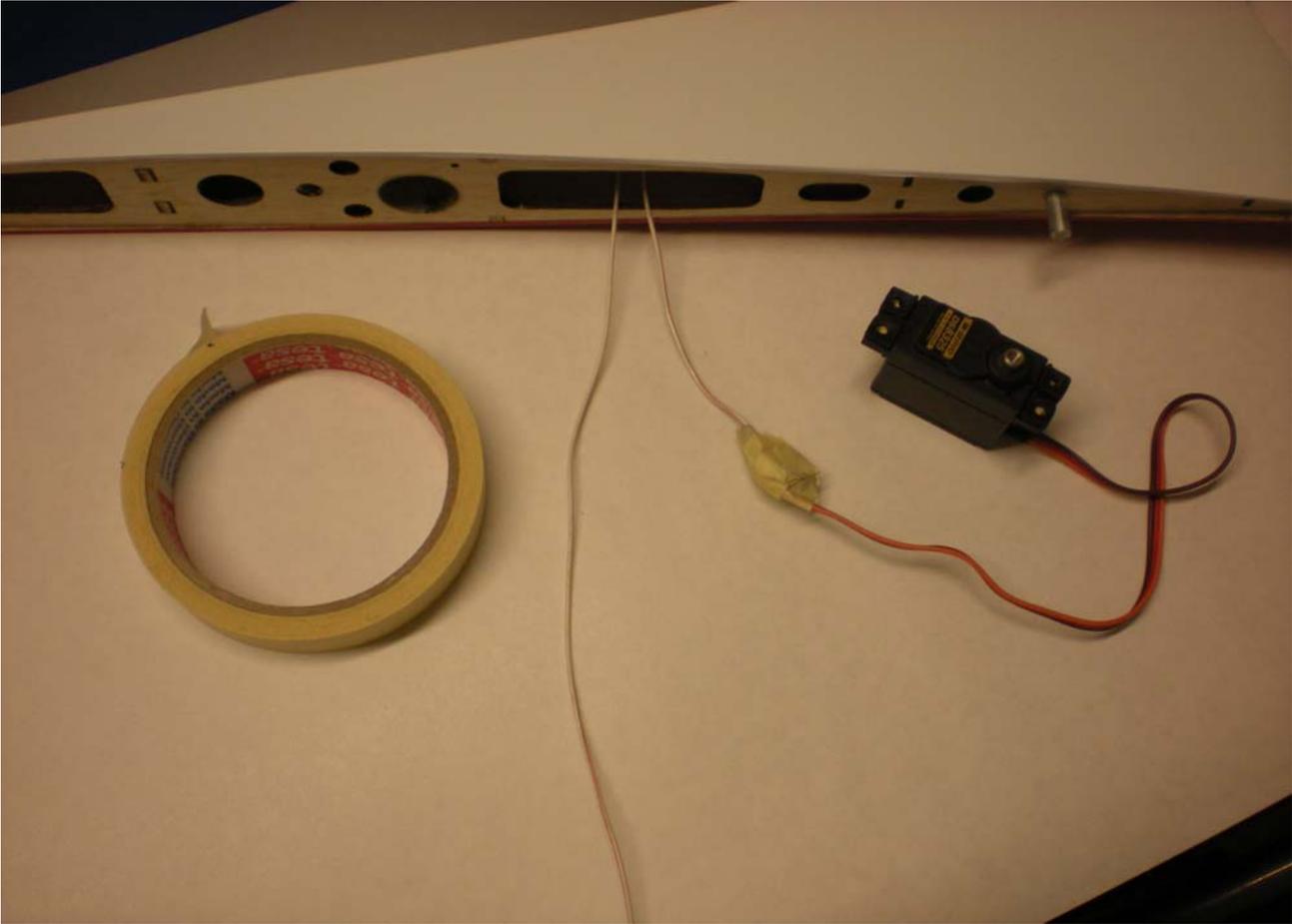


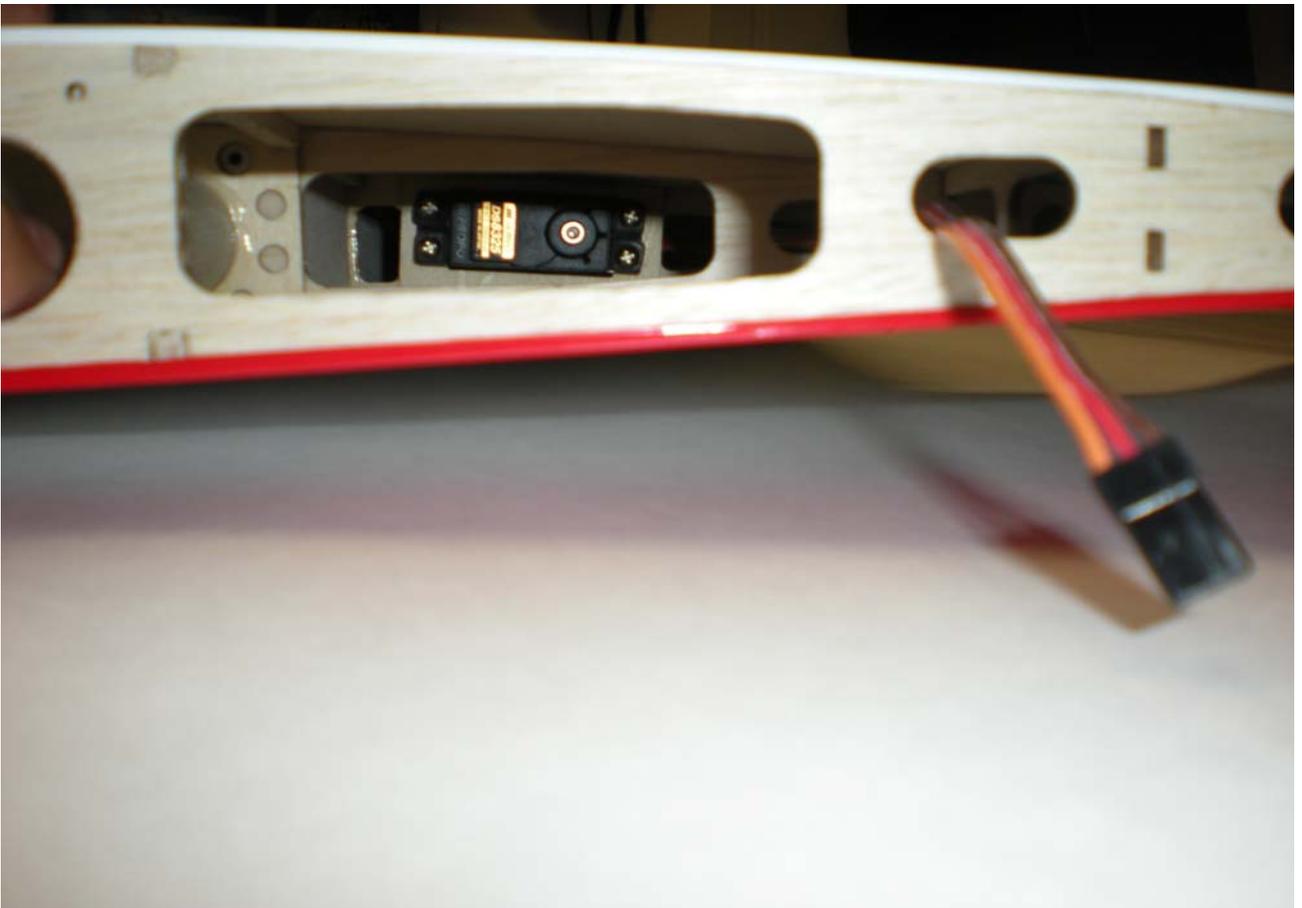


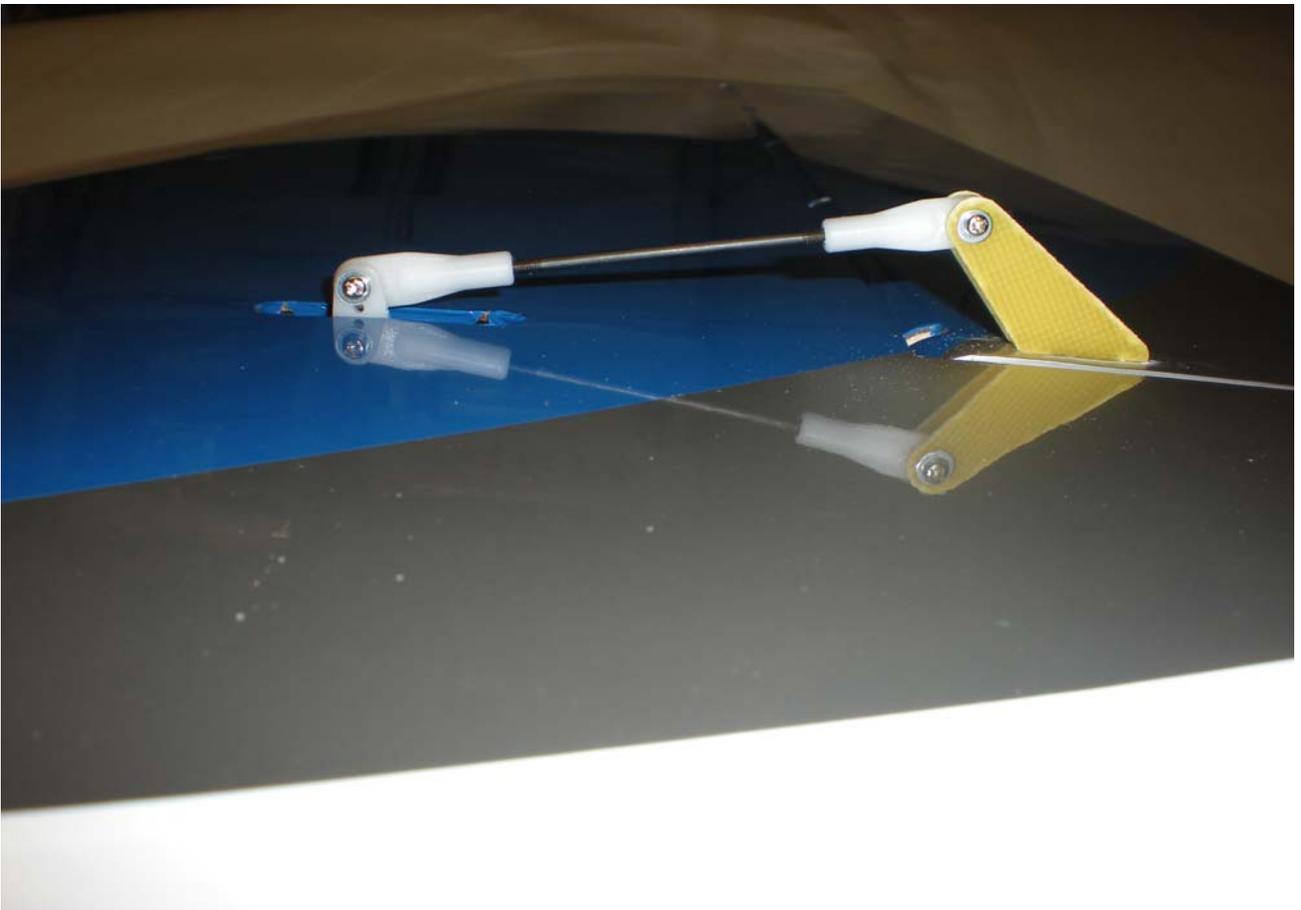


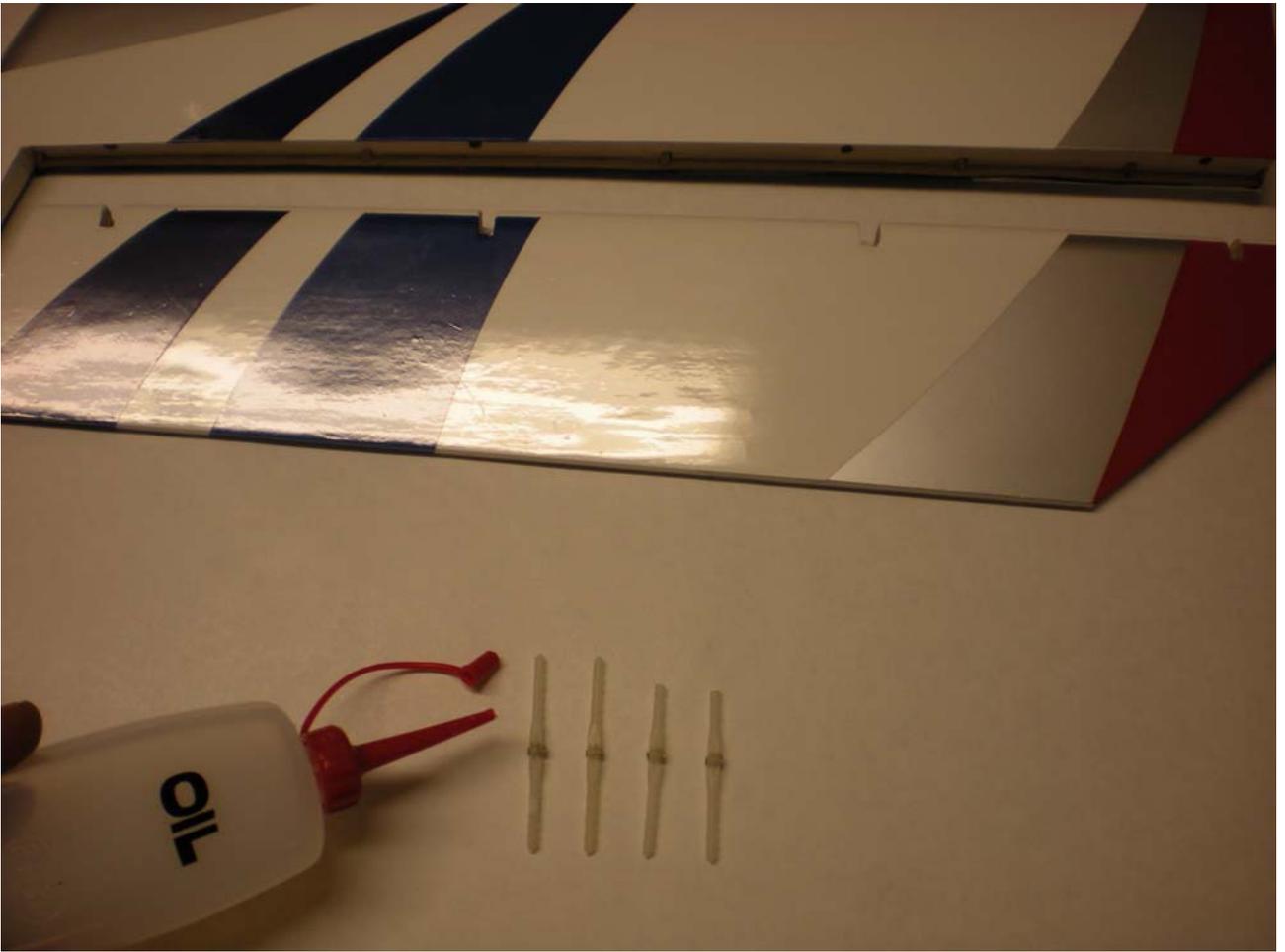
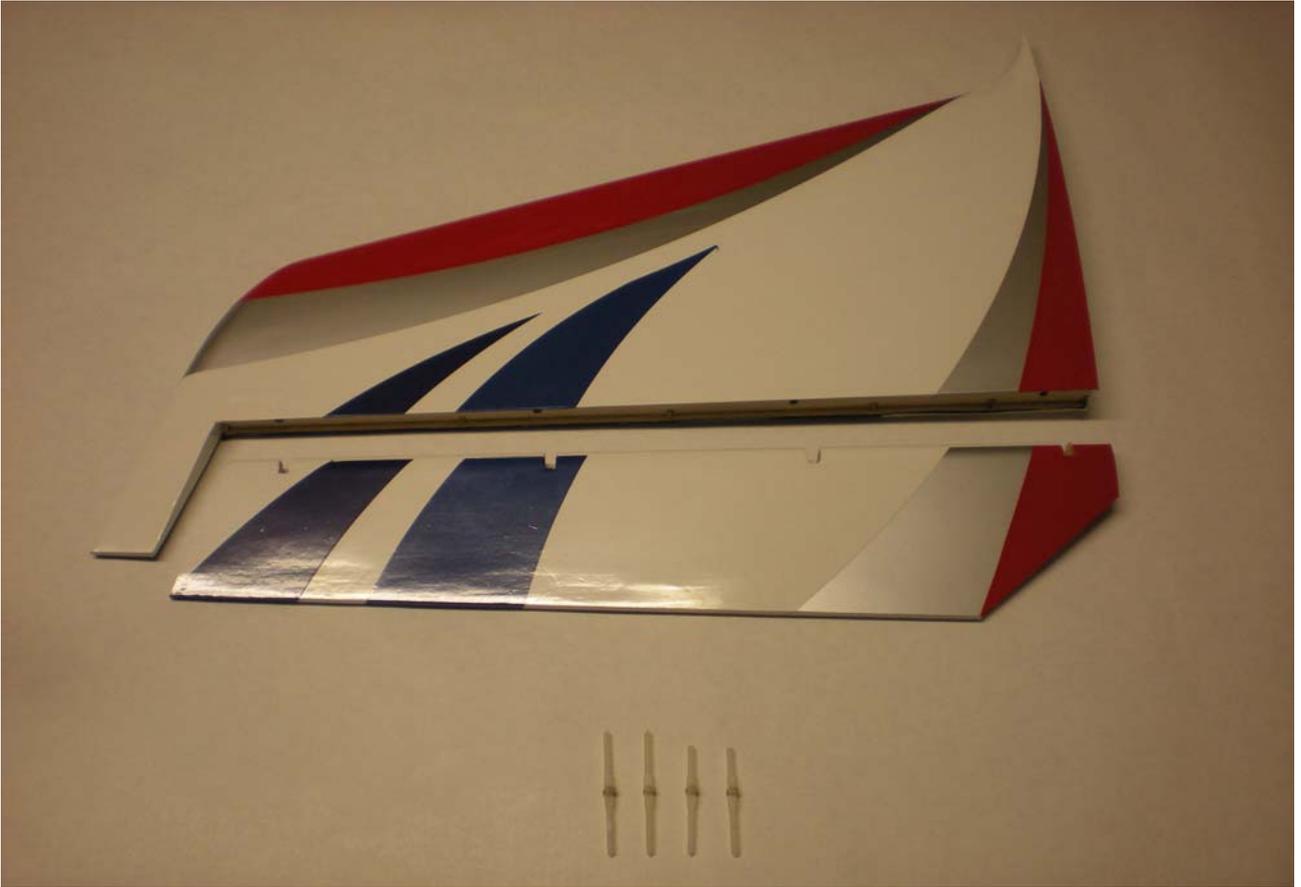




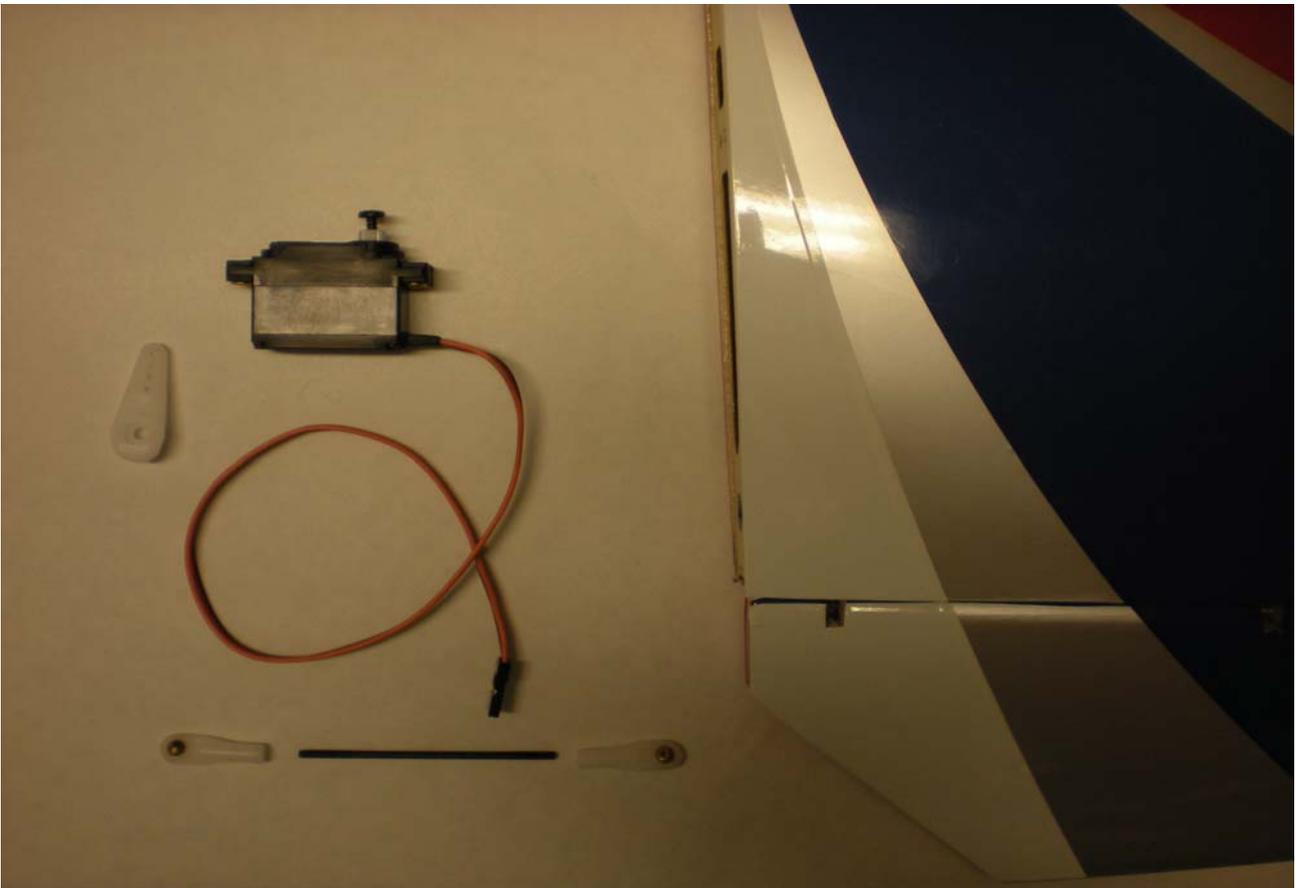


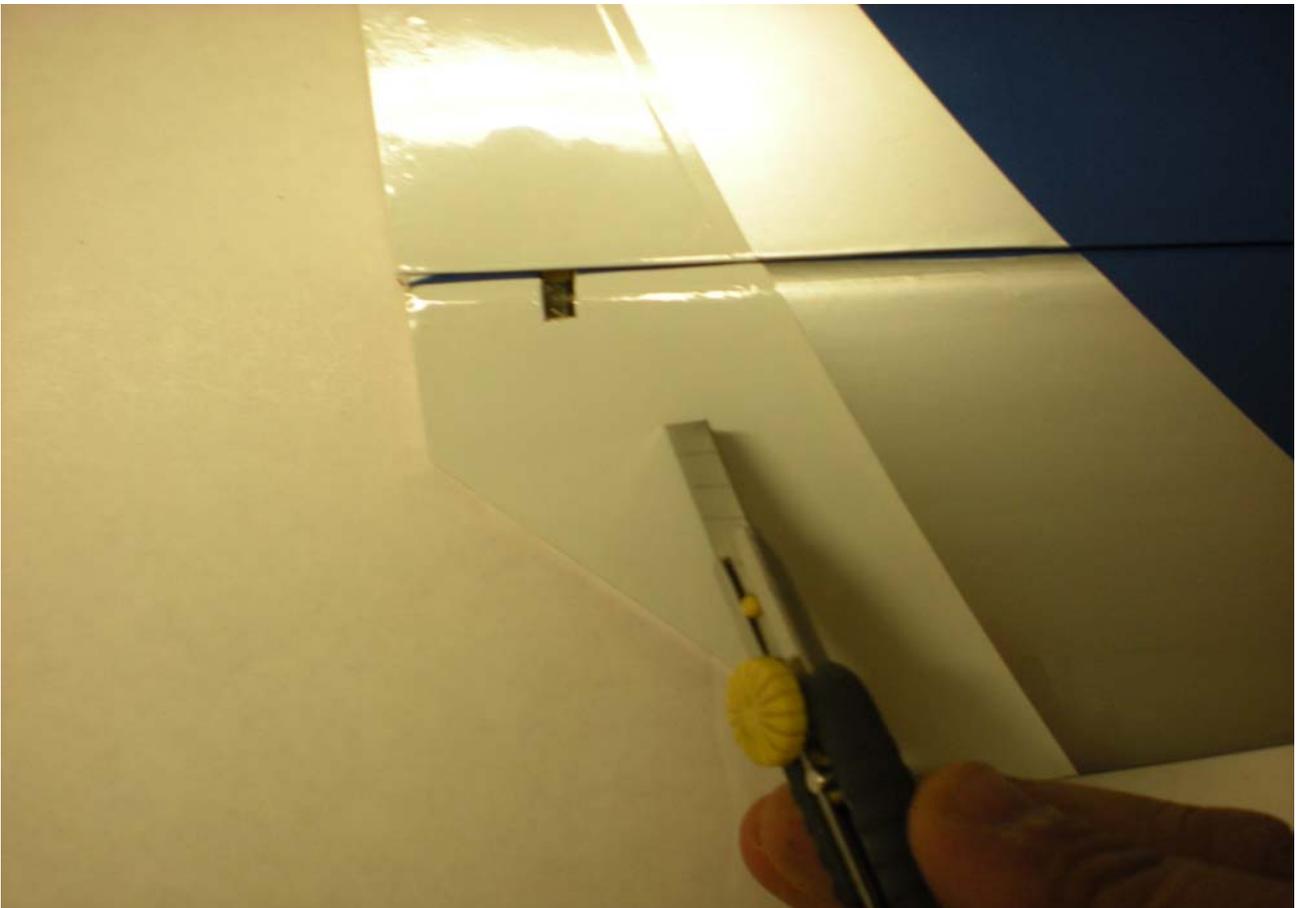


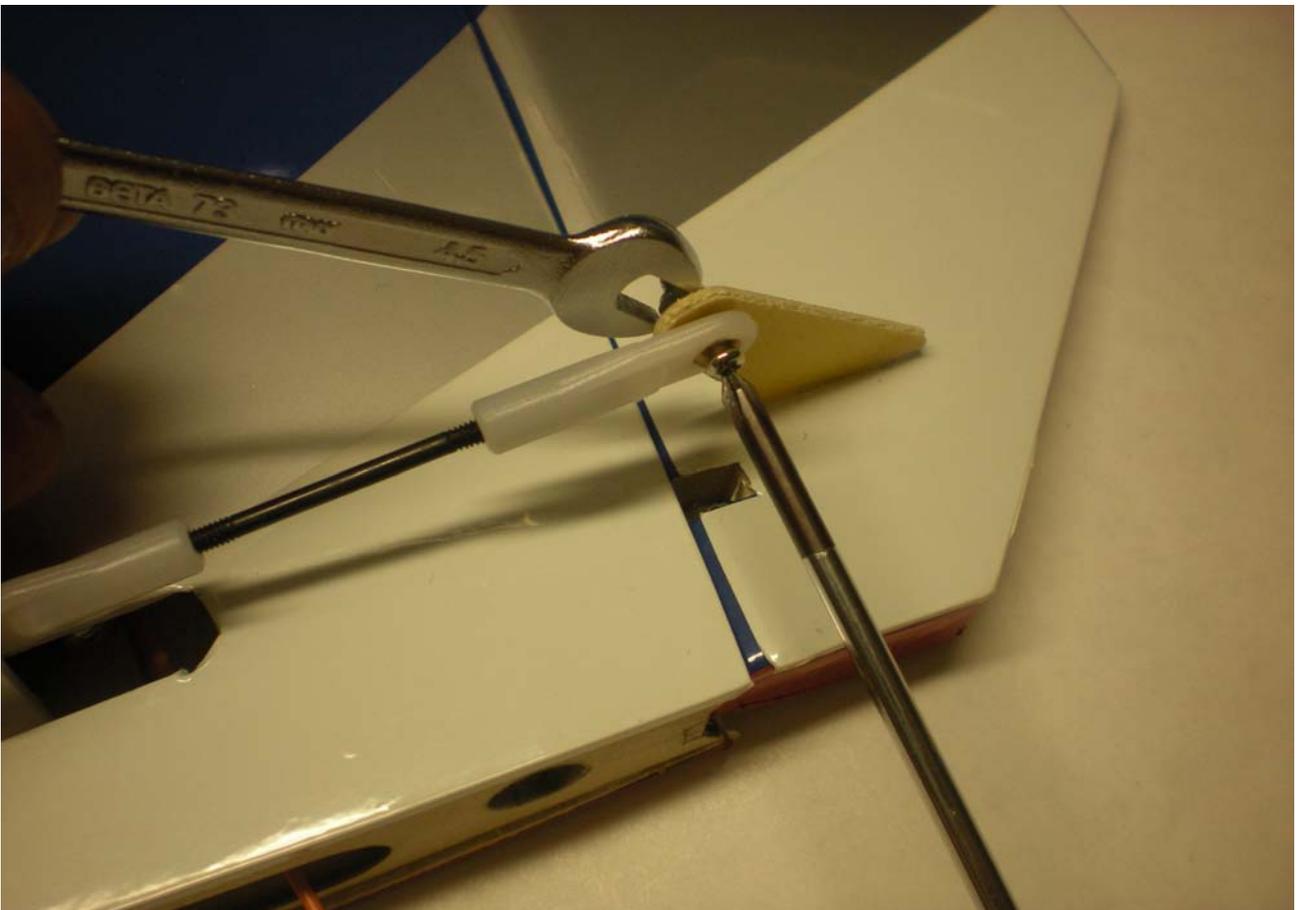


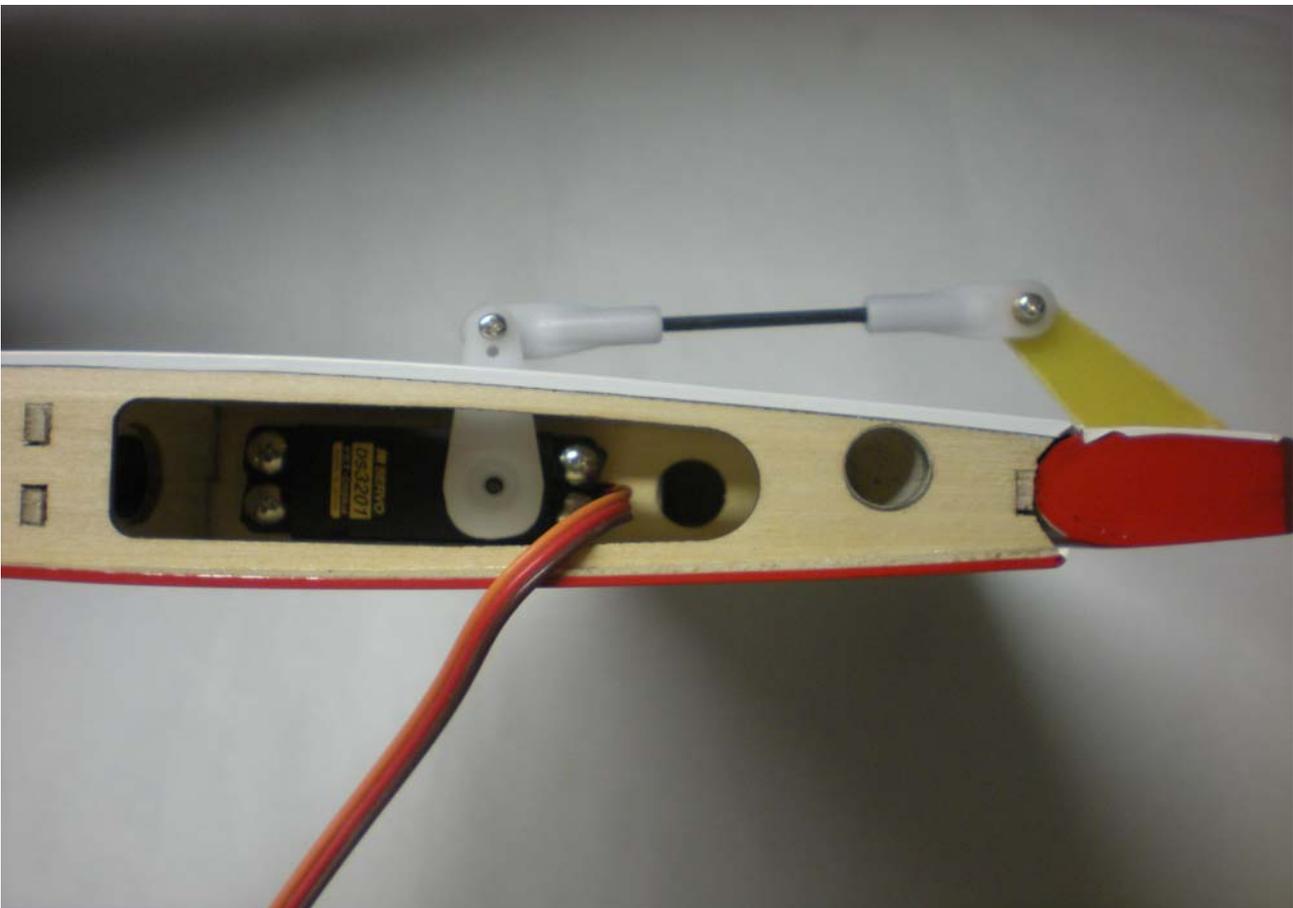


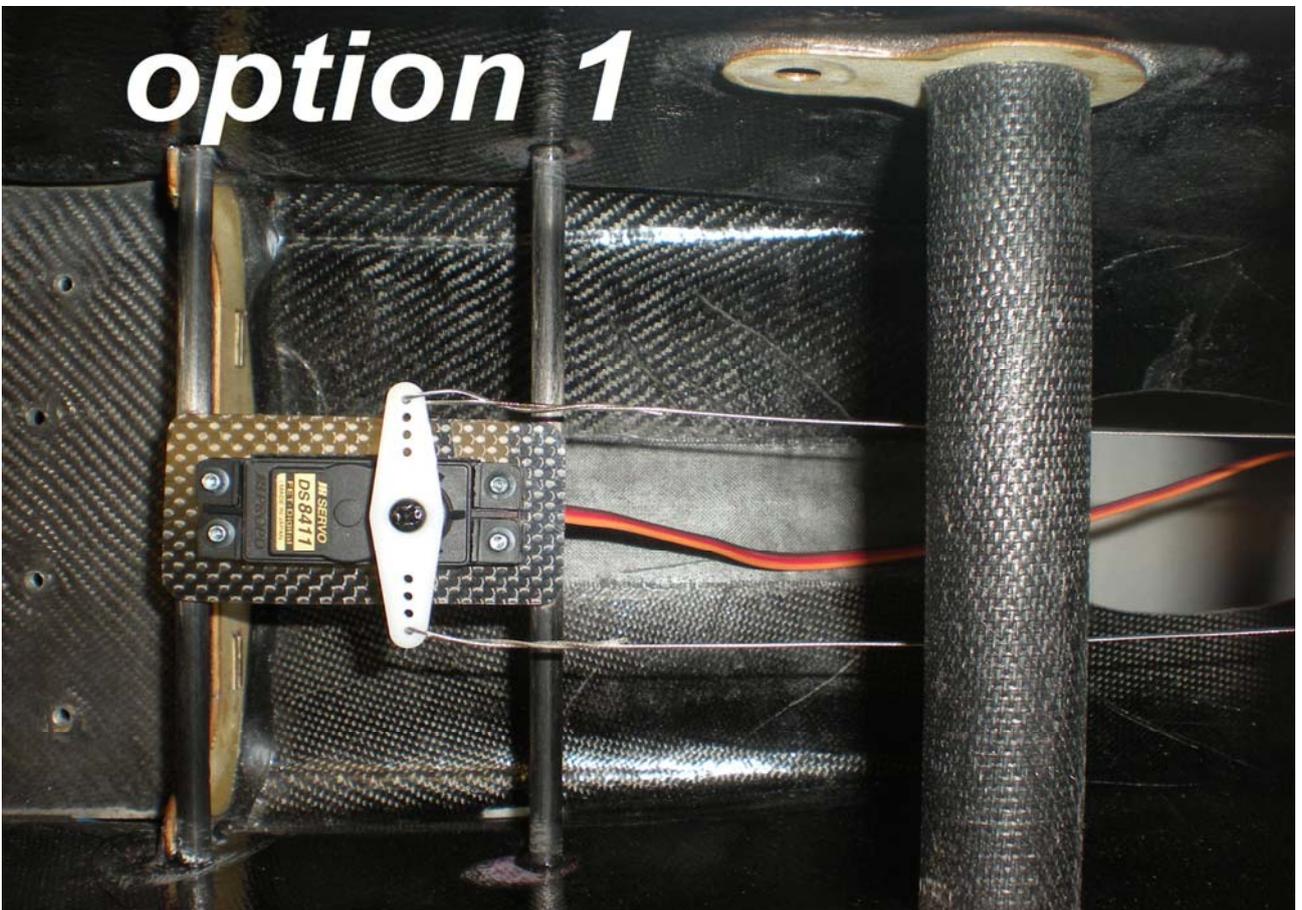
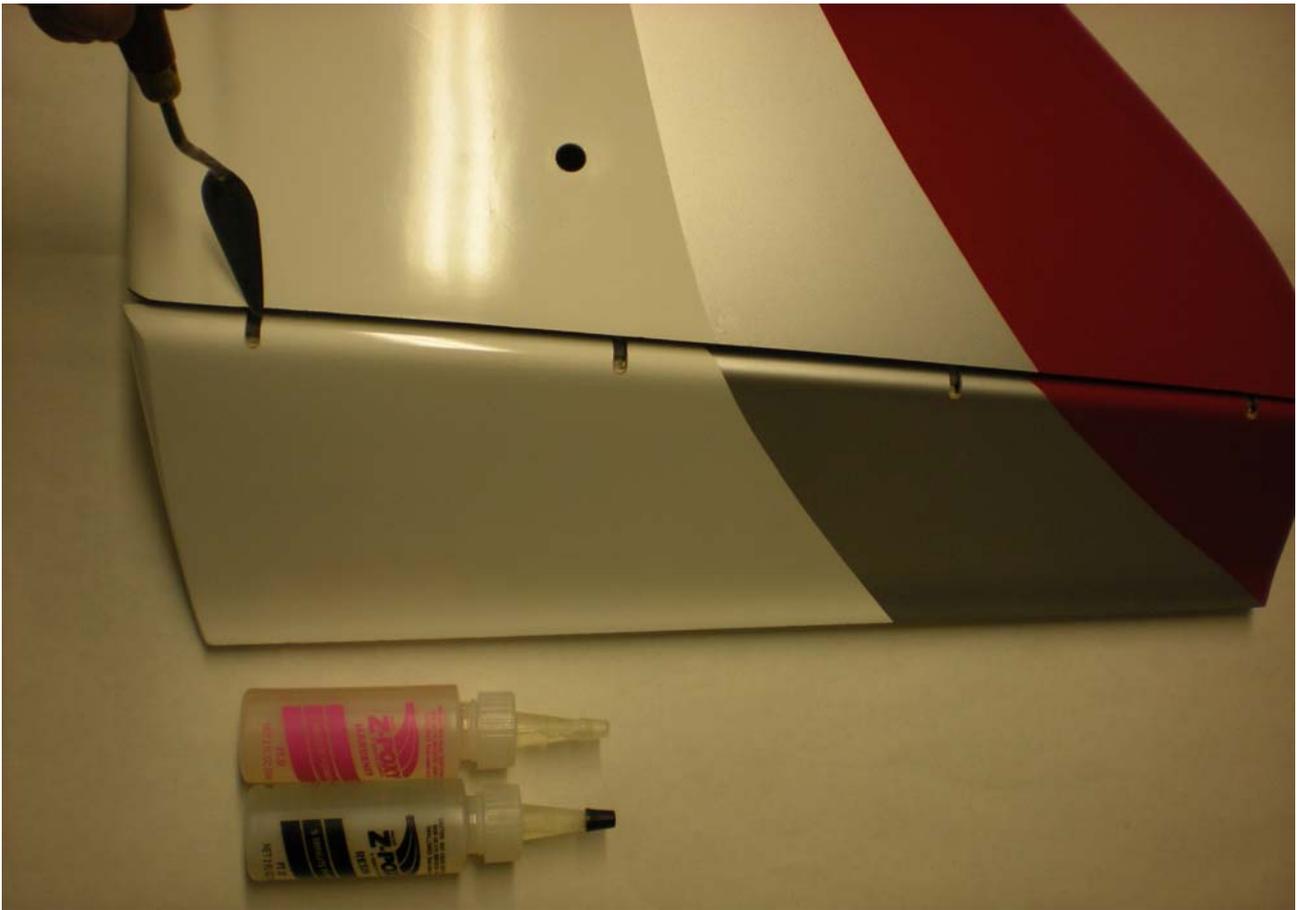




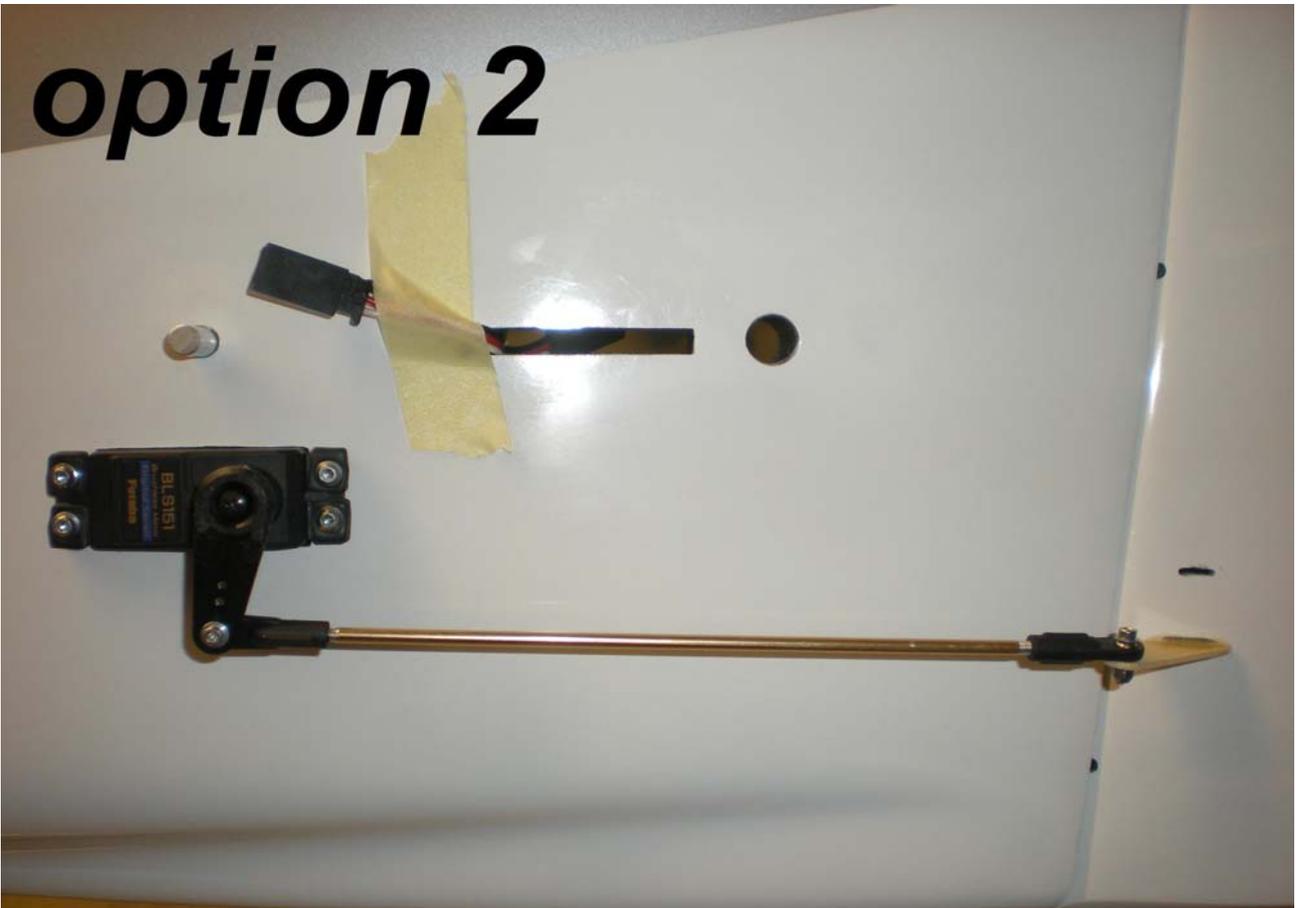
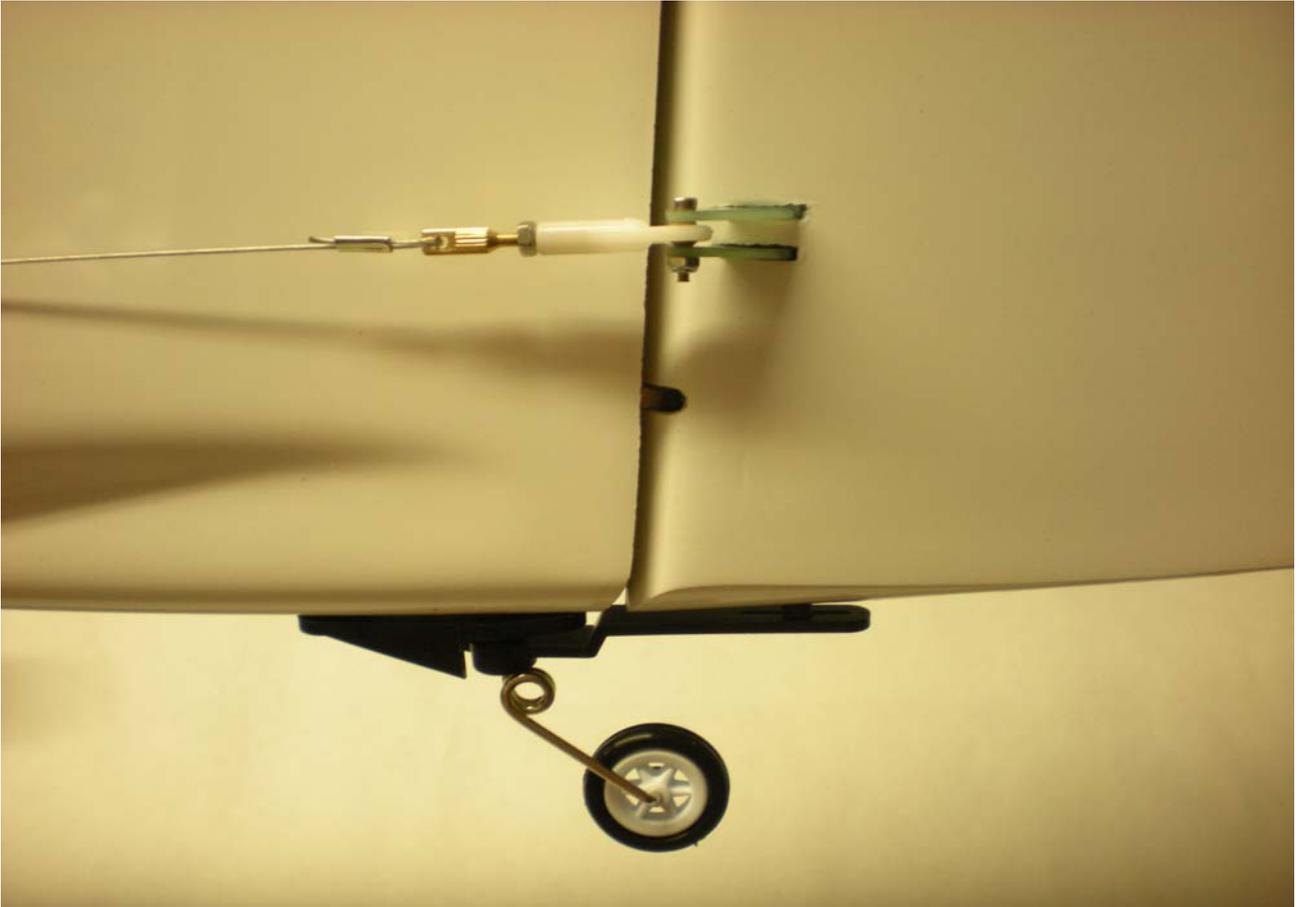






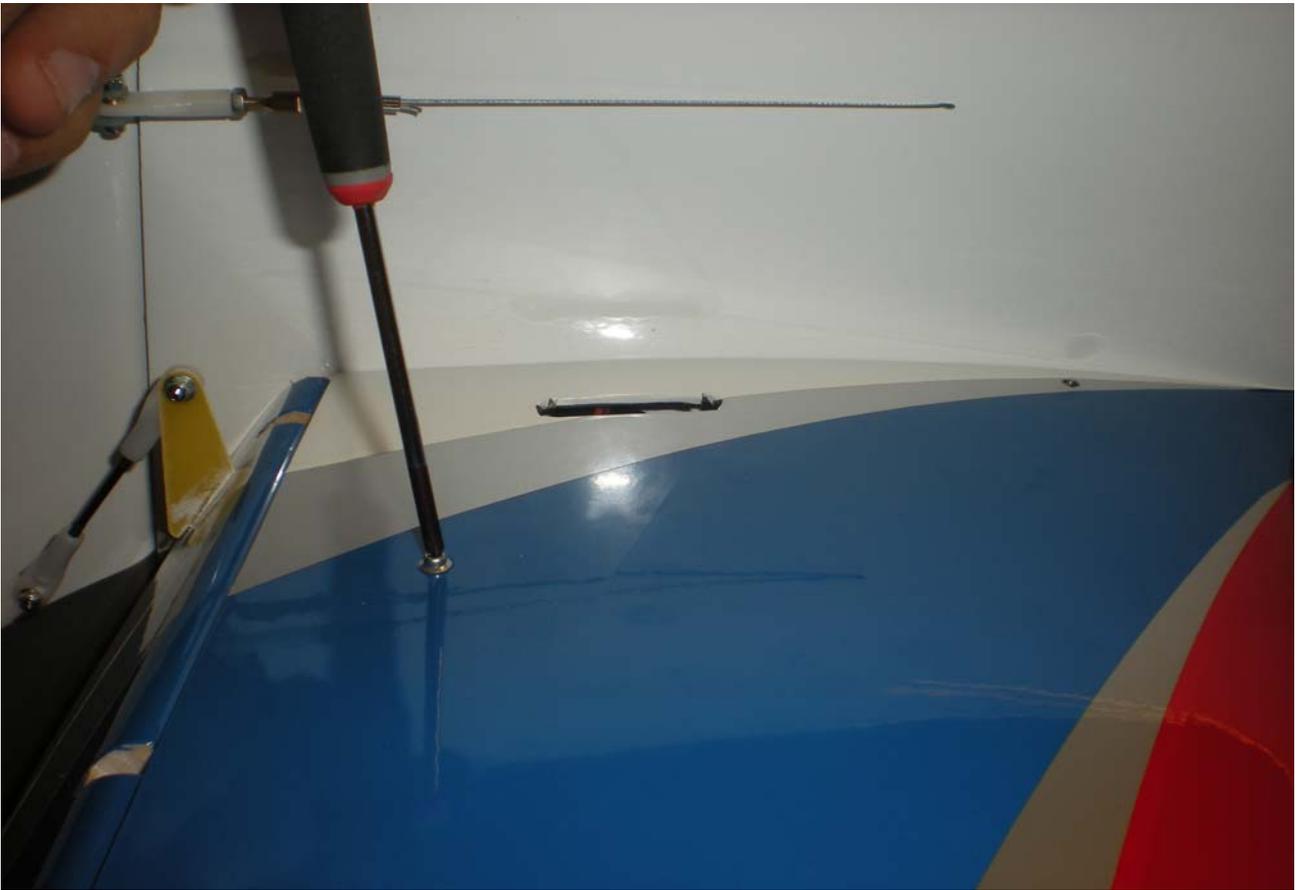


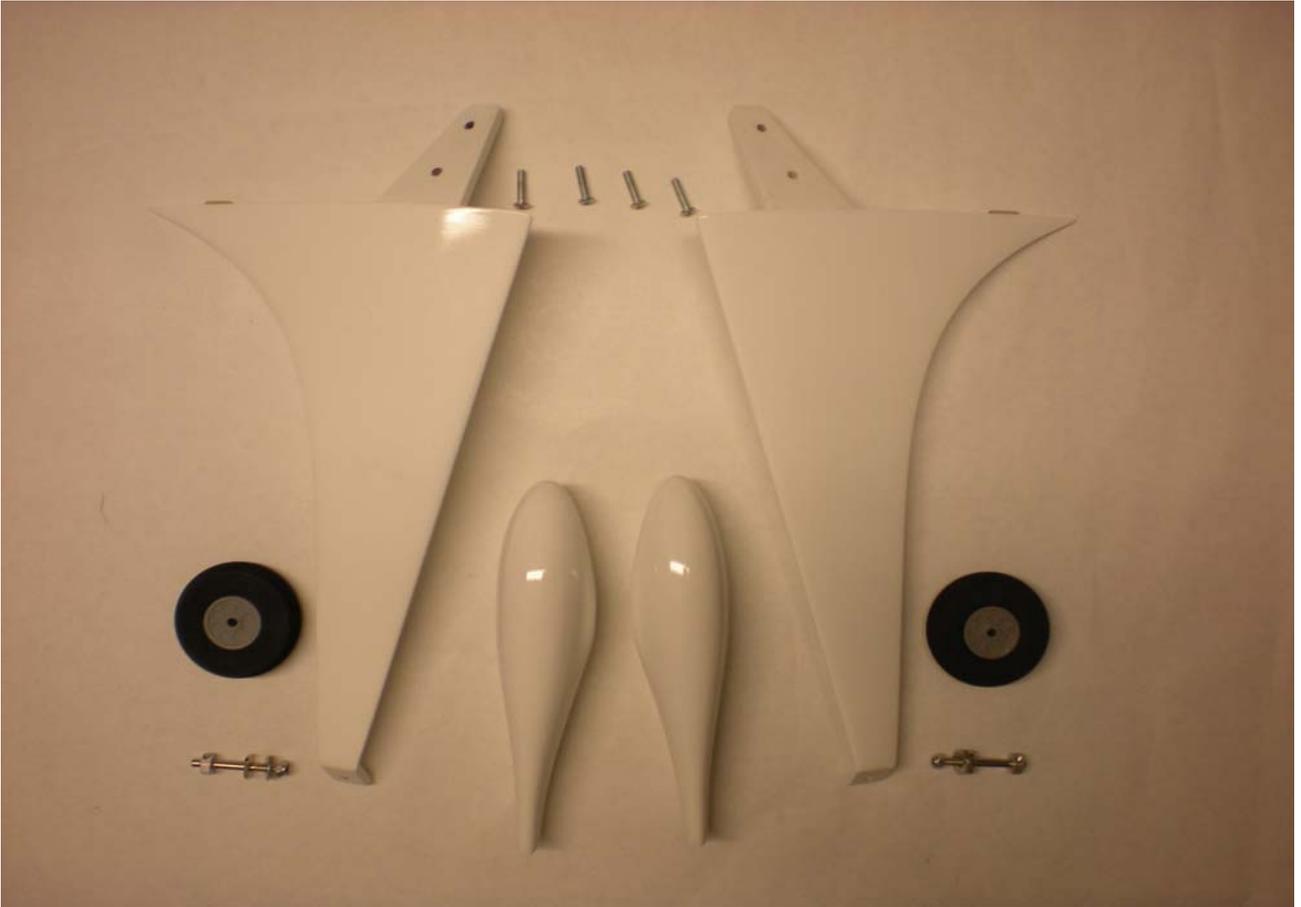


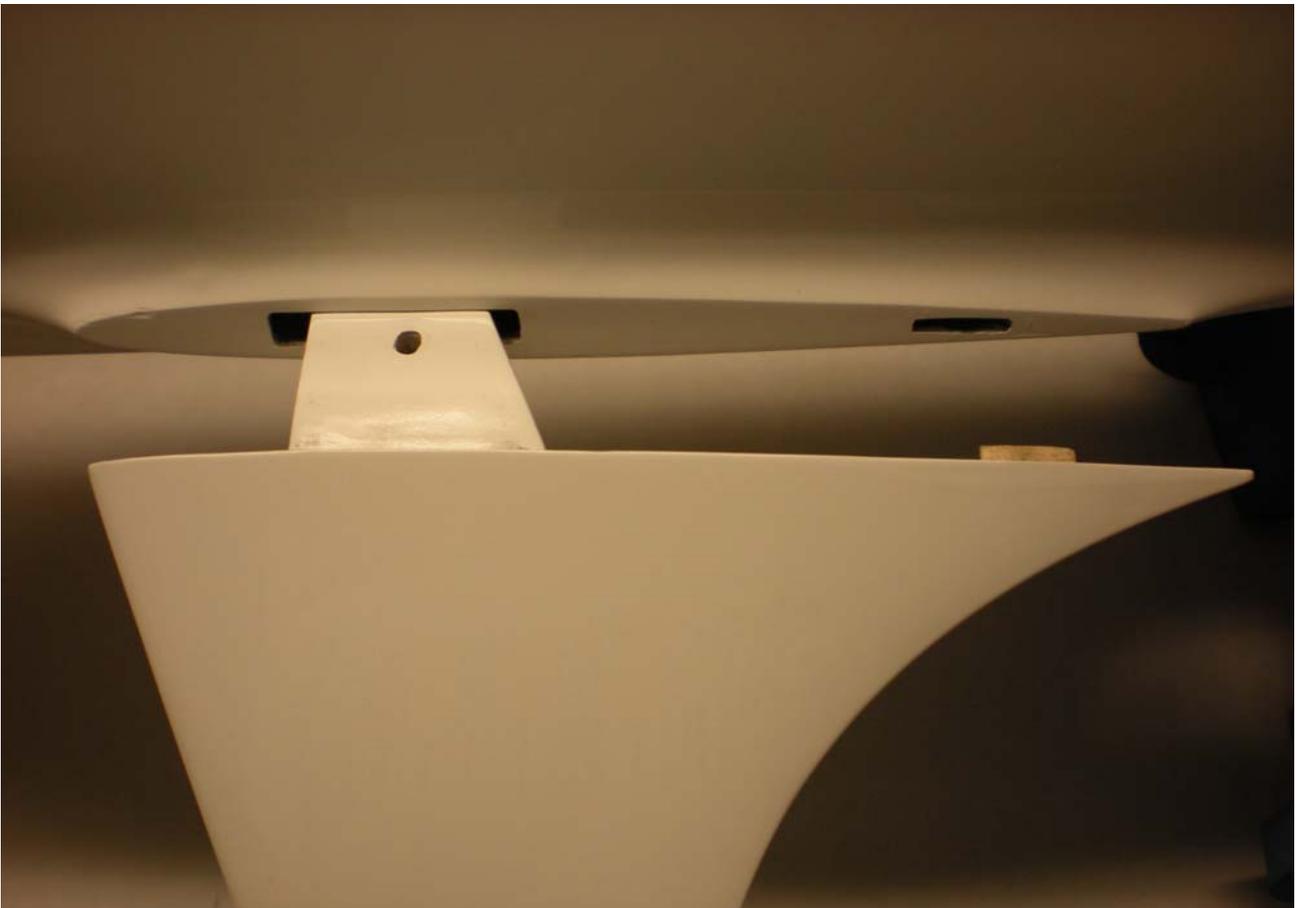




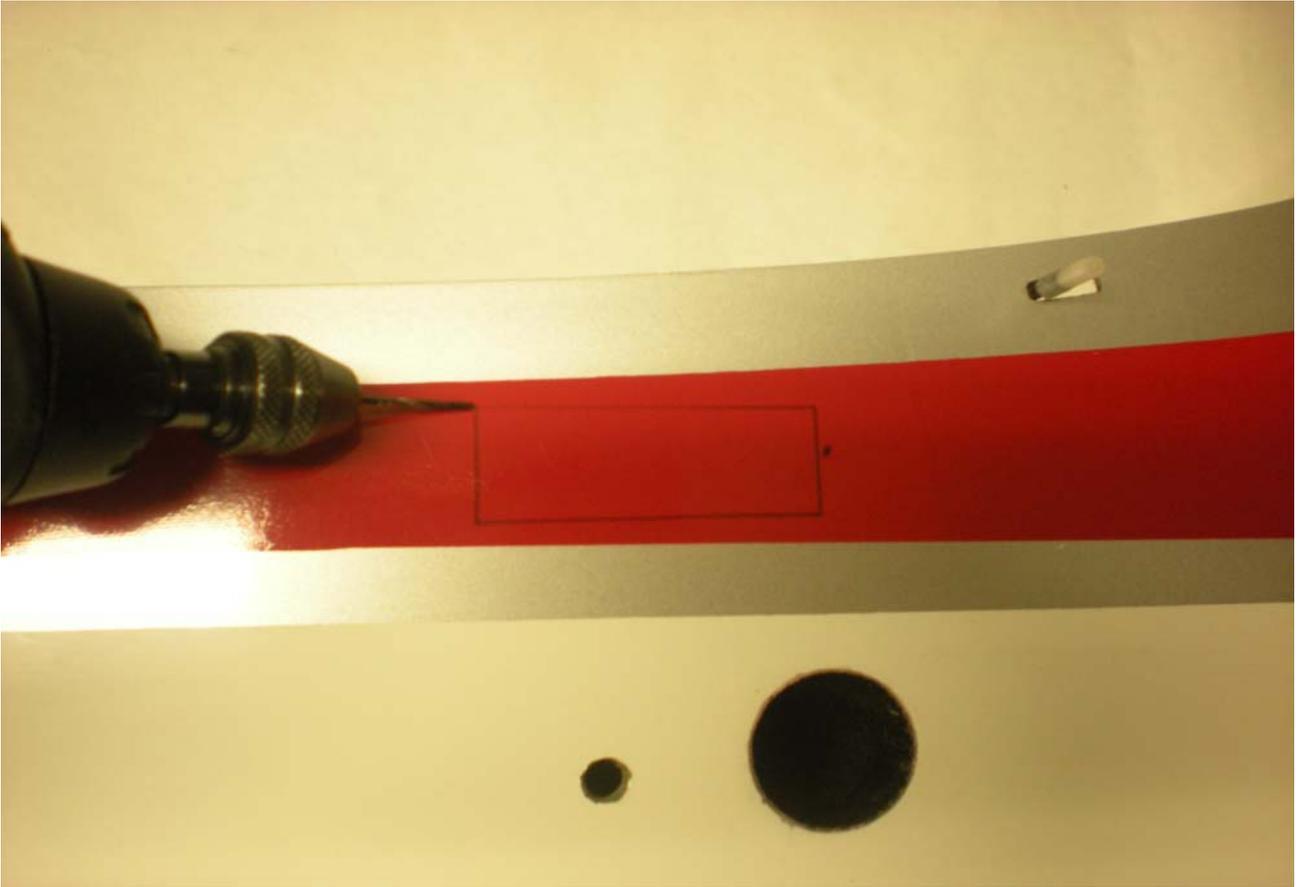




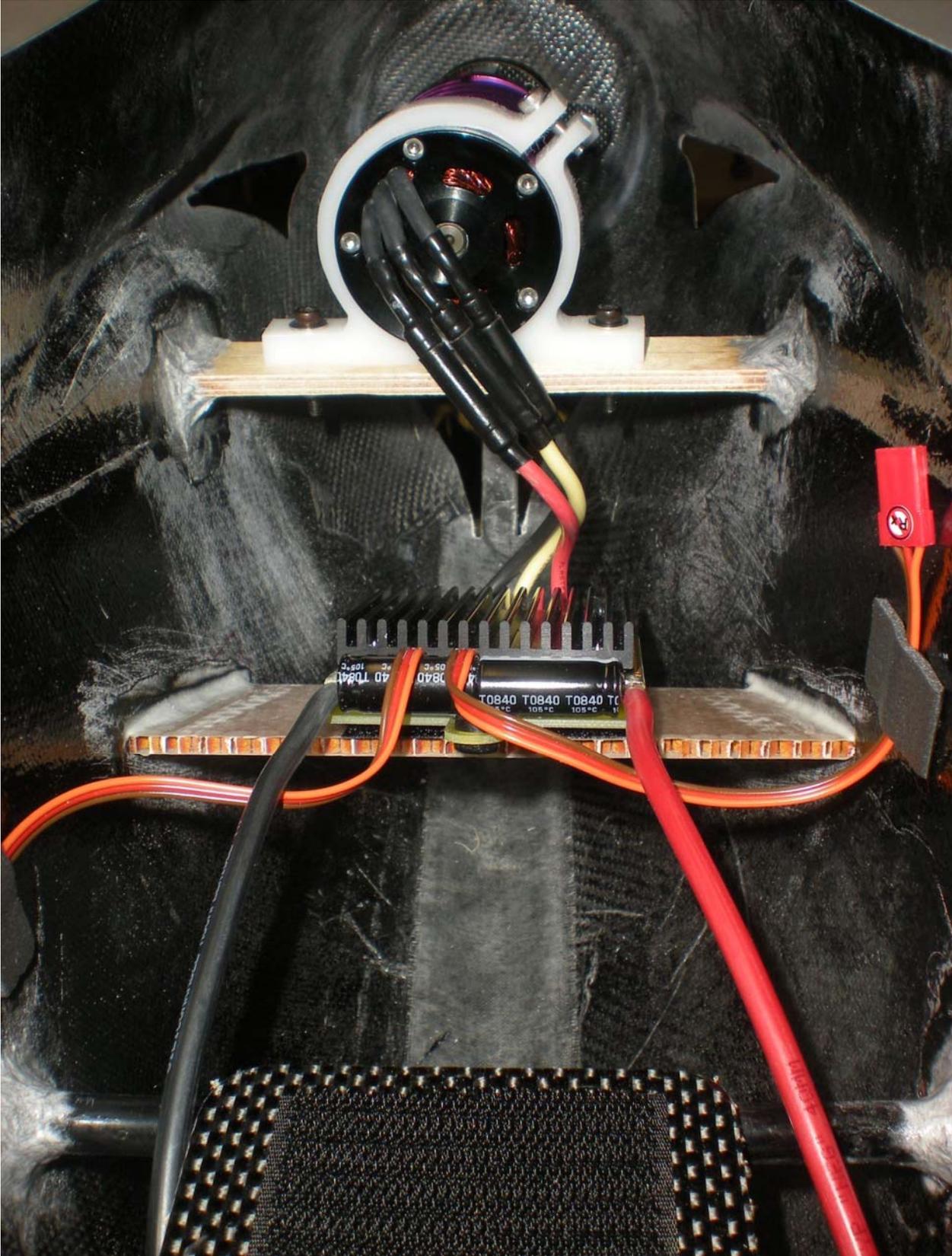








Hacker C50 + Spin99 ESC installation example



Battery support and Rx installation example

