

ATEC 321 FAETA NG – tailplanes assembly and disassembly

- ⇒ One person is needed for assembly/disassembly of the tailplanes.
- ⇒ All parts needed for assembly are delivered together with the aircraft.
- ⇒ Do not push hardly on any surface during manipulation to avoid cracks in the gel-coat (especially in the area of dividing lines, edges, non-reinforced areas).
- ⇒ For each next assembly, it is necessary to replace locking nuts with new ones.
- ⇒ Pay attention to avoid a fall of small parts into the inner space of the tail fin during manipulation!!

Tailplanes assembly / disassembly

a) Horizontal tailplanes (HT) installation

- ⇒ In case the aircraft is delivered with the vertical tail rudder already installed, it is necessary to remove it to reach the access to attachment points of the horizontal tailplane attachments. For disassembly instructions see the part b) on the Page 7.
- ⇒ Prepare the tailplanes for assembly (2 halves of horizontail tailplane and vertical tail rudder):



⇒ Remove the cover of the mounting hole situated under the HT on the left side of the fuselage:

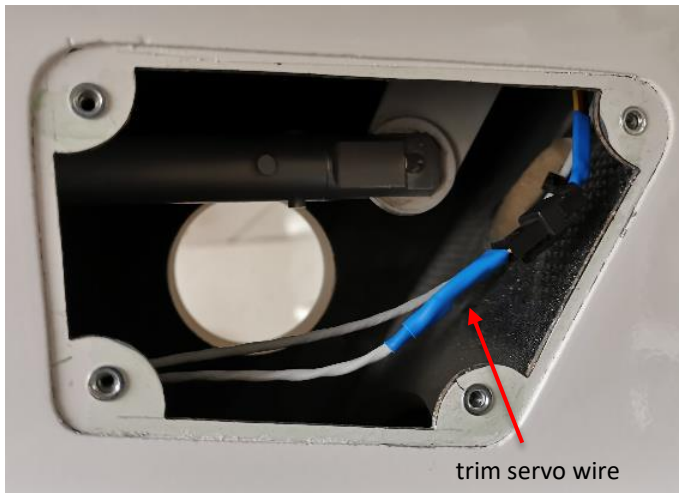


⇒ Connect the right half of the HT with the elevator first. Insert its crossbeam into the hole in the fuselage and insert the elevator into the pins in the steering lever at the same time:



⇒ Connect the left half of the HT same way. At the same time, it is necessary to get the trim servo wire through the hole into the fuselage:





⇒ Install two M8 screws, which connect both halves of the HT, into appropriate holes and screw them into the bulkhead inside the tail. The screws must be secured by the Loctite 243, fitted with a locking washer to avoid their self-loosening and must be properly tightened:





⇒ Install M4x35 screw in the hole situated in the front root area of each half of the HT stabilizer. These fix both HT halves with connecting tube. Secure the screws by the Loctite 243:



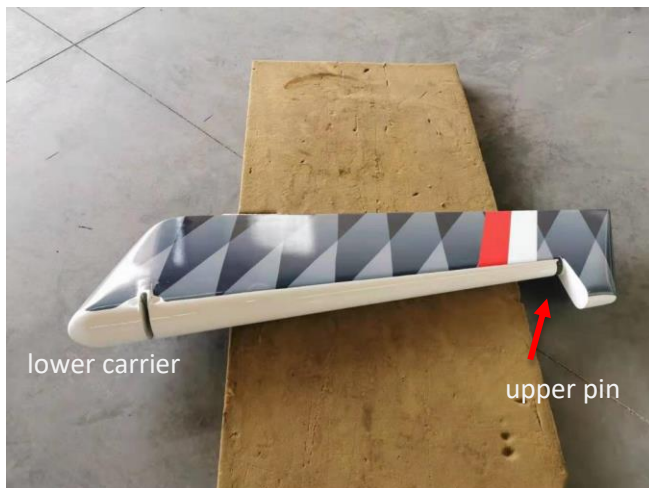
⇒ Prepare two nuts and two washers for M6 screws. Install them on M6 screw fixing the elevator to the steering lever. Install it the same way on the second half of the horizontal tailplane:





Vertical tail rudder installation

⇒ Prepare the VT rudder for its installation to the fin tail:



⇒ Push the pedals to deflect the VT rudder either to the left or right. Keeping deflected position, insert the VT rudder (its upper pin) into its upper hinge on the tail fin and push its lower carrier to the tail fin at the same time:



⇒ Prepare two M5x35 stainless screws. Adjust the steering back to neutral position and install both screws on each side of the VT rudder. These fix the VT rudder in the lower carrier:



⇒ Install the cover of the mounting hole situated below the left horizontal tailplane:



⇒ Cover the gap between the fuselage and HT by any suitable white plastic tape (eg. 3M) which avoids water intrusion into the fuselage.

b) Horizontal and vertical tails disassembly

Remove the VT rudder. Unscrew two M5 screws fixing the VT rudder in the lower carrier. Deflect the rudder fully to the left or right. Pull the bottom part of the rudder out of the lower carrier and then, lift the rudder upwards to remove it out of the upper hinge.

Disassembly of the HT is carried out in reverse order. Unscrew the front M4 screws from the upper side of the HT. Finally, unscrew both M8 screws connecting both HT halves with the fuselage. Pull both HT halves out of the fuselage.