

8-10KG LEVEL EPO JET

# T-45 *GOSHAWK* & Red Arrows Hawk

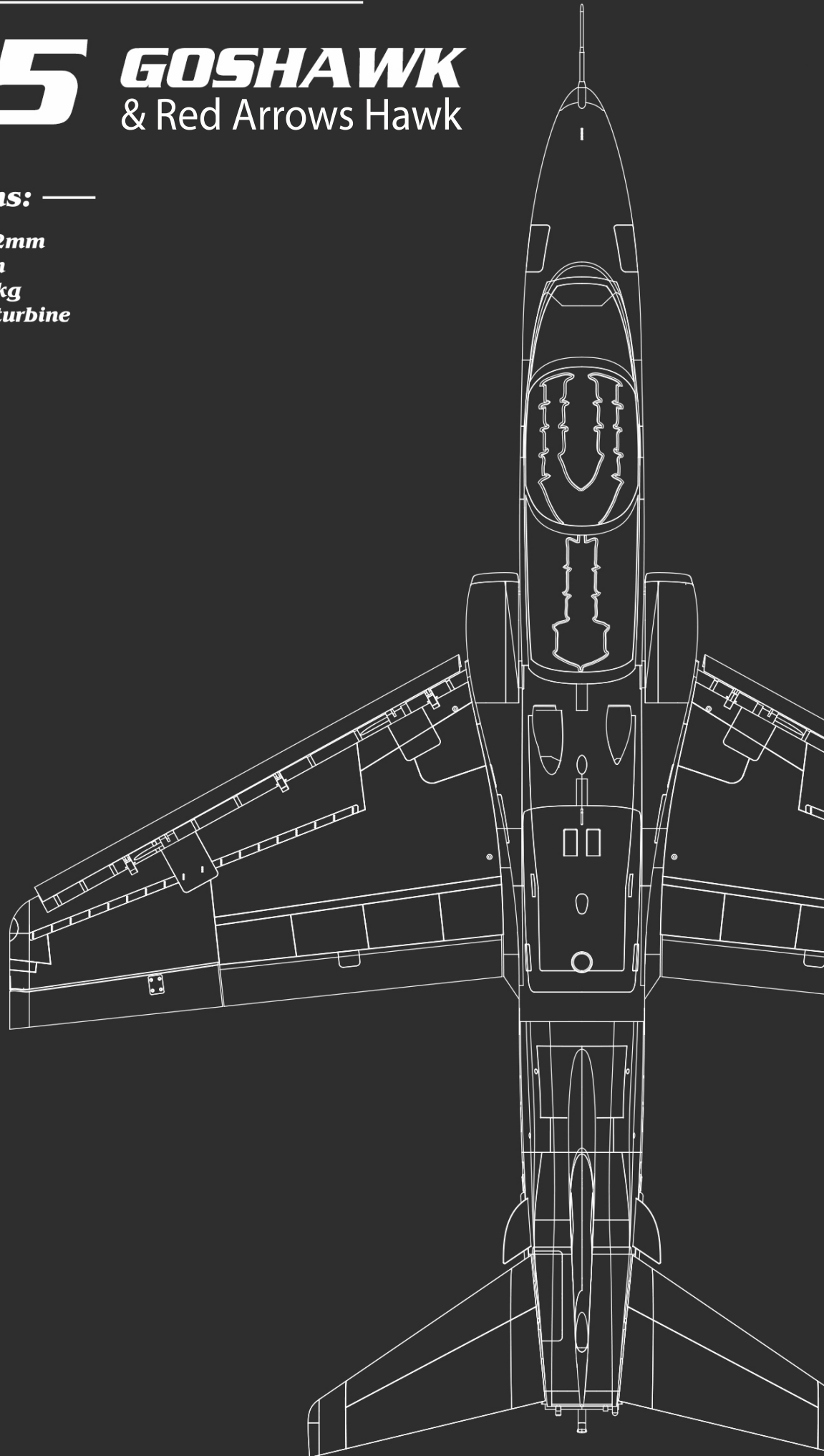
— *Specifications:* —

**Wing Span: 1502mm**

**Length: 1903mm**

**Flying Weight: 9kg**

**Turbine: 8-10kg turbine**



Thankyou for buying the HSD Hawk/T45 Goshawk.  
We hope you enjoy many hours of flying.

## History

### T-45

Background. The T-45 Goshawk has its origins in the mid-1970s, during which time the U.S. Navy formally commenced its search for a new jet trainer aircraft to serve as a single replacement for both its T-2 Buckeye and A-4 Skyhawk trainers. ... On 16 April 1988, the first T-45A Goshawk conducted its maiden flight.

### Hawk

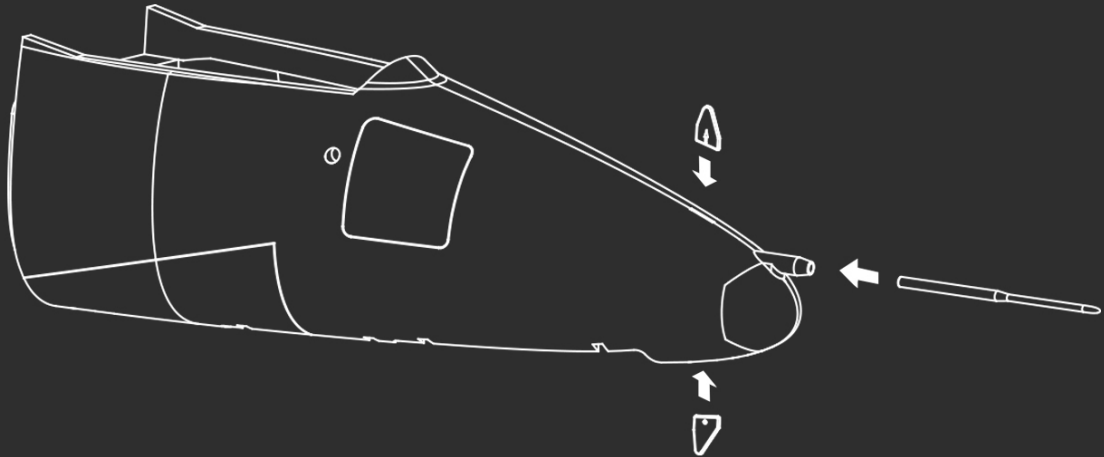
The Red Arrows team use the same two-seat training aircraft used for advanced pilot training, at first the Folland Gnat which was replaced in 1979 by the BAE Hawk T1. The Hawks are modified with an uprated engine and a modification to enable smoke to be generated; diesel is mixed with a coloured dye and ejected into the jet exhaust to produce either red, white or blue smoke.



Length - 1904mm  
Wingspan - 1501mm  
Flying weight - 9kg - 10kg  
Turbine - 8 - 10kg  
Fuel tank - 2700cc  
Servos - 4x 17g / 3x 9g / 5x MG Mini / 1x STD Mini  
Retracts - JP

**1.**

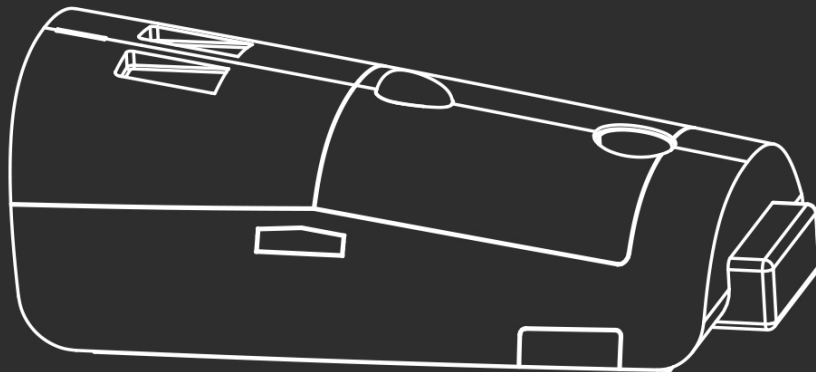
Glue antenna in place with PT56 Glue.  
The Pito tube is an interference fit and we do not recommend glueing  
due to transportation damage.



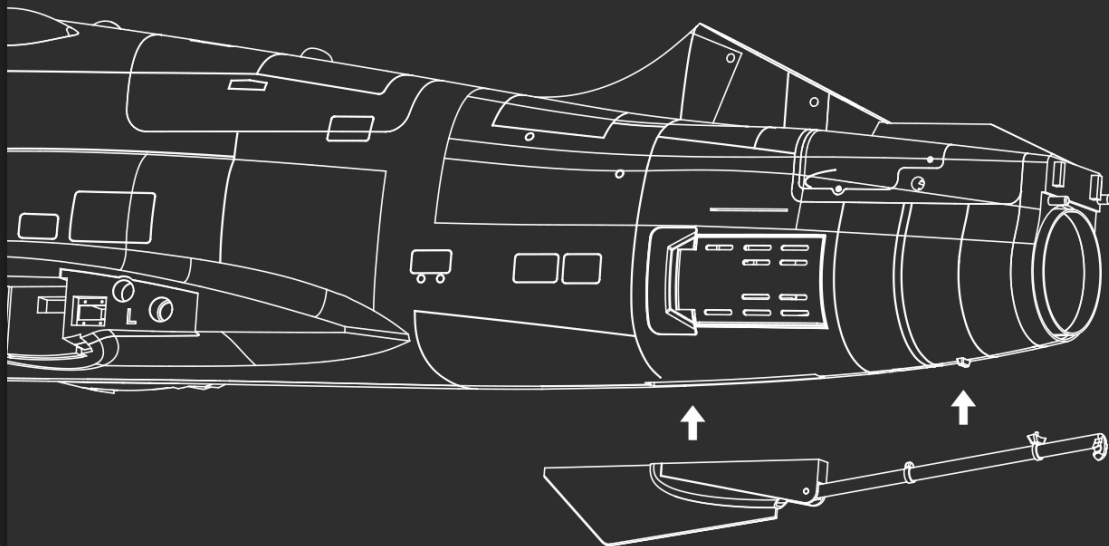
**2.**

DO NOT  
PAINT

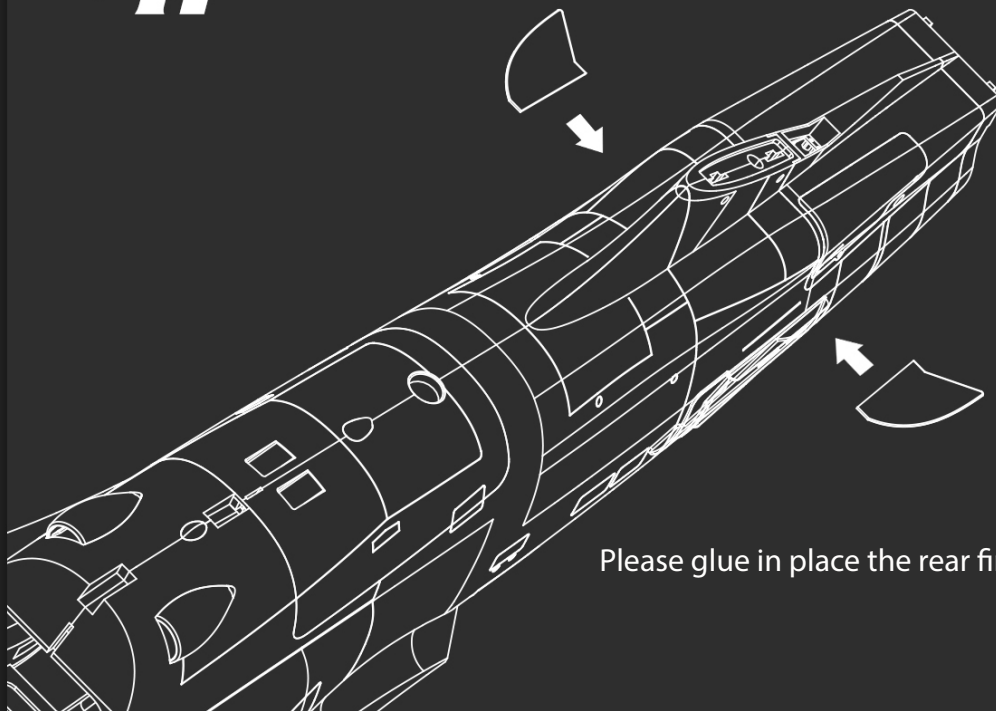
Glue the antenne as shown.



**3.** If you have purchased the T45, please glue in place the tailhook as shown.



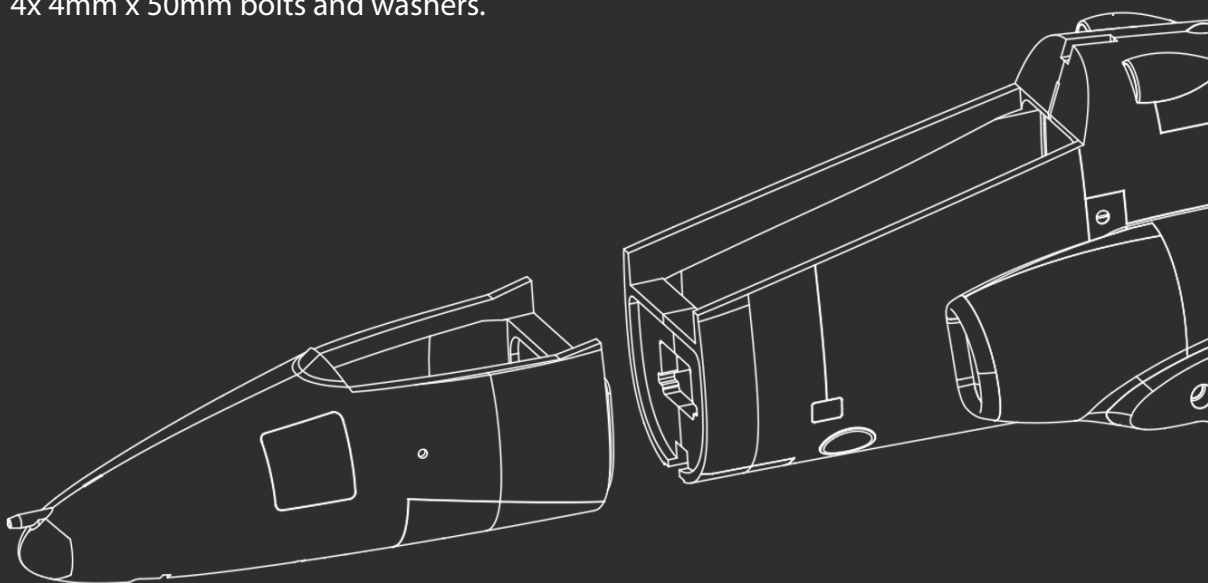
**4.**



Please glue in place the rear fins as shown.

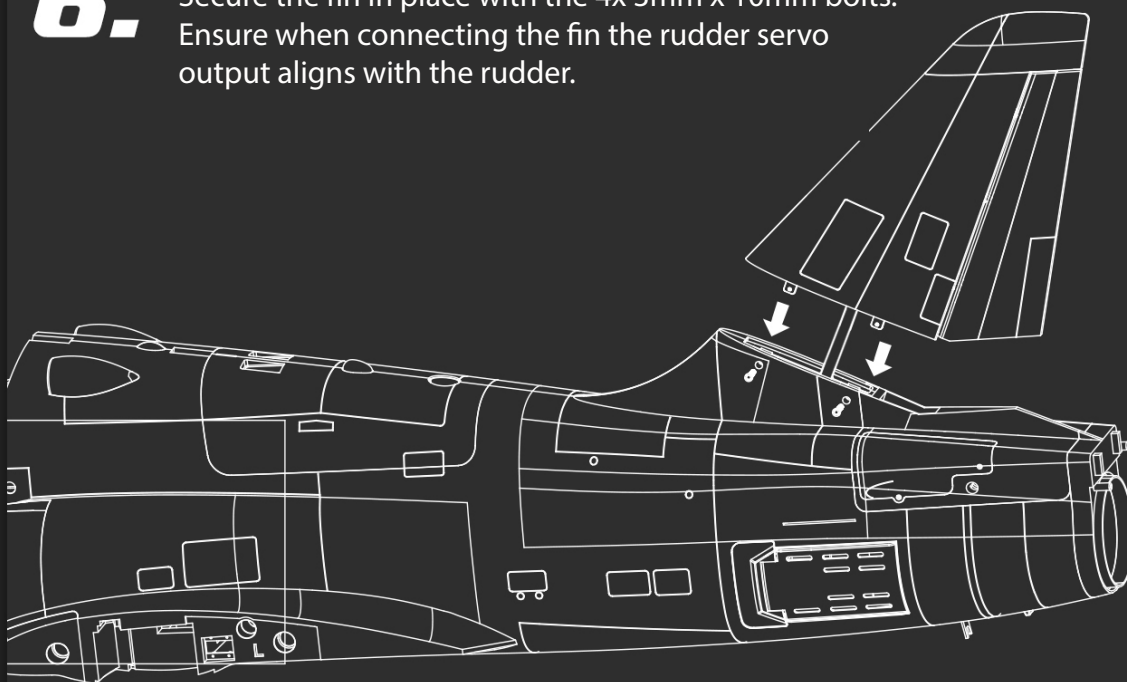
**5.**

Secure the nose in place with the 4x 4mm x 50mm bolts and washers.



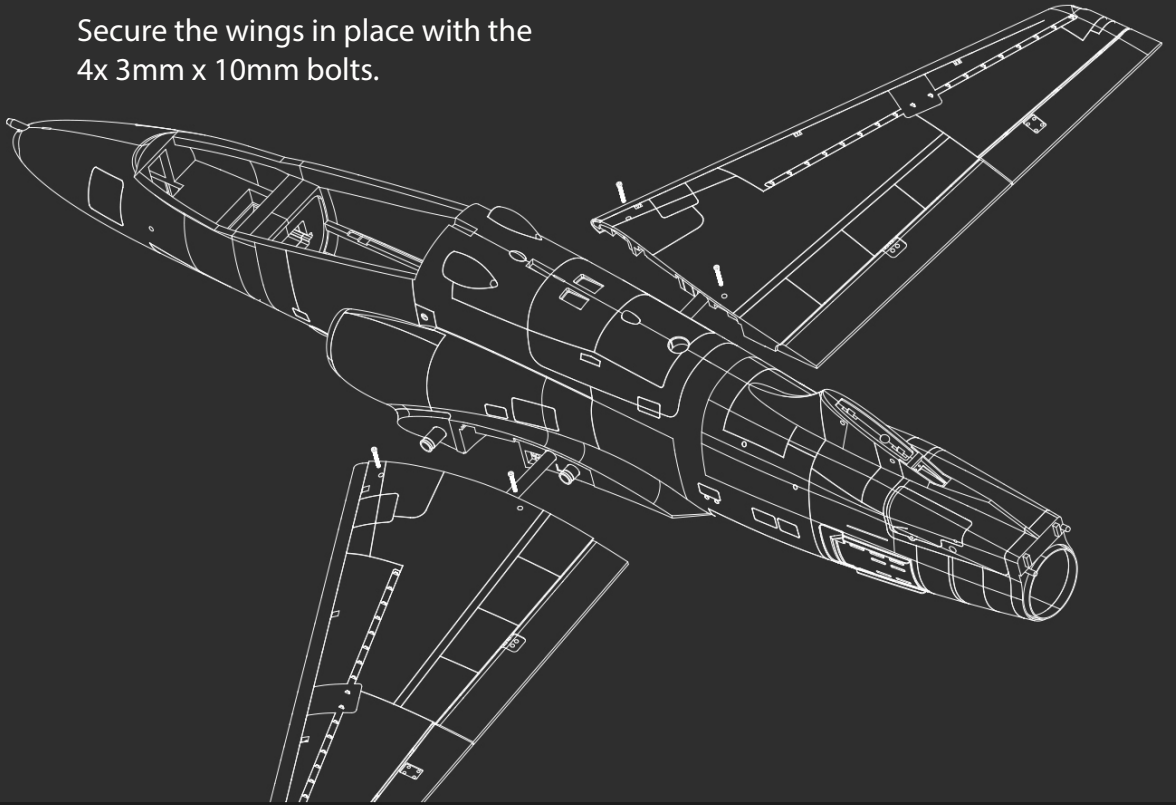
**6.**

Secure the fin in place with the 4x 3mm x 10mm bolts. Ensure when connecting the fin the rudder servo output aligns with the rudder.



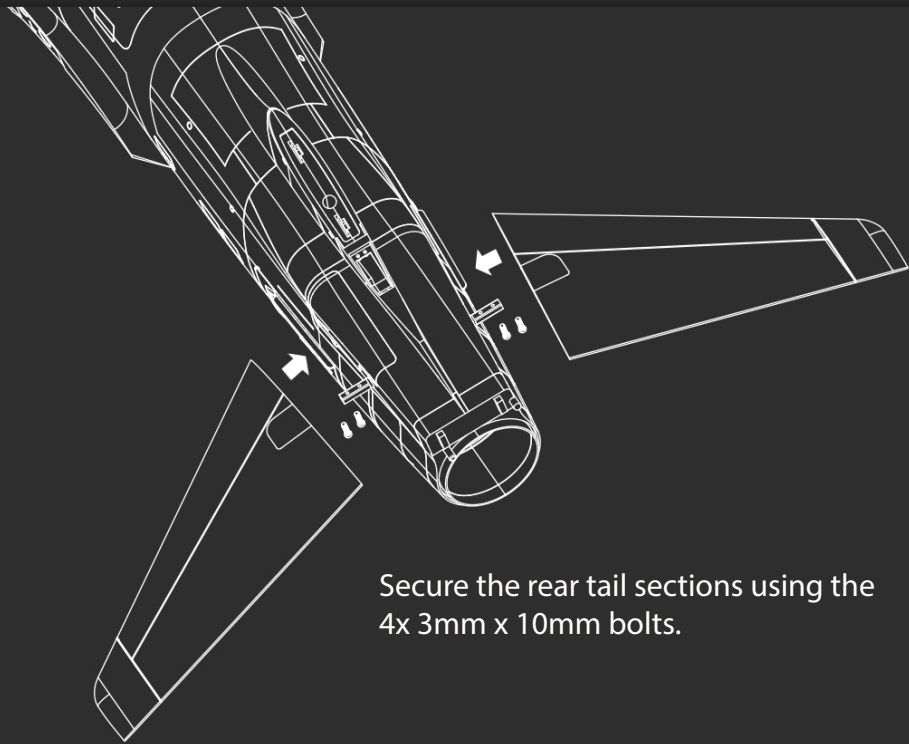
**7.**

Secure the wings in place with the 4x 3mm x 10mm bolts.

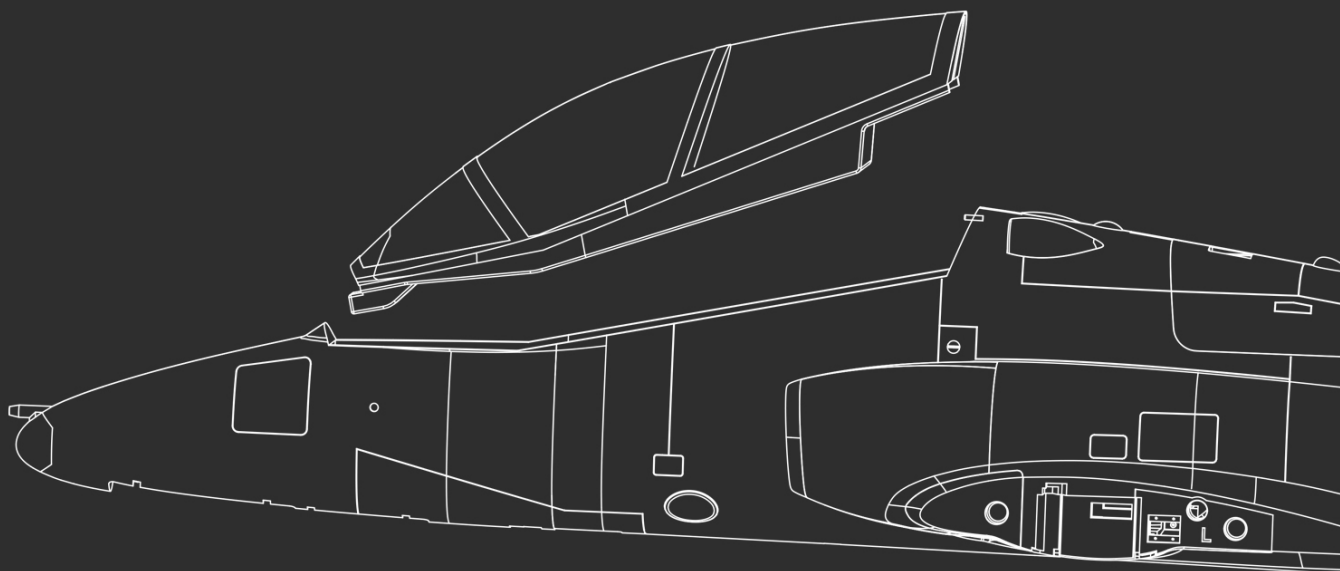


**8.**

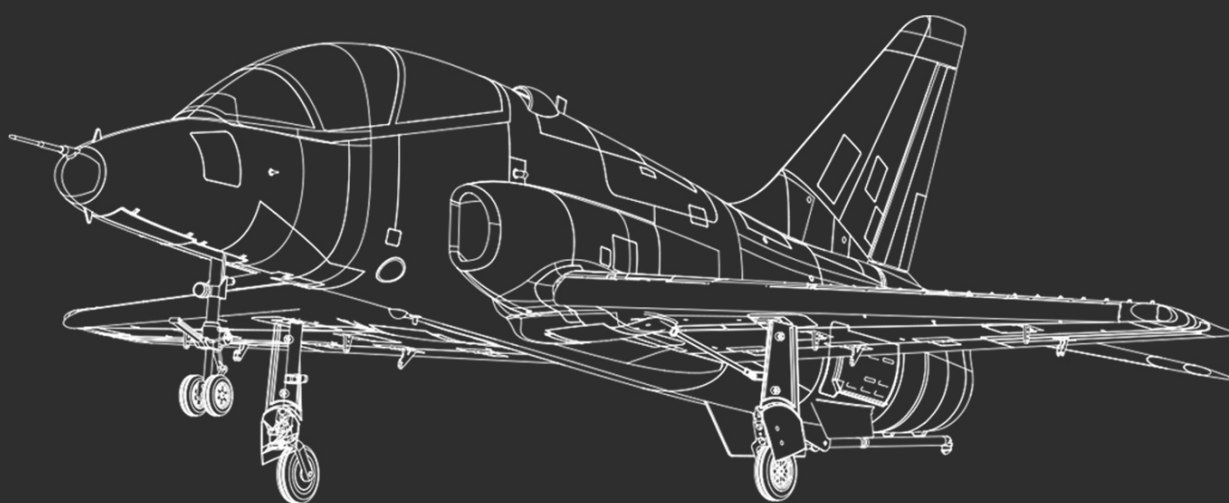
Secure the rear tail sections using the 4x 3mm x 10mm bolts.



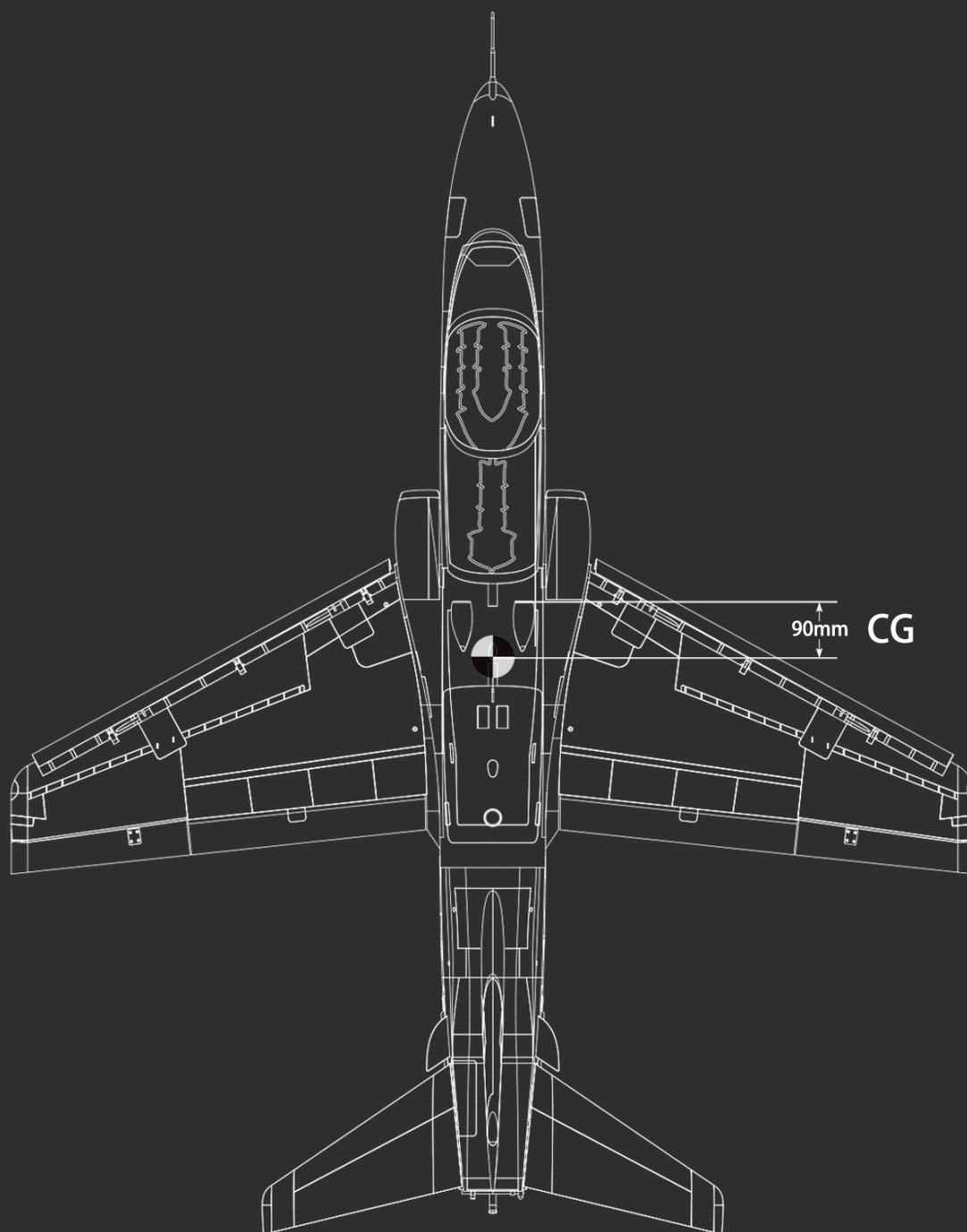
**9.** The Canopy is attached by the spring catch to the rear of the hatch.



**10.**



It is extremely important that you obtain the correct COG.  
Always ensure fuel tanks are empty.  
The COG should be achieved by moving your receiver / ECU batteries  
to hit the goal of 90mm.



### Control settings.

We highly recommend using the following settings for your set up and the examples given are from a Futaba radio.

Note - For the elevator travel please measure from the leading edge of the tail as this can be marked on the fuselage.

#### Elevator

Expo -10% to -35%

Travel - Up 20mm

- Down 20mm

#### Aileron

Expo -10% to -35%

Travel - Up 18mm

- Down 18mm

#### Rudder

Expo - 10% to - 35%

Travel - Left 30mm

- Right 30mm

#### Flaps

Take off - 20mm

Landing - 35mm

The Take off-weight of the whole aircraft is close to 10kg, and the flight speed of a turbine aircraft are generally very high. The design of the aircraft has reached the upper limit of EPO foam. It is recommended to fly carefully at high speed and avoid high speed maneuvers avoiding stressing the airframe beyond its capability.  
Example - Full deflection of control surfaces at high speed all at the same time.



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