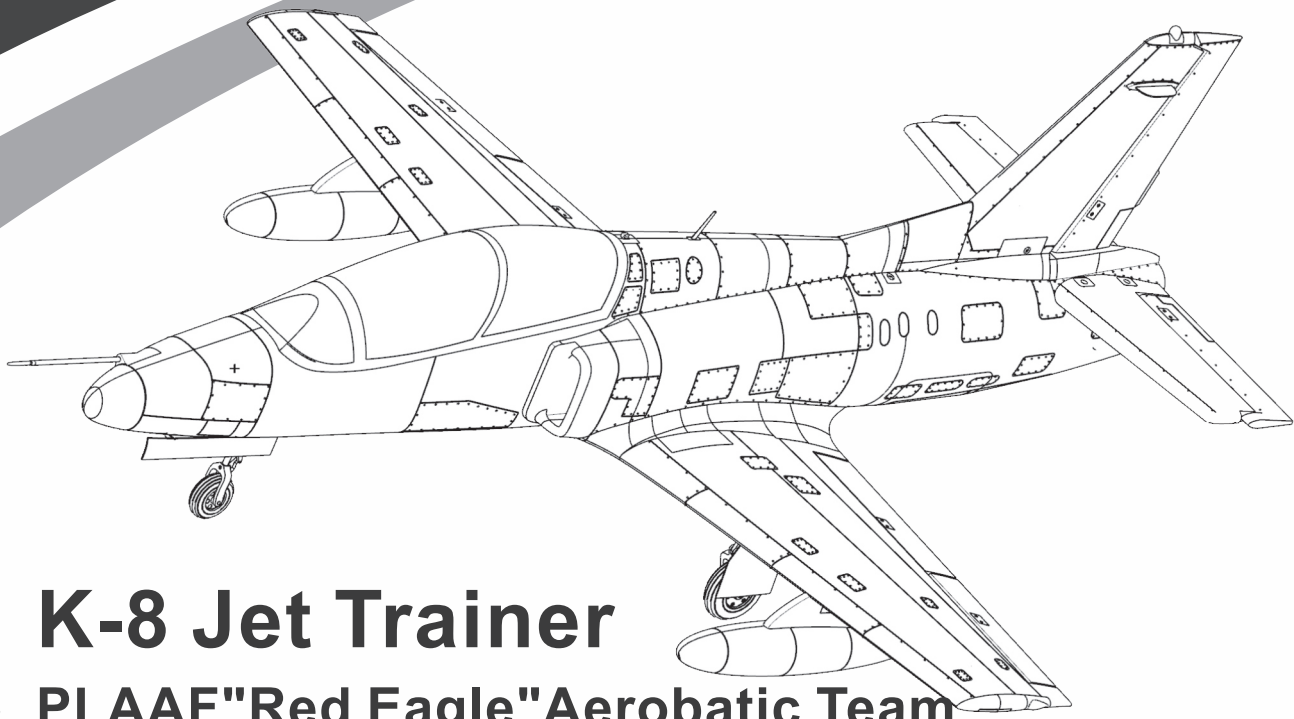




K-8 Jet Trainer

PLAAF "Red Eagle" Aerobatic Team

80mm EDF | All-Metal Worm Gear | CNC Shock-Absorbing Retracts | LED Nav Lights

Category Specification	
Wingspan	1265mm (approx.49.8 in)
Length	1390mm (54.7 in) Excludes Pitot tube
Weight	2070g (ARF version)
Takeoff Weight	3365g (Measured with 5200mAh battery)
Wing Loading	92g/dm ²

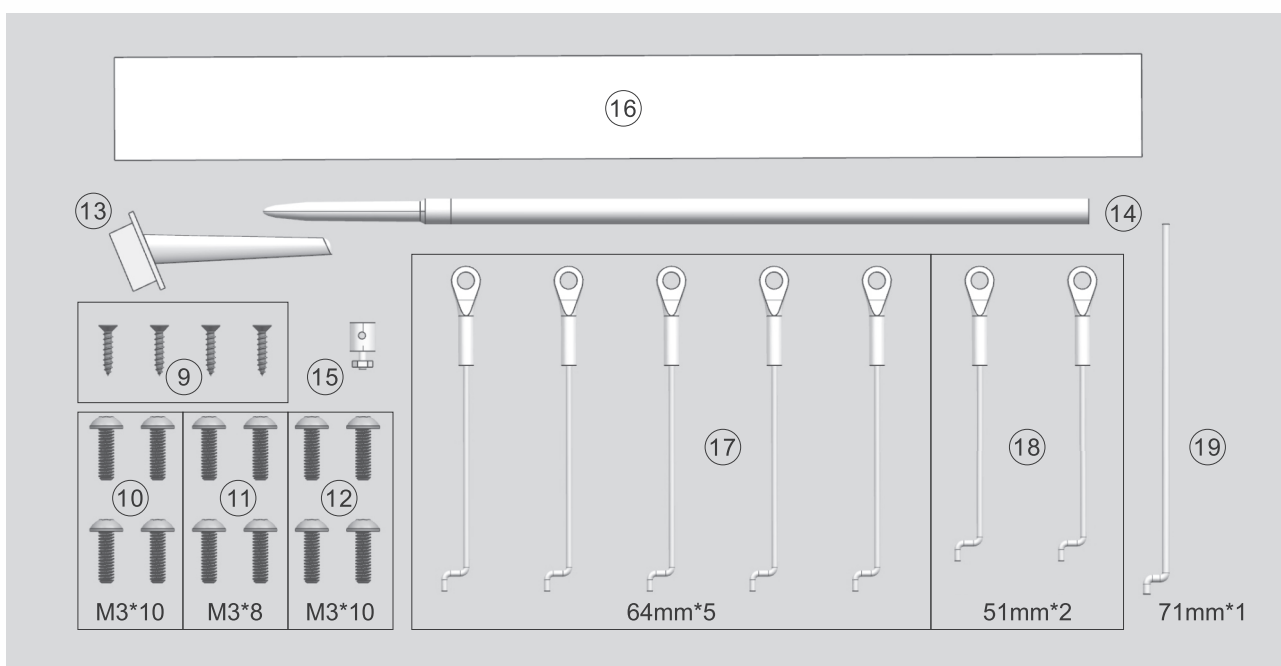
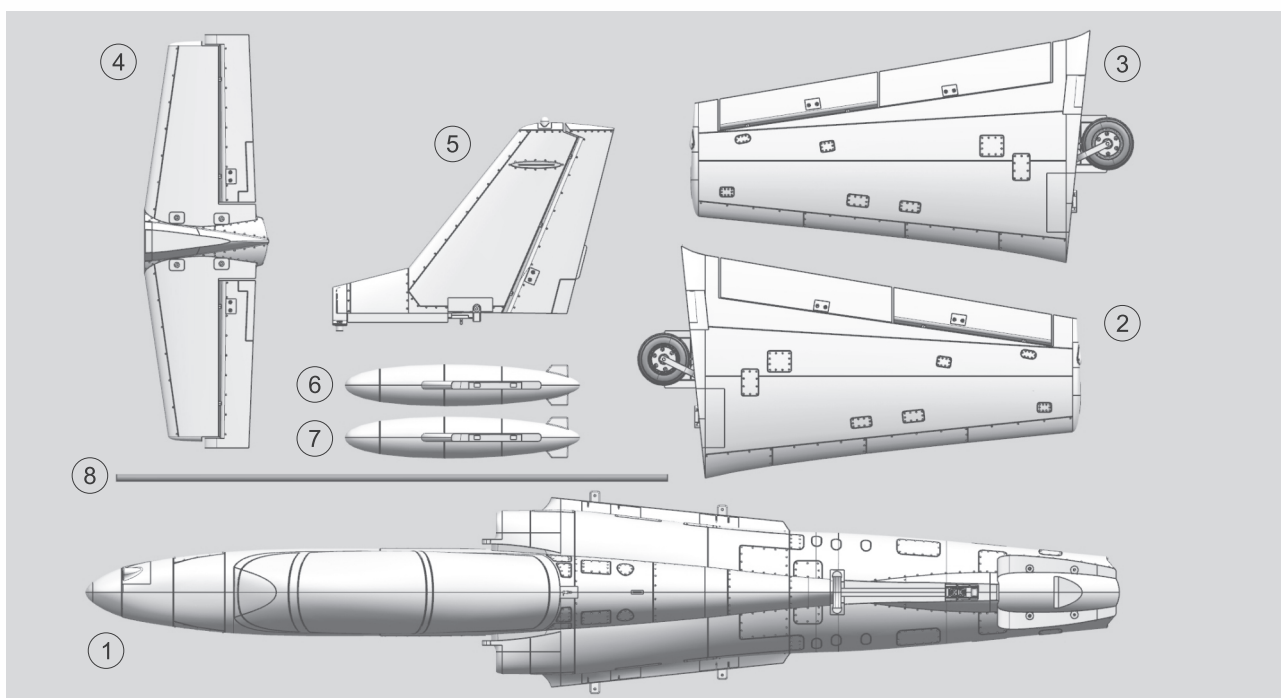
Required Equipment & Electronics	
To complete this model, the following components are required.	
Power System	80mm EDF unit (6S compatible) *1
ESC	100A Electronic Speed Controller *1
Servos	9g Micro Servos *8
Radio System	22.2V 6S 4200mAh-6000mAh LiPo
Battery	7-Channel transmitter and receiver (minimum)

Recommended Battery Setup
6S Configuration: For optimal flight times and performance, use a 4200-6000mAh 6S LiPo battery.

Product configuration		
ARF	ARF+	PNP
All-Metal Worm Gear	ARF	ARF
CNC Shock-Absorbing Retracts	9g servos*8 (pre Installed)	9g servos*8 (pre Installed)
wing LED Nav Lights		100A Electronic Speed Controller*1 (pre Installed)
Vertical tail LED Nav Lights		3665-2000KV 80mm EDF*2 (pre Installed)

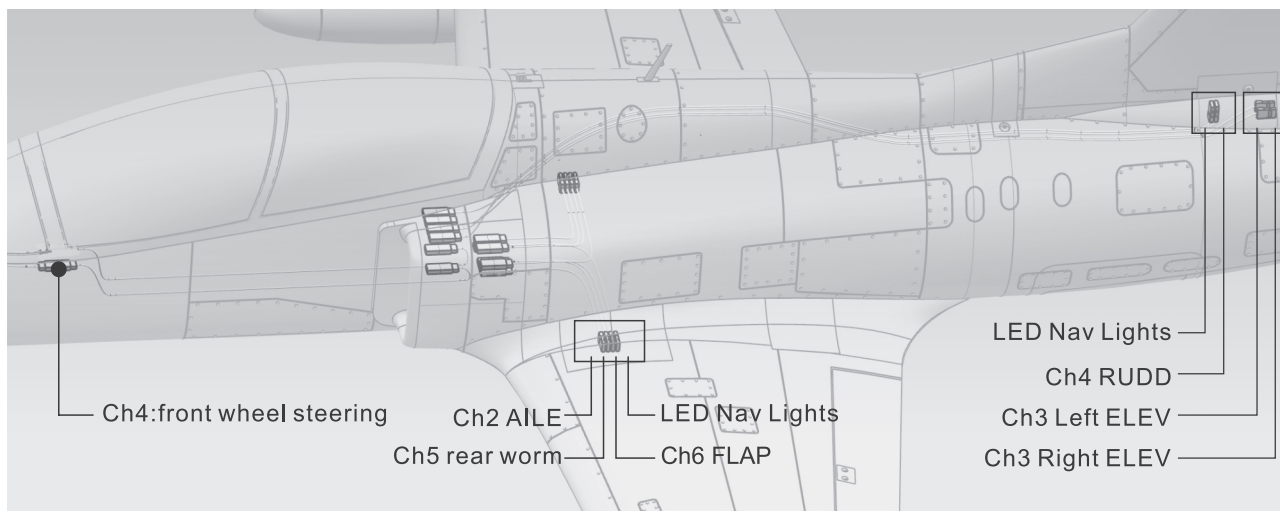
ARF (Airframe Only) Contents

- | | | |
|---------------------------------|---|--|
| 1.Fuselage (1) | 9.EDF Mounting Screws (4) | 16.Velcro/Hook-and-Loop Battery Strap (1) |
| 2.Left Main Wing (1) | 10.Wing Mounting Screws (M3x10mm) (4) | 17.64mm Pushrods (5) |
| 3.Right Main Wing (1) | 11.Vertical Fin Screws (M3x8mm) (4) | — Ailerons (2), Flaps (2), Rudder (1) |
| 4.Horizontal Stabilizer (1) | 12.Horizontal Stabilizer Screws (M3x10mm) (4) | 18.51mm Pushrods (2) |
| 5.Vertical Fin (1) | 13.Scale Detail/Trim Parts | — Elevators |
| 6.Left Wing Tank/Drop Tank (1) | 14.Pitot Tube | 19.74mm Pushrod (1) |
| 7.Right Wing Tank/Drop Tank (1) | 15.Quick-Adjust Linkage Stoppers (1) | — Nose Gear Steering |
| 8.Carbon Fiber Wing Spar (1) | | 20.Electric Metal Retracts (Pre-installed) |



Airframe Installation (ARF Version) Installing

Rudder servo cable group diagram

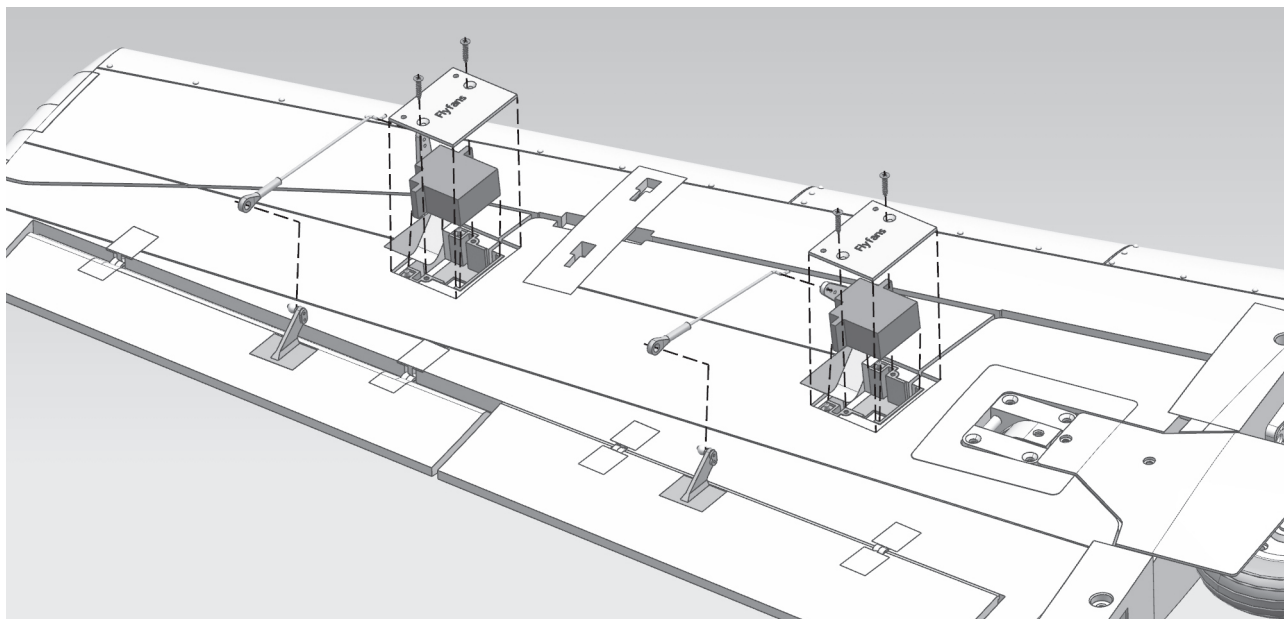


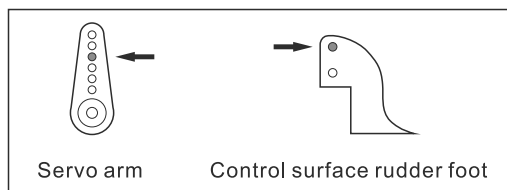
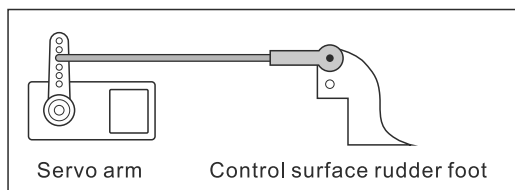
Servo specifications details

Front wheel	300mm 1 normal 9g servos
AILE	400mm 2 normal 9g servos
RUDD	130mm 1 normal 9g servos
FLAP	210mm 1 normal and 1 reverse 9g servo
ELEV	130mm 1 normal and 1 reverse 9g servo

Aileron and Flap Servo Installation

1. **Center Servos:** Power on and center the aileron and flap servos. Install the servo arms. For the **flaps**, ensure the arm is set at a **90-degree angle** at the neutral (zero) position.

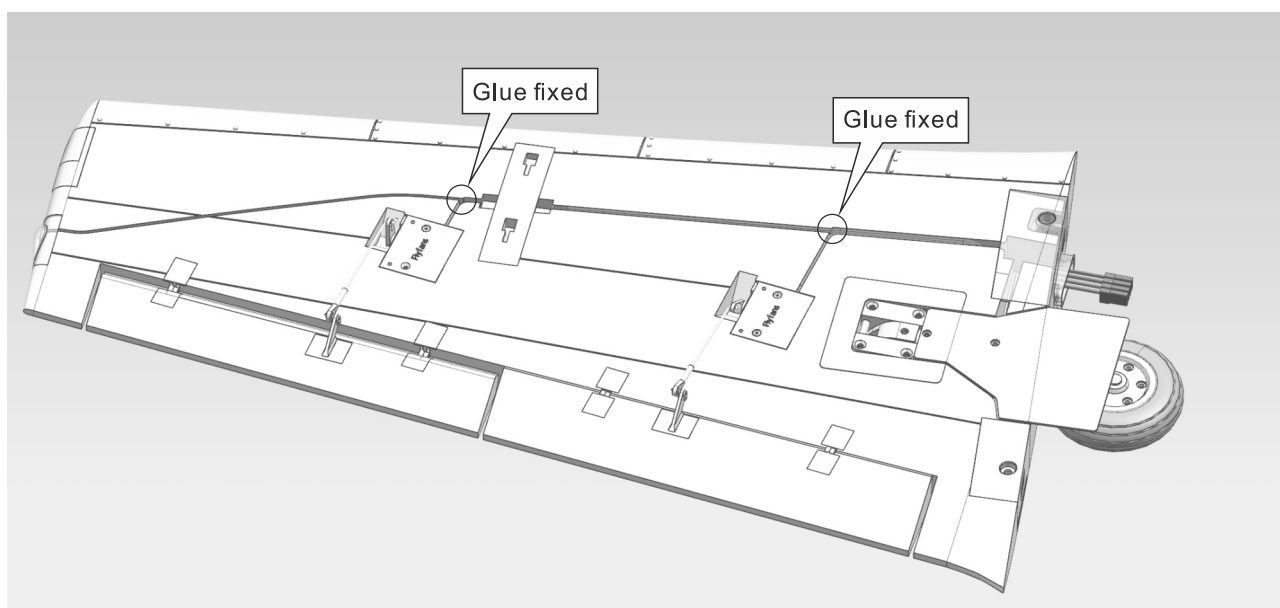




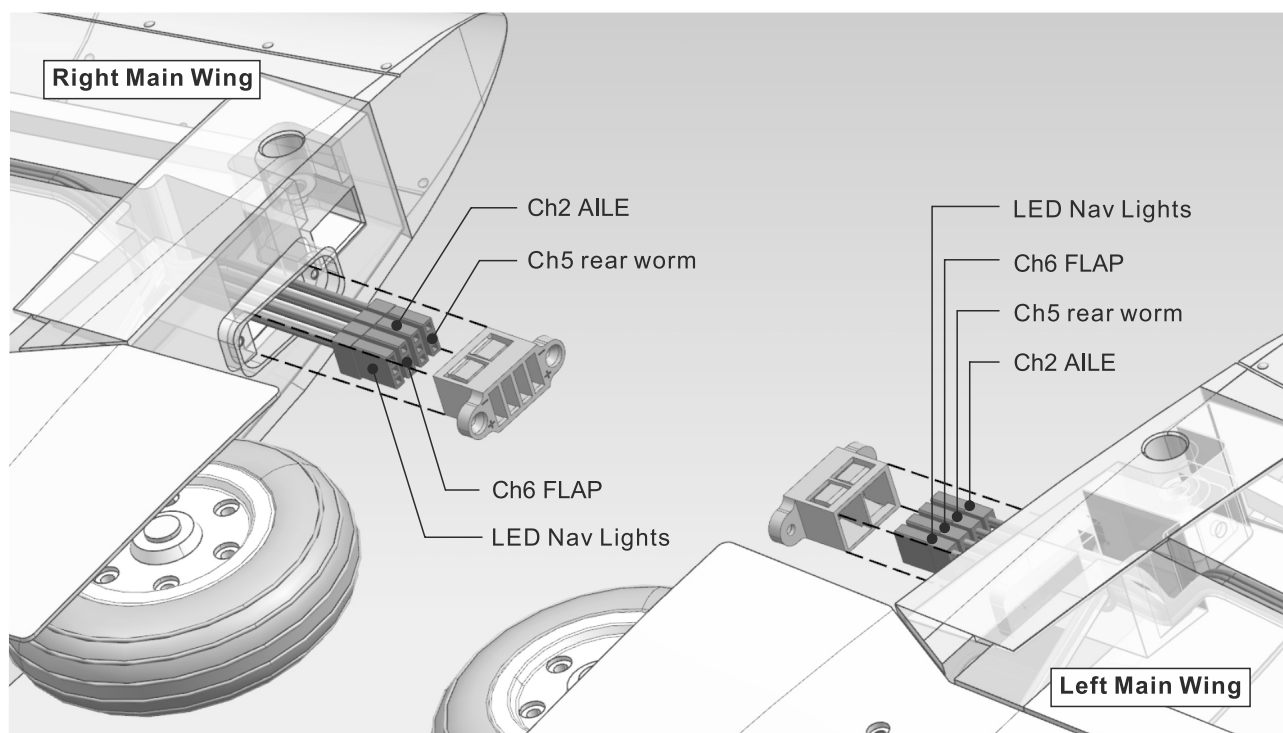
Note: It is recommended to use the **third hole from the outside** on the servo arm for both aileron and flap linkages.

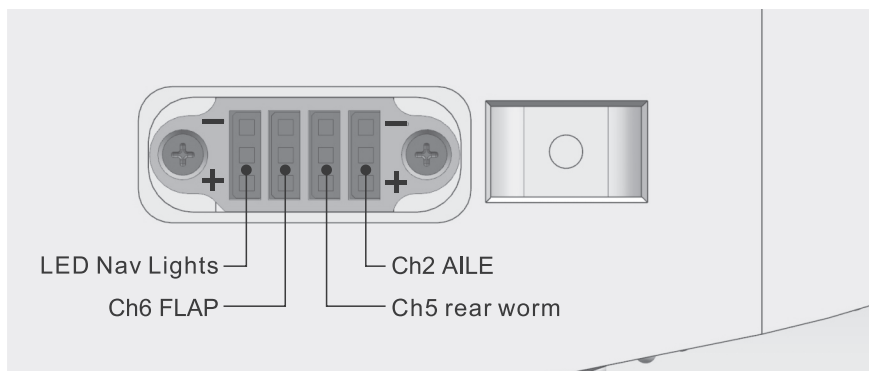
Servo Direction: Use two normal (forward) servos for the ailerons. For the flaps, use a normal servo for the left wing and a reverse servo for the right wing.

2. **Secure Wiring:** Route the servo wires into the designated channels and secure them with glue.

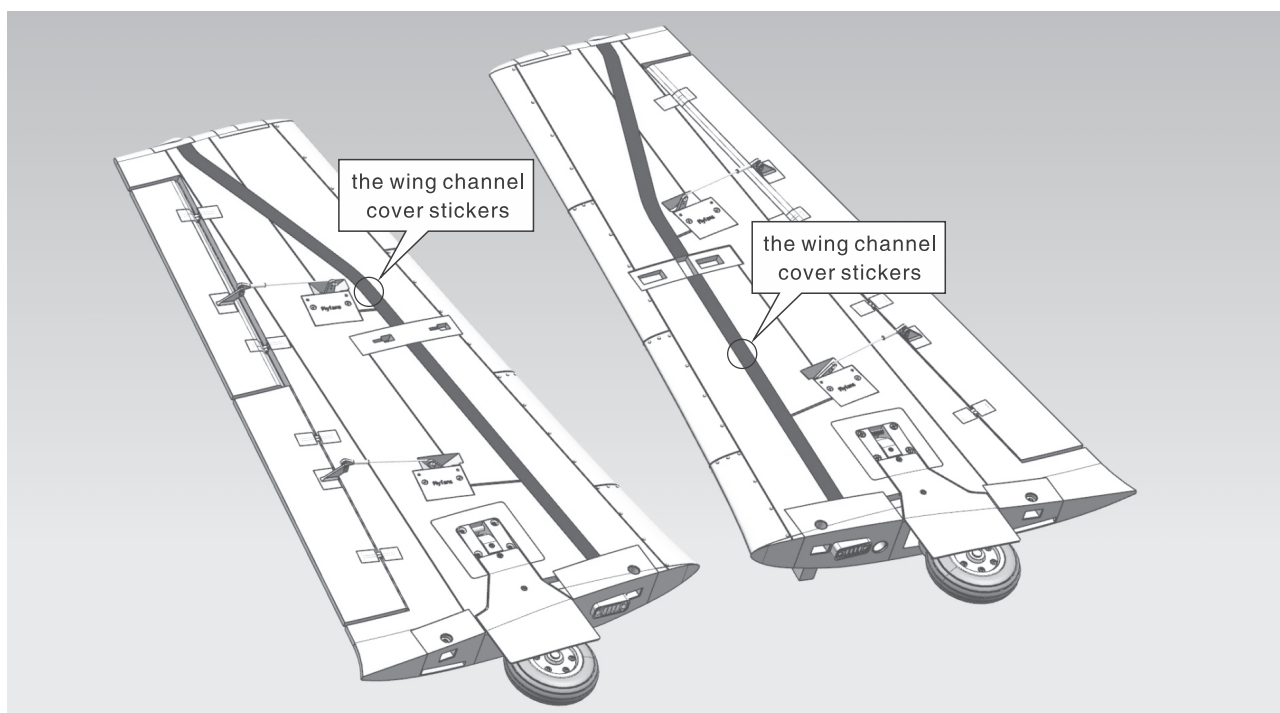


3. **Connector Assembly:** Remove the plastic quick-connect housing. Insert the servo plugs into the housing, ensuring the **positive terminals face upward**.



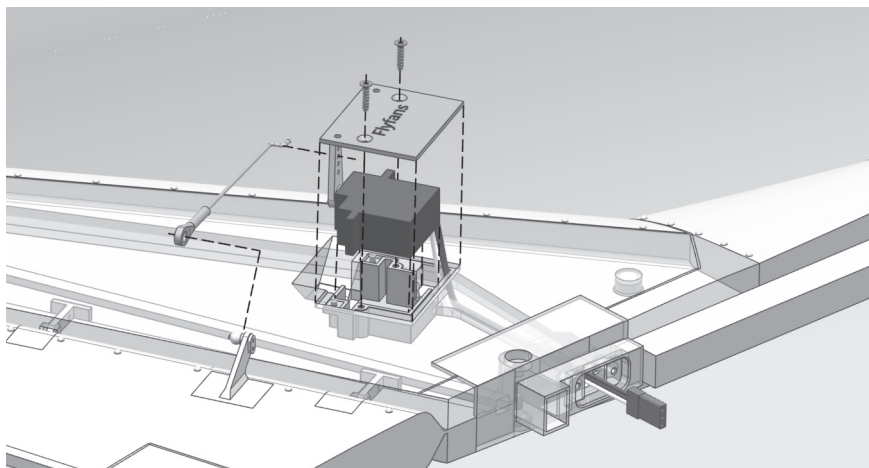


4. **Finalize Wings:** Reinstall the plastic housing into the wing. Verify the polarity of the connections once more, then apply the wing channel cover stickers. Place the wings in a clean area for final assembly.

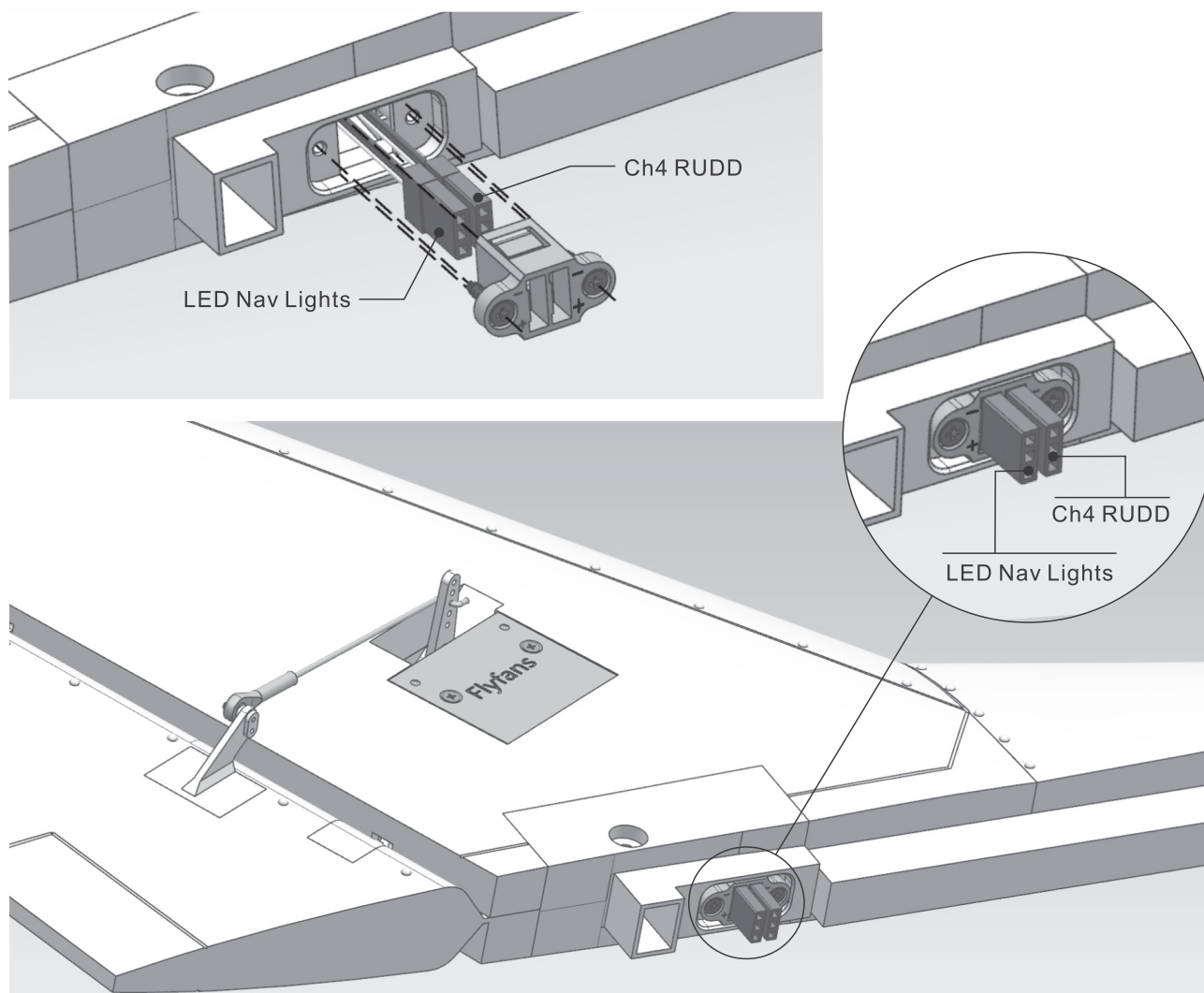


Tail Group Installation (Vertical & Horizontal Stabilizers)

5. **Vertical Fin Servo:** Center the servo and install the arm at a **90-degree angle**. Mount the servo and attach the linkage. (Uses 1x normal servo)

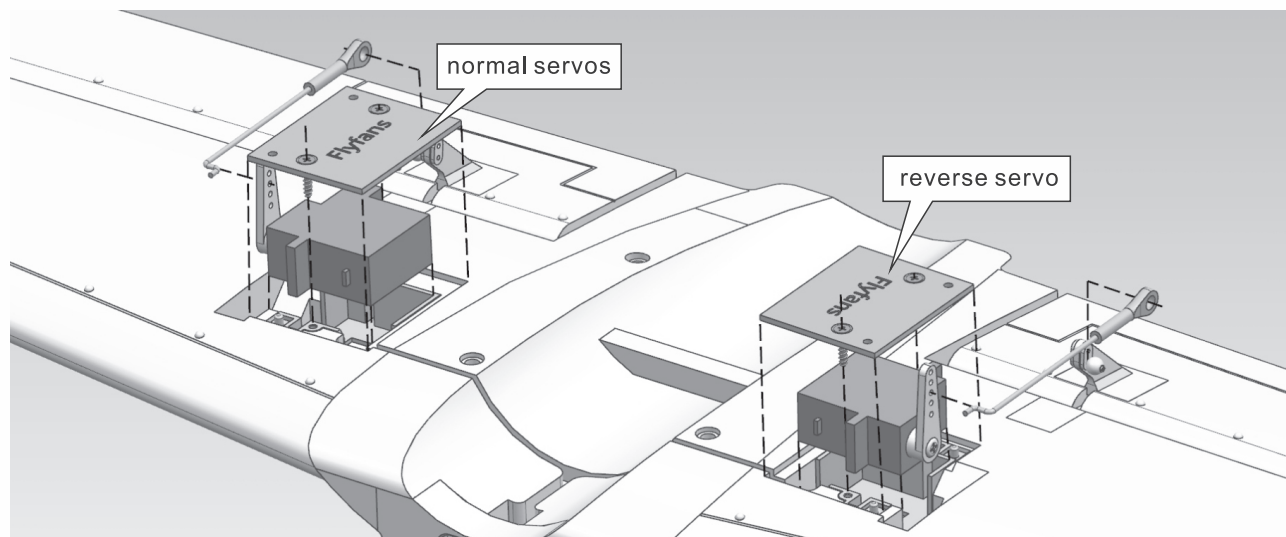


6. **Vertical Fin Connector:** Remove the quick-connect housing, insert the plug, and reinstall the housing into the fin. Double-check the polarity.

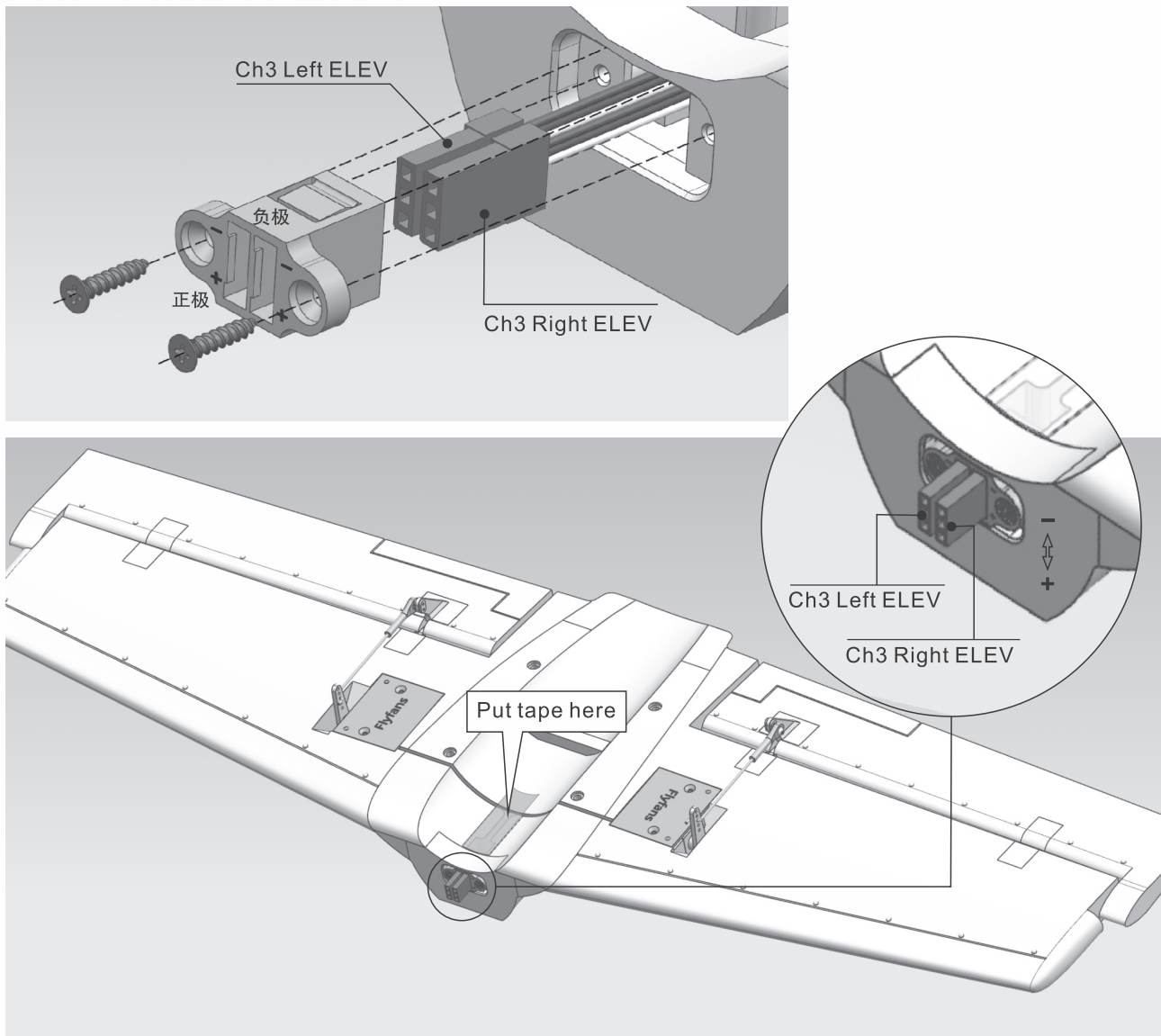


7. **Horizontal Stabilizer Servos:** Center the servos and install the arms at a **90-degree angle**. Install into the stabilizer.

• **Servo Direction:** Use a normal servo for the left side and a reverse servo for the right side.

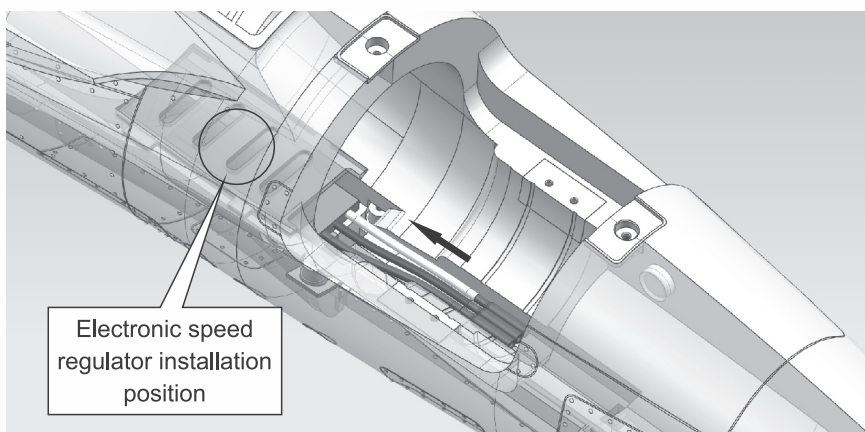


8. **Horizontal Stabilizer Connector:** Follow the quick-connect housing steps as mentioned above to finalize the stabilizer electronics.

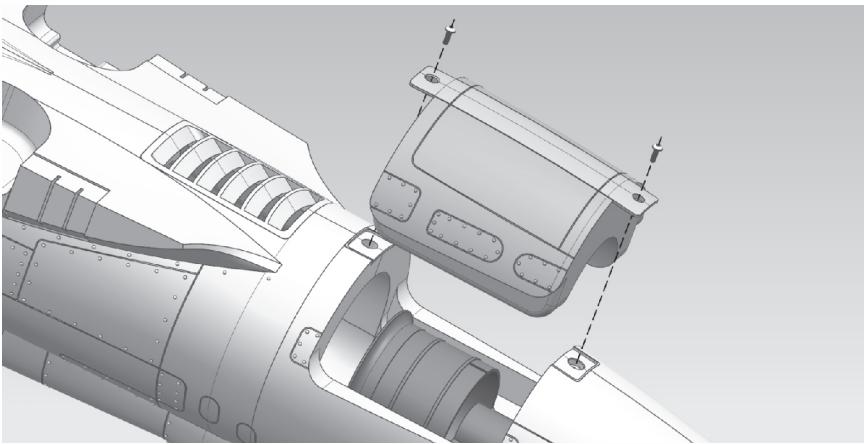
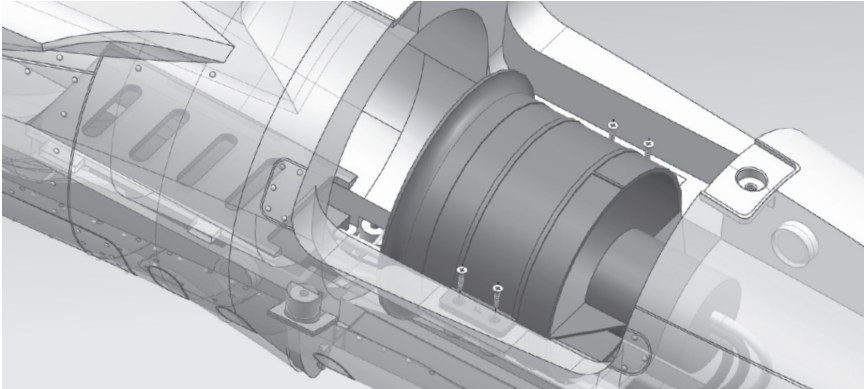


EDF, ESC, and Steering Installation

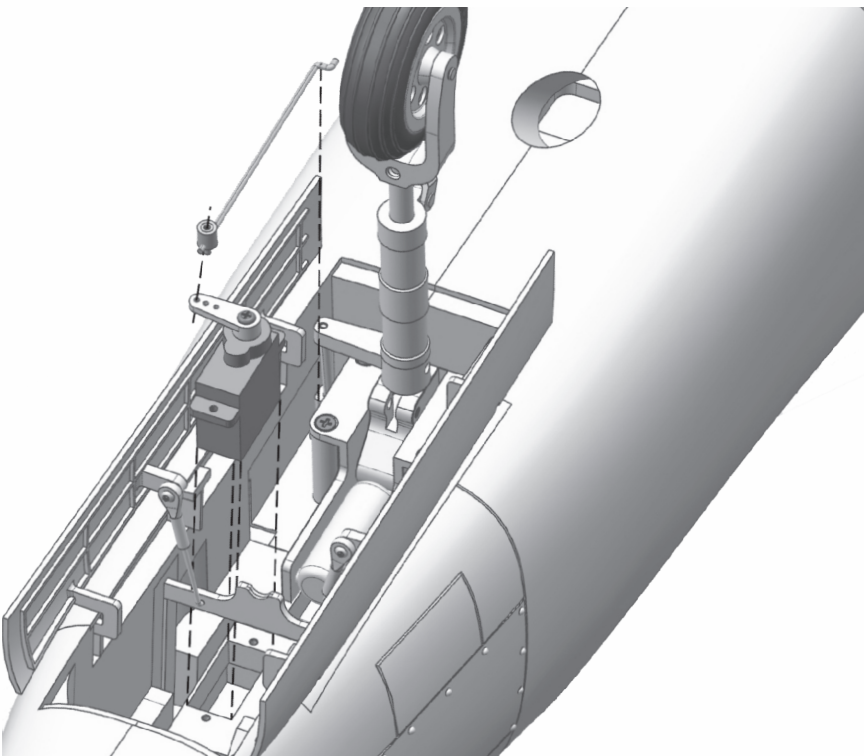
9. **ESC Setup:** Slide the Electronic Speed Controller (ESC) into its mounting slot inside the fuselage following the directional arrows.

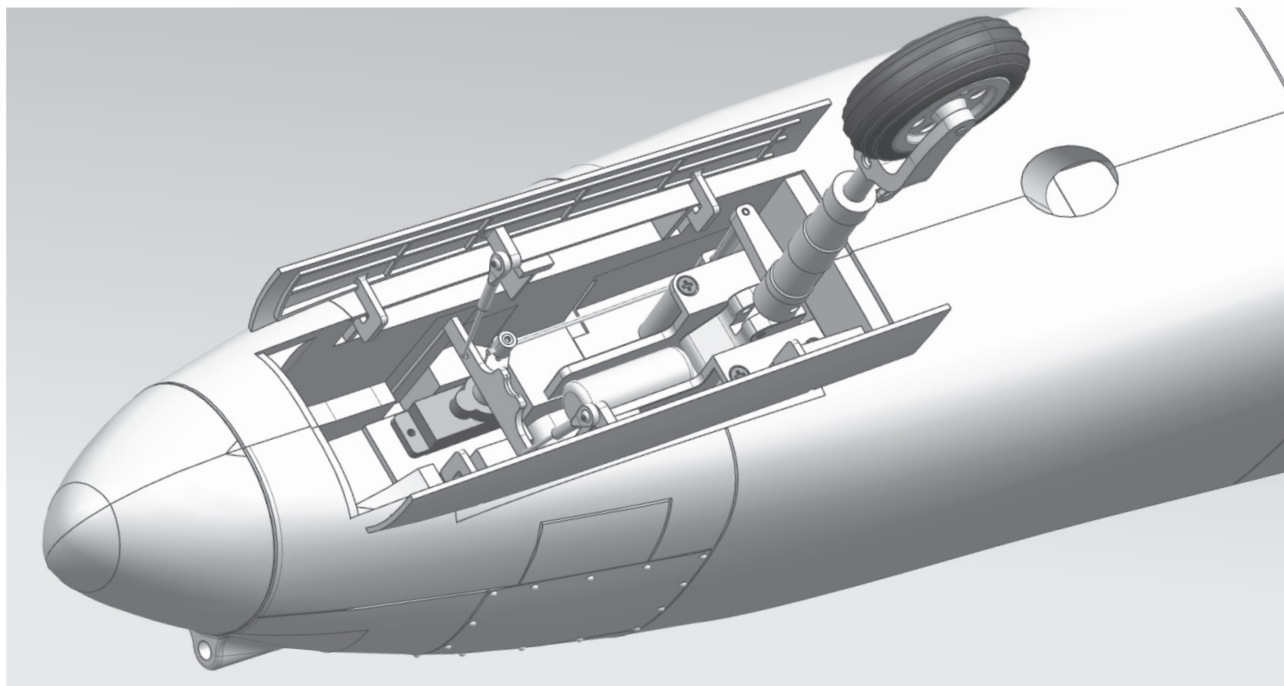


10. **EDF Installation:** Connect the EDF to the ESC. Power the system to verify the fan is spinning in the correct direction. Secure the EDF unit into the fuselage using the provided screws and reinstall the EDF hatch.



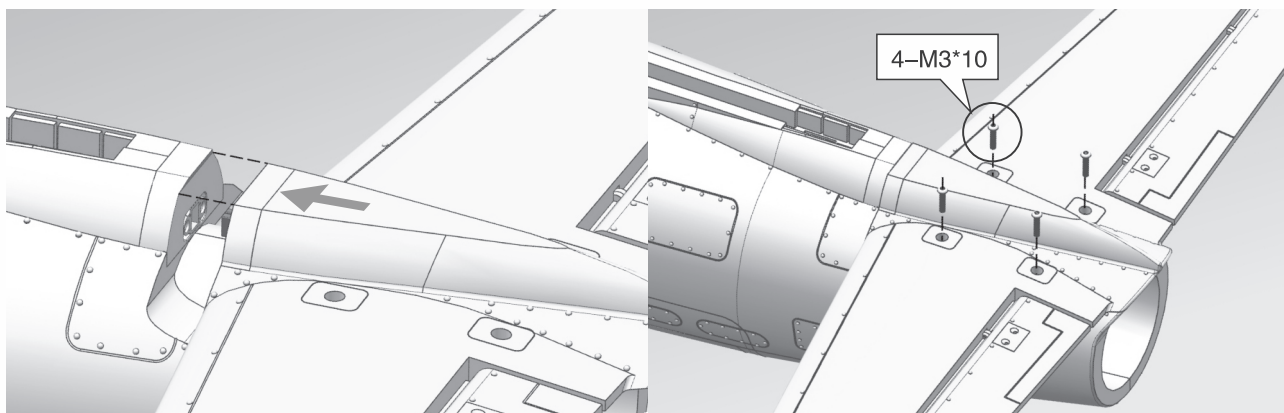
11. **Nose Gear Steering:** With the landing gear extended and the servo centered, install the servo arm at 90 degrees. Attach the quick-adjuster to the arm, mount the servo, and connect the nose wheel steering linkage. (Uses 1x normal servo).



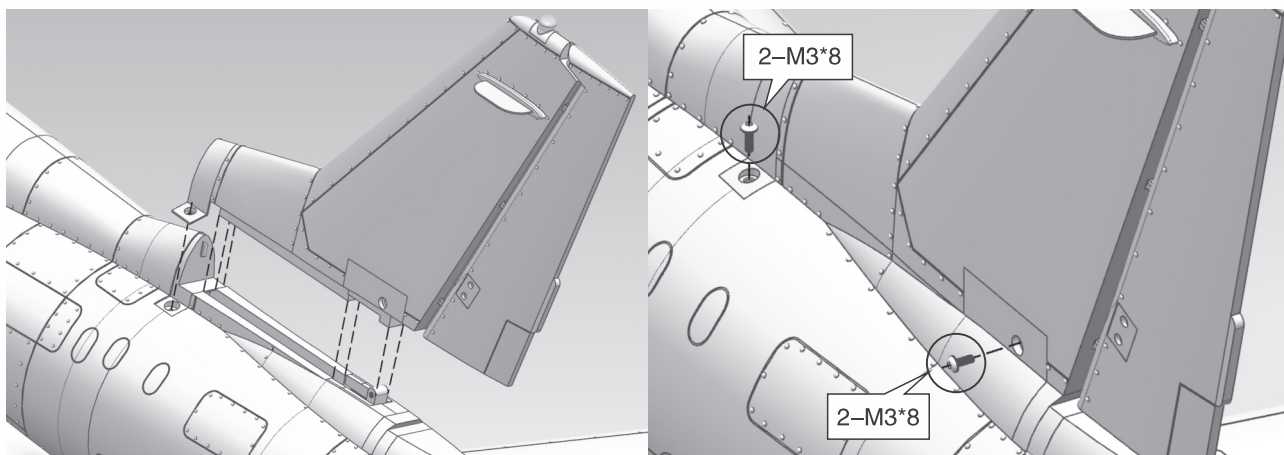


Final Aircraft Assembly

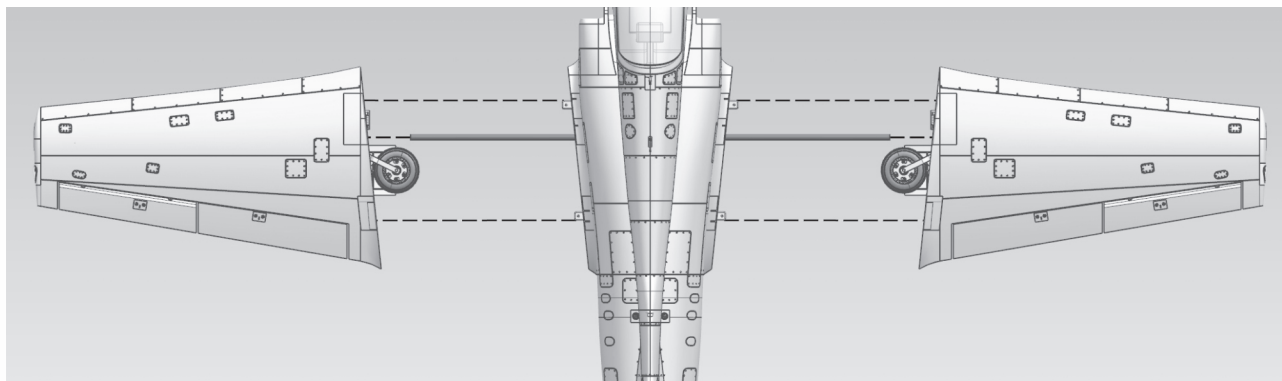
12. **Empennage:** Connect the horizontal stabilizer plugs to the fuselage leads. Secure the stabilizer using M3*10mm screws.



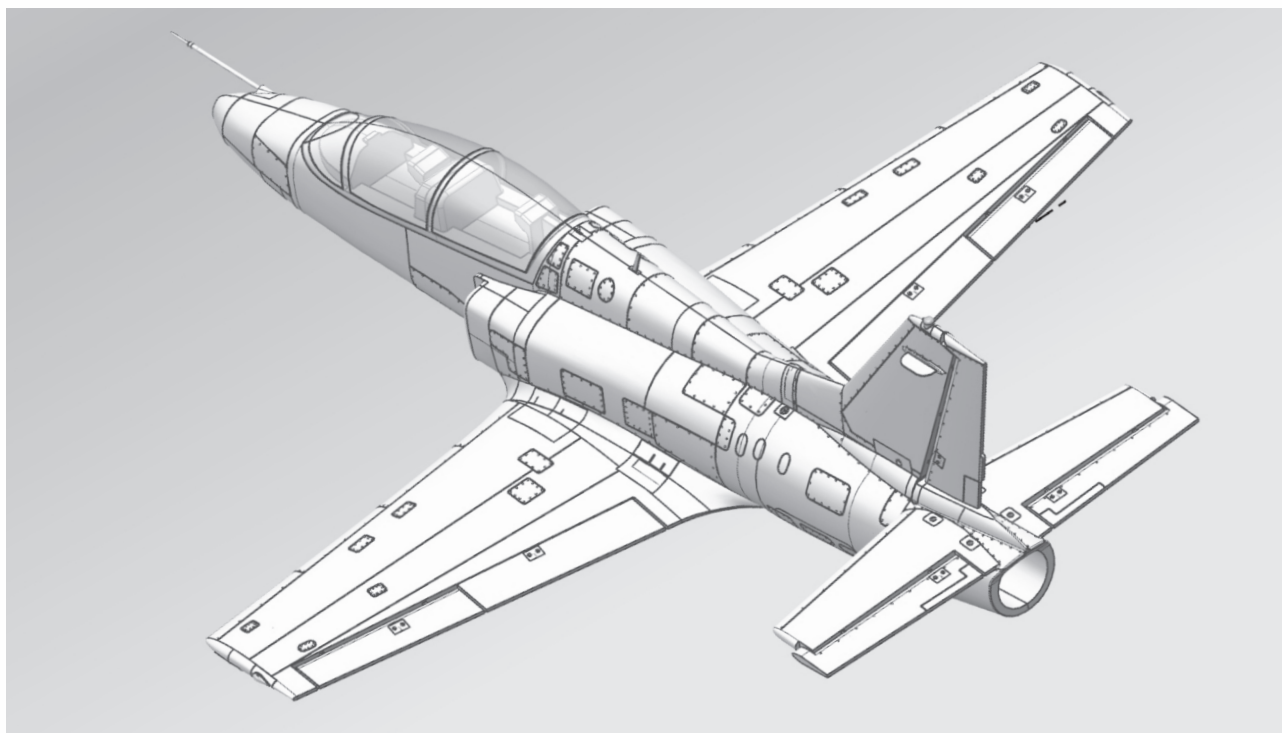
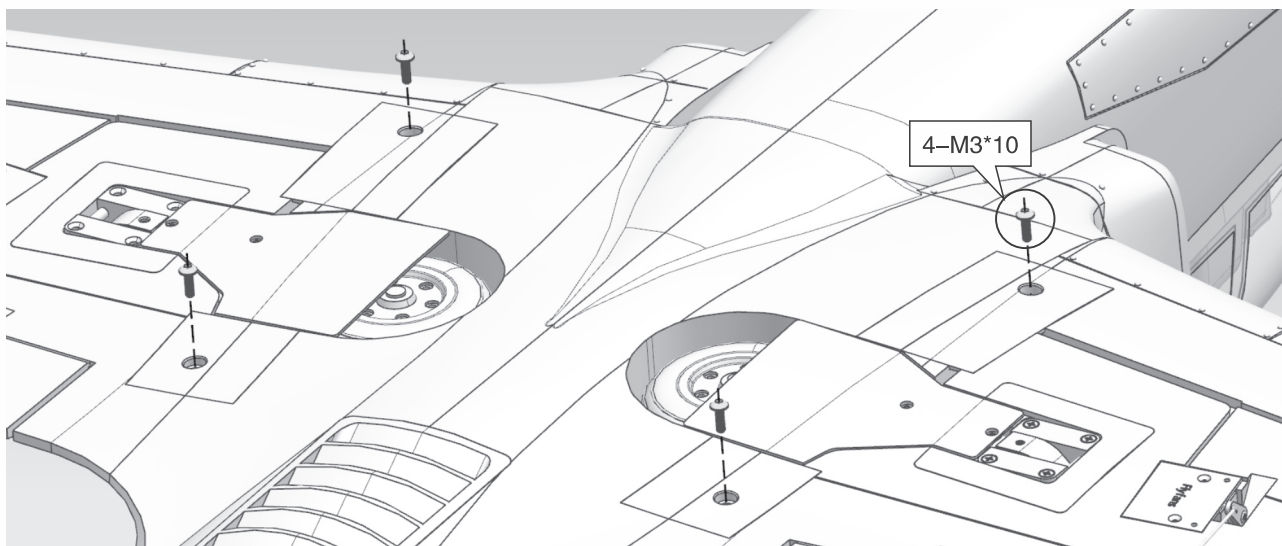
13. **Vertical Fin:** Connect the vertical fin plug and secure the fin to the fuselage using M3*8mm screws.



14. **Main Wings:** Slide the carbon fiber wing spar into the fuselage. Connect the wing plugs to the fuselage leads.

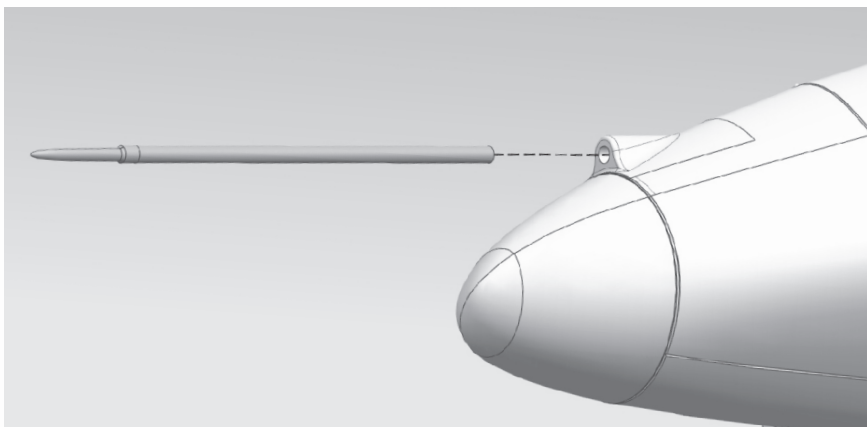


15. **System Check:** Power on the aircraft to test all control surfaces. Once verified, secure the wings with M3*10mm screws.



Scale Details and Accessories

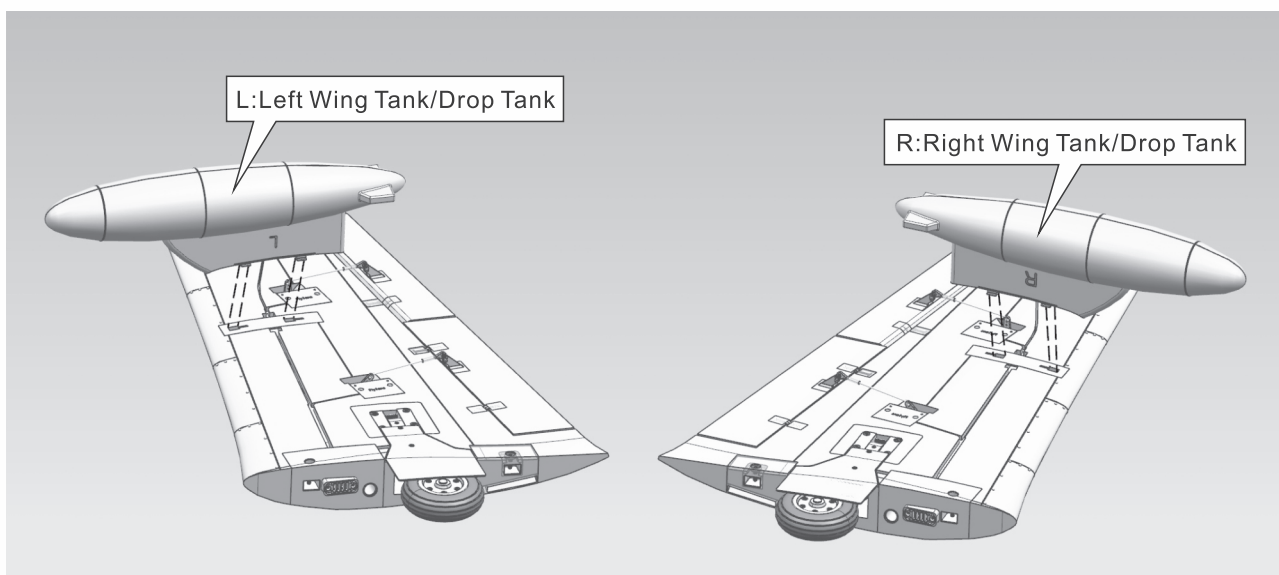
16. **Pitot Tube:** Insert the Pitot tube into the nose base.



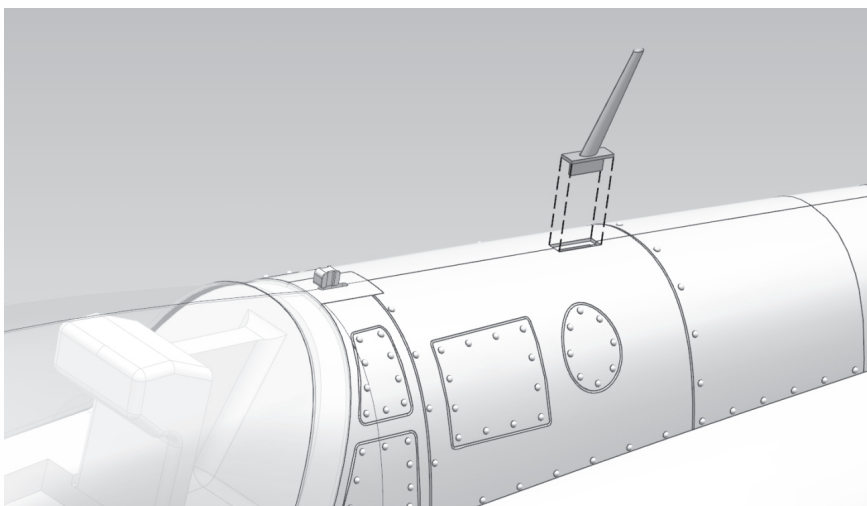
! WARNING

The Pitot tube is made of rigid material for static display only. To avoid safety hazards during flight, remove it or use extreme caution.

17. **Drop Tanks:** Align the wing tanks with the pre-molded slots on the wings and snap them into place. Ensure correct orientation (**L** for Left, **R** for Right).

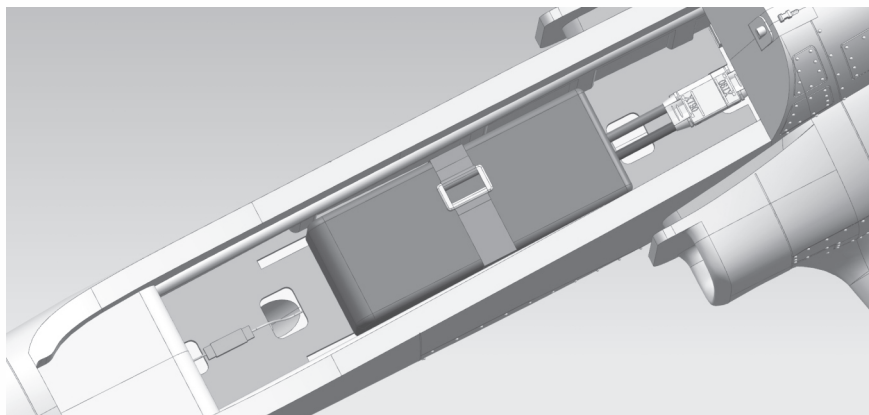


18. **Detail Parts:** Use adhesive (CA glue/502 suggested) to attach any remaining scale trim pieces to the fuselage.

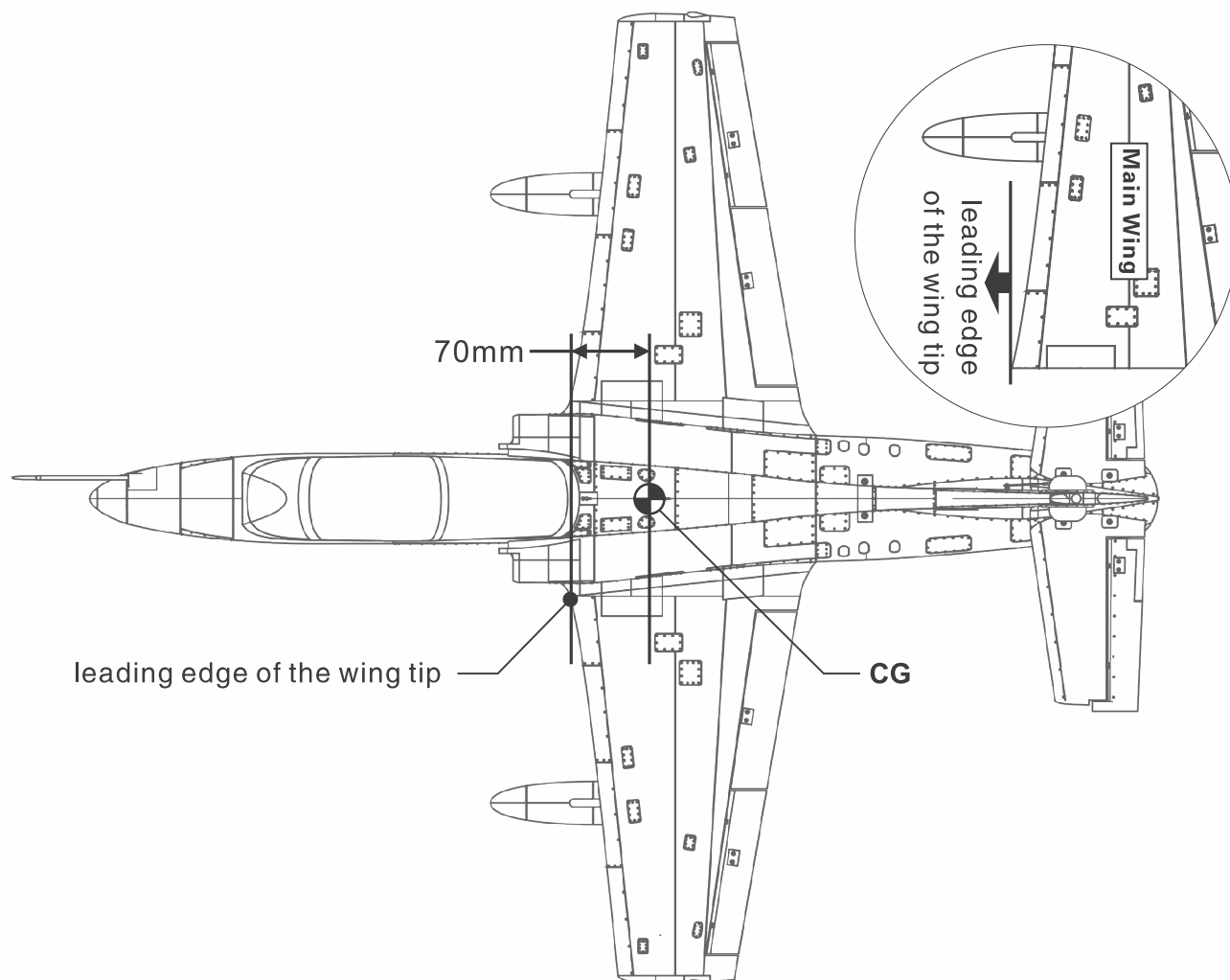


Battery, Center of Gravity (CG), and Flight Prep

19. **Battery Placement:** Ensure your transmitter is on and the throttle is at zero before connecting the battery. Secure the battery in the compartment using the hook-and-loop straps, with the power leads facing the tail.



20. **Center of Gravity:** The CG is located **70mm back** from the **leading edge of the wing tip** (Note: do not measure from the wing root). Shift the battery forward or back to achieve perfect balance.



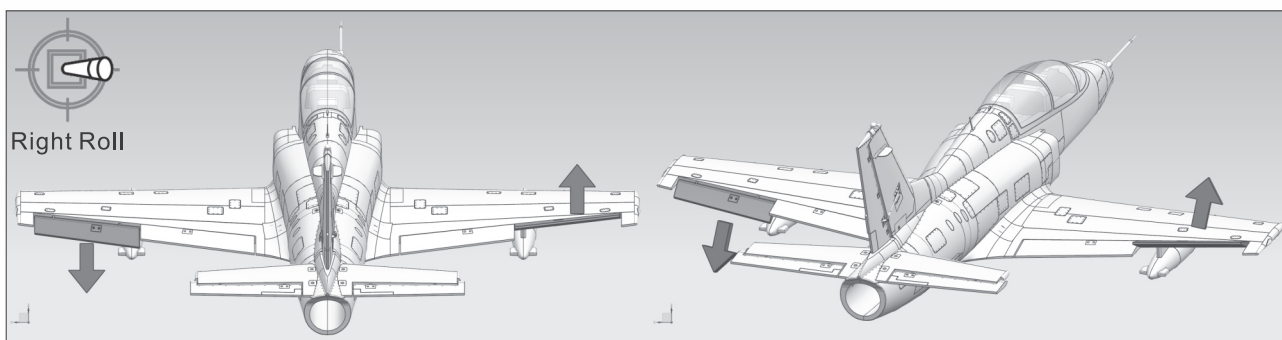
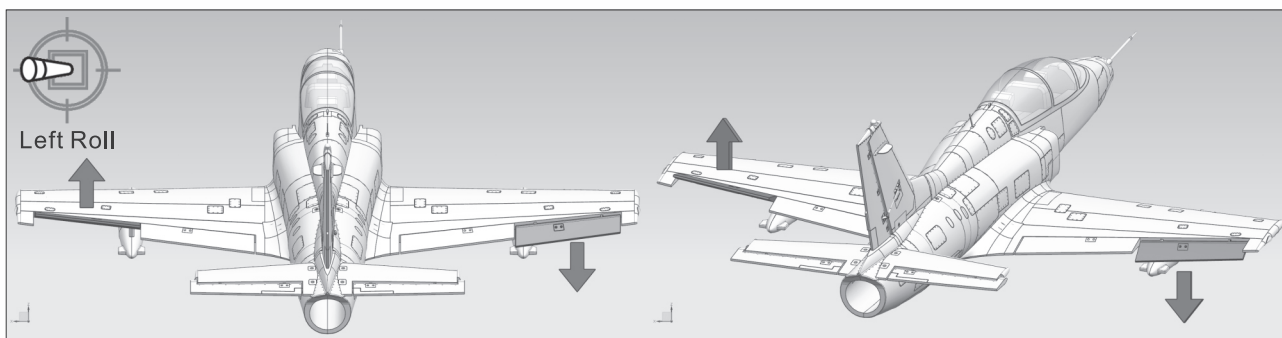
21. **Flight Tips:**

- Always fly with a slightly nose-heavy balance; **never fly tail-heavy.**
- Maintain adequate airspeed during landing to avoid stalls.
- Use conservative steering rates on the ground to prevent tip-overs during taxiing.

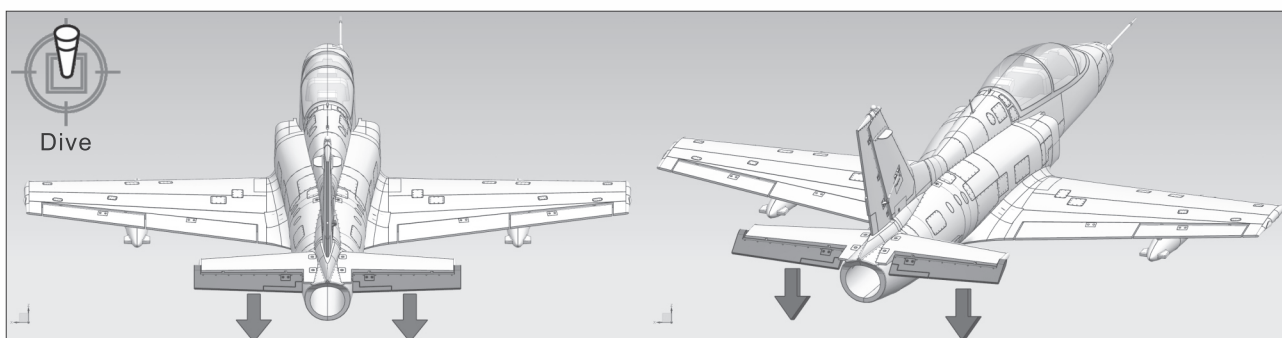
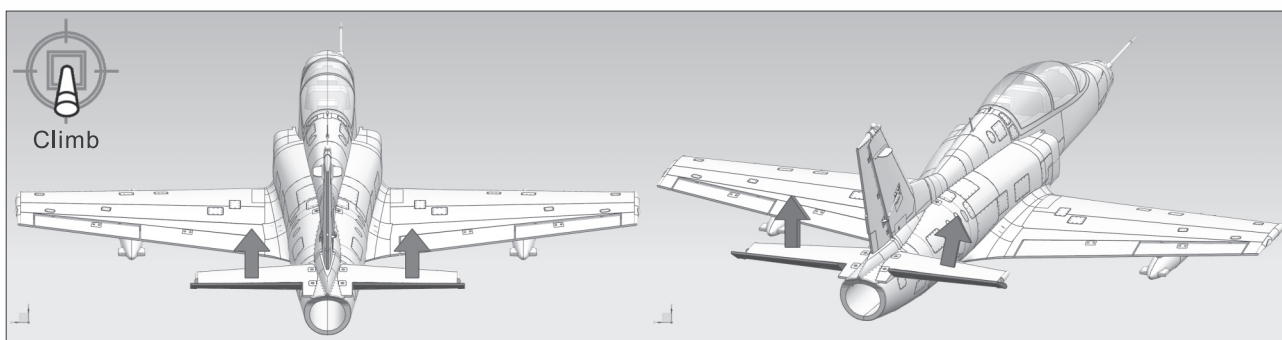
Debugging suggestions

Control Surface movement

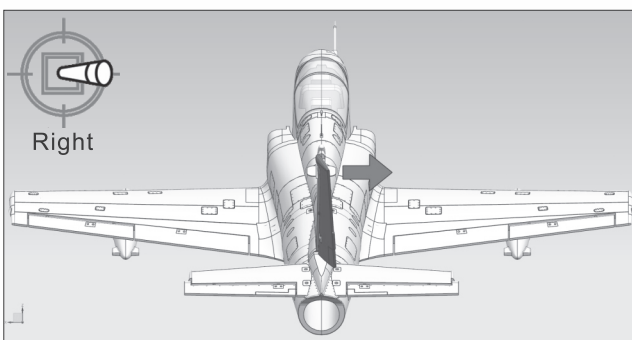
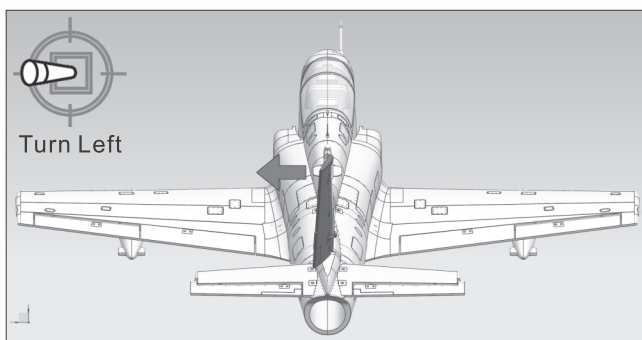
Aileron



Elevator



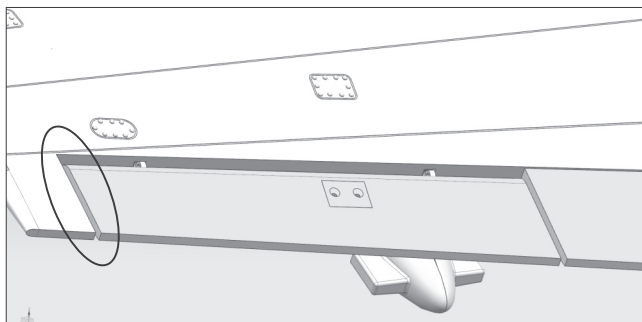
Turn Rudder



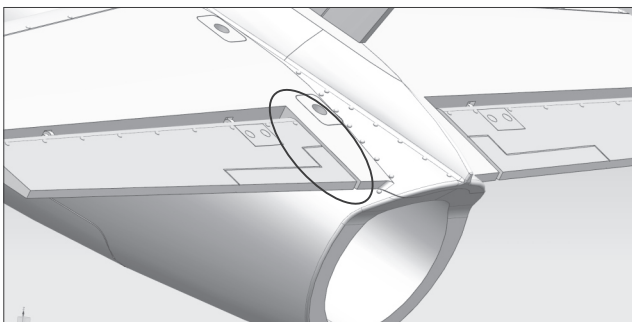
Control Surface Setup (Neutral Positioning)

- **Initial Setup:** These reference points have been flight-tested for optimal performance.
- **Ailerons & Flaps:** At neutral, these should be perfectly flush with the outer edge of the wing.
- **Horizontal Stabilizer:** The upper surface of the elevator should be flush with the fixed root of the stabilizer.

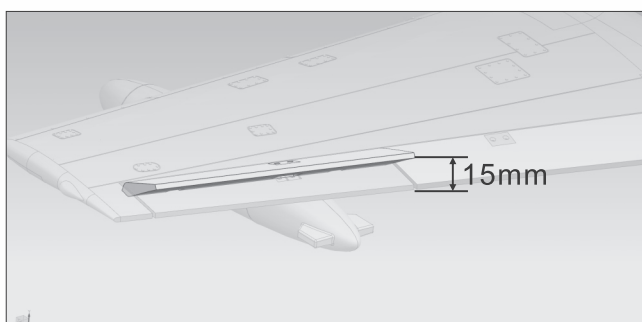
Aileron and flap initial positions



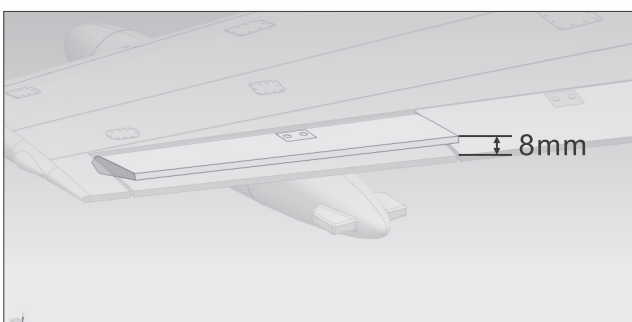
Horizontal tail initial position



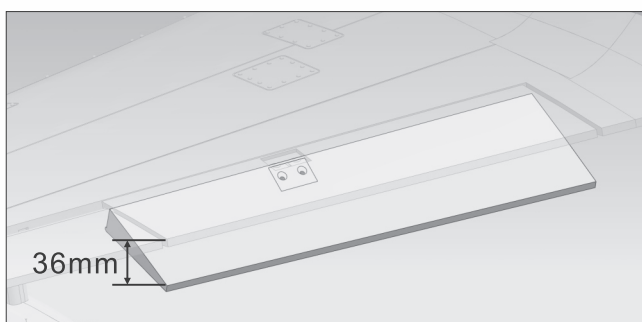
Schematic diagram of adjustable large and small rudder quantities



Ailerons large control surface



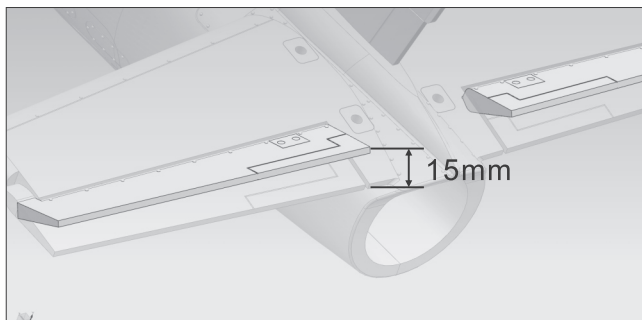
Ailerons small control surface



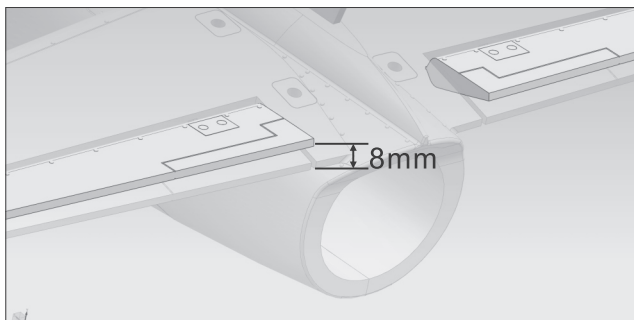
Flaps large control surface



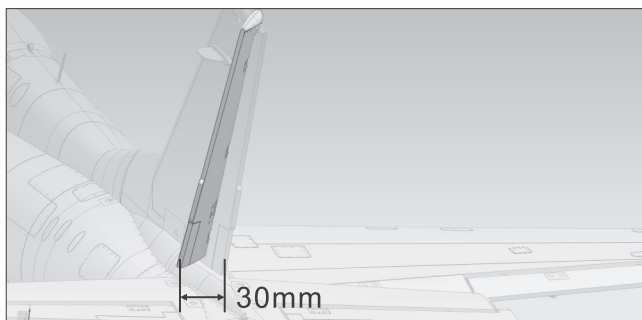
Flaps small control surface



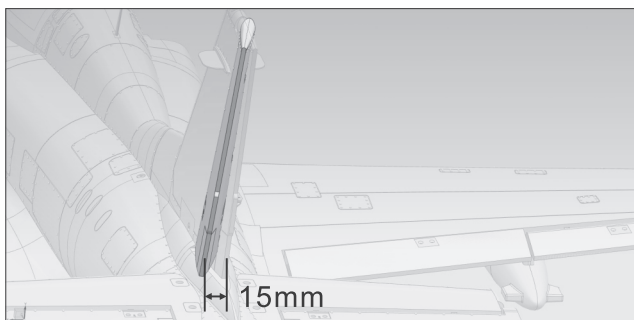
Elevator large control surface



Elevator small control surface



Rudder large control surface

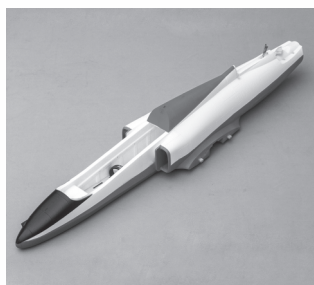


Rudder small control surface

Trouble shooting

Problems	Probable Causes	Solutions
Aircraft will not respond to the throttle but responds to other controls.	- ESC is not armed. - Throttle channel is reversed.	- Lower throttle stick and throttle trim to lowest settings. - Reverse throttle channel on transmitter
EDF noisy or vibrating excessively.	- Damage or malfunction of spinner, blades, motor, etc. - Loose motor mount or EDF installation.	- EDF has high-speed rotating components. Damage or malfunction can cause imbalance. It is not recommended for users to repair themselves; Factory repair is recommended. - Tighten screws and secure motor mount and EDFs.
Reduced Flight time or aircraft underpowered.	- Battery not fully charged - Low discharge rate - Battery malfunction	- Completely recharge battery. - Replace with high discharge battery. - Replace battery.
Control surface does not move, or is slow to respond to control inputs.	- Control surface, control horn, linkage or servo damage. - Wire damaged or connections loose.	- Replace or repair damaged parts and adjust controls. - Do a check of connections for loose wiring.
Controls reversed.	Channels are reversed in the transmitter	Do the control direction test and adjust controls for aircraft and transmitter.
Sudden power reduction during Flight.	- ESC enters low-voltage protection mode. - Motor or battery malfunction. - ESC enters overheat protection mode.	- Immediately land and check battery voltage. - Check components such as battery, transmitter, receiver, ESC, motor for faults. - If the ESC temperature is too high due to high environment temperature or prolonged continuous Flight, allow it to cool down.
Receiver LED blinking slowly.	Power loss to receiver.	- Check connection from ESC to receiver. - Check servos for damage. - Check linkages for binding

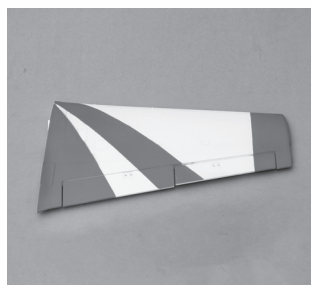
80mm EDF K-8 Airframe Components



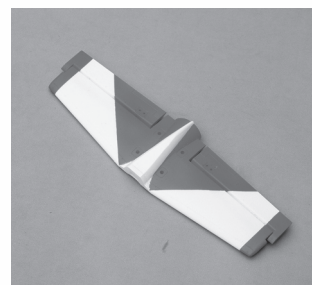
NO.80MM-K8-01
Main Fuselage



NO.80MM-K8-02
Left Main Wing



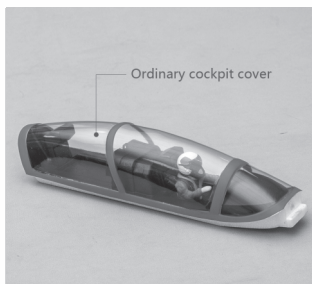
NO.80MM-K8-03
Right Main Wing



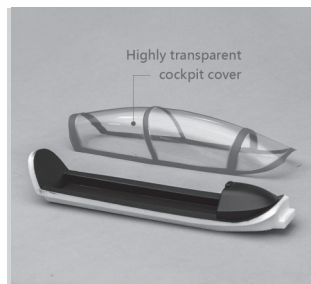
NO.80MM-K8-04
Horizontal Stabilizer



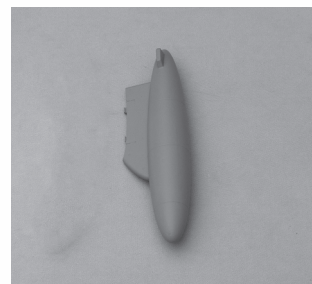
NO.80MM-K8-05
Vertical Fin



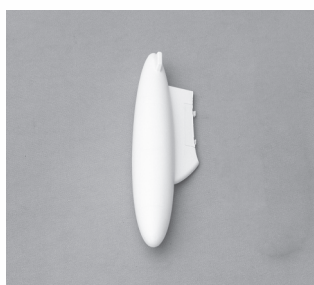
NO.80MM-K8-06
Cockpit Canopy



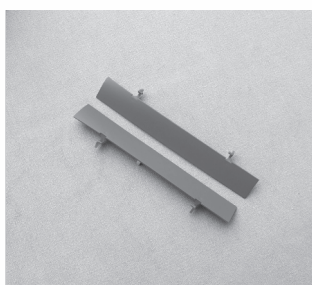
NO.80MM-K8-07
FPV Cockpit



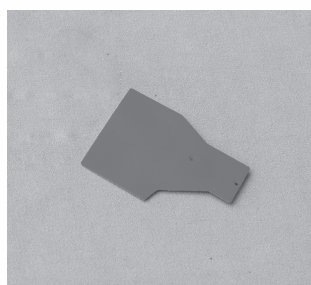
NO.80MM-K8-09
Left Drop Tank (Wing Tank)



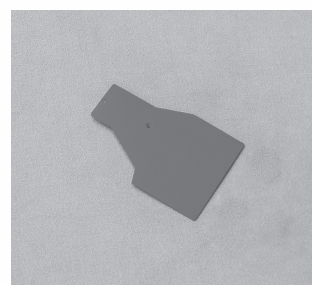
NO.80MM-K8-08
Right Drop Tank (Wing Tank)



NO.80MM-K8-19
Nose Landing Gear Door



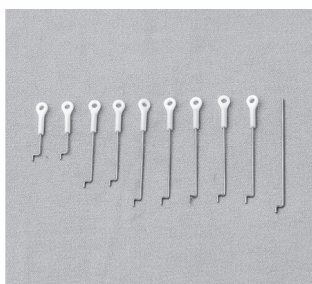
NO.80MM-K8-12
Left Main Landing Gear Door



NO.80MM-K8-13
Right Main Landing Gear Door



NO.80MM-K8-14
Carbon Fiber Wing Spar



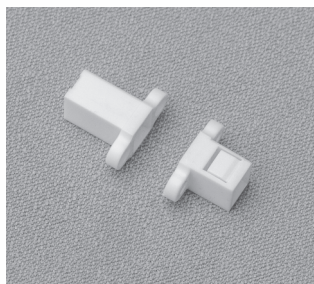
NO.80MM-K8-10
Pushrod Set



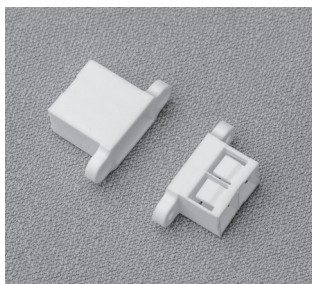
NO.80MM-K8-15
Pitot Tube



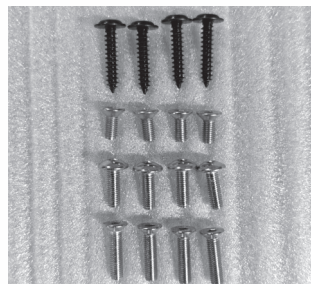
NO.80MM-K8-16
Scale Detail / Trim Parts



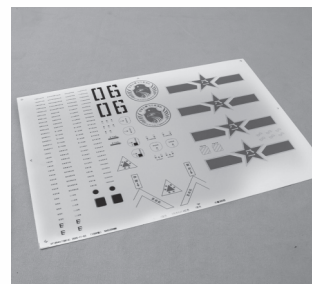
NO.80MM-K8-17
Quick Connector - 2-Pin



NO.80MM-K8-18
Quick Connector - 4-Pin



NO.80MM-K8-11
Screw Set



NO.80MM-K8-26
Decal Set

80mm EDF K-8 Metal & Electronics Components



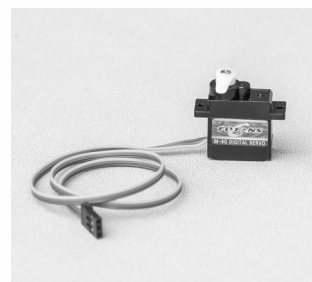
NO.FF-DF80 / KV2000
80mm EDF Unit(3665-2000KV Motor)



NO.FFESC100A
100A Electronic Speed Controller(ESC)



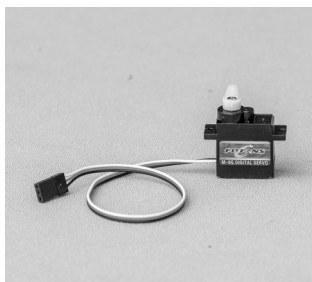
NO.FF09MGP300-F
Nose Wheel Steering Servo(300mm lead, standard 9g)



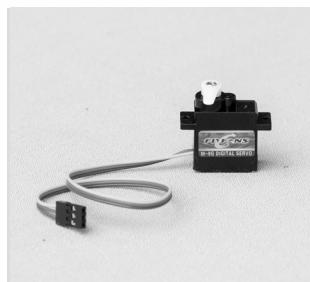
NO.FF09MGP400-F
Aileron Servo(400mm lead, standard 9g)



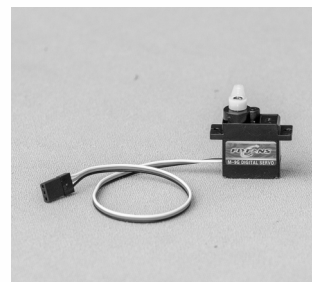
NO.FF09MGP210-F
Flap Servo-Normal Direction(210mm lead, standard 9g)



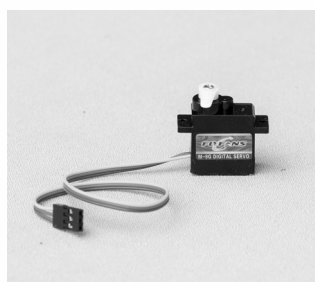
NO.FF09MGP210-R
Flap Servo-Reverse Direction(210mm lead, standard 9g)



NO.FF09MGP130-F
Horizontal Stabilizer Servo-Normal(130mm lead, 9g)



NO.FF09MGP130-R
Horizontal Stabilizer Servo-Reverse(130mm lead, 9g)



NO.FF09MGP130-F
Vertical Fin Servo(130mm lead, standard 9g)



NO.80MM-K8-22
Nose Landing Gear Assembly with Steering Arm



NO.80MM-K8-23
Left Main Landing Gear



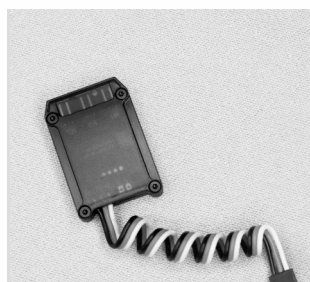
NO.80MM-K8-24
Right Main Landing Gear



NO.80MM-K8-20
Nose Landing Gear Worm Gear(All-Metal, 490mm, 40g)



NO.80MM-K8-21
Main Landing Gear Worm Gear(All-Metal, 120mm, 40g)



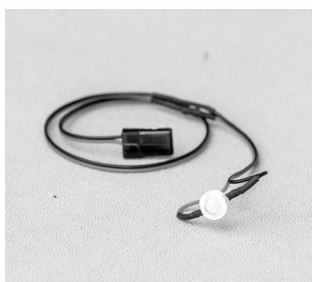
NO.80MM-K8-25
Landing Gear Controller



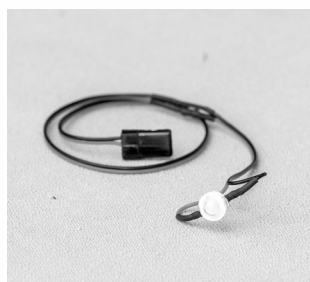
NO.FF-DF80
80mm ducted fan 12-blade w/o motor



NO.FFKV2000
3665-2000KV motor



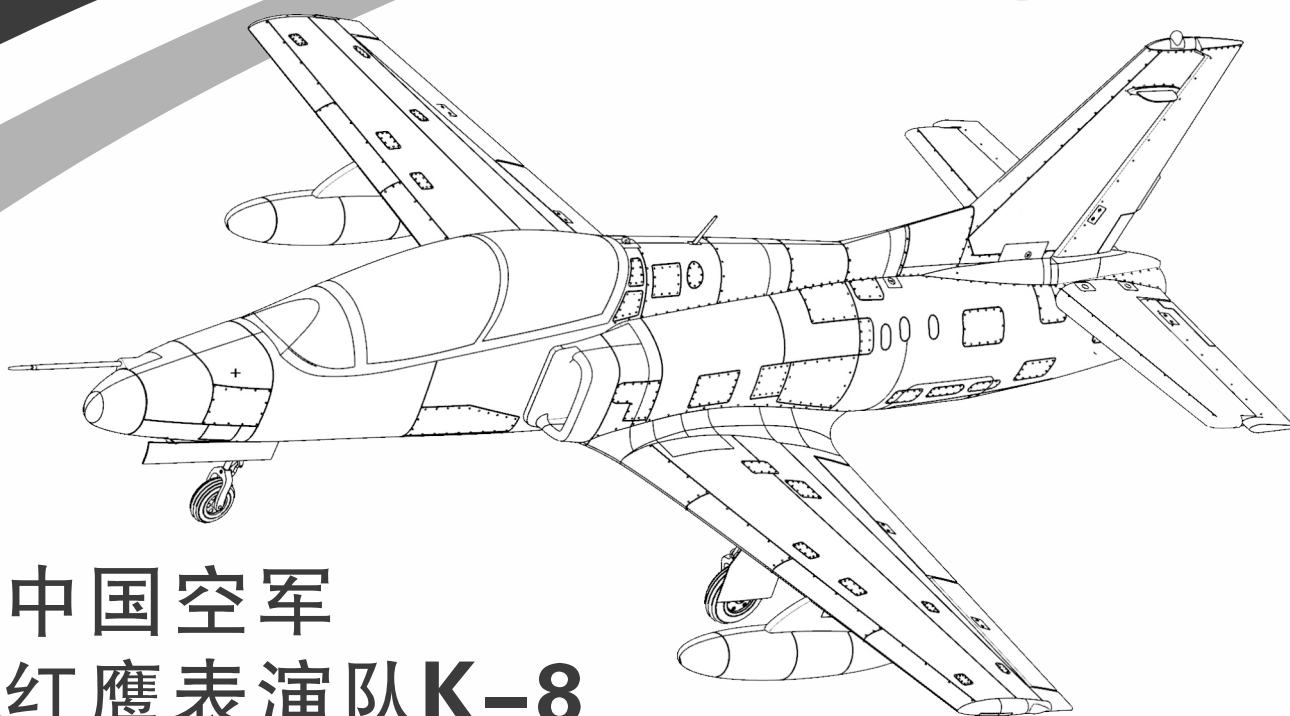
NO.FF-LED-R
LED Navigation Light-Red



NO.FF-LED-G
LED Navigation Light-Green



NO.FF-LED-W
LED Navigation Light-White



中国空军 红鹰表演队K-8

80mm涵道/全金属蜗杆/CNC金属减震收放起落架/LED航灯

基本参数

翼展	1265mm
机长	1390mm (不含空速管)
空机重量	2070g (ARF)
起飞重量	3365g (电池:5200mah)
翼载荷	92g/dm ²

设备要求

电机/涵道	80mm (6S) *1
电调	100A*1
舵机	9克舵机*8
电池	4200~6000mah 6S电池
遥控	7通道以上

电池建议

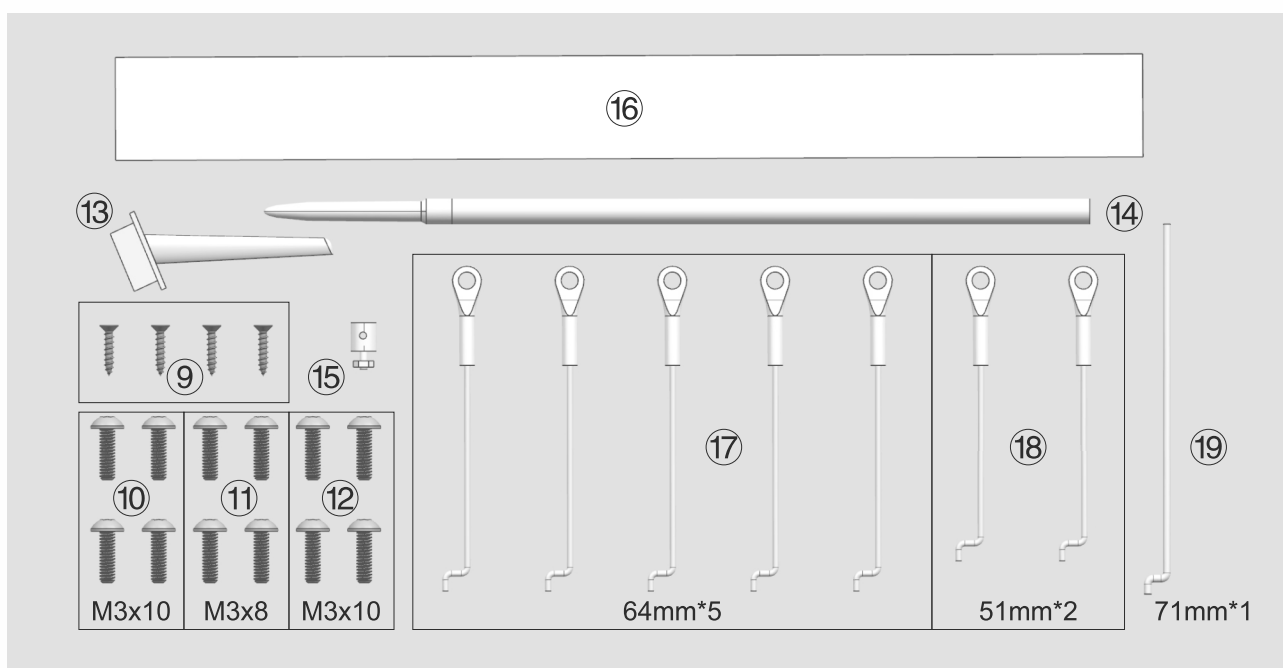
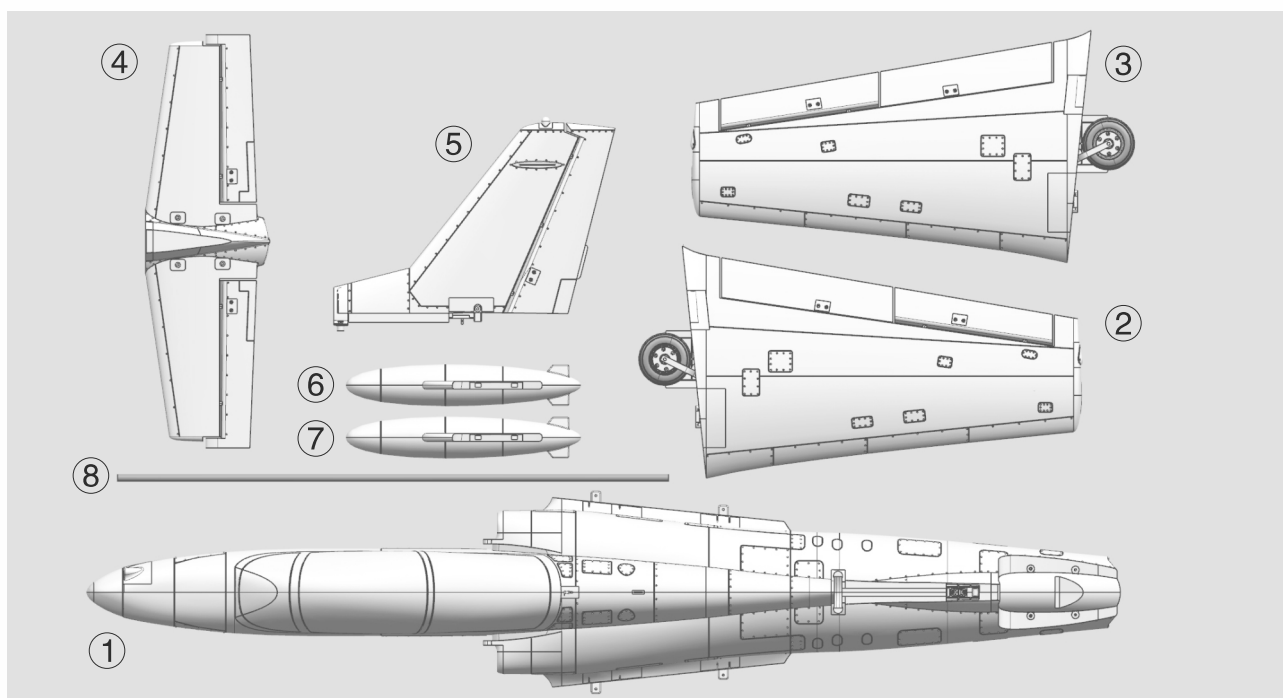
6S版本: 4200~6000mah 6S电池

基本参数

空机版 (ARF)	空舵版 (ARF+)	PNP版
标配全金属蜗杆	空机 (ARF)	空机 (ARF)
CNC金属减震起落架	9g舵机*8 (安装好)	9g舵机*8
机翼航灯		100A电调*1
垂尾航灯		3665~2000KV 80mm 12叶涵道*1 (安装好)

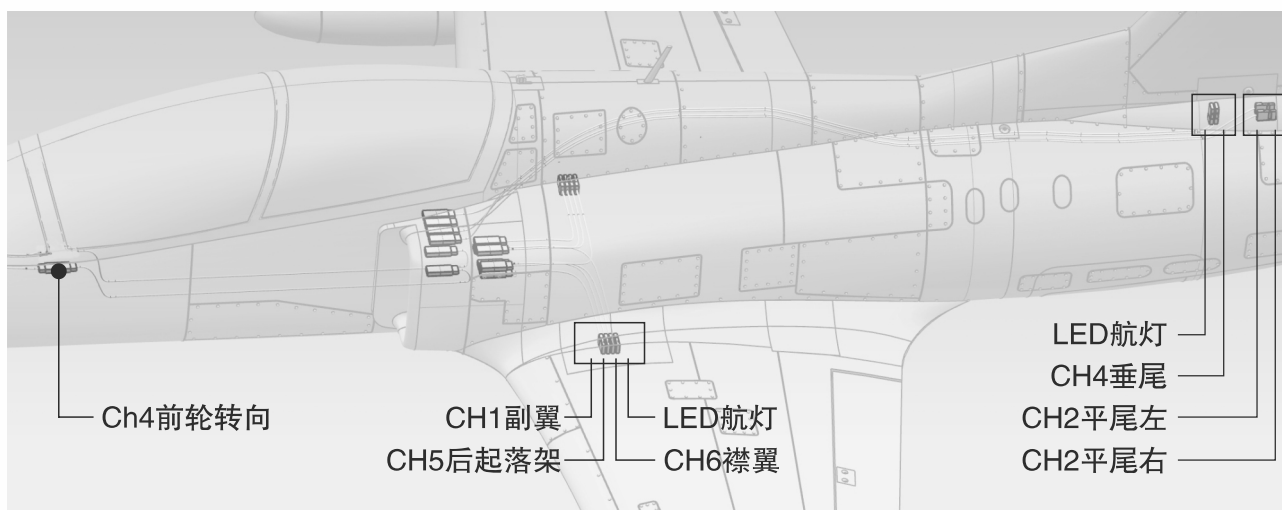
空机零件清单 (ARF)

- | | | |
|---------|----------------|---------------------|
| 1、主机身*1 | 8、机翼碳杆*1 | 15、快速调节器*1 |
| 2、左机翼*1 | 9、涵道螺丝*4 | 16、魔术贴*1 |
| 3、右机翼*1 | 10、机翼螺丝M3x10*4 | 17、拉杆：64mm*5 |
| 4、平尾*1 | 11、垂尾螺丝M3x8*4 | (副翼*2、襟翼*2、垂尾*1) |
| 5、垂尾*1 | 12、平尾螺丝M3x10*4 | 18、拉杆：51mm*2 (平尾) |
| 6、左副油箱 | 13、机身装饰件 | 19、拉杆：74mm*1 (前轮转向) |
| 7、右副油箱 | 14、空速管 | 20、金属收放起落架 (已安装) |



空机版（ARF）机体安装

整机线组示意图

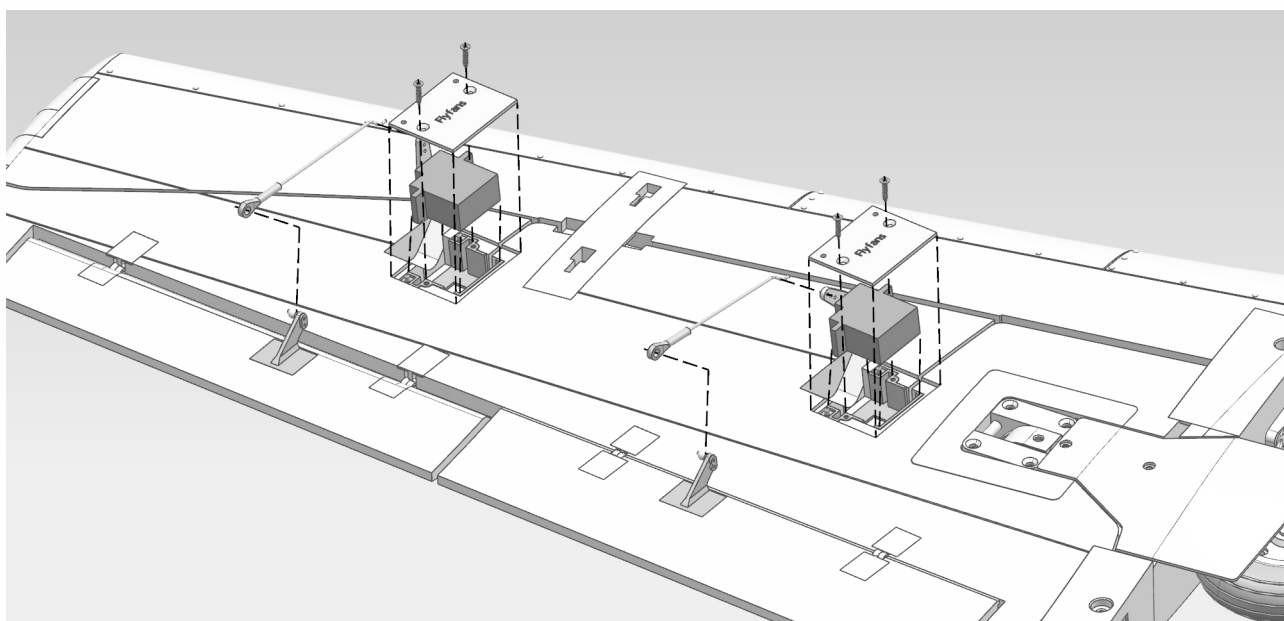


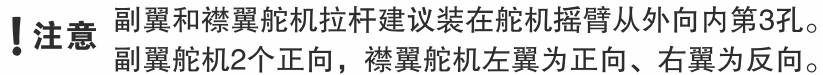
舵机规格明细

前轮舵机	300mm线长 9克正向*1
副翼舵机	400mm线长 9克正向*2
垂尾舵机	130mm线长 9克正向*1
襟翼舵机	210mm线长 9克左边正向*1右边反向*1
平尾舵机	130mm线长 9克左边正向*1右边反向*1

安装副翼及襟翼舵机

- 1、将副翼舵机和襟翼舵机分别通电回中，装好舵机摇臂，注意襟翼舵机0位状态角，摇臂角度为90度方向。





右机翼

机头方向

CH1副翼

CH5后起落架

CH6襟翼

LED航灯

LED航灯

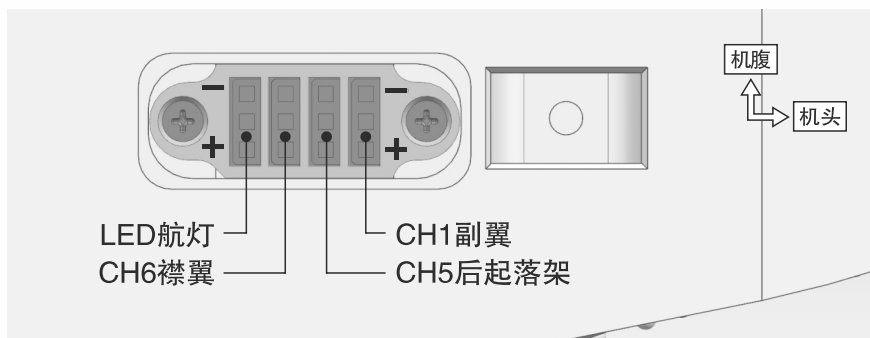
CH6襟翼

CH5后起落架

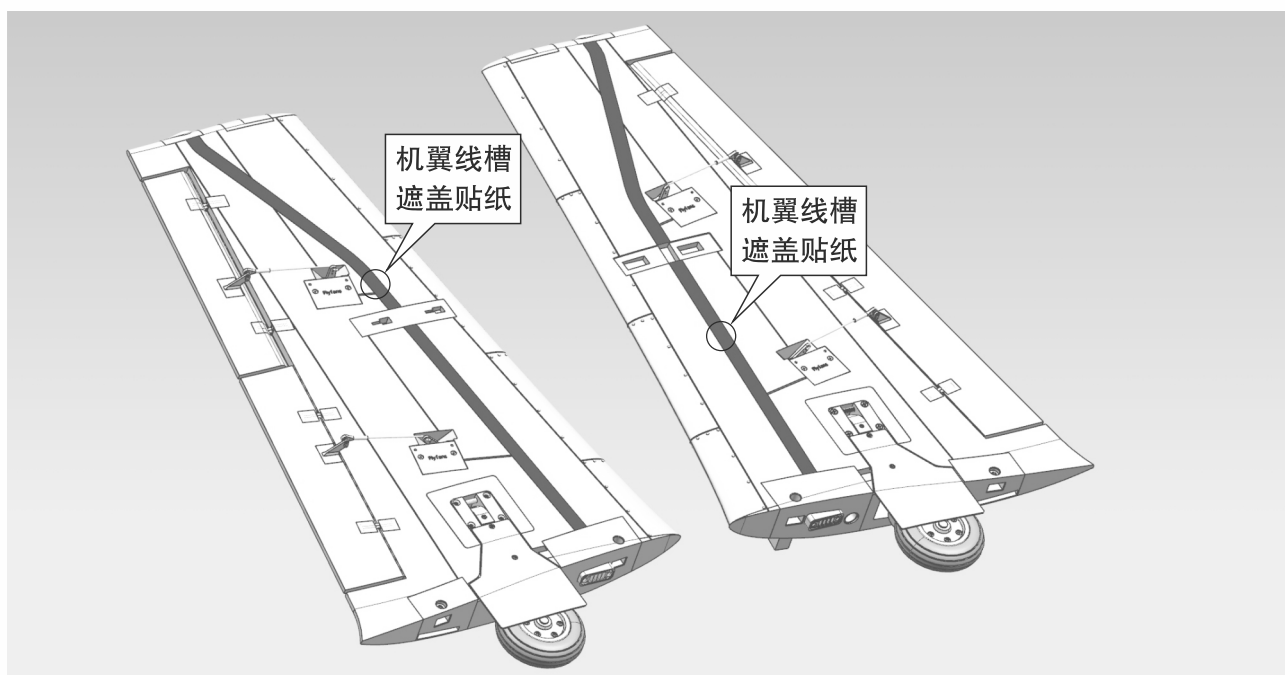
CH1副翼

左机翼

4、安装到位后，将塑料件装回安装位置，机翼舵机安装完成。

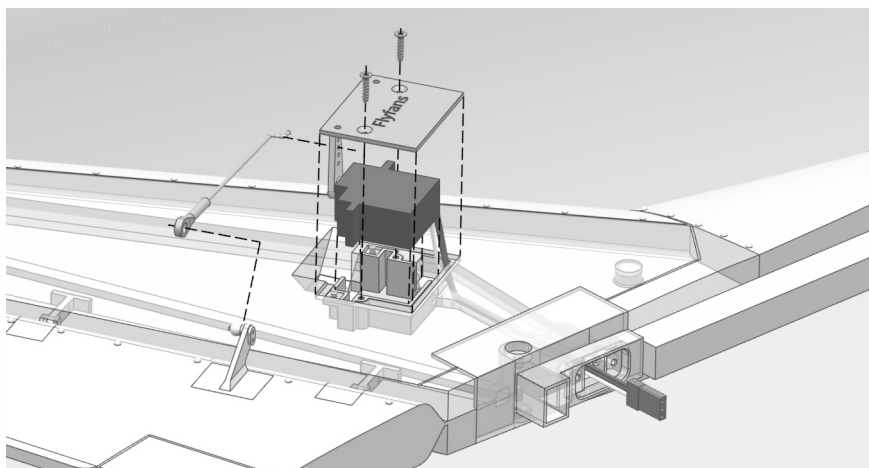


5、机翼舵机安装完成后，再次确认正负极是否有误，确认无误后将机翼线槽遮盖贴纸粘贴到合适位置，将机翼放置到整洁位置，以便后续组装使用。

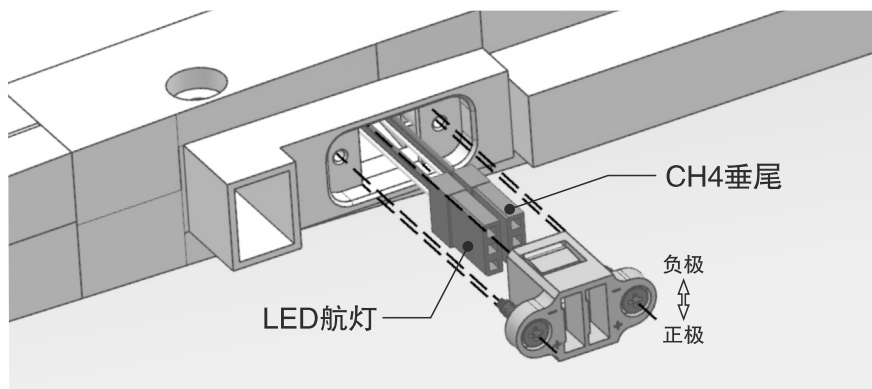


安装垂尾舵机

6、将舵机通电回中，装好舵机摇臂，摇臂角度为90度方向，将舵机安装到对应位置，将拉杆装好。垂尾使用1个正向舵机。

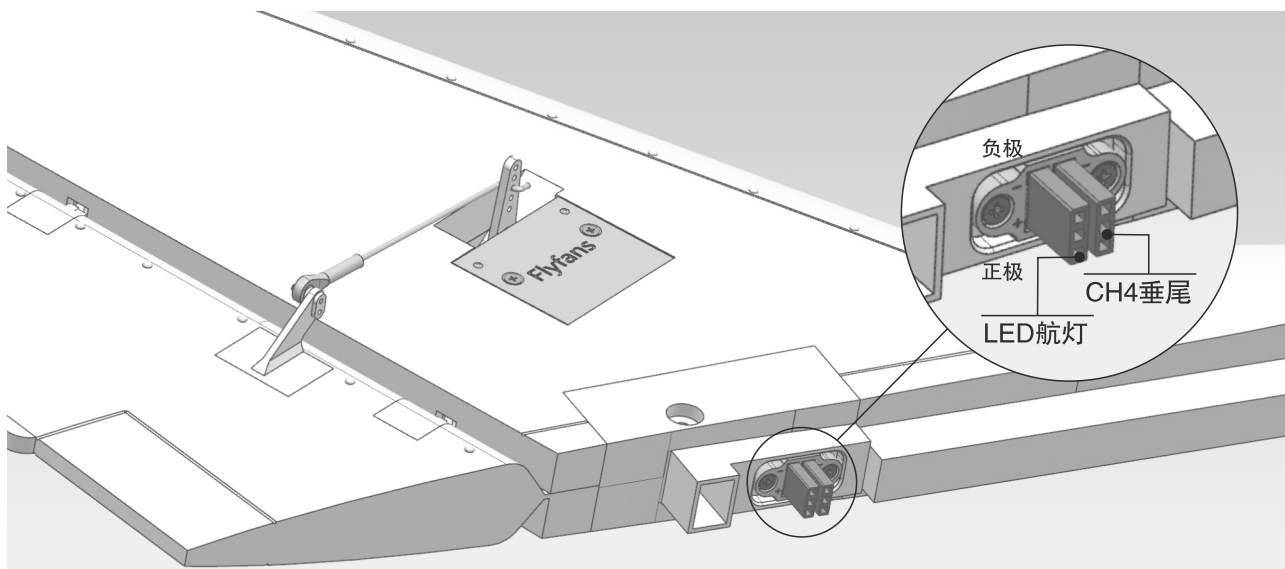


7、把垂尾快插塑料件拆下如图所示依次把舵机插头放入塑料件内并安装到位。



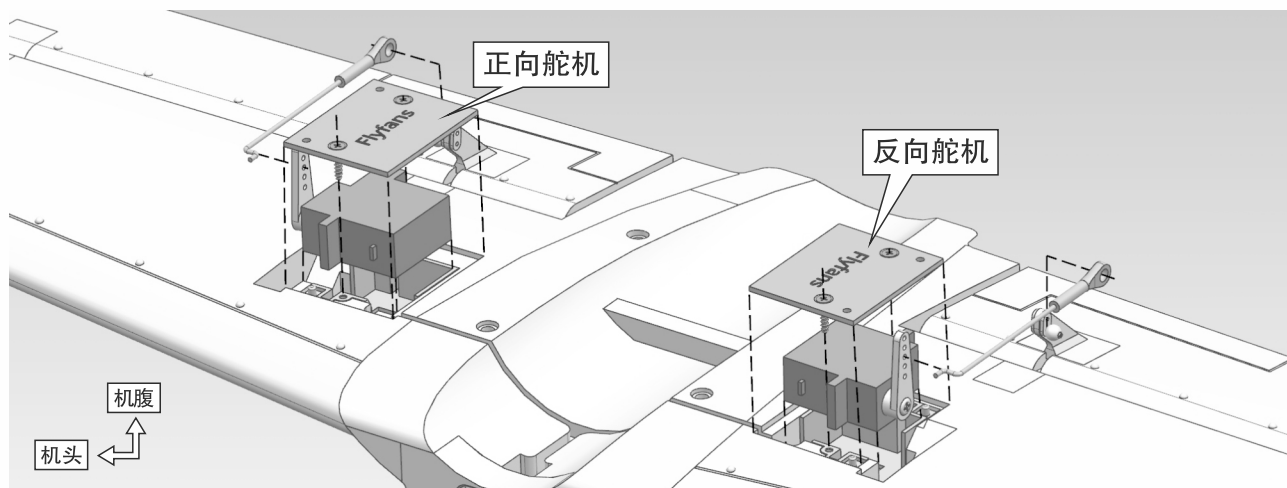
8、安装到位后，将塑料件装回安装位置，垂尾舵机安装完成。

9、垂尾舵机安装完成后，再次确认正负极是否有误，确认无误将垂尾放置到整洁位置，后续组装使用。

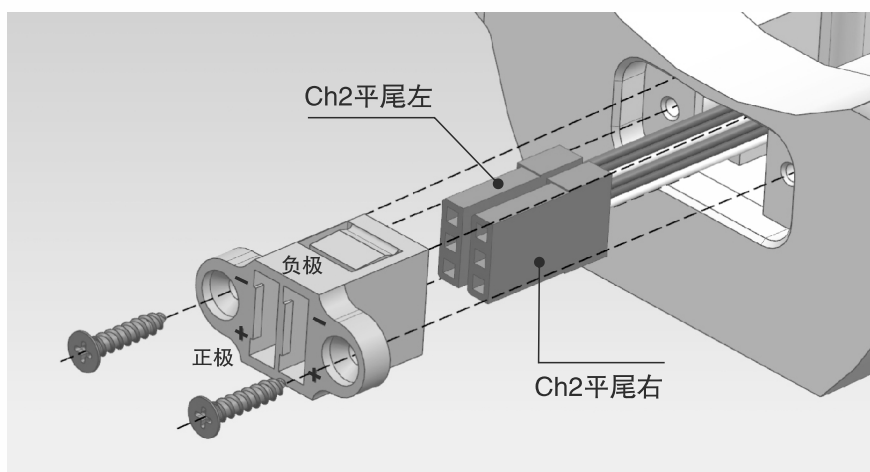


安装平尾舵机

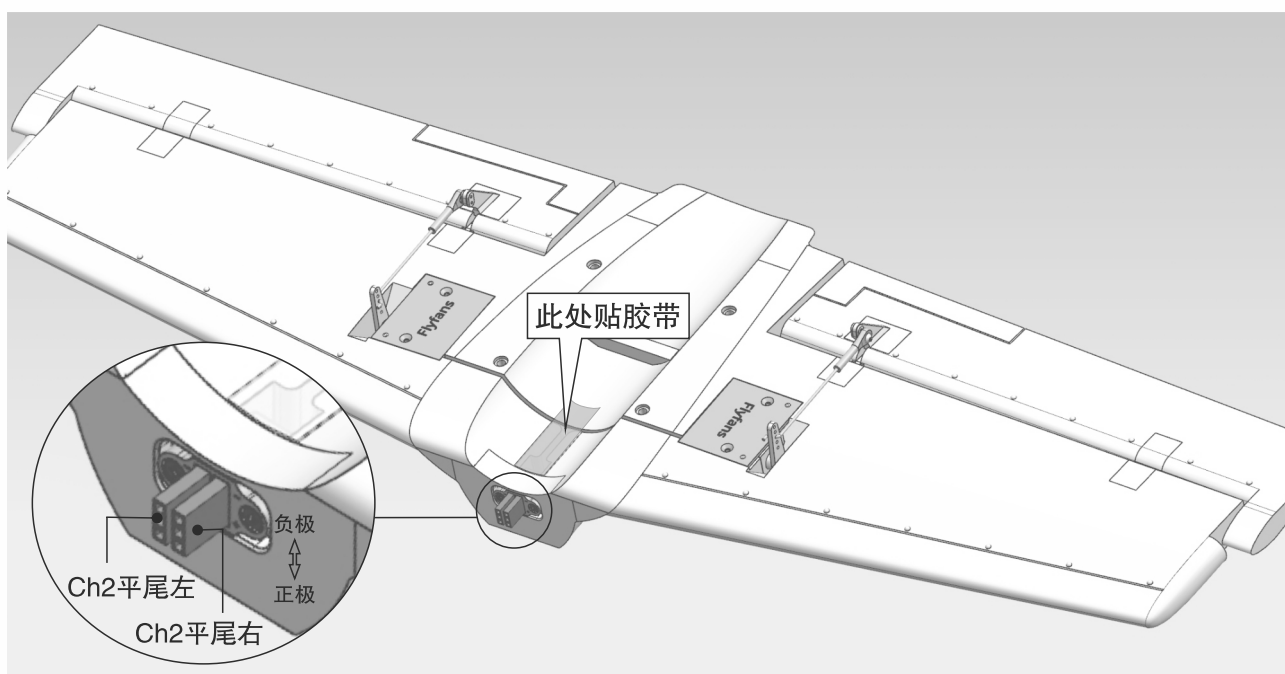
10、将舵机通电回中，装好舵机摇臂，摇臂角度为90度方向。将舵机安装到对应位置，注意平尾舵机左翼为正向、右翼为反向。



11、把平尾快插塑料件拆下如图所示依次把舵机插头放入塑料件内并安装到位。

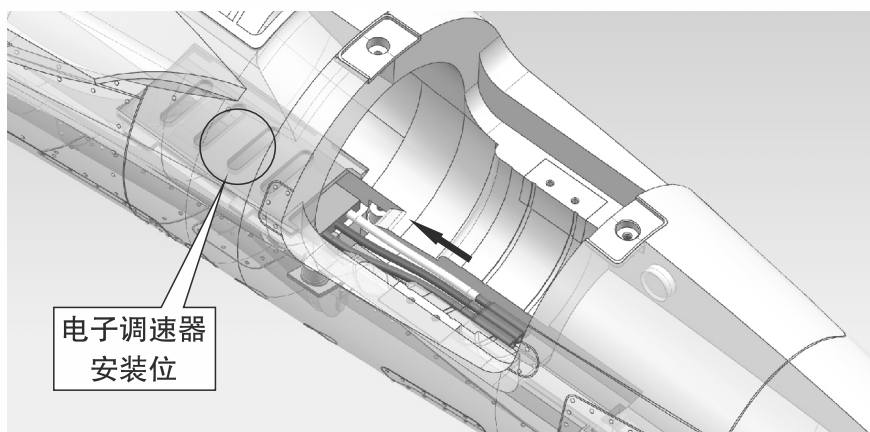


12、安装到位后，将塑料件装回安装位置，平尾舵机安装完成。

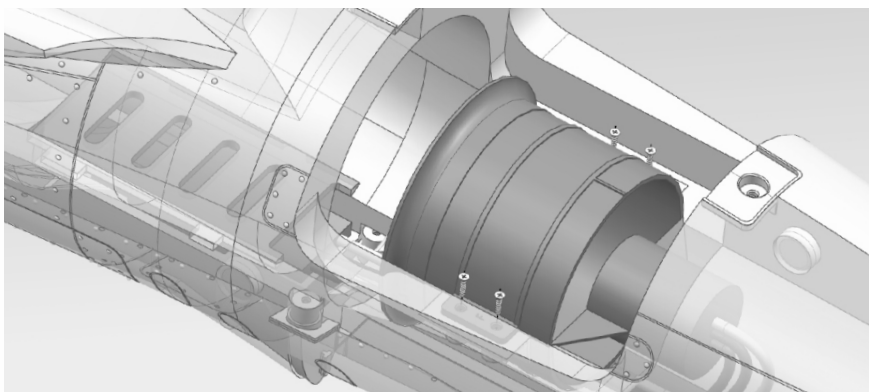


安装电子调速器及涵道

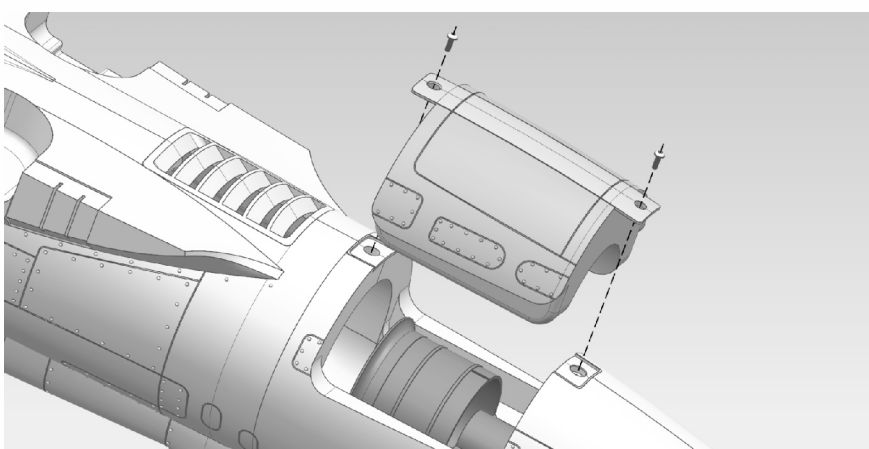
13、将电子调速器沿箭头方向插入安装位，穿于机身内。



14、将涵道与电子调速器连接，通电确认涵道转向正确，用涵道螺丝将涵道固定在对应的安装位置。

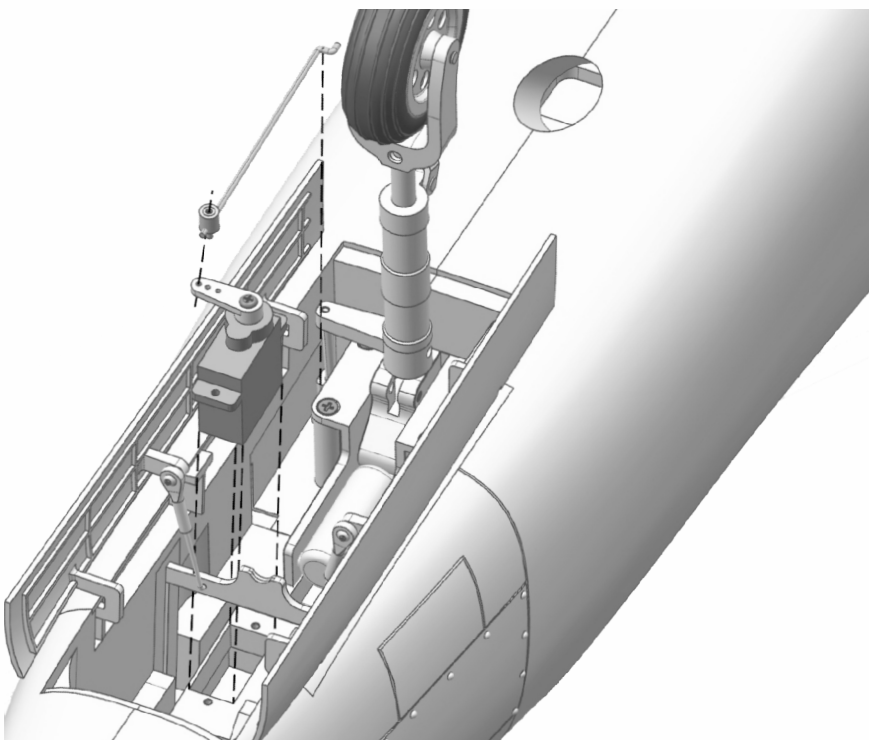


15、涵道安装完成后，将涵道盖装回机身。

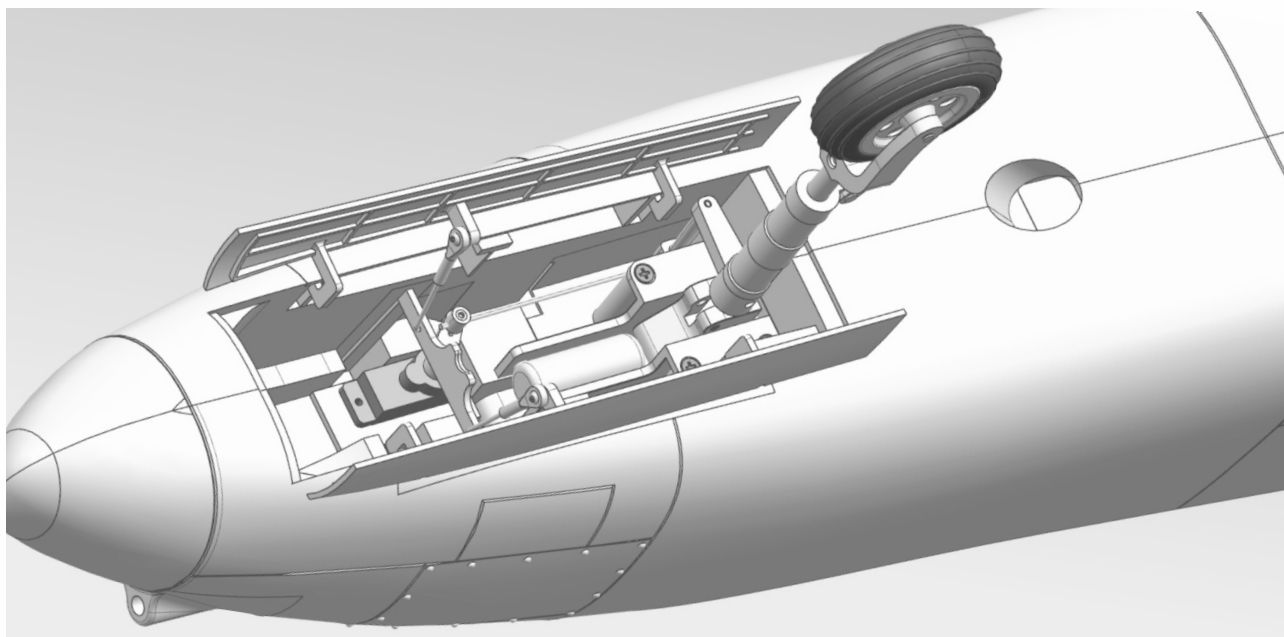


安装前轮转向舵机

16、将前起落架通电升起，舵机通电回中，安装舵机摇臂，注意舵机摇臂角度为90度。将快速调节器安装在舵机摇臂上，将舵机安装在对应位置并与前轮拉杆连接。此处使用正向舵机。

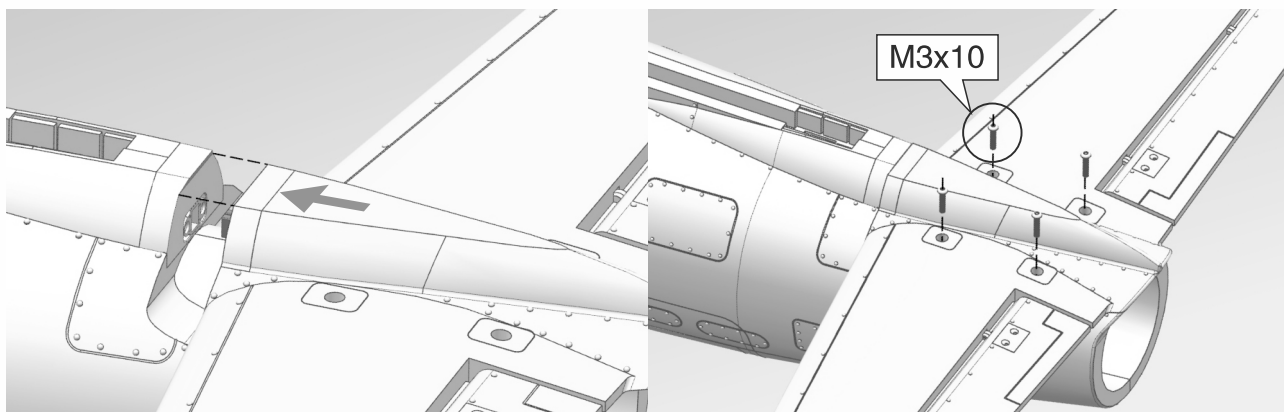


17、前轮方向舵机安装通电调试无误后，将机身放置到整洁位置，后续组装使用。

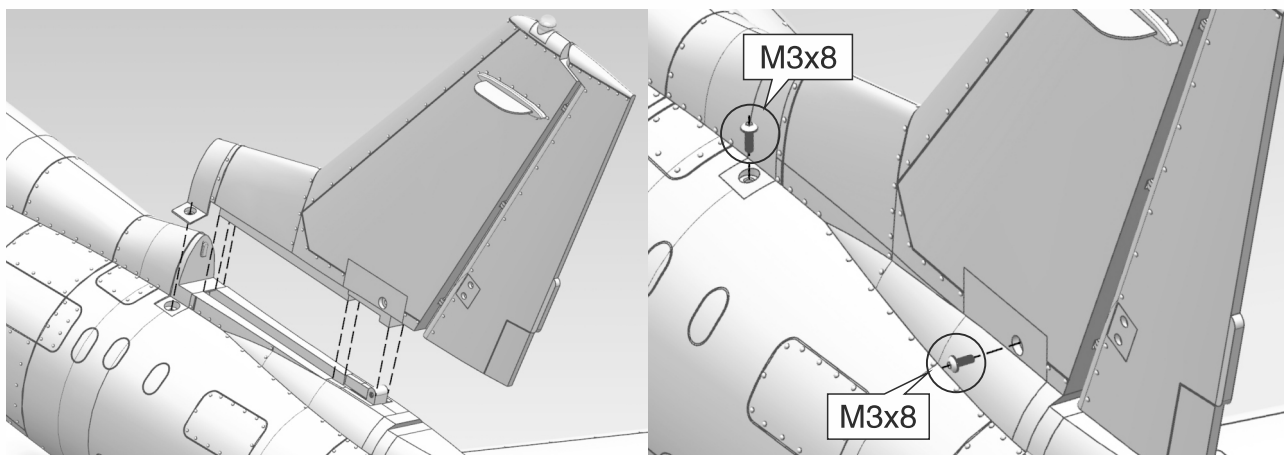


整机组装

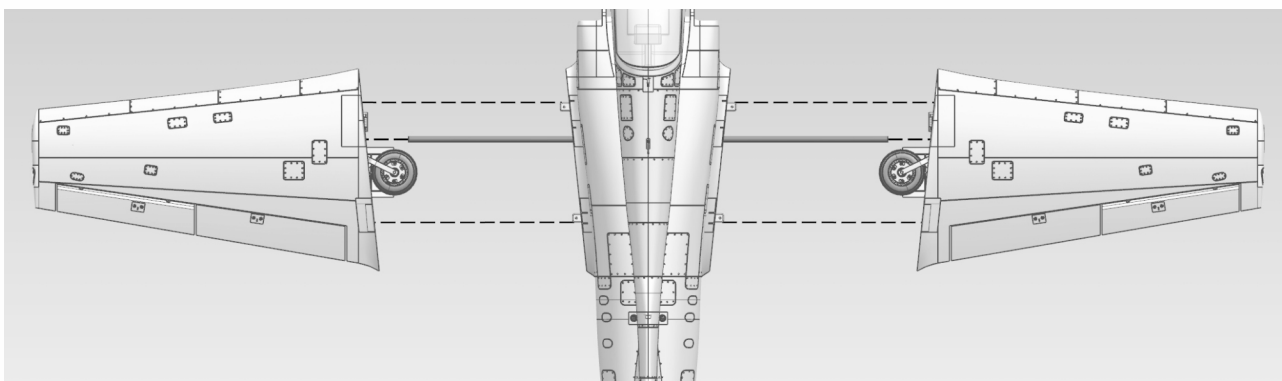
18、将平尾装好的舵机插头与机身预留插头进行对插，安装到位后，用平尾螺丝（M3x10mm）将机翼与机身固定。



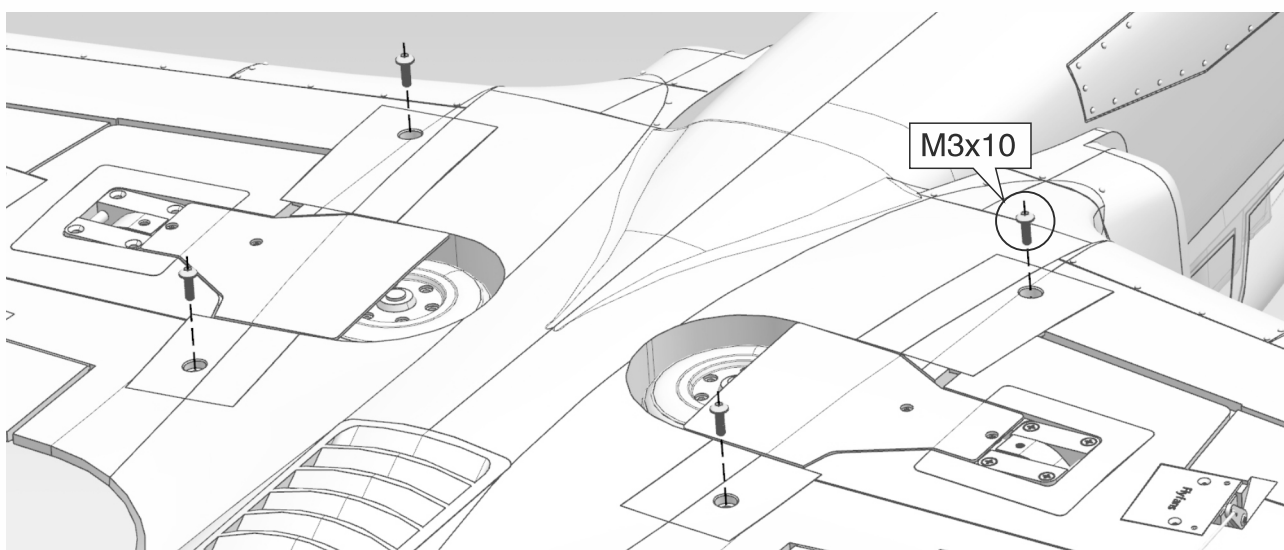
19、平尾固定好后，进行垂尾安装。将垂尾装好的舵机插头与机身预留插头进行对插，安装到位后，用垂尾螺丝（M3x8mm）将垂尾与机身固定。



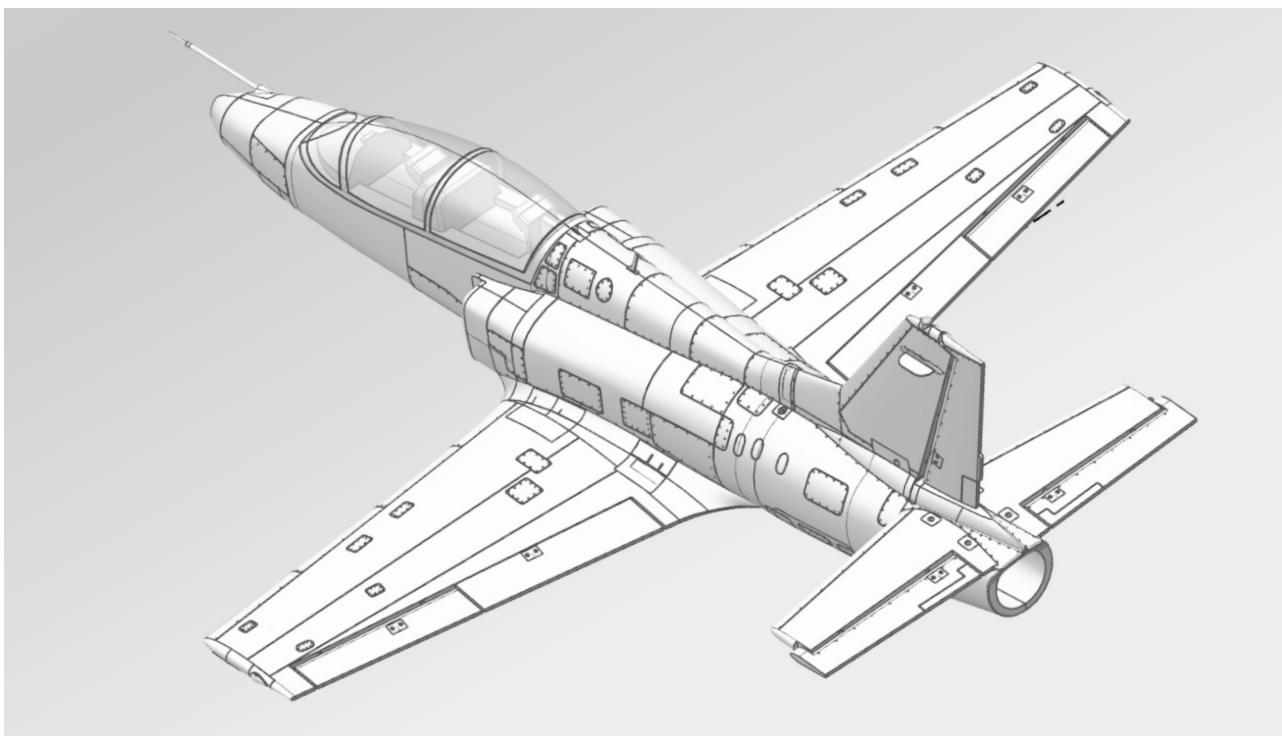
20、最后进行机翼组装，将碳管插入机身内，机翼装好的舵机插头与机身预留插头进行对插。



21、机翼对插到位后，通电调试各舵面无误后，用机翼螺丝（M3x10mm）将机翼与机身固定。

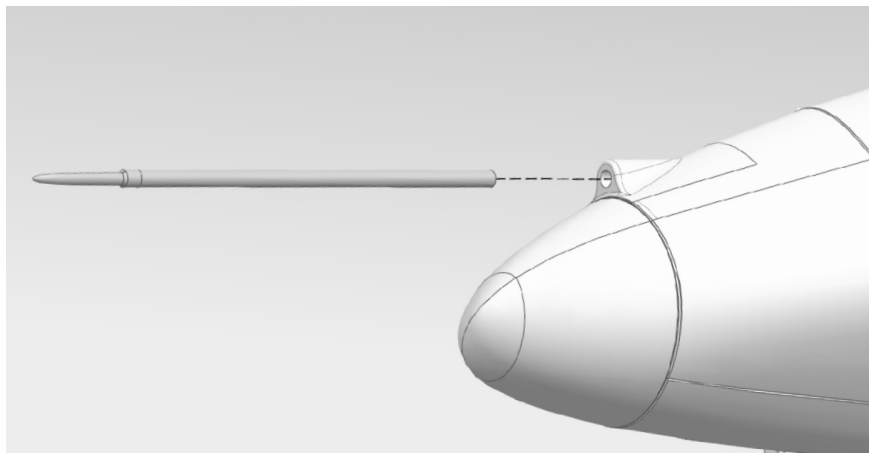


22、整机组装完成后，飞机通电，并再次检查舵面。



装饰件安装

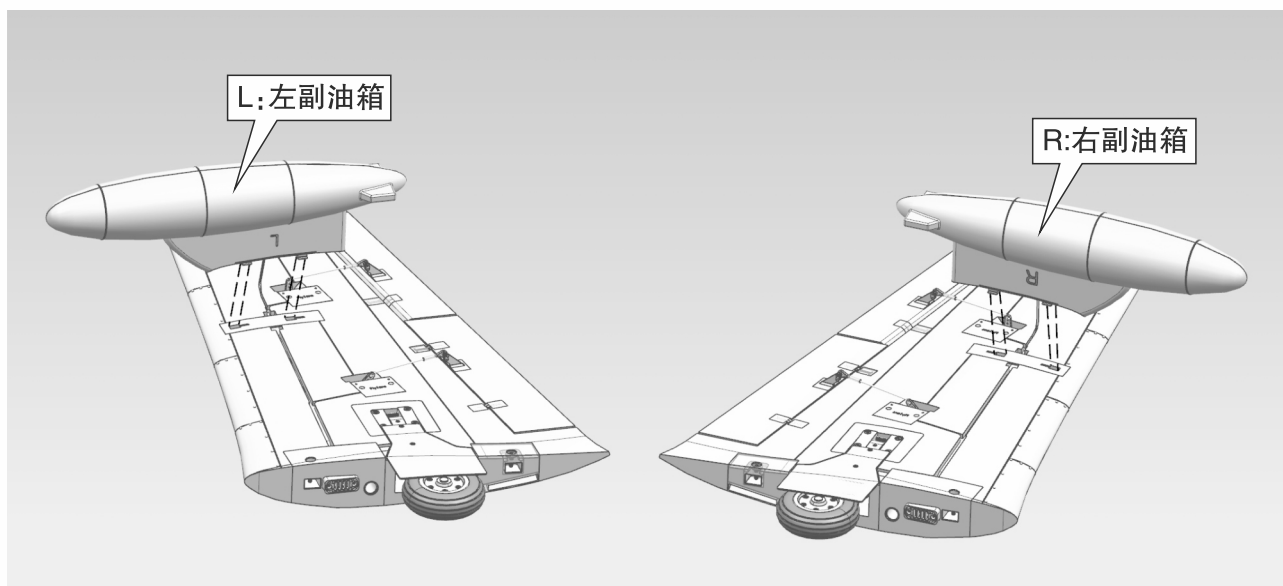
23、将空速管插入机头对应的基座上。



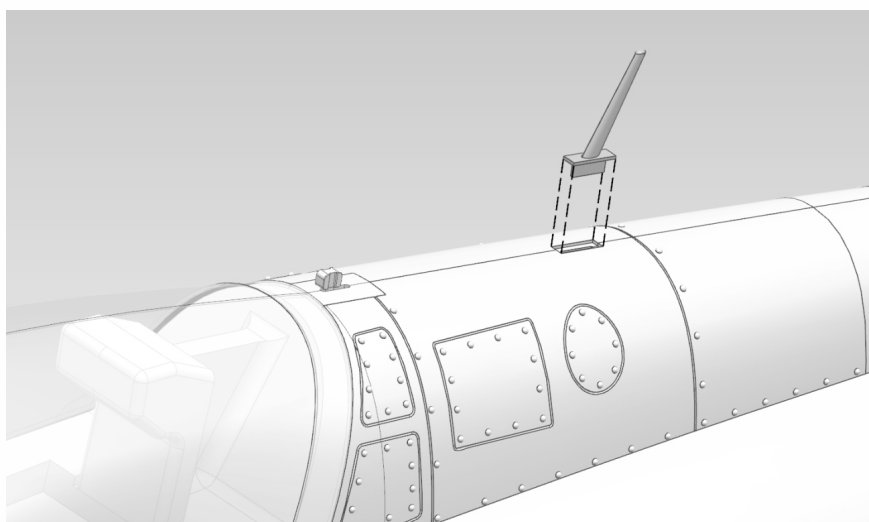
！注意

- 本品空速管为硬质材料装饰件，建议仅用于静态展示。
- 为避免飞行过程中产生危险，请谨慎使用本部件。

24、将副油箱卡口对准机翼预留卡口插入并卡紧。注意区分左右副油箱，L为左翼、R为右翼。

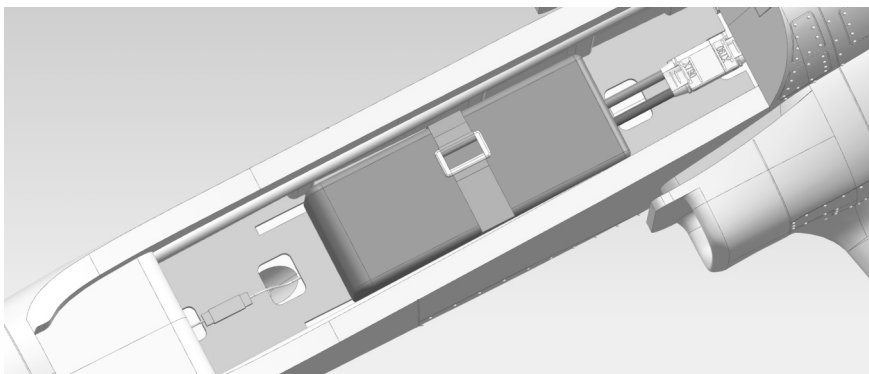


25、将机身装饰件用胶水（建议使用502）粘合在机身相应位置。



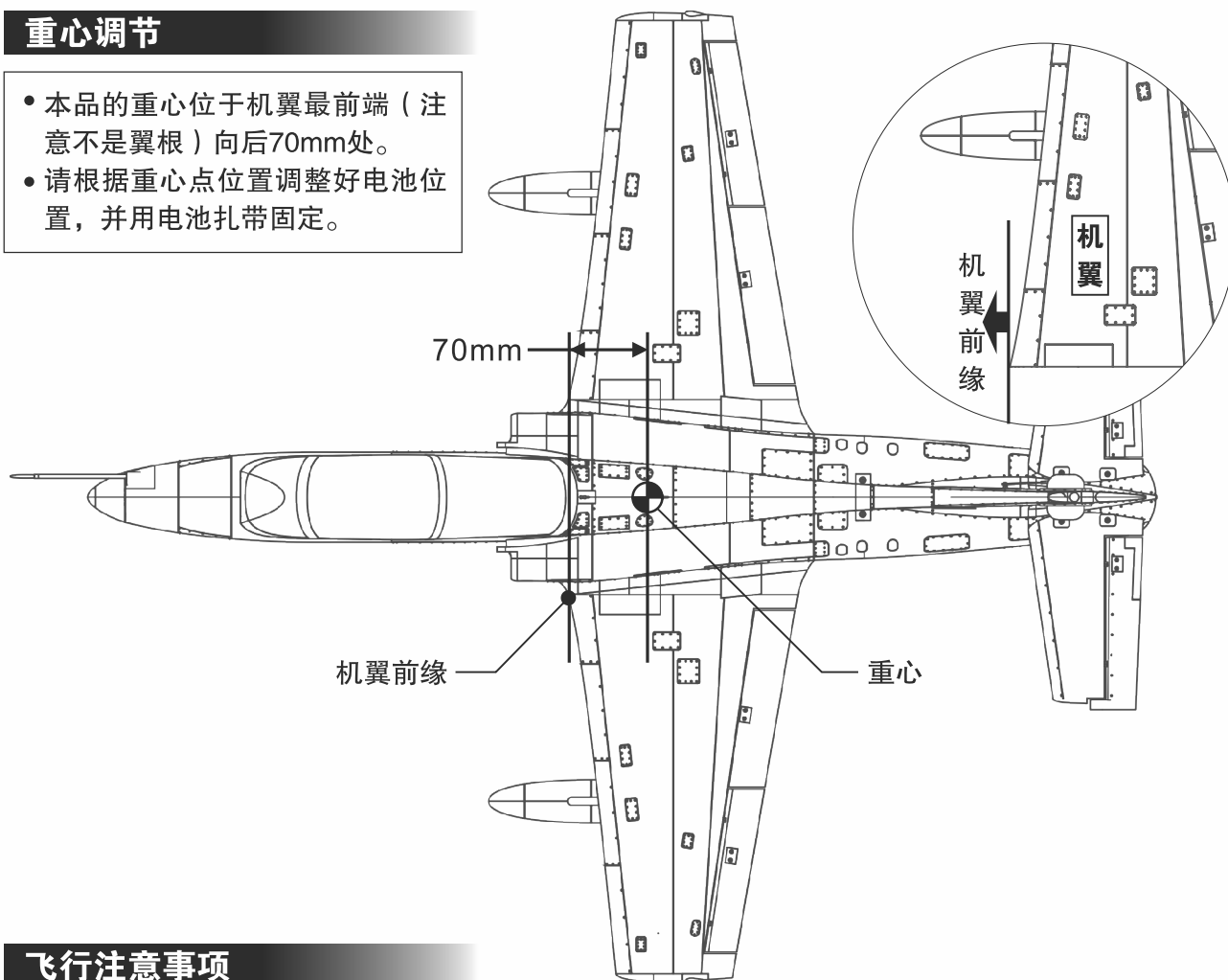
电池安装调节

- 飞机通电前，首先请打开发射机电源，确认油门杆处于低位。
- 移开座舱盖，打开电池板上的魔术带。
- 将电池置于电池仓内，有电源线的一端朝向飞机尾部，使用扎带固定电池。
- 由于不同电池厂家生产的电池重量有差异，需要调整电池的位置来平衡。



重心调节

- 本品的重心位于机翼最前端（注意不是翼根）向后70mm处。
- 请根据重心点位置调整好电池位置，并用电池扎带固定。



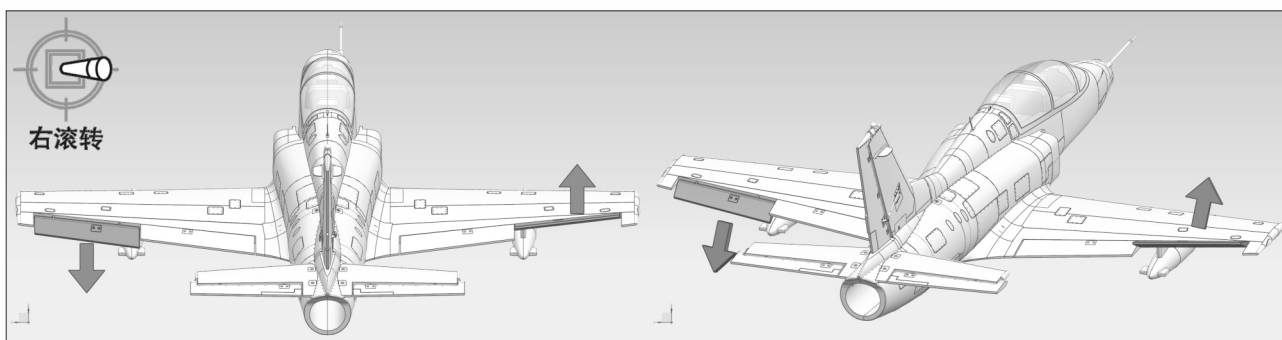
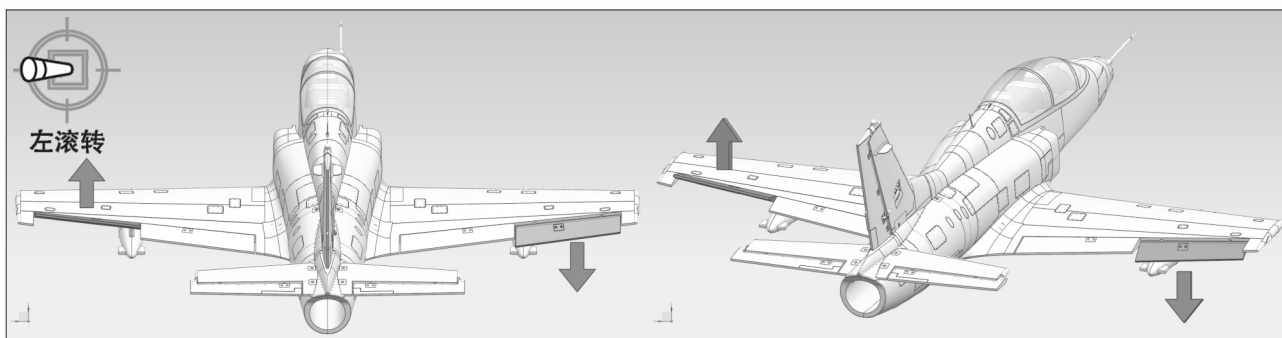
飞行注意事项

- 1、请根据重心调整电池安装位置，可以让机头略重，不可机头偏轻。
- 2、降落时请注意速度保持，避免失速。
- 3、注意地面转向舵量，避免大舵量导致滑跑侧翻。
- 4、建议舵量为正常飞行设置，可根据个人手感适当调整。

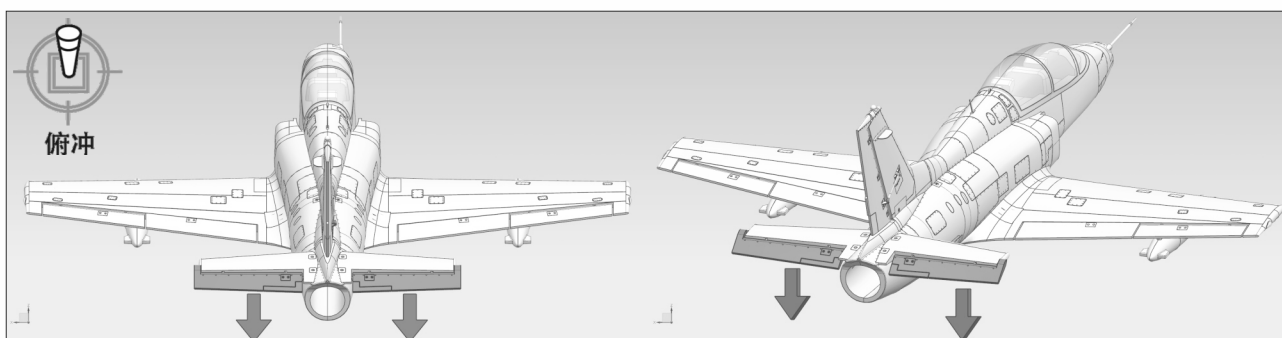
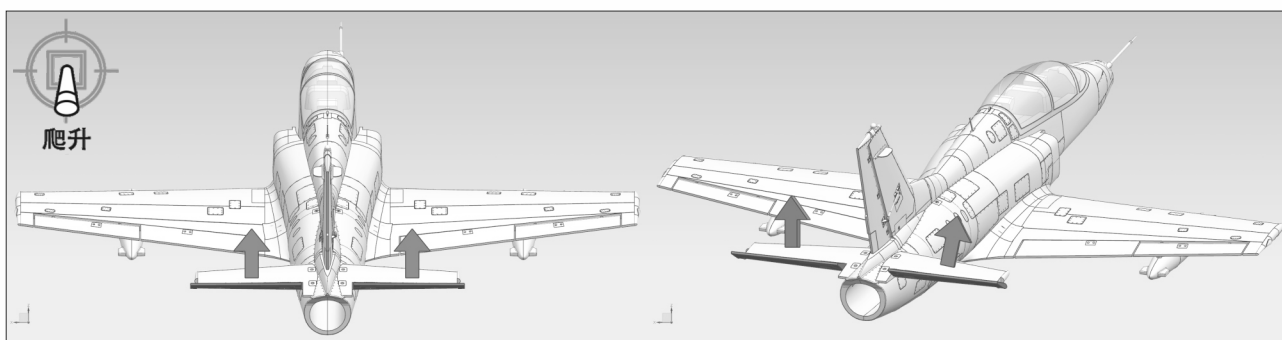
调试建议

舵面运动

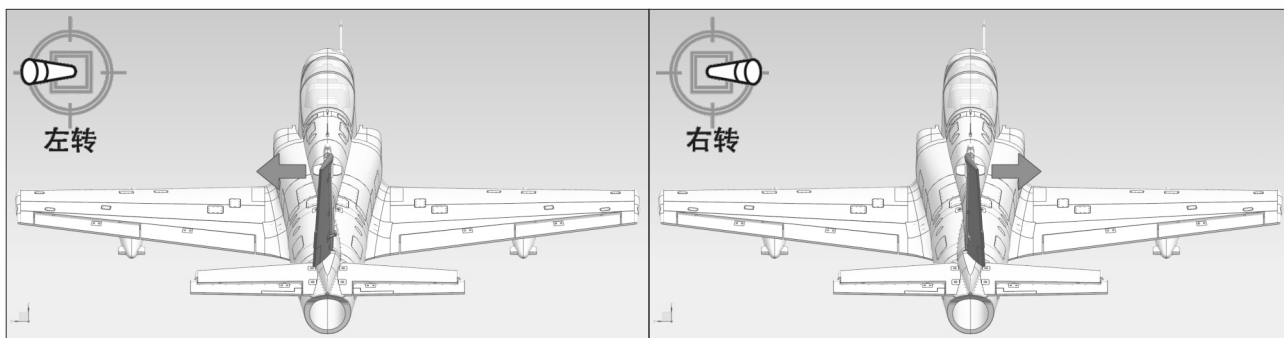
副翼



升降



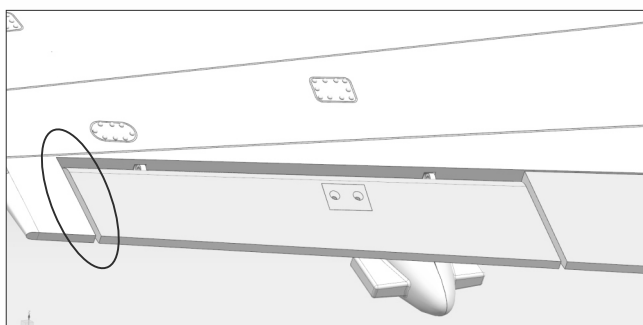
方向



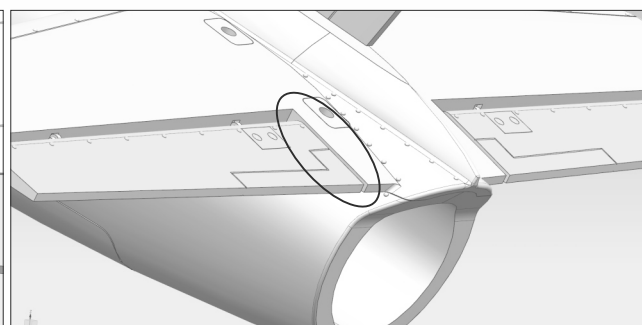
舵量设置

- 参考舵量是经过反复测试的最佳状态，请根据个人操作手法适度调整。
- 襟翼与副翼初始舵面与机翼外侧平齐。
- 平尾初始舵面上缘与根部齐平。

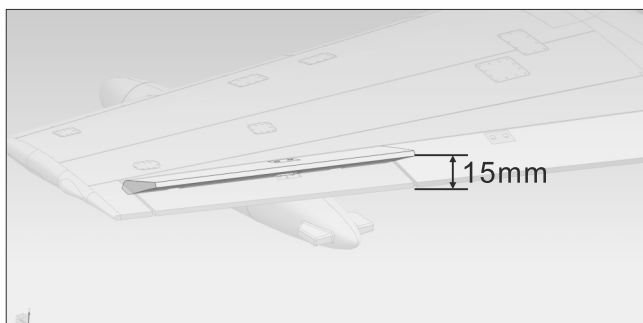
副翼与襟翼初始舵面



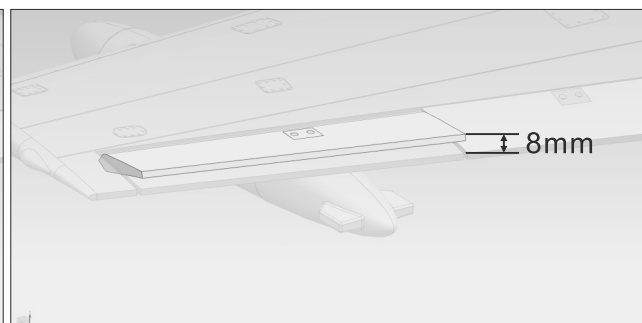
平尾初始舵面



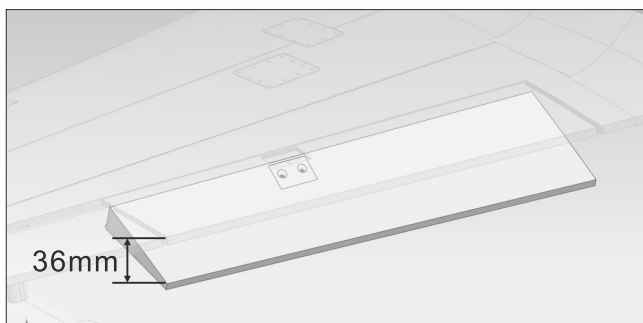
可设置大小舵量示意图



副翼大舵



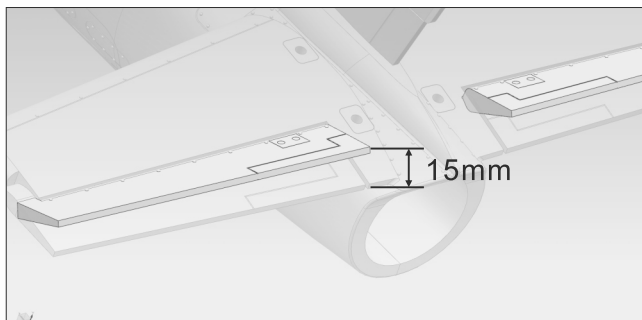
副翼小舵



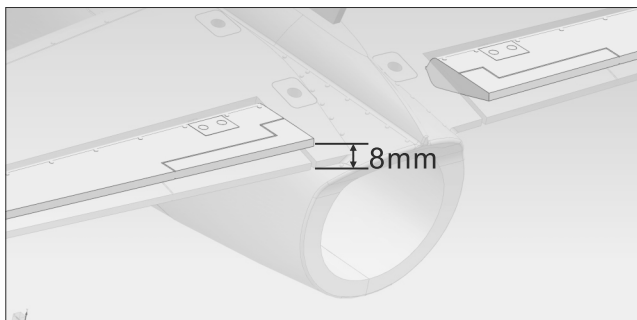
襟翼大舵 (最大行程36mm,超过最大行程会憋烧舵机)



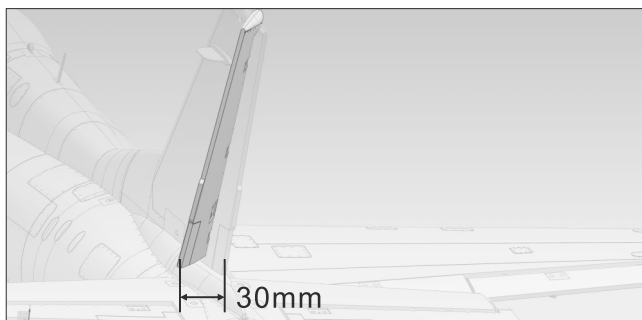
襟翼小舵



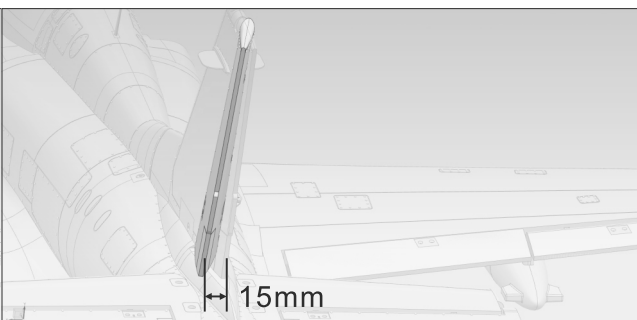
平尾大舵



平尾小舵



垂尾大舵



垂尾小舵

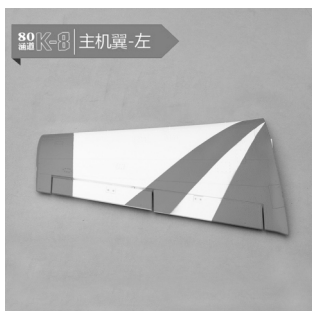
故障排除

故障现象	故障起因	解决方式
油门推杆无响应 但舵机有响应	- 电调未连接电机 - 油门通道反向	- 降低油门推杆和油门微调设定 - 在遥控器上将油门通道反向设定
涵道桨叶噪音过大或 震动过大	- 桨罩、桨、电机等部件破损或故障 - 电机架、涵道固定松动	- 电动涵道使用高速转动部件。部件破损或故障会使其失去动平衡。不建议用户自行维修，建议返厂维修 - 拧紧螺丝，固定好电机架和涵道
飞行时间变短 飞行无力。	- 电池电量低 - 电池放电系数不足 - 电池故障	- 给电池充电 - 更换满足飞行要求的电池 - 更换新电池
进行操作时舵面不动或 响应较慢	- 舵面、舵脚、连杆、舵机损坏 - 舵机连线故障或接头松动	- 更换损坏的配件 - 检查所有连接线，确保所有接头无松动
舵面反向。	遥控器上通道设定反向。	检查遥控器上的通道方向正反设定
飞行时突然动力减弱。	- 电调进入低压保护设置 - 电机或者电池故障 - 电调进入过热保护设置	- 立刻降落并检查电池电压 - 检查电池、遥控器、接收机、电调、电机等部件是否有故障 - 若因环境温度过高或长时间连续飞行导致电调温度过高，请先冷却
接收机LED灯慢闪	接收机供电不足	- 检查电调与接收机间的连接 - 检查舵机是否故障 - 检查舵机连杆是否安装到位

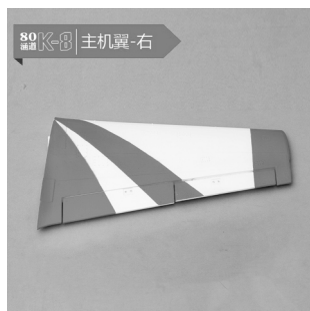
80 涵道 K-8 机身配件



NO.80MM-K8-01



NO.80MM-K8-02



NO.80MM-K8-03



NO.80MM-K8-04



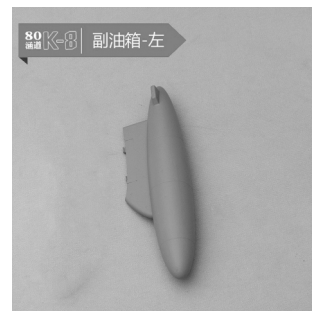
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NO.80MM-K8-06



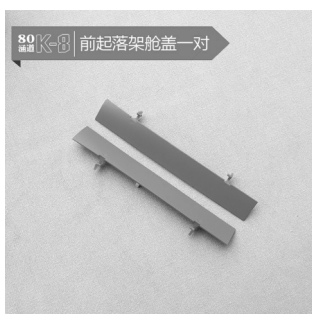
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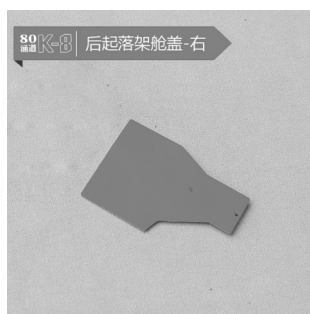
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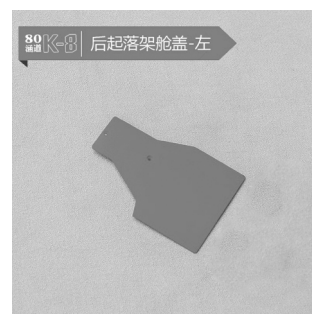
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NO.80MM-K8-19



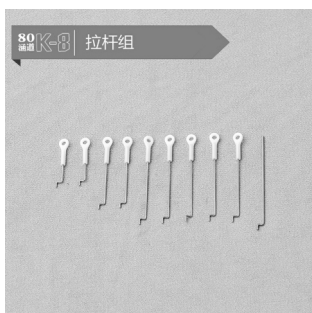
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NO.80MM-K8-13



NO.80MM-K8-14



NO.80MM-K8-10



NO.80MM-K8-15



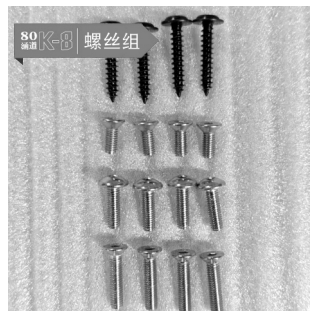
NO.80MM-K8-16



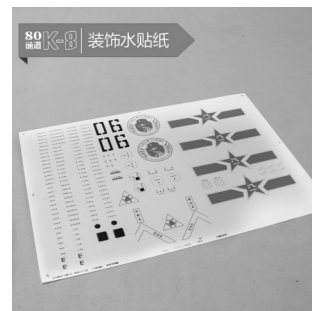
NO.80MM-K8-17



NO.80MM-K8-18



NO.80MM-K8-11



NO.80MM-K8-26

80 涵道 K-8 金属配件



NO.FF-DF80 / KV2000



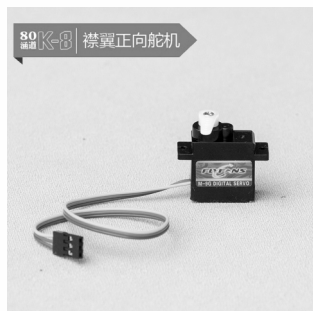
NO.FFESC100A



NO.FF09MGP300-F



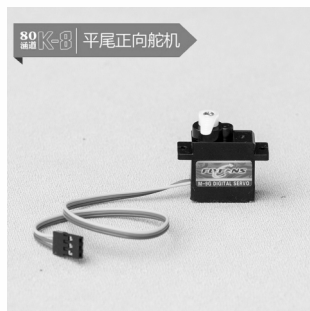
NO.FF09MGP400-F



NO.FF09MGP210-F



NO.FF09MGP210-R



NO.FF09MGP130-F



NO.FF09MGP130-R



NO.FF09MGP130-F



NO.80MM-K8-22



NO.80MM-K8-23



NO.80MM-K8-24



NO.80MM-K8-20



NO.80MM-K8-21



NO.80MM-K8-25



NO.80MM-K8-27



NO.FFKV2000



NO.FF-LED-R



NO.FF-LED-G



NO.FF-LED-W

