













Catalog ΕN

- 1 Introduction
- 2 Product basic information
- 2 Package list PNP Assembly instructions
- 3 Install fuselage
- Install vertical stabilizer
- 3 Install main wing
- Install canard
- 4 5 5 5 Install pylons
- Install nose cone Install battery
- Pushrod instructions 6
- Center of gravity 6 PNP Parameter setting
- 7 Control direction test
- **Dual rates** 8 Pre-installed component overview
- Servo direction 9
- 9 Motor specification

The JAS 39 Gripen's unique delta wingnot canard configuration ebbes it to achieve a highly maneuverable flight envelope, with a tighter turning radiaths the American F61 Flown by more that a dozenNATO countries, the Gripen is a Mach 2-capable multirole fighter whose 25 yeaservice history continues onward with detision

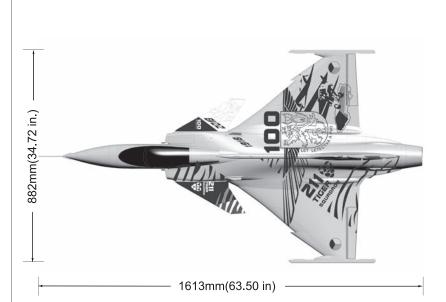
Freewing has raised the bar again Rf6rfoam electric delta winged jets with Sh89JAripen. This jetpiscisely modeled for sea fidelity and practR6a performance, and assembles in minuts including pre-installed tebeics and LED lighting. Powered by Freewing's popular 8mm 9-blade Inrunner EDF and a 100A ESC, the Freewing Gripen is designed for power! A19 scale and 1613mm/63 " in length, therefwing Gripen is longer than its predecessor, the Freewing TypReconferencing the full size Gripen short take-off capilities, the Freewing Gripen is optificized take-offs and reviving unkempt landing trips.

Recommended for intermediate to advanced kill level pilots, the Freewing Gripen offers the power, size afidas per scale jet, in a lighter, faster, and momeicator 00mm EDF Se ries package. Full-functioning canards enals the le high-alpha capabilities, and towerage gear doors improve the airfraince overall aerodynamics.

& NOTE: This is not a toy. Not for children under 14 years. Young peop leunder the age of 14 should only be permitted to operate this model under the instruction and supervision of an adult. Please keep these instructions for further efference after completing model assembly.

Note:

- 1. This is not a toy! Operator should have a **certain** experience, beginners should operate under the guidance of professional players.
- 2. Before installplease read through the instructions carefully and operate strictly under instructions.
- ${\it 3. Cause \ of wrong \ operation, Freewing \ and \ its vendors \ wilhot \ be \ held \ responsible \ \textbf{for} \ any \ losses.}$
- 4. Model planes' players must be on the age of 14 years old.
- 5. This plane used the EPO material with surface spray paint, don't use chemical to clean, otherwise it will blamage.
- 6. You should be carefulto avoid flying in areas such as publicplaces, high-volage-intensive areas, near the highway, near the airport or any other place where laws and regulation clearly prohibit.
- 7. You canno tflyinbad wea ther conditions such as thunders torms, snows
- 8. Model plane's battery, don't allowed to put in everywhere. Storage must ensure that Here is no inflammable and explosive materials in the round of 2M range.
- 9. Damaged or scrap batery should be properly recycled, it an't discard to avoid spontaneous combus tion and fire
- 10. lnflyingfield,the waste **after** flyingshould be properly handled, it can't be abandoned or burned.
- 11. Inany case, you must ensure that he throtheisin the low position and transmitter switch on, then it can connect the lipo-batery in aircraft.
- 12. Do not my to take planes by hand when flyinger slow landing process. You mus twaitfor landing stop, then carry it.



Note: The parameters in here are derived from test result using our accessories. If use other accessories, the test result will be different. Any problem since of using other accessories, we are not able to provide technical support.

Standard Version

Wingload: 105 g/dm² Wing Area: 28.6 dm²

Motor: 3658-1920KV I/R Motor Servo: 9g MG digital servo ×4 9g MG digital servo ×2 ESC: 100A with 5A BEC Ducted fan: 80mm 9-blade fan Weight: 2350g (w/o Battery)

Other features

Material: EPO

Aileron: Yes Canard: Yes

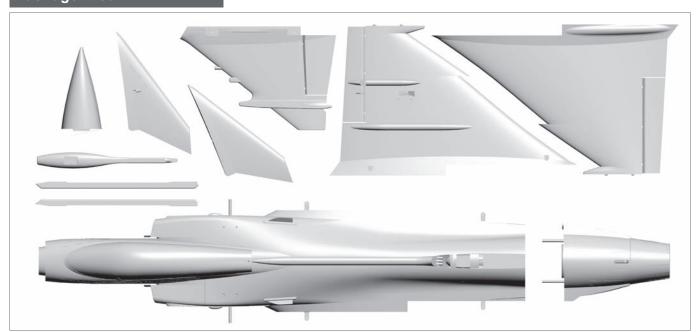
Rudder: Yes

Landing gear: Electric Landing Gear Cabin door:Nose gear cabin door

Scale LED lights
Scale Pilot figure

Li-Po Battery: 6S 4000-5200mAh (1pcs)

Package List

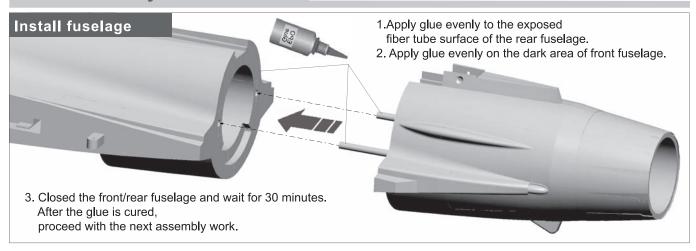


Different equipment include different spareparts. Please refer to the following contents to check your sparepart list.

No.	Name	PNP	ARF Plus	
1	Fuselage	Pre-installed all electronic parts	Pre-installed servo	
2	Main wing	Pre-installed all electronic parts	Pre-installed servo	
3	canard	Pre-installed all electronic parts	Pre-installed servo	
4	Vertical tail	Pre-installed all electronic parts	Pre-installed servo	
5	Pylons	1/	1/	

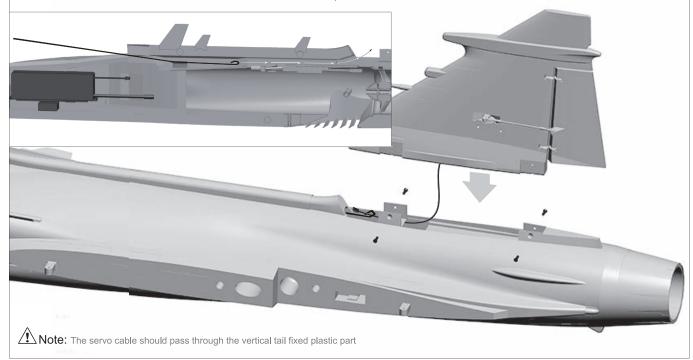
No.	Name	PNP	ARF Plus
6	Cockpit and Nose cone	√	√
7	Manual	V	1
8	Pushrod	V	√
9	Non-slipmat	√	√
10	Screw and Carbon tube	√	√

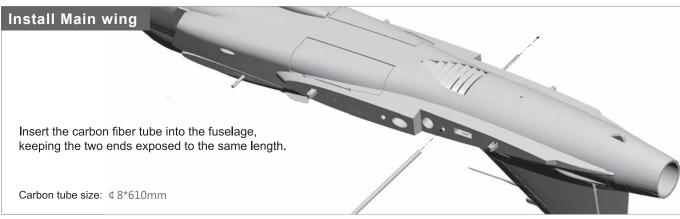
Screw (FA3X10mm 4PCS)

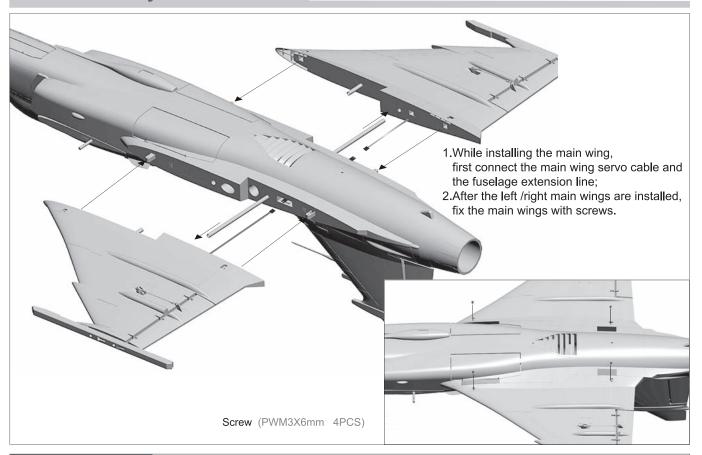


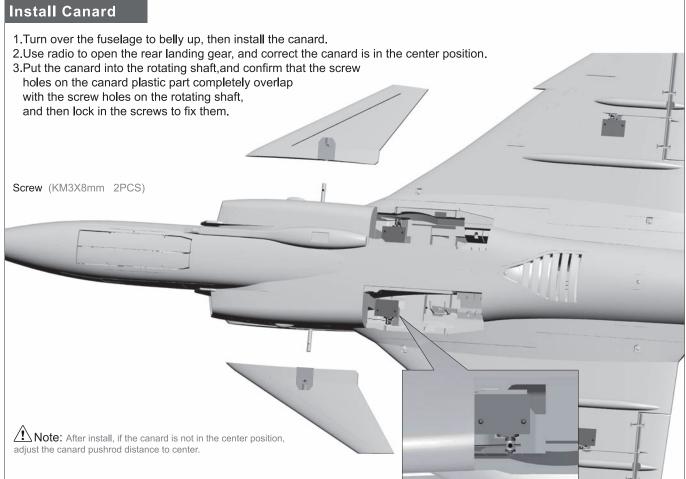
Install Vertical Stabilizer

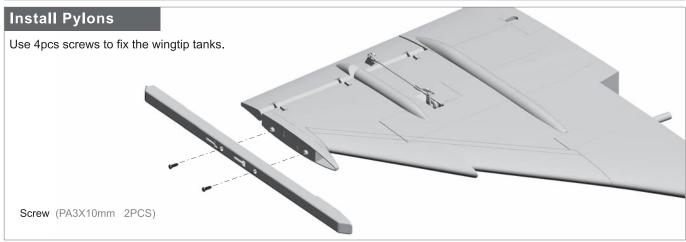
- 1. Take out the traction wire from the packaging box, and insert the hooked end into the fuselage slot from the battery compartment.
- 2.Use the traction wire to hook the vertical stabilizer servo wire and pull it into the battery compartment along the wire groove.
- 3.At the same time, after the vertical stabilizer is installed at the rear of the fuselage, use 4 screws to lock the vertical stabilizer from both sides;



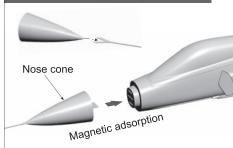


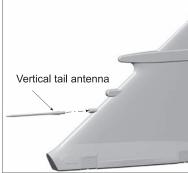




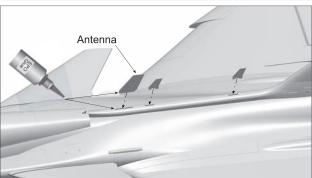


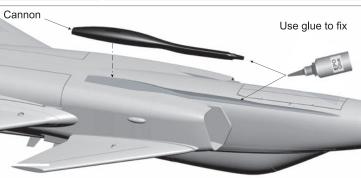
Install small plastic parts

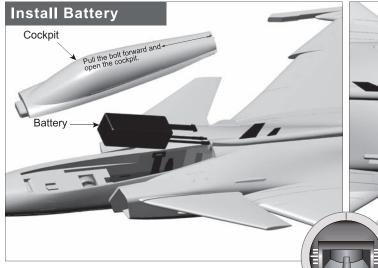












Before connecting the battery and receiver, please switch on the transmitter power and make sure the throttle stick is in the lowest position. Bind your receiver to your transmitter according to your transmitter's instruction manual.

We recommend the following LiPo battery: 6S 22.2V 4000mAh~6S 22.2V 5000mAh Discharge rate of C \geqslant 35C

Battery recommended location

Battery size: 6S 5000mAh Battery weight :710g

70mm

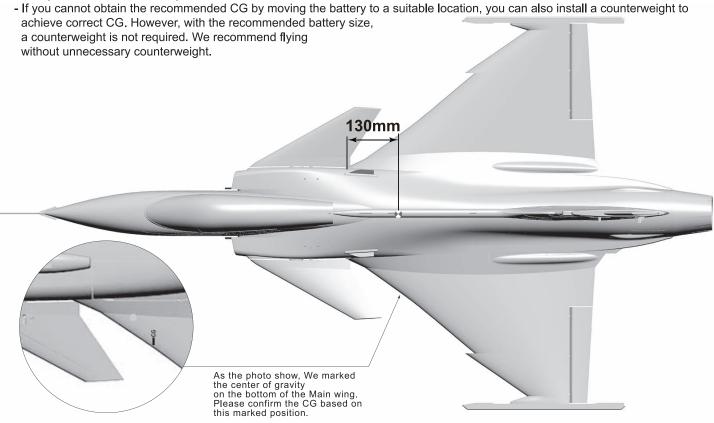
Pushrod instructions

Nose gear steering pushrod length		Nose gear steering pushrod mounting hole
45mm	Pushrod diameter Ø1.2mr	
Nose cabin door pushrod length		Nose cabin door pushrod mounting hole
24mm ———————————————————————————————————	Pushrod diameter Ø1.2mm	
Rear cabin door pushrod length		Rear cabin door pushrod mounting hole
26mm(1")	Pushrod diameter Ø1.2mm	
Rudder pushrod length		Rudder pushrod mounting hole
85mm———————————————————————————————————	Pushrod diameter Ø1.5mr	
Aileron pushrod length		Aileron pushrod mounting hole
95mm (3–3/4")	Pushrod diameter Ø1.5mr	
Canard pushrod length		Canard pushrod mounting hole
135mm (5-5/16")	Pushrod diameter Ø1.5mr	

Center of Gravity

Correct Center of Gravity ("CG") is critical for enabling safe aircraft stability and responsive control. Please refer to the following CG diagram to adjust your aircraft's Center of Gravity.

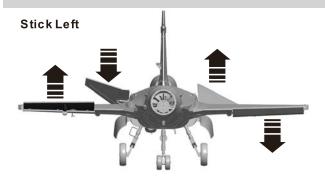
- Depending on the capacity and weight of your choosen flight batteries, move the battery forward or backward to adjust the Center of Gravity.

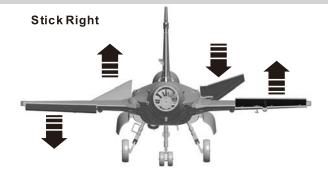


Control Direction Test

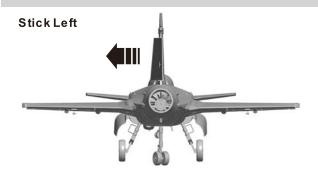
After installed the plane, before flying, we need a fully charged battery and connect to the ESC, then use radio to test and check that every control surface work properly.

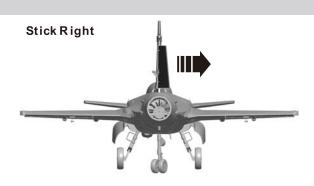
Aileron





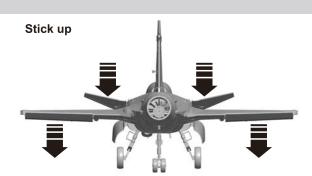
Rudder





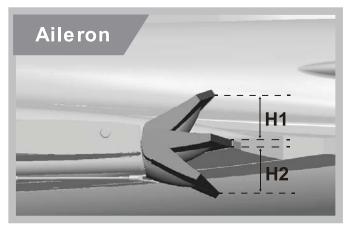
Elevator

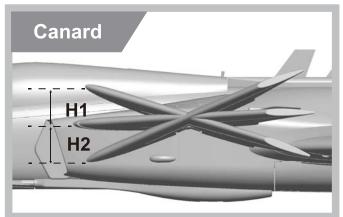


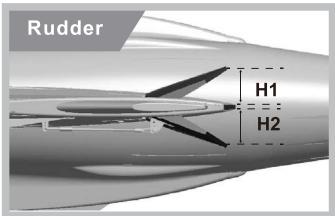


Dual Rates

According to our testing experience, use the following parameters to set Aileron/Elevator Rate. Program your preferred Exponential % in your radio transmitter. We recommend using High Rate for the first flight, and switching to Low Rate if you desire a lower sensitivity. On successive flights, adjust the Rates and Expo to suit your preference.

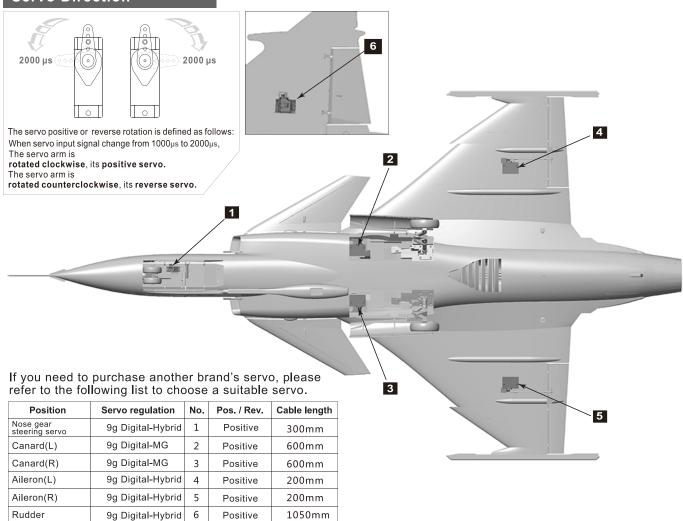




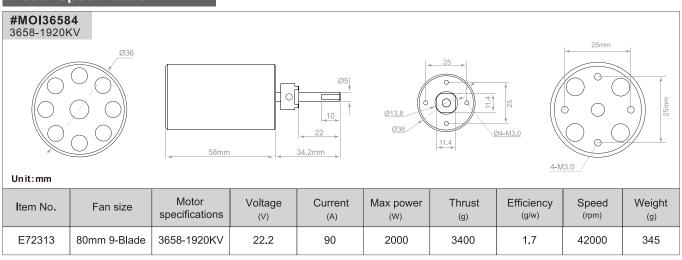


	Canard (Canard wing tip)	Aileron (Measured closest to the fuselage)	Rudder (Measured from the bottom)
Low Rate	H1/H2 27mm/27mm	H1/H2 17mm/17mm	H1/H2 27mm/27mm
	D/R Rate : 70%	D/R Rate : 70%	D/R Rate: 80%
High Rate	H1/H2 35mm/35mm	H1/H2 23mm/23mm	H1/H2 32mm/32mm
	D/R Rate : 100%	D/R Rate : 100%	D/R Rate : 100%

Servo Direction



Motor Specification



感谢您购买飞翼模型80mm JAS-39" 鹰狮"仿真模型飞机。JAS-39战斗机由瑞典萨博公司(SAAB)研制,首飞于1988年,之后向全世界推销,已服役于瑞典、捷克、匈牙利等国。是一款集战斗、攻击、侦察兼具的多功能战斗机。

飞翼模型80mm JAS-39模型,轮廓精准,外形逼真。机长1613mm,翼展882mm,采用EPO材料制作,内嵌碳纤材料加固。各主要部件,均采用螺丝固定的快装结构。在维护和升级方面,提供了便利性。

JAS-39模型飞机,机轮直径约45mm/70mm,前、后起落架使用铝合金制作符合,配合M型(5KG)和L型(13KG)电动涡杆控制器,降落时减震效果明显,适应草地起降。此模型搭载80mm-9叶内转动力组,配备100A无刷电调。起飞滑跑过程中,不易偏航,充沛的动力,有效减小了起飞距离(起飞距离:20~25M)。飞行过程中,动作响应迅速,回馈精准,最大飞行时速达到170KM/H,最高飞行时长约4分钟。这款JAS-39模型,在鸭翼的作用下,低速大仰角时,机体姿态更加稳定,操控性更高,给我们的飞行过程,带来更多精彩的玩法。

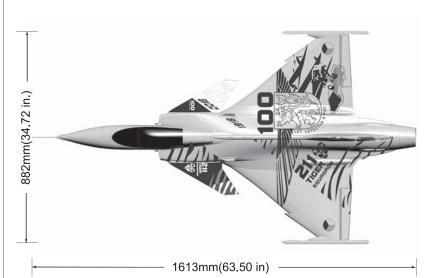
飞翼模型JAS-39模型飞机,选用了捷克空军100周年纪念涂装,使用多块大面积的水贴纸制作完成。此涂装不仅有一定纪念意义,同时在空中有良好的视觉效果,希望您喜欢!

重要提示

- 1.模型飞机不是玩具,操作者需要具备一定的经验;没有经验的初学者,必须在有丰富经验的专业人士指引下,逐步学习!
- 2.在组装之前,必须认真阅读产品说明书,严格按照说明书指示操作。
- 3.飞翼模型及其销售商,对于违反说明书的要求操作而造成的损失、将不负任何法律责任!
- 4.模型飞机的使用年龄必须是14岁以上的儿童或者成人。
- 5.此模型产品使用EPO材料制成,表面喷涂油漆,不可随意使用化学制剂擦拭,否则会损坏模型产品。
- 6.不可以在公共场合、高压线密集区、高速公路附近、机场附近或者其它法律法规明确禁止飞行的场合飞行。
- 7.不可以在雷雨、大风、大雪或者其它恶劣气象环境下飞行。
- 8.模型飞机的电池产品,不可以随意乱扔,乱放。存放时,必须保证周边2M范围内,无易燃、易爆物体。
- 9. 损坏或者报废处理的模型飞机电池,应妥善回收处理,不准随意抛弃,避免自燃而引发火灾。
- 10.在飞场飞行时,应做到妥善处理飞行后所产生的垃圾,不可随意抛弃、焚毁模型及其配件。
- 11.在任何情况下,都必须保证油门杆处于起始位、发射机处于打开状态时,才能连接模型飞机内部的动力电池.
- 12.无论是模型飞机是在正常飞行过程中,或者是在缓慢降落过程中,都不要尝试用手去回收模型。必须等模型降落停稳以后,再进行回收!

注意:模型产品是具一定危险性的产品,请禁止14岁以下的儿童玩耍,14岁以上的儿童,请在有飞行经验的成人指导下使用,无飞行经验的购买者,应当在具有一定电动涵道飞机飞行经验的成人指导下使用!组装模型前,请仔细阅读说明书,按照说明书的要求进行安装.进行调试和飞行时,请根据说明书指示的参数进行调整。

产品基本参数 中文版



⚠ 注意:此处各项参数,均使用本公司配件测试得出,如果使用副厂配件,会有所差异。使用副厂配件时所产生的问题,我们将无法给予技术支持!

标准版

翼载荷: 105 g/dm² 翼面积: 28.6 dm² 舵机: 9g数字混合齿×4 9g数字金属齿×2

电机:3658-1920KV内转电机 涵道风扇:80mm9叶塑料涵道 电调:100A无刷电调BEC5A 起飞重量:2350g(不含电池)

其它说明

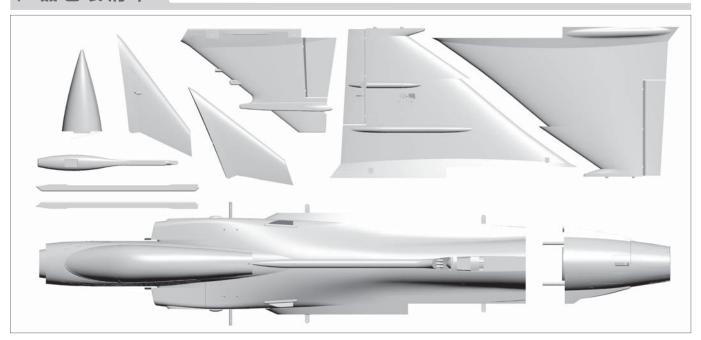
机体材料: EPO, ABS工程塑料副翼:有鸭翼:有

方向舵:有

起落架:电动金属减震起落架舱门:前-全舱门、后-全舱门 飞行员:仿真飞行员 ×1

电池范围: 6S 4000-5200mAh

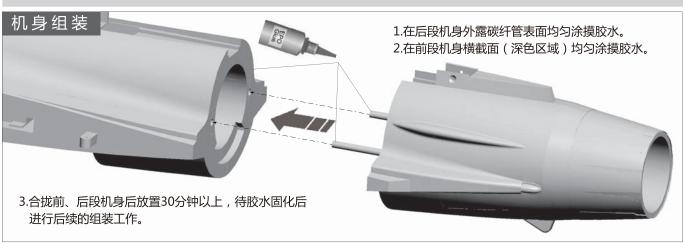
产品包装清单

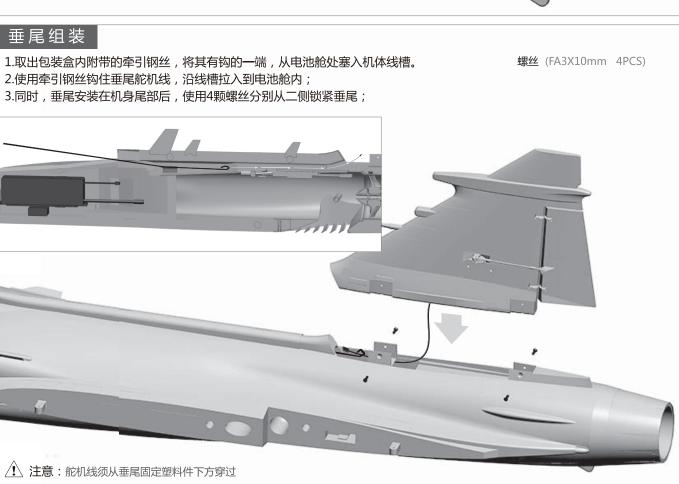


打开产品包装,核对包装清单。(不同配置的版本,包含内容不同!)

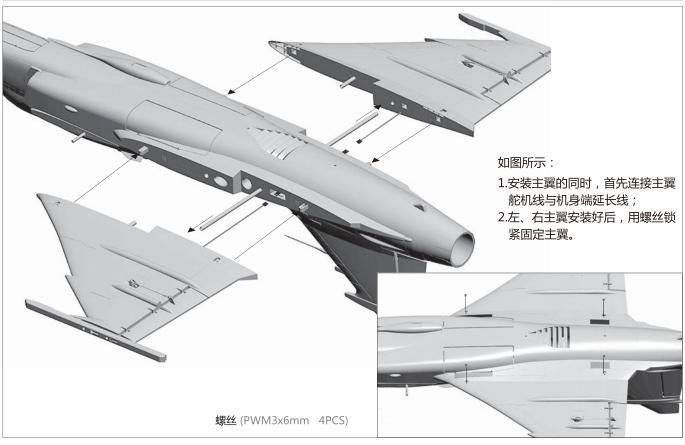
	序号	配件名称	PNP	ARF Plus
	1	前、后机身	预装所有电子设备	预装舵机
	2	主翼	预装所有电子设备	预装舵机
	3	鸭翼	预装所有电子设备	预装舵机
	4	垂尾	预装所有电子设备	预装舵机
	5	挂架	V	1/

序号	配件名称	PNP	AR F Plus
6	座舱、机头罩	V	V
7	说明书	V	V
8	舵面控制钢丝	V	V
9	防滑垫	V	V
10	螺丝、碳纤管	V	V



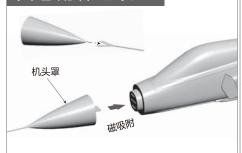






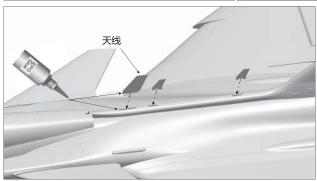


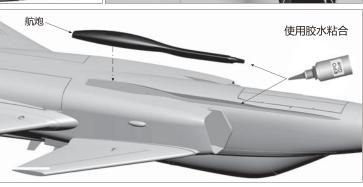
其它配件组装

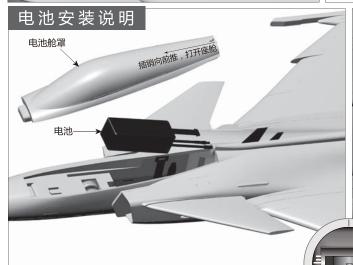












将电池与电调间接前,首先请打开发射机电源,确 认油门杆处于低位。

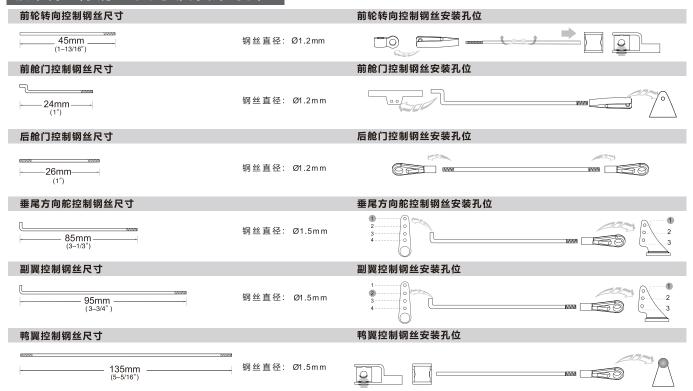
安装电池后,启动油门前,请保证没有任何物体在螺旋桨转动直径以内,以免造成事故和人身伤害!



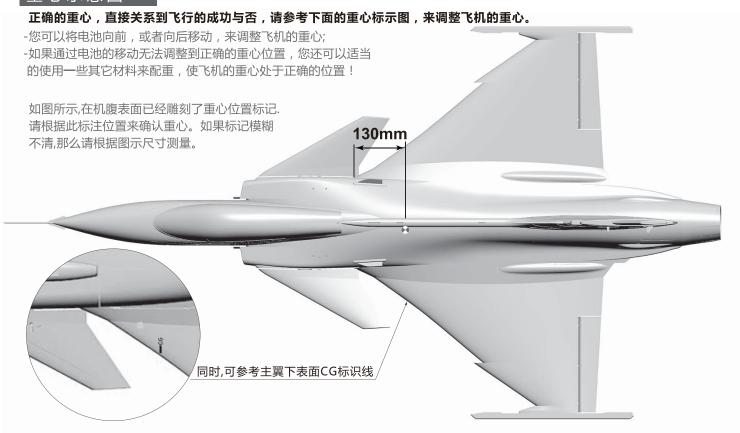
我们建议使用的电池容量和放电倍率如下: 6S 22.2V 4000mAh~6S 22.2V 5200mAh (1pcs)

放电倍率 ≥ 35C

舵面控制钢丝尺寸及安装孔位



重心示意图



PNP测试及设定 中文版

舵面测试

当您按前面的步骤组装好飞机后,连接电池,用遥控器测试每个舵面的工作情况,检查各个舵面是否处于居中位置,是否正常工作!

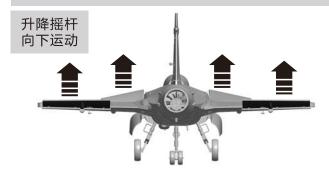
副翼摇杆向左运动

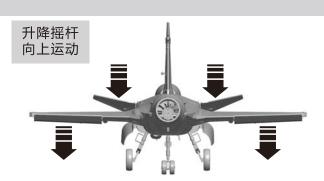
方向舵





升降舵

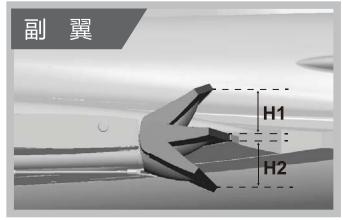


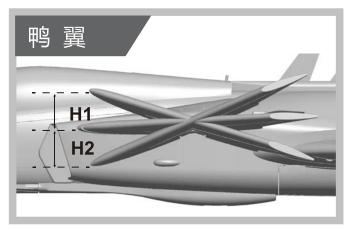


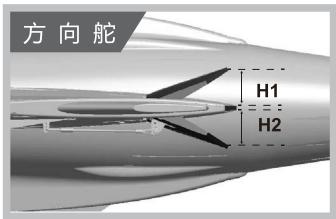
PNP测试及设定 中文版

大、小舵参数

根据我们的测试经验,我们认为,按以下参数来设置大小舵量,将有助于飞行,舵量越大,模型飞机的动作响应更快,动作幅度可以更大。我们建议初次飞行使用大舵量起飞,然后根据个人情况调整到适合您的舵量。



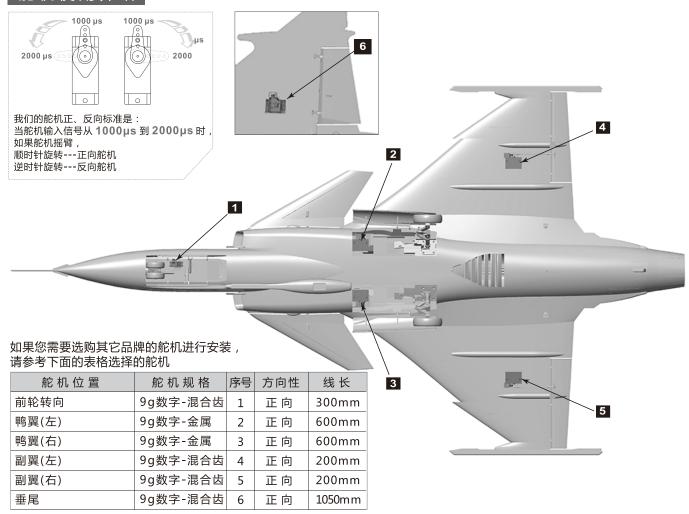




	鸭翼(翼根前端)	副翼 (内侧)	方向舵 (下端)
小舵量	H1/H2 27mm/27mm	H1/H2 17mm/17mm	H1/H2 27mm/27mm
	舵量比率:70%	舵量比率:70%	舵量比率:80%
大舵量	H1/H2 35mm/35mm	H1/H2 23mm/23mm	H1/H2 32mm/32mm
	舵量比率:100%	舵量比率:100%	舵量比率:100%

PNP电子设备介绍 中文版

舵机使用介绍



电机参数

