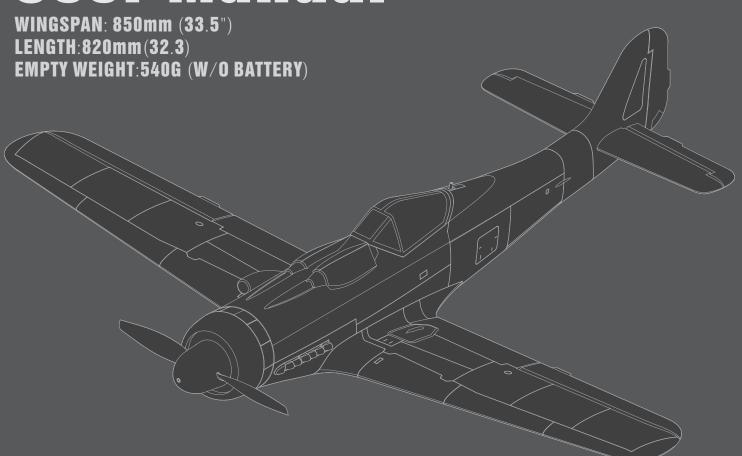


# Fw 190 D-9 Dora User Manual



1~5

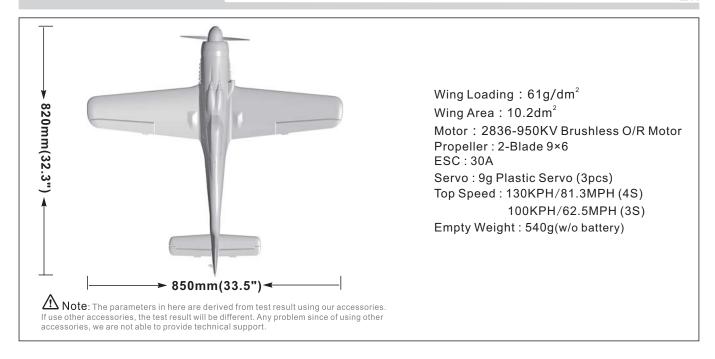
6~10 中









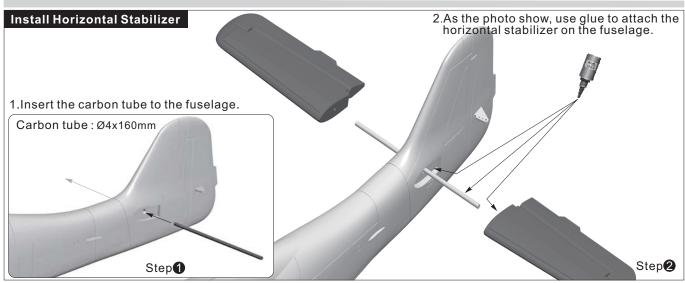


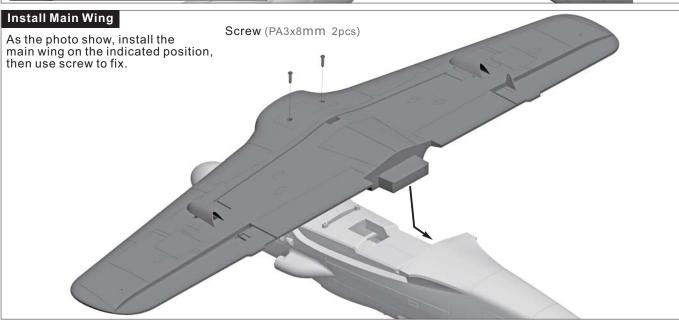
# **Packing List**

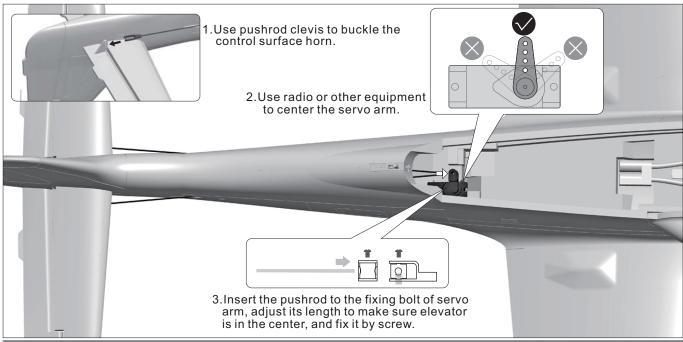
Different equipment include different spareparts. Please refer to the following contents to check your sparepart list.

No.	Name	PNP	ARF Plus	Airframe
1	Fuselage	Pre-installed all electronic parts	Pre-installed servo	No electronic equipment
2	Main wing	V	V	V
3	Horizontal tail	V	V	V

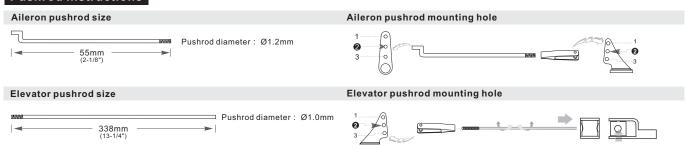
No.	Name	PNP	ARF Plus	Airframe
4	Pushrod set	V	V	V
5	Glue	V	V	V
6	Manual	V	V	V



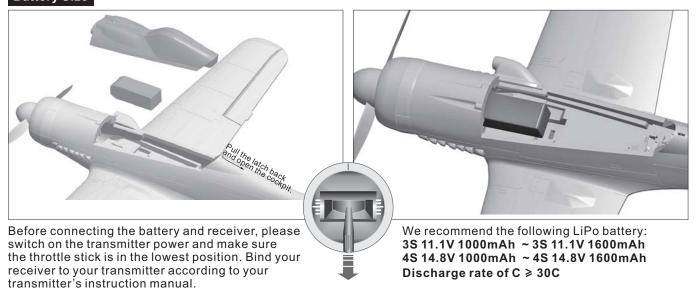




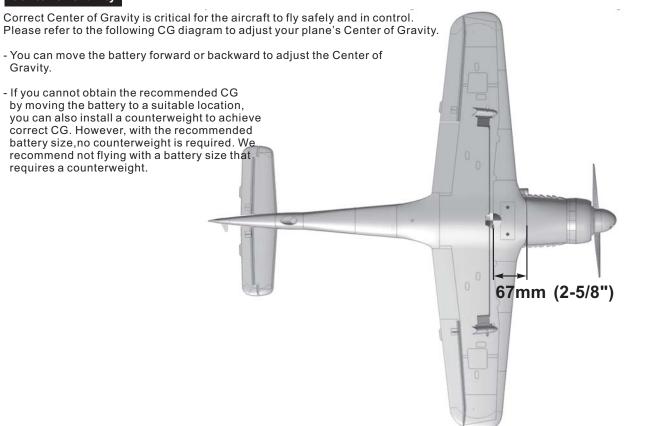
#### **Pushrod Instructions**



#### **Battery Size**

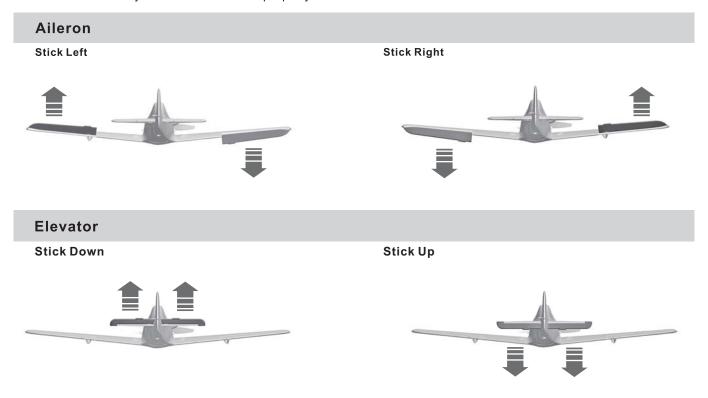


#### **Center of Gravity**



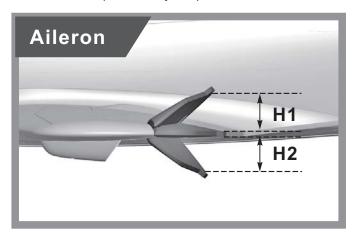
#### **Control Direction Test**

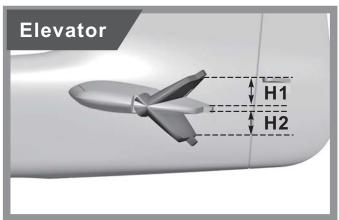
After installed the plane, before flying, we need a fully charged battery and connect to the ESC, then use radio to test and check that every control surface work properly.



#### **Dual Rates**

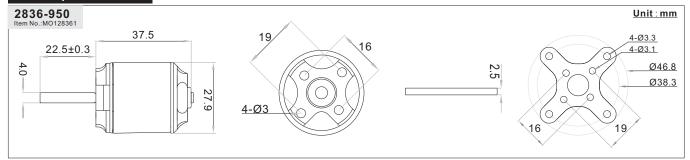
According to our testing experience, use the following parameters to set Aileron/Elevator Rate. Program your preferred Exponential % in your radio transmitter. We recommend using High Rate for the first flight, and switching to Low Rate if you desire a lower sensitivity. On successive flights, adjust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





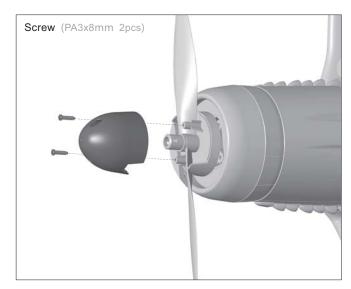
	Aileron(measured closest to the fuselage)	Elevator(measured closest to the fuselage)
Low Rate	H1/H2 11mm/11mm D/R Rate:80%	H1/H2 6mm/6mm D/R Rate:60%
High Rate	H1/H2 13mm/13mm D/R Rate:100%	H1/H2 8mm/8mm D/R Rate:80%

#### Motor Specifications

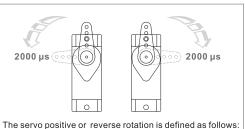


Item No.	Propeller	Motor Specifications ( KV )	Use voltage (V)	Current(A)	Max power (W)	Thrust(g)	Efficiency (g/w)	Rotating speed (rpm)	Weight (g)
MO120261	28361 2-Blade 9×6 283	Blade 9×6 2836-950	11.1	14	950	760	4.9	10500	90
WIO 120301		2030-950	14.8	20	950	1100	3.7	14000	90





#### Servos Introductions



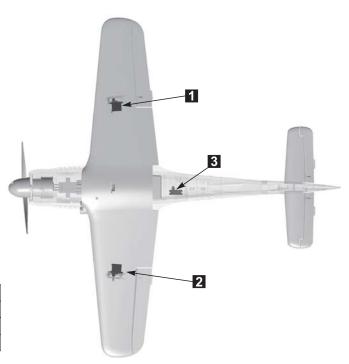
When servo input signal change from 1000µs to 2000µs,

rotated clockwise, its positive servo.
The servo arm is

rotated counterclockwise, its reverse servo.

#### If you need to purchase another brand's servo, please refer to the following list to choose a suitable servo.

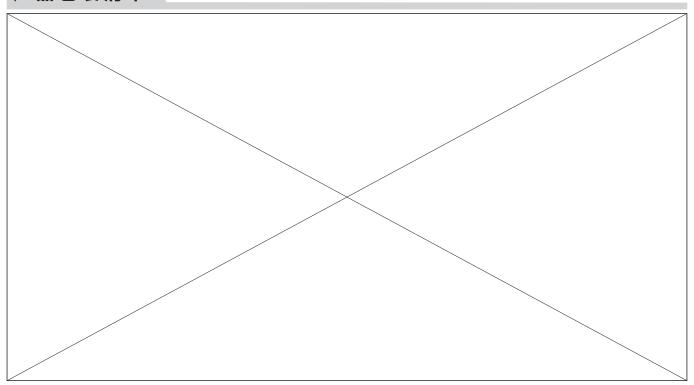
	•			
Position	Servo regulation	No.	Pos./Rev.	Cable length
Aileron(L)	9g plastic servo	1	Positive	300mm
Aileron(R)	9g plastic servo	2	Positive	300mm
Elevator	9g plastic servo	3	Positive	200mm



**产品基本参数** 中文版



## 产品包装清单

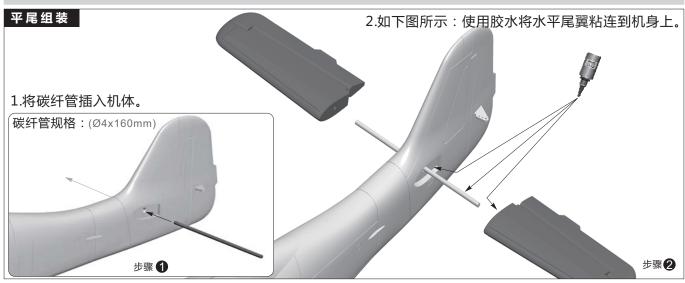


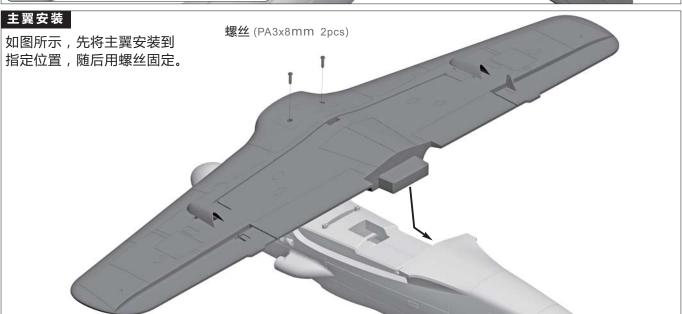
打开产品包装,核对包装清单。(不同配置的版本,包含内容不同!)

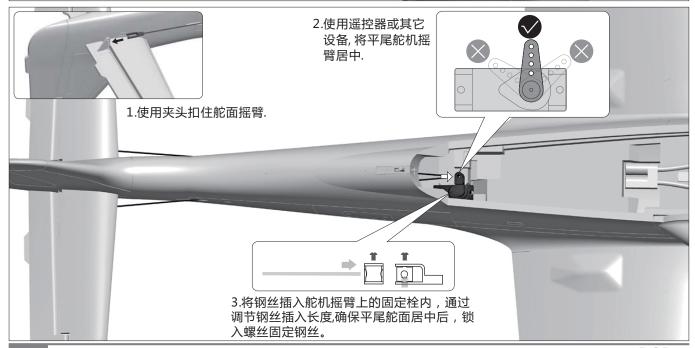
序号	配件名称	PNP	ARF Plus	Airframe
1	机身	预装所有电子设备	预装舵机	不含电子设备
2	主翼	V	V	V
3	平尾	V	V	V

序号	配件名称	PNP	ARF Plus	Airframe
4	舵面控制钢丝	V	V	V
5	胶水	V	V	V
6	说明书	V	1	V

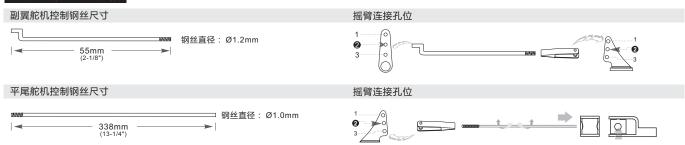
PNP 组装说明 中文版







#### 舵机控制钢丝规格





#### 重心示意图



PNP 组装说明 中文版

#### 舵 面 测 试

向左运动

当您按前面的步骤组装好飞机后,在飞行前,我们需要用一块充饱电的电池,连接到电调。用遥控器测试每个舵面的工作情况,检查是否正常!

# 副翼揺杆







### 升降舵

升降摇杆 向下运动

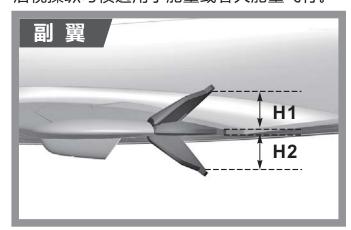


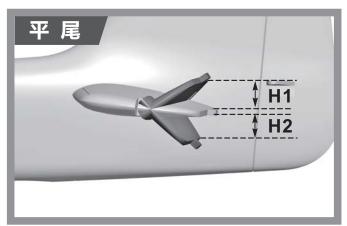
升降摇杆 向上运动



#### 大、小舵参数

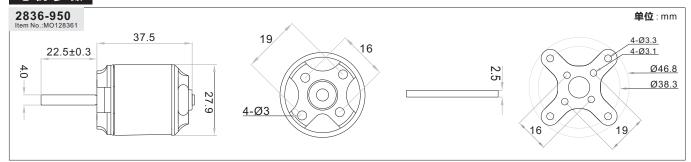
根据我们的测试经验,我们认为,按以下参数来设置大小舵量,将有助于飞行。小舵量飞机的操纵会笨拙些,大舵量飞机的操纵会灵敏些,我们建 初次飞行使用大舵量起飞,然后视操纵习惯选用小舵量或者大舵量飞行。





	副翼(内侧)	升降舵(内侧)
小舵量	H1/H2 11mm/11mm D/R Rate:80%	H1/H2 6mm/6mm D/R Rate:60%
大舵量	H1/H2 13mm/13mm D/R Rate:100%	H1/H2 8mm/8mm D/R Rate:80%

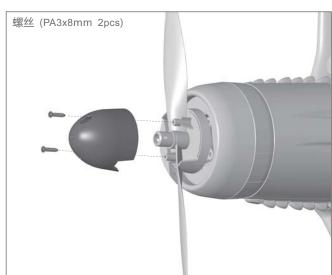
#### 电机参数



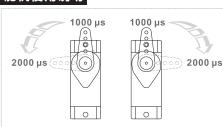
电机编号	螺旋桨 规格	电机规格 (KV)	电压(V)	电流(A)	最大功率 (W)	拉力 (g)	效率比 (g/w)	最大转速 (W)	重量(g)
MO400004   0 Dissis 0.00	2836-950	11.1	14	950	760	4.9	10500	90	
MO128361	2-Blade 9×6	2030-950	14.8	20	950	1100	3.7	14000	90

#### 电 机 安 装





#### 舵机使用说明

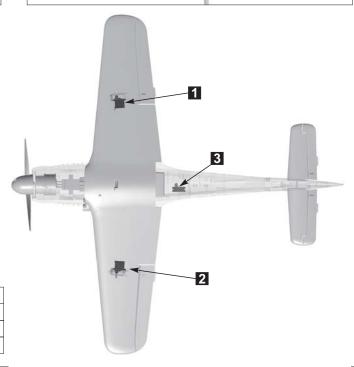


我们的舵机正、反向标准是: 当舵机输入信号从1000µs到2000µs时,

如果舵机摇臂,

顺时针旋转---正向舵机 逆时针旋转---反向舵机

舵机位置	舵机规格	序号	正、反向	舵机线长
主翼(左)	9g 塑料	1	正向	300mm
主翼(右)	9g 塑料	2	正向	300mm
升降舵-机身内部	9g 塑料	3	正向	200mm



#### Note:

- 1. This is not a toy! Operater should have a certain experience, beginners should operate under the guidance of professional players.
- 2.Before install, please read through the instructions carefully and operate strictly under instructions.
- 3. Cause of wrong operation, Freewing and its vendors will not be held responsible 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 damage.
- 6. You should be careful to avoid flying in areas such as public places, high-voltage-intensive areas, near the highway, near the airport or any other place where laws and regulation clearly prohibit.
- 7. You cannot fly in bad weather conditions such as thunderstorms, snows....
- 8. Model plane's battery, don't allowed to put in everywhere. Storage must ensure that there is no inflammable and explosive materials in the round of 2M range.
- 9. Damaged or scrap battery should be properly recycled, it can't discard to avoid spontaneous combustion and fire.
- 10. In flying field, the waste after flying should be properly handled, it can't be abandoned or burned.
- 11. In any case, you must ensure that the throttle is in the low position and transmitter switch on, then it can connect the lipo-battery in aircraft.
- 12.Do not try to take planes by hand when flying or slow landing process. You must wait for landing stop, then carry it.

#### 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!





# **Dongguan Freewing Electronic Technology Ltd HK Freewing Model International Limited**

Add.:FeiYi Building, face to Labor Bureau, Fumin Middle Road, Dalang Town, Dongguan City , Guangdong Province, China
Web: http://www.sz-freewing.com
Email:freewing@sz-freewing.com
Tel: 86-769-82669669 Fax:86-769-82033233

东莞市飞翼电子科技有限公司 香港飞翼模型国际有限公司

地址: 广东省东莞市大朗镇富民中路402-408号飞翼楼四楼

Web: http://www.sz-freewing.com Email:freewing@sz-freewing.com

Tel: 86-769-82669669 Fax: 86-769-82033233