

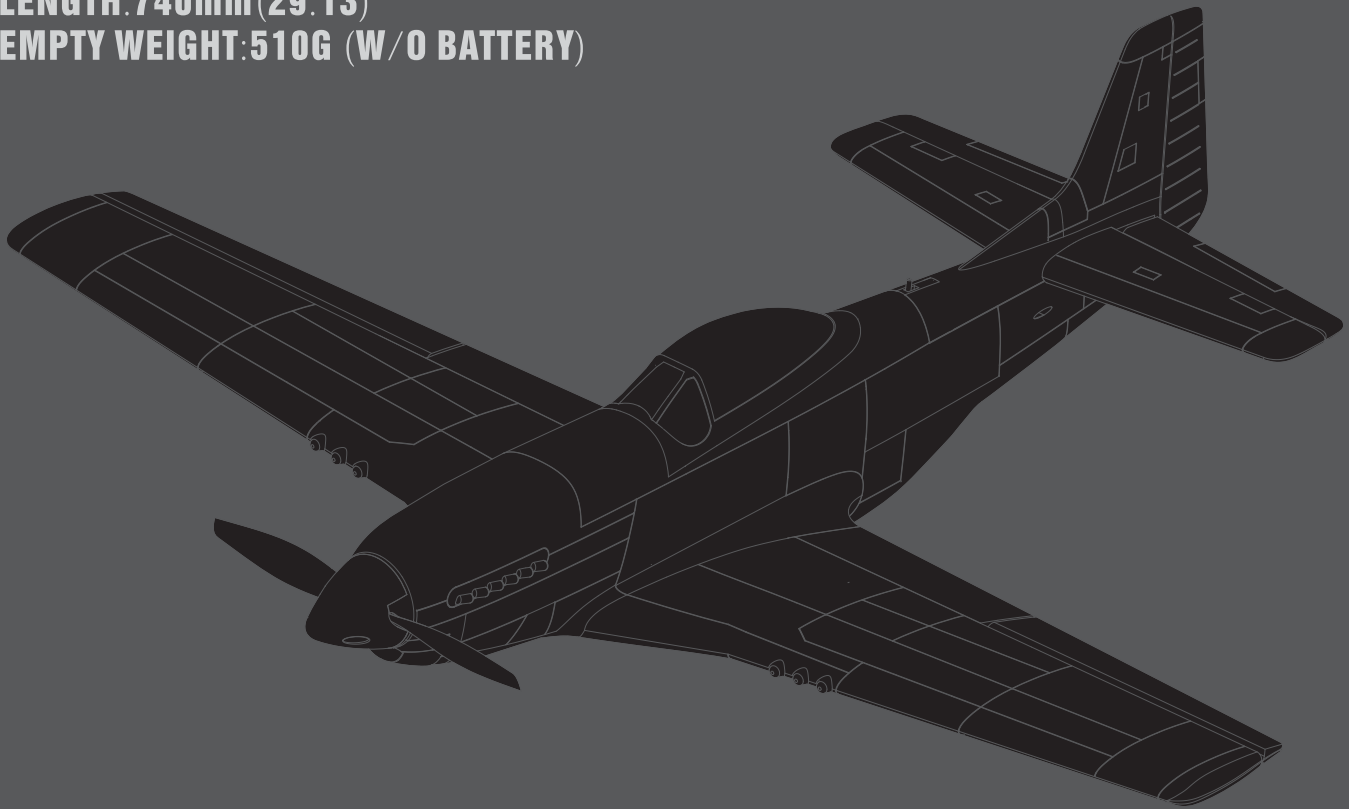


P-51D MUSTANG User Manual

WINGSPAN: 850mm (33.5")

LENGTH: 740mm (29.13)

EMPTY WEIGHT: 510G (W/O BATTERY)



EN 1~5

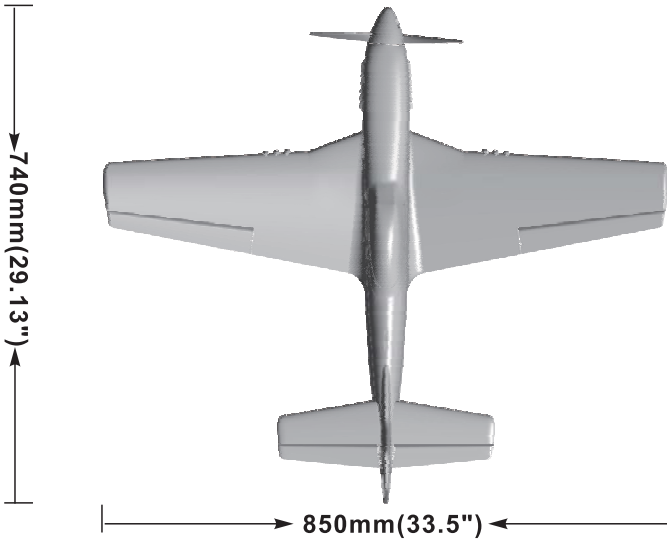
中 6~10



FC CE 0-14
www.sz-freewing.com



MADE IN CHINA



Wing Loading : 53g/dm²
 Wing Area : 11.2dm²
 Motor : 2836-950KV Brushless O/R Motor
 Propeller : 2-Blade 9×6
 ESC : 30A
 Servo : 9g Plastic Servo (3pcs)
 Top Speed : 130KPH/81.3MPH (4S)
 100KPH/62.5MPH (3S)
 Empty Weight : 510g(w/o battery)

⚠ 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.

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	✓	✓	✓
3	Horizontal tail	✓	✓	✓

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

Install Horizontal Stabilizer

1. Insert the carbon tube to the fuselage.

Carbon tube : $\varnothing 4 \times 180 \text{mm}$

Step 1

2. As the photo show, use glue to attach the horizontal stabilizer on the fuselage.

Step 2

Install Main Wing

As the photo show, install the main wing on the indicated position, then use screw to fix.

Screw (PA3x8mm 2pcs)

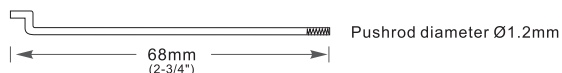
1. Use pushrod clevis to buckle the control surface horn.

2. Use radio or other equipment to center the servo arm.

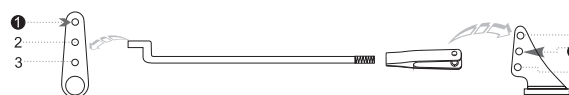
3. Insert the pushrod to the fixing bolt of servo arm, adjust its length to make sure elevator is in the center, and fix it by screw.

Pushrod Instructions

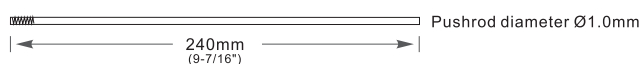
Aileron pushrod size



Aileron pushrod mounting hole



Elevator pushrod size



Elevator pushrod mounting hole



Battery Size



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:
3S 11.1V 1000mAh ~ 3S 11.1V 1600mAh
4S 14.8V 1000mAh ~ 4S 14.8V 1600mAh
Discharge rate of C \geq 30C

Center of Gravity

Correct Center of Gravity is critical for the aircraft to fly safely and in control. Please refer to the following CG diagram to adjust your plane's Center of Gravity.

- You can move the battery forward or backward to adjust the Center of Gravity.
- If you cannot obtain the recommended CG by moving the battery to a suitable location, you can also install a counterweight to achieve correct CG. However, with the recommended battery size, no counterweight is required. We recommend not flying with a battery size that requires a counterweight.



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

Stick Left

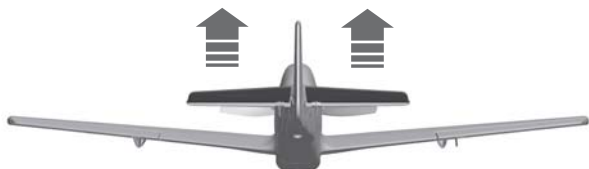


Stick Right

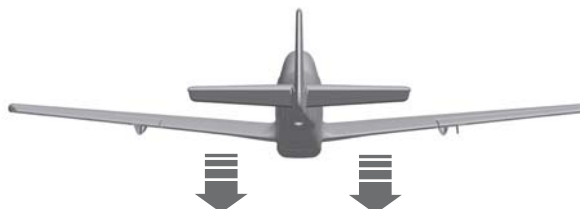


Elevator

Stick Down

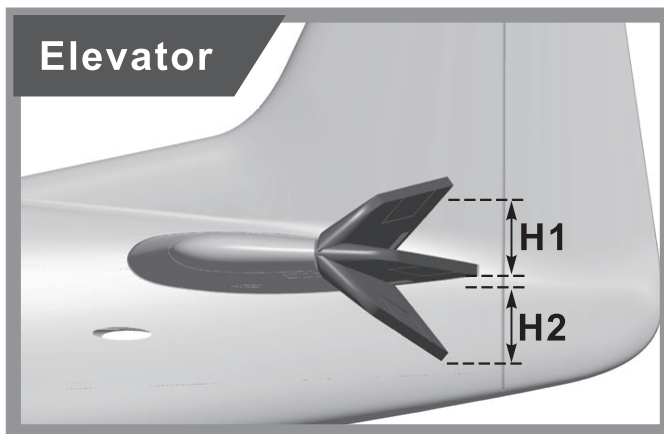
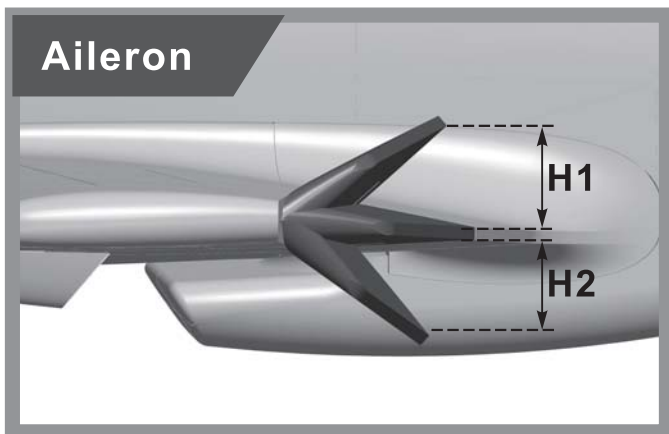


Stick Up



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.

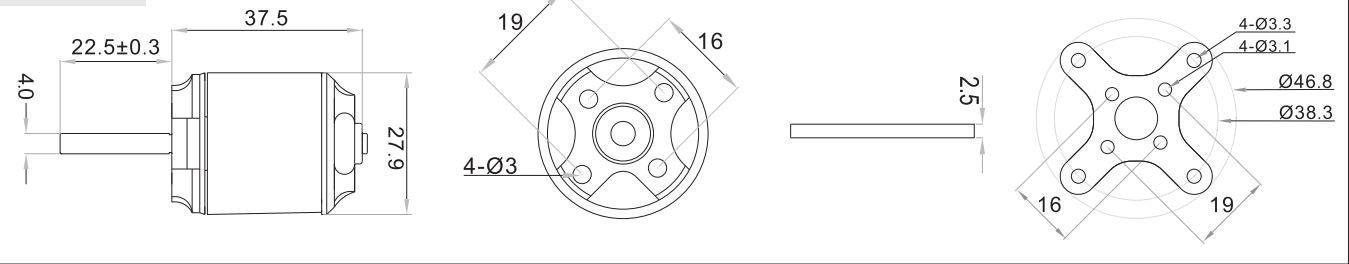


	Aileron(measured closest to the fuselage)	Elevator(measured closest to the fuselage)
Low Rate	H1/H2 14mm/14mm D/R Rate:75%	H1/H2 8mm/8mm D/R Rate:55%
High Rate	H1/H2 17mm/17mm D/R Rate:90%	H1/H2 10mm/10mm D/R Rate:75%

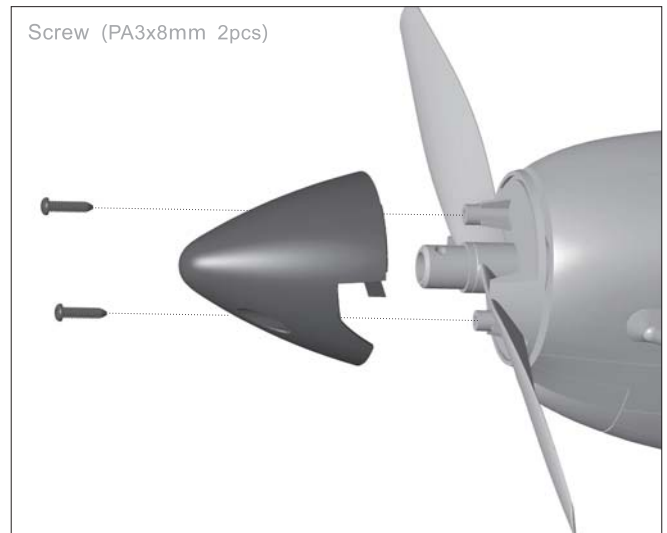
Motor Specifications

2836-950
Item No.: MO128361

Unit : mm

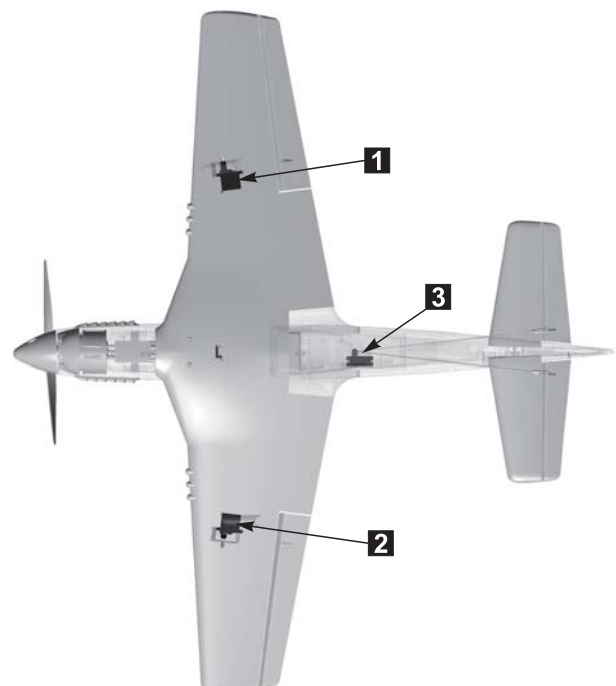


Item No.	Propeller	Motor Specifications (KV)	Use voltage (V)	Current(A)	Max power (W)	Thrust(g)	Efficiency (g/w)	Rotating speed (rpm)	Weight (g)
MO128361	2-Blade 9x6	2836-950	11.1	14	950	760	4.9	10500	90
			14.8	20		1100	3.7	14000	90



Servos Introductions

The servo positive or reverse rotation is defined as follows:
When servo input signal change from 1000μs to 2000μs,
The servo arm is **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

Note:

1. This is not a toy! Operator 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、大雪或者其他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。必须等模型降落平稳以后,再进行回收!



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