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Fms FMM126P

FMS Pitts V2 1400mm RC Aerobatic Biplane

INSTRUCTION MANUAL

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1. Introduction

The FMS Pitts V2 1400mm RC Aerobatic Biplane is a high-performance remote control aircraft designed for aerobatic maneuvers. Built with robust EPO foam, it features a powerful 4258 brushless motor, 50A Hobbywing ESC, and responsive 17g servos, ensuring precise control and exhilarating flight. Its design includes authentic detailing and a large battery bay for extended flight times.



Image: The FMS Pitts V2 1400mm RC Aerobatic Biplane in a dynamic flight pose.

2. Safety Information

Always operate your RC aircraft in a safe and responsible manner. Failure to do so may result in injury or damage

to property. Please observe the following safety guidelines:

- **Read the Entire Manual:** Familiarize yourself with all product features and operating instructions before use.
- **Age Recommendation:** This product is recommended for users 14 years and older.
- **Flight Area:** Fly in open areas away from people, buildings, and other obstacles. Avoid flying near power lines or busy roads.
- **Weather Conditions:** Do not fly in strong winds, rain, or other adverse weather conditions.
- **Pre-Flight Check:** Always perform a thorough pre-flight check to ensure all components are securely attached and functioning correctly.
- **Battery Safety:** Use only recommended batteries and chargers. Follow all battery charging and handling instructions to prevent fire or injury.
- **Propeller Safety:** Keep hands, face, and loose clothing away from the rotating propeller.
- **Maintain Control:** If you lose control of the aircraft, immediately reduce throttle and attempt to regain control.

3. What's in the Box

The FMS Pitts V2 1400mm PNP (Plug and Play) package includes the following components:

- FMS Pitts V2 1400mm Airframe (fuselage, wings, tail sections)
- 4258 Brushless Motor (pre-installed)
- 50A Hobbywing-sourced Electronic Speed Controller (ESC) (pre-installed)
- 17g Servos (pre-installed, 4x)
- Propeller
- Landing Gear
- Wing Struts
- Small parts for assembly (screws, pushrods, etc.)

Note: This PNP version does NOT include a battery, radio transmitter, or charger.



Image: All components of the FMS Pitts V2 1400mm laid out for assembly.

4. Setup & Assembly

The FMS Pitts V2 features an ingeniously designed screw-together mechanism for swift and hassle-free assembly. Follow these steps:

1. **Unpack Components:** Carefully remove all airplane components from the packaging.
2. **Attach Wings:** Securely attach the wings to the fuselage using the provided screw-together mechanism. Ensure proper alignment.
3. **Install Wing Struts:** Slide the wing struts onto the wings and secure them in place.
4. **Install Landing Gear:** Attach the landing gear to the fuselage.
5. **Install Propeller:** Mount the propeller onto the motor shaft.
6. **Install Receiver & Speed Control:** If not pre-installed, install your receiver and speed control.
7. **Connect Servos:** Connect the pre-installed servos to your receiver according to your radio system's instructions.
8. **Insert Battery:** Place your 6S battery (not included) into the oversized battery compartment. Ensure it is secured to prevent shifting during flight.
9. **Center of Gravity (CG):** Verify the aircraft's Center of Gravity (CG) is within the recommended range (refer to specifications section). Adjust battery position if necessary.
10. **Radio Setup:** Bind your radio transmitter to the receiver and set up control throws as recommended by your radio system's manual.

An oversized battery bay accommodates most 6S packs with ease- giving the pilot ample power to attempt all aerobatic maneuvers. Hobbywing 50A ESC provides bulletproof performance!



Power



4258 brushless motor



50A Hobbywing-sourced ESC



17g servos

Image: Close-up view of the 4258 brushless motor, 50A Hobbywing ESC, and 17g servos.

5. Operating Instructions

The FMS Pitts V2 is designed for high-powered aerobatic performance. Its robust EPO construction ensures durability, while authentic detailing enhances the flying experience.

Pre-Flight Checks:

- Ensure battery is fully charged and securely installed.
- Check all control surfaces (ailerons, elevator, rudder) for free movement and correct direction.

- Verify propeller is securely attached and undamaged.
- Confirm radio signal strength and range.

Takeoff:

Position the aircraft into the wind on a clear runway. Gradually increase throttle to full, applying slight up-elevator as needed for a smooth lift-off. The powerful motor will provide ample thrust for quick takeoffs.

Flight:

The Pitts V2 is highly maneuverable, capable of a wide range of aerobatic stunts. Its responsive 17g servos allow for precise control. Practice basic maneuvers before attempting advanced aerobatics. The large capacity battery bay accommodates powerful 6S packs for extended flight times.

Landing:

Approach the runway into the wind. Gradually reduce throttle and maintain a controlled descent. Apply slight up-elevator just before touchdown for a soft landing. The robust landing gear is designed to handle various landing conditions.



Images: Various dynamic flight shots of the FMS Pitts V2 1400mm RC Biplane.

Official Product Video:

Video: FMS 1400mm Pitts V2 - Flight and Features. This video showcases the aircraft's flight capabilities and key features.

6. Maintenance

Regular maintenance will ensure the longevity and optimal performance of your FMS Pitts V2.

- **Cleaning:** After each flight, wipe down the aircraft with a soft, dry cloth to remove dirt, dust, or moisture.
- **Inspection:** Regularly inspect the airframe for any cracks, dents, or damage to the EPO foam. Check control surfaces, hinges, and pushrods for wear or looseness.
- **Propeller:** Inspect the propeller for nicks, cracks, or bends. Replace if damaged to ensure balanced flight and prevent motor strain.
- **Motor & ESC:** Ensure the motor spins freely and the ESC connections are secure. Avoid overheating the motor and ESC.
- **Servos:** Check servos for smooth operation and ensure they are securely mounted.
- **Battery Care:** Store batteries in a cool, dry place. Do not overcharge or over-discharge LiPo batteries.

7. Troubleshooting

If you encounter issues with your FMS Pitts V2, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Aircraft does not respond to controls	Unbound receiver, low transmitter/receiver battery, damaged wiring.	Re-bind receiver, check battery levels, inspect and repair wiring.
Motor not spinning	Disconnected motor/ESC, faulty ESC, low battery.	Check all connections, test ESC, charge/replace battery.
Poor flight performance/unstable	Incorrect CG, control surface trim, damaged airframe.	Adjust CG, trim control surfaces, inspect and repair airframe.
Short flight times	Battery not fully charged, old/damaged battery.	Ensure full charge, replace old batteries.

8. Specifications

Feature	Value
Product Dimensions	47.5 x 19.5 x 12.5 inches
Item Weight	14 pounds
ASIN	B089Q56CGH
Item Model Number	FMM126P
Manufacturer Recommended Age	14 years and up
Manufacturer	FMS model



Wingspan:	1400mm	Aileron:	yes
Overall length:	1298mm	Elevator:	yes
Flying weight:	~3500g	Rudder:	yes
Motor size:	4258 KV-460	Flaps:	no
ESC:	50A	Retracts:	no
Servo:	17g x 4	Approx. flying duration:	5minutes
Radio:	4 Channel	Experience level:	Intermediate
CG (center of gravity):	155-165mm	Assembly time:	10minutes
Prop size:	15*9,2blades	Wing load:	72.5 g/dm ²
Recommended battery:	22.2V 4000mAh 35c	Wing area:	48.3dm ²

Image: Detailed specifications table for the FMS Pitts V2 1400mm.

9. Warranty & Support

FMS is committed to providing quality products and support. For any inquiries or issues, please refer to the following:

- **Return Policy:** This product is subject to a 30-day refund/replacement return policy.
- **Damaged Package:** If your package was damaged during shipping, please contact FMS support immediately. Keep all packing material and original boxes. Provide photos of the damaged product and box.
- **Wrong Product Received:** If you received the wrong product, contact FMS support. Keep all packing material and original boxes. The incorrect item must be returned new and unused (FMS will cover return shipping).
- **Manufacturer:** FMS model
- **Brand Store:** Visit the [FMS Store on Amazon](#) for more products and support.

