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Fms FMM090P1X

Fms 2000mm Beaver V2 RC Plane Instruction Manual

Model: FMM090P1X | Brand: Fms

INTRODUCTION

The Fms 2000mm Beaver V2 is a 6-channel remote control airplane designed for an immersive and enjoyable flight experience. This manual provides essential information for assembly, operation, and maintenance to ensure safe and optimal performance of your aircraft.

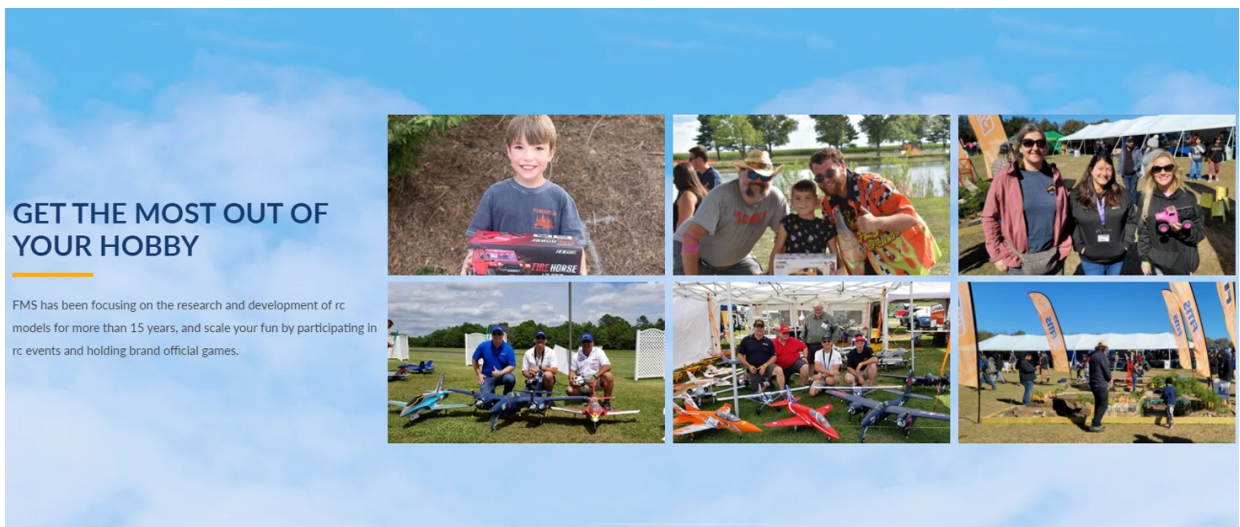


Image: The Fms 2000mm Beaver V2 RC Plane, an attractive red scheme aircraft with optional floats.

- **Realistic Flight Experience:** Features an eye-catching red color scheme, transparent windows, and a realistic cockpit design for an immersive flying experience.
- **Outstanding Performance:** Offers excellent controllability and STOL (Short Takeoff and Landing) capabilities, suitable for both training and aerobatic maneuvers.
- **Enhanced Playability:** Equipped with realistic ailerons, flaps, hollow wing structure, landing lights, navigation lights, and strobe lights for lifelike night flights. Optional floats and a glider tow hook increase versatility.
- **All-New Upgrades:** Newly designed wheels with ball bearings reduce rolling resistance and withstand tough landing conditions. Oversized tires ensure stable operation on various terrains.
- **Convenient Transportation Design:** Quick-release connector system for wings and fuselage simplifies storage and transportation.

SETUP AND ASSEMBLY

Follow these steps to assemble your Fms 2000mm Beaver V2 RC Plane. This model is a Plug and Play (PNP) version, meaning it comes with the ESC, motor, and servos pre-installed. You will need to provide your own 6-channel receiver, Li-Po 22.2V 4000mAh battery, and a compatible charger.

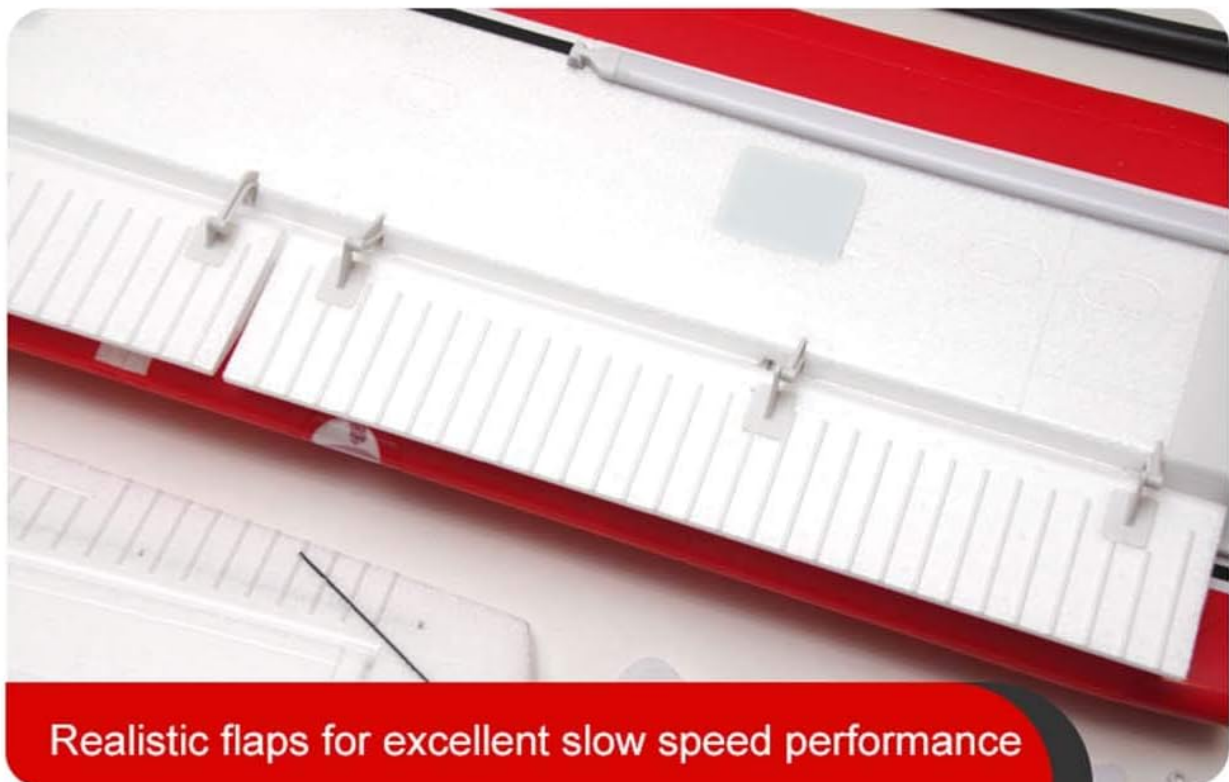
1. Purchase a 6-channel receiver, a Li-Po 22.2V 4000mAh battery, and a compatible charger.
2. Connect the receiver to the plane's control surfaces.
3. Install the battery in the oversized battery bay.
4. Assemble the plane by screwing together the wings and fuselage.
5. The plane is now ready to fly.



Image: Detailed view of the wing and fuselage connectors, which eliminate the need for individual servo leads, and the robust metal landing gear designed for durability.



LED landing ,navigation and strobe lights pre-installed



Realistic flaps for excellent slow speed performance

Image: Close-up of the pre-installed LED landing, navigation, and strobe lights, along with the realistic flaps for enhanced slow-speed performance.

OPERATING INSTRUCTIONS

The Fms 2000mm Beaver V2 is designed for ease of control and offers stable flight characteristics. Familiarize yourself with the controls before your first flight.

- **Pre-Flight Check:** Ensure all control surfaces (ailerons, elevator, rudder) move freely and correctly in response to your transmitter inputs. Check battery charge and secure installation.
- **Takeoff:** For ground takeoffs, ensure a flat surface. Apply throttle gradually and use rudder for directional control. For hand launches, hold the aircraft firmly, apply full throttle, and gently toss it forward into the wind.
- **Flight Controls:**
 - **Ailerons:** Control roll (left/right banking).
 - **Elevator:** Controls pitch (nose up/down).
 - **Rudder:** Controls yaw (nose left/right) and steering on the ground.
 - **Throttle:** Controls motor speed and altitude.
 - **Flaps:** Use flaps for slower flight speeds during takeoff and landing.
- **Landing:** Approach into the wind. Reduce throttle gradually and use elevator to maintain a gentle descent. Apply a small amount of throttle (around 10%) to maintain propeller rotation and control, rather than cutting it completely, to avoid a sudden dive. Flare gently just above the ground to achieve a smooth touchdown.

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Video: FMS 2000mm DH-2 Beaver V2 - Features and Flight. This video demonstrates the aircraft's flight characteristics and key features, including takeoff, maneuvers, and landing.

MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your Fms 2000mm Beaver V2.

- **Post-Flight Inspection:** After each flight, inspect the aircraft for any damage, loose connections, or worn parts. Check the propeller for cracks or chips.
- **Cleaning:** Clean the aircraft body with a soft, dry cloth. Avoid using harsh chemicals that may damage the foam material.
- **Battery Care:** Always store Li-Po batteries at a storage charge (around 3.8V per cell) when not in use for extended periods. Do not overcharge or over-discharge batteries.
- **Control Surface Check:** Periodically check the hinges and linkages of all control surfaces for wear or looseness. Ensure servos operate smoothly.
- **Landing Gear:** Inspect the landing gear for any bends or damage, especially after rough landings. The newly designed wheels with ball bearings are built to withstand tough conditions, but regular checks are still recommended.

TROUBLESHOOTING

Here are some common issues and their potential solutions:

Problem	Possible Cause	Solution
Aircraft does not respond to controls.	Unbound receiver, low transmitter/receiver battery, incorrect wiring.	Ensure receiver is bound to transmitter. Check and charge all batteries. Verify all connections are secure.
Motor not spinning.	Disconnected motor/ESC, low battery, ESC not armed.	Check motor and ESC connections. Ensure battery is charged. Follow ESC arming procedure (usually throttle to minimum, then advance).
Aircraft pulls to one side during takeoff.	Incorrect trim settings, bent landing gear, uneven thrust.	Adjust trim on transmitter. Inspect landing gear for damage. Check propeller balance.
Short flight times.	Battery not fully charged, old/damaged battery, aggressive flying.	Ensure battery is fully charged. Replace old batteries. Practice smoother throttle management.

SPECIFICATIONS

Key technical specifications for the Fms 2000mm Beaver V2 RC Plane:



Wingspan:	2000mm	Aileron:	Yes
Overall length:	1304mm	Elevator:	Yes
Flying weight:	~3800g	Rudder:	Yes
Motor size:	4285-550KV	Flaps:	Yes
ESC:	60A	Retracts:	No
Servo:	17g*6	Approx. flying duration:	8 minutes
Radio:	6Channel	Experience level:	Intermediate
CG (center of gravity):	70-75mm	Assembly time:	10 minutes
Prop size:	15*9,2blades	Wing load:	71.1g/dm ²
Recommended battery:22.2V 4000MAH 25C		Wing area:	53.4dm ²

Image: Detailed specifications table for the Fms 2000mm Beaver V2.

- **Brand Name:** Fms
- **Model Name:** Beaver V2
- **Model Number:** FMM090P1X
- **Wingspan:** 2000mm (78 inches)
- **Overall Length:** 1304mm
- **Flying Weight:** ~3800g
- **Motor Size:** 4285-550KV
- **ESC:** 60A
- **Servo:** 17g*6
- **Radio:** 6 Channel (required, not included)
- **CG (Center of Gravity):** 70-75mm

- **Prop Size:** 15*9, 2 blades
- **Recommended Battery:** 22.2V 4000MAH 25C (required, not included)
- **Approx. Flying Duration:** 8 minutes
- **Experience Level:** Intermediate
- **Assembly Time:** 10 minutes
- **Wing Load:** 71.1g/dm²
- **Wing Area:** 53.4dm²
- **Material Type:** Foam
- **Included Components:** Motor, Speed Controller, Servos
- **Are Batteries Required:** Yes (not included)
- **Is Assembly Required:** Yes

WARRANTY AND SUPPORT

For any issues or support, please refer to the following information:

- **Return Policy:** This product is eligible for a 30-day refund/replacement return policy.
- **Damaged During Shipping:** If your package was damaged during shipping, please contact customer support immediately. Have photos of the damaged product and box ready.
- **Incorrect Product Received:** If you received the wrong product, keep all packing material and original boxes. The incorrect item will need to be returned (FMS will cover return shipping costs), and the correct item will be shipped once the new, unused product is returned.
- **Contact:** For further assistance, please visit the Fms Store on Amazon or refer to the contact information provided in your product packaging.