

## Fms 1400MM Kingfisher

# Fms 1400MM Kingfisher RC Airplane Trainer Manual

Model: 1400MM Kingfisher

## 1. INTRODUCTION

This manual provides essential information for the assembly, operation, and maintenance of your Fms 1400MM Kingfisher RC Airplane Trainer. Please read it thoroughly before operating the aircraft to ensure safe and optimal performance.

The Fms 1400MM Kingfisher is a versatile RC airplane trainer designed for various environments, featuring quick assembly and multiple landing gear options.

## 2. SAFETY PRECAUTIONS

- Always operate in open areas away from people, buildings, and obstacles.
- Ensure all components are securely fastened before each flight.
- Check battery levels of both the aircraft and transmitter before flying.
- Do not fly in strong winds or adverse weather conditions.
- Keep hands clear of the propeller when the battery is connected.
- Adult supervision is recommended for users under 14 years of age.

## 3. SETUP AND ASSEMBLY

The Kingfisher features a user-friendly snap-on structure for quick assembly. The landing gear installation requires screws for added stability.

### 3.1 Unboxing and Component Identification

Carefully remove all components from the packaging. Verify that all parts are present according to the packing list.

*Video: FMS 1500MM Cessna 182 Unboxing. This video demonstrates the unboxing process for a similar FMS model, providing*

### 3.2 Landing Gear Installation

The Kingfisher includes three sets of landing gears: oversized wheels for grass and gravel, floats for water, and skis for snowy conditions. Install the desired landing gear set using the provided screws for stability.

*Video: FMS 1500mm Maule Installation. This video illustrates the installation process for a similar FMS model, including landing gear attachment, which can guide the assembly of your Kingfisher.*

### 3.3 Wing and Tail Assembly

The main wings and tail sections typically snap into place. Ensure all connections are secure. Connect any necessary servo leads from the wings to the fuselage.

### 3.4 Reflex V3 Flight Controller

The aircraft comes with a Reflex V3 flight controller pre-installed. This system assists in flight stability and control. Refer to the Reflex V3 manual for detailed configuration and flight mode settings.

## 4. OPERATING INSTRUCTIONS

The Fms Kingfisher is designed as a multipurpose trainer, offering stable flight characteristics suitable for various skill levels.

### 4.1 Pre-Flight Checks

- Ensure the battery is fully charged and securely installed.
- Verify all control surfaces (ailerons, elevator, rudder) move freely and correctly in response to transmitter inputs.
- Check propeller for any damage and ensure it is securely attached.
- Confirm the Reflex V3 flight controller is initialized and functioning correctly.

### 4.2 Takeoff

With the appropriate landing gear installed, position the aircraft into the wind. Gradually increase throttle and apply slight elevator input as needed to achieve lift-off. The Kingfisher is capable of short takeoffs.



*Image: Fms Kingfisher with wheels in flight, demonstrating its capability for land-based operations.*

### 4.3 Flight Control

The Reflex V3 flight controller provides stability, making it easier to control. The aircraft is equipped with a Predator 40A ESC and a 3536-KV850 motor for powerful performance.

*Video: FMS 1220mm Ranger Flight. This video showcases the flight performance of a similar FMS trainer aircraft, illustrating stable flight and maneuverability.*



*Image: Fms Kingfisher performing an inverted flight maneuver, highlighting its aerobatic capabilities.*

## 4.4 Landing

Approach the landing area into the wind. Reduce throttle and gradually decrease altitude. Maintain control with elevator and ailerons, aiming for a smooth touchdown. The oversized wheels are suitable for various terrains.



*Image: Fms Kingfisher equipped with floats, demonstrating its water landing and takeoff capabilities.*



*Image: Fms Kingfisher fitted with skis, showcasing its adaptability for snow and ice operations.*

## 5. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your Kingfisher.

- **Cleaning:** After each flight, wipe down the aircraft with a soft, dry cloth to remove dirt, dust, or moisture.
- **Component Inspection:** Regularly check all screws, linkages, and control surfaces for looseness or damage. Tighten or replace as necessary.
- **Motor and Propeller:** Inspect the propeller for cracks or chips. Replace damaged propellers immediately. Ensure the motor mount is secure.
- **Battery Care:** Store batteries in a cool, dry place. Do not overcharge or over-discharge. Follow manufacturer guidelines for battery charging and storage.
- **EPO Material:** The aircraft is constructed from durable EPO material. Minor dents or creases can often be repaired with hot water or a heat gun (use caution).

## 6. TROUBLESHOOTING

This section addresses common issues you might encounter with your Fms Kingfisher.

Problem	Possible Cause	Solution
Aircraft does not respond to controls	Transmitter not bound, low battery (aircraft/transmitter), loose connections.	Re-bind transmitter, charge batteries, check all wiring connections.
Poor flight stability	Incorrect CG (Center of Gravity), damaged control surfaces, Reflex V3 settings.	Adjust CG, inspect and repair/replace damaged parts, verify Reflex V3 calibration.
Insufficient power during flight	Low battery, damaged propeller, motor/ESC issue.	Charge battery, replace propeller, inspect motor/ESC for damage.
Landing gear issues (e.g., ripping out)	Hard landings, insufficient reinforcement.	Practice smoother landings. Consider reinforcing the landing gear mount with stronger materials if issues persist.
Defective servo	Manufacturing defect, damage during use.	Contact customer support for replacement or replace the servo.

## 7. SPECIFICATIONS

Feature	Detail
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Feature	Detail
Model	1400MM Kingfisher
Brand	Fms
ESC	Predator 40A
Motor	3536-KV850
Recommended Battery	11.1V 2200mAh 35C (Purchase separately)
Assembly Time	Approximately 1 minute (snap-on structure, excluding landing gear screws)
Landing Gear Options	Oversized wheels, floats, skis
Material	Durable EPO
Special Features	Towing capabilities, reserved FPV mounting base, Reflex V3 Flight Controller
Item Weight	8.93 pounds
Package Dimensions	37.4 x 16 x 11 inches
Manufacturer Recommended Age	14 years and up

## 8. WARRANTY AND SUPPORT

For warranty claims, returns, or technical support, please refer to the seller's return policy or contact Fms customer service directly. Keep your purchase receipt as proof of purchase.

If your package was damaged during shipping or you received the wrong product, please retain all packing material and original boxes. Provide photos of the damaged product and packaging when contacting support.