Fms FMS138R-REFV2

FMS Piper PA-18 Super Cub 1300MM RC Airplane Instruction Manual

Model: FMS138R-REFV2 | Brand: Fms

Introduction

The FMS Piper PA-18 Super Cub is a high-performance, ready-to-fly (RTF) remote control airplane designed for both beginners and experienced pilots. This 1300MM (52") model features advanced capabilities such as the Reflex V2 stabilization system, preinstalled navigation and landing lights, and robust construction for versatile operation. This manual provides essential information for assembly, operation, maintenance, and troubleshooting to ensure a safe and enjoyable flying experience.

A detailed view of the FMS Piper PA-18 Super Cub RC airplane, showcasing its white and grey livery with black accents and large wheels.

An informational graphic describing the 1300MM Piper PA-18 Super Cub as a two-seat, single-engine monoplane, with over 9,000 built and commonly used for bush flying, banner towing, and glider towing.

What's Included in the Box

Your FMS Piper PA-18 Super Cub RTF package includes the following components:

- Pre-assembled Piper PA-18 Super Cub Airframe (wings, fuselage, tail)
- Transmitter (Remote Control)
- Receiver (Pre-installed)
- 1 Lithium Polymer Battery
- Battery Charger
- Preinstalled Navigation and Landing Lights
- Oversized Pneumatic Rubber Tires
- CNC Metal Landing Gear Structure

- Product Manual (this document)

	RTF	PNP
ESC	✓	✓
Motor	✓	✓
Servos	✓	✓
Transmitter	✓	✗
Receiver	✓	✗
Battery	✓	✗
Charger	✓	✗

An overhead view showing the disassembled components of the FMS Piper PA-18 Super Cub, including the fuselage, wings, tail sections, landing gear, and various small parts, ready for assembly.

Setup and Assembly

The FMS Piper PA-18 Super Cub is designed for screw-together assembly, making setup straightforward. Follow these steps to prepare your aircraft for flight.

1. Wing Installation

Carefully slide the main wings onto the fuselage. Secure them using the provided screws. Ensure all connections are firm.

2. Tail Section Assembly

Attach the horizontal and vertical stabilizers to the rear of the fuselage. Connect any control linkages as per the diagrams in the physical manual.

3. Landing Gear Attachment

The CNC metal landing gear structure is designed for durability. Attach the landing gear to the designated points on the fuselage. The oversized pneumatic rubber tires are pre-installed on the landing gear.

A close-up image highlighting the large 120mm pneumatic rubber tire, emphasizing its size and suitability for all-terrain operations.

4. Battery Charging and Installation

Before first use, fully charge the included Lithium Polymer battery using the provided charger. Refer to the charger's instructions for safe charging practices. Once charged, install the battery securely in the aircraft's battery compartment.

5. Transmitter Setup

Ensure the transmitter has fresh batteries. Power on the transmitter before powering on the aircraft. Bind the transmitter to the receiver if not already bound (refer to the physical manual for binding instructions).

Operating Instructions

The Piper PA-18 Super Cub is equipped with the Reflex V2 stabilization system and other features for enhanced flight control.

Pre-Flight Checks

- Verify all control surfaces (ailerons, elevator, rudder) move freely and in the correct direction relative to stick inputs.
- Check battery levels in both the aircraft and transmitter.
- Ensure the propeller is securely attached and free from damage.
- Confirm navigation and landing lights are functional.

Flight Modes (Reflex V2)

The Reflex V2 system offers different flight modes (e.g., Stabilizer, Dynamic, Off) to assist pilots. Consult the physical manual for detailed instructions on switching between modes and their specific characteristics.

Takeoff

Choose an open, clear area for takeoff. Advance throttle smoothly and apply slight up-elevator as the aircraft gains speed.

The FMS Piper PA-18 Super Cub RC airplane soaring through a clear blue sky, demonstrating its flight capabilities.

Flight Control

Use the transmitter sticks to control the aircraft. The Reflex V2 system will provide stability, especially in windy conditions.

Reverse Propeller Function

This model features a propeller that can be operated in reverse, offering more flexible and versatile control, particularly useful for short landings or ground maneuvering.

Wingspan	1300mm /51.2in	Recommended Battery	11.1V 2200mAh 25C
Overall Length	986mm /38.8in	Aileron	Yes
Flying Weight	Around 1450g	Retracts	No
Motor Size	3536-KV850	Flaps	Yes
ESC	40A	Approx. Flying Duration	5minutes
Servo	9g*6	Experience Level	Intermediate
Radio	6CH Channel	Assembly Time	10minutes
CG (center of gravity)	60-70mm(From leading edge)	Wing Load	48g/dm^2 (0.096oz/in^2)
Prop Size	11*7,2-blade	Wing Area	30dm^2(464.7sq.in^2)

An illustration showing the FMS Piper PA-18 Super Cub with arrows indicating the forward and reverse rotation of the propeller, highlighting the 40A ESC (Electronic Speed Controller) that enables this feature.

Landing

Approach the landing strip at a controlled speed. Reduce throttle and gently flare the aircraft just before touchdown. The oversized tires are designed to handle various terrains.

Maintenance

Regular maintenance ensures the longevity and performance of your RC airplane.

- **Cleaning**: After each flight, wipe down the airframe to remove dirt and debris.
- **Propeller Inspection**: Check the propeller for any nicks, cracks, or damage. Replace if necessary.
- **Control Surface Check**: Ensure all hinges and linkages are free-moving and secure.
- **Battery Care**: Store LiPo batteries in a cool, dry place at storage voltage. Do not overcharge or over-discharge.

- **Motor and ESC**: Periodically check for any signs of wear or overheating.
- **Landing Gear**: Inspect the CNC metal landing gear for any bends or damage, especially after rough landings.

Troubleshooting

This section addresses common issues you might encounter during the operation of your FMS Piper PA-18 Super Cub.

Problem	Possible Cause	Solution
Aircraft does not respond to transmitter.	Battery low/dead, Transmitter not bound, Incorrect power-on sequence.	Charge/replace batteries. Re-bind transmitter and receiver. Power on transmitter first, then aircraft.
Aircraft crashes or flies erratically.	Reflex V2 settings incorrect, Control surfaces reversed, Mechanical issue.	Check Reflex V2 mode. Verify control surface direction. Inspect linkages and hinges.
Charger gets hot or smokes.	Faulty charger, Incorrect battery connection.	Immediately disconnect. Do not use. Contact FMS support for replacement.
Short flight time.	Battery not fully charged, Battery degradation.	Ensure battery is fully charged. Consider replacing old batteries.

Specifications

Detailed technical specifications for the FMS Piper PA-18 Super Cub 1300MM RC Airplane.

A visual representation of the product specifications, including wingspan, overall length, flying weight, motor size, ESC, servo, radio channels, recommended battery, aileron, retracts, flaps, approximate flying duration, experience level, assembly time, wing load, and wing area.

Feature	Detail
Wingspan	1300mm / 51.2in
Overall Length	986mm / 38.8in
Flying Weight	Around 1450g
Motor Size	3536-KV850
ESC	40A
Servo	9g*6
Radio	6CH Channel

Feature	Detail
Recommended Battery	11.1V 2200mAh 25C
Aileron	Yes
Retracts	No
Flaps	Yes
Approx. Flying Duration	5 minutes
Experience Level	Intermediate
Assembly Time	10 minutes
Wing Load	48g/dm² (0.096oz/in²)
Wing Area	30dm² (464.7sq.in)

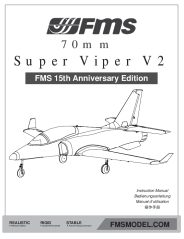
Warranty and Support

FMS is committed to providing quality products. For warranty claims, technical support, or replacement parts, please contact FMS customer service. Keep your proof of purchase.

- **Damaged during shipping**: If your package was damaged, retain all packing material and contact FMS immediately with photos of the damaged product and box.
- **Incorrect Product Received**: Keep all packing material and original boxes. FMS will arrange return shipping for the incorrect item and ship the correct one once the new, unused product is returned.
- **General Inquiries**: For any other questions or concerns, refer to the FMS official store on Amazon or contact their support team.

Model: FMS138R-REFV2

Related Documents - FMS138R-REFV2

	[FMS Reflex V3 Bluetooth Version User Manual] A comprehensive guide to the FMS Reflex V3 Bluetooth Version, covering its features, operation, and software updates for enhanced RC aircraft control.
	[FMS 1220mm Ranger V2 Instruction Manual] Comprehensive instruction manual for the FMS 1220mm Ranger V2 remote-controlled airplane, covering assembly, safety, operation, and maintenance for hobbyists.
	[FMS Reflex V3 Bluetooth Version Flight Controller Manual] Comprehensive guide to the FMS Reflex V3 Bluetooth Version flight controller, covering system overview, functions, operation instructions, aircraft model updates, and FCC information.
	[FMS 70mm Super Viper V2 RC Jet - 15th Anniversary Edition Instruction Manual] Explore the FMS 70mm Super Viper V2 15th Anniversary Edition RC jet with this detailed instruction manual. Covers safety, assembly, setup, flying, and troubleshooting for this advanced hobby aircraft.
	[FMS 1/18 Toyota Land Cruiser LC80 Instruction Manual] Comprehensive instruction manual for the FMS 1/18 Toyota Land Cruiser LC80 remote-controlled vehicle, covering safety precautions, product introduction, specifications, and transmitter/receiver details.

	FMS 1220mm Ranger RC Airplane Instruction Manual Comprehensive instruction manual for the FMS 1220mm Ranger RC airplane, covering safety precautions, assembly, setup, and flying guidelines. Learn about the features, kit contents, and troubleshooting for this high-performance model.