Fms Piper PA-18 Super CUB 1700MM

Fms 1700MM Piper PA-18 Super CUB RC Plane Instruction Manual

Model: Piper PA-18 Super CUB 1700MM

1. Introduction

This manual provides essential information for the safe assembly, operation, and maintenance of your Fms 1700MM Piper PA-18 Super CUB remote control airplane. Please read this manual thoroughly before operating the aircraft to ensure proper function and safety.
The Fms 1700mm PA-18 Super Cub is a Plug and Play (PNP) model, meaning it comes pre-installed with ESC, motor, and servos. A transmitter, receiver, battery, and charger are NOT included and must be purchased separately.

2. Safety Information

Operating a remote control aircraft requires caution and adherence to safety guidelines. Failure to do so may result in injury or property damage.

- Always operate your RC plane in open areas, away from people, buildings, and other obstacles.
- Ensure all batteries are fully charged and properly installed before each flight.
- Perform pre-flight checks on all control surfaces and radio connections.
- Never fly near airports or restricted airspace.
- Avoid flying in strong winds or adverse weather conditions.
- Keep hands and loose clothing away from the propeller when the motor is active.
- Adult supervision is recommended for operators under 14 years of age.

3. Package Contents

The Fms 1700MM Piper PA-18 Super CUB PNP package includes:

- Pre-assembled fuselage with motor, ESC, and servos installed.
- Main wing halves with integrated servo connectors.
- Horizontal and vertical stabilizers.
- Landing gear with 6.25-inch oversized balloon tires.
- Propeller and spinner.
- Wing struts.
- Small parts bag (screws, plastic retainers, pushrods).
- Instruction Manual.

Note: Transmitter, receiver, flight battery, and charger are not included.

4. Setup and Assembly

Follow these steps for quick and glue-free assembly:

4.1 Landing Gear Installation

With the fuselage inverted, insert the landing gear into the designated slots. Secure the landing gear using the included screws and plastic retainers. Attach the springs to the landing gear assembly for proper suspension.

Image: Close-up of hands installing the metal landing gear onto the inverted fuselage of the Fms 1700mm Piper PA-18 Super Cub. The large balloon tires are visible.

4.2 Wing Assembly

Insert the wing spar into the pass-through on the fuselage. Carefully slide both wing halves onto the wing spar, ensuring the integrated servo connectors align and seat properly. Secure the wing halves and wing struts using the included screws and wing bolts.

Image: The Fms 1700mm Piper PA-18 Super Cub RC plane fully assembled, viewed from the front-left, showcasing its large wingspan and robust landing gear.

4.3 Horizontal Stabilizer Installation

Insert the horizontal stabilizer spat into the pass-through on the fuselage. Insert both halves of the horizontal stabilizer onto the spat. Use the included bolts to secure the horizontal stabilizer.

4.4 Control Surface Connections

With the elevator servo centered, connect the pushrod to the control horn on the elevator. Repeat for other control surfaces (ailerons, rudder) as necessary. The ball-link pushrods ensure increased precision.

4.5 Propeller Installation

Install the propeller and spinner in the order shown in the diagram (refer to the physical manual for detailed diagram). Ensure it is securely fastened.

4.6 Battery Installation

The aircraft features an oversized battery compartment. Insert your recommended 14.8V 2200-2600mAh 35C LiPo battery (not included) into the compartment and secure it with the provided strap (if any) to prevent shifting during flight.

5. Operating Instructions

5.1 Pre-Flight Checks

- Verify all control surfaces move freely and correctly in response to transmitter inputs.
- Check battery charge level on both the aircraft and transmitter.
- Ensure the propeller is securely attached and free from damage.

- Confirm the Reflex V2 system is correctly configured for your desired flight mode.

5.2 Takeoff

The 1700mm PA-18 Super Cub is known for its Short Takeoff and Landing (STOL) capability, achieving takeoff heights of less than 3 meters/10 feet. Position the aircraft into the wind, gradually increase throttle, and apply slight elevator input as speed builds to lift off.

5.3 Flight

The aircraft offers excellent flight characteristics. Use gentle control inputs for smooth flight. For advanced maneuvers, ensure you are in the appropriate Reflex V2 mode.

Image: The Fms 1700mm Piper PA-18 Super Cub RC plane flying against a clear blue sky, demonstrating its stable flight performance.

5.4 Landing

Approach the landing area into the wind. Reduce throttle and maintain a controlled descent. Apply slight elevator input just before touchdown for a smooth landing. The CNC metal landing gear and oversized tires are designed for perfect landings on various terrains.

6. Reflex V2 Flight Controller System

The Reflex V2 is a user-upgradeable flight controller compatible with most FMS aircraft. It can be reprogrammed easily with different model files via a simple software interface. It offers three flight modes:

- **Stabilized Mode:** Designed for beginners. Reflex will rapidly level the aircraft from any attitude when this mode is activated. It combines accelerometer and gyro data to determine how to level the aircraft when the control sticks are released, providing peace of mind. The aircraft will maintain level flight with 50-60% throttle and climb under full throttle.

- **Optimized Mode:** Utilizing advanced solid-state gyros, the Reflex system maintains aircraft attitude by counteracting inflight upsets, such as gusts or crosswinds. With Reflex, even small aircraft will fly with confidence, similar to much larger models.
- **Off Mode:** This turns off all gyro functionality. The aircraft is flown completely manually.

These modes are controlled with a two or three-position switch on your transmitter. When assigned to a two-position switch, the Reflex system changes between stabilized and optimized modes.

Image: A diagram illustrating the Reflex V2 flight controller and its three modes: Stabilized, Optimized, and Off, with descriptions of each mode's functionality.

7. Maintenance

- Regularly inspect all components for damage, especially after hard landings.
- Check propeller for cracks or chips and replace if damaged.
- Ensure all screws and connections are tight.

- Keep the aircraft clean and free from dirt and debris.
- Store the aircraft in a cool, dry place away from direct sunlight.

8. Troubleshooting

Problem	Possible Cause	Solution
Aircraft does not respond to controls.	Low battery on transmitter or aircraft; receiver not bound; loose connections.	Charge batteries; re-bind receiver; check all wiring.
Aircraft flies erratically.	Incorrect control surface trim; damaged control surface; Reflex V2 settings.	Adjust trim; inspect and repair damage; check Reflex V2 mode.
Motor not spinning.	ESC not armed; motor or ESC failure; loose connections.	Ensure throttle is at zero and arm ESC; check connections; replace faulty components.

9. Specifications

Feature	Specification
Wingspan	1700mm / 66.9in
Overall Length	1136mm / 44.7in
Flying Weight	~2100g
Motor Size	3541-KV750 Outrunner
ESC	45A Predator
Servo	17g x 6
Radio Channels	6 Channel (minimum)
Recommended Battery	14.8V 2200-2600mAh 35C
Approx. Flying Duration	4-6 minutes
Experience Level	Intermediate
Assembly Time	Approximately 40 minutes
Flaps	Yes
Retracts	No
CG (From leading edge)	80-85mm

Feature	Specification
Prop Size	12*7.5, 2-blade
Wing Load	50g/dm² / 0.11oz/in²
Wing Area	42dm² / 651sq.in

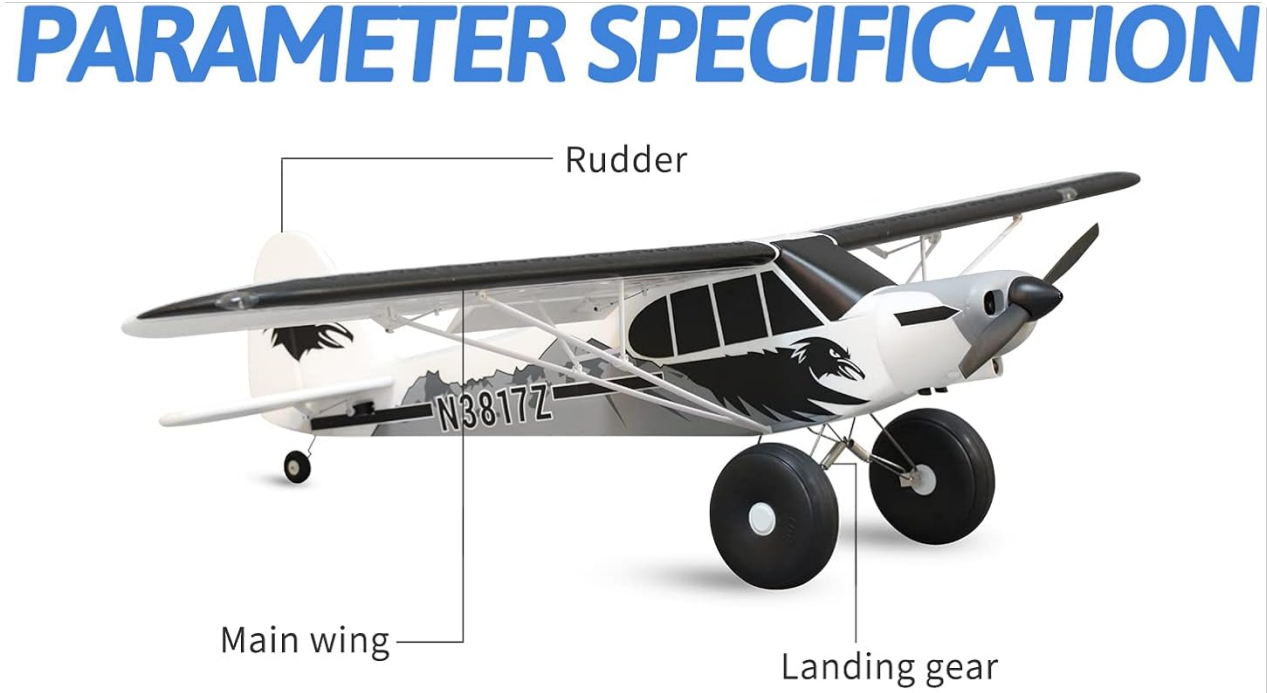

Image: A detailed table outlining the parameter specifications of the Fms 1700mm Piper PA-18 Super Cub, including wingspan, motor size, ESC, and other key features.

10. Additional Features

- Pre-installed navigation and landing lights for enhanced visibility and realism.
- Robust two-bladed Nylon propellers.

Image: A collage of close-up shots highlighting key features of the Fms 1700mm Piper PA-18 Super Cub, including the oversized battery compartment, ball-linked control horns, robust propellers, integrated plug system, and pre-installed navigation and landing lights.

11. Official Product Videos

FMS 1700mm(67") Piper PA-18 Super Cub - Features

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Video Description: This video showcases the key features and design elements of the FMS 1700mm Piper PA-18 Super Cub RC plane, highlighting its construction and capabilities.

1700mm Piper PA-18 Super Cub

Your browser does not support the video tag.

Video Description: A comprehensive video demonstrating the FMS 1700mm Piper PA-18 Super Cub in action, including flight maneuvers and showcasing its performance.

12. Warranty and Support

For warranty claims or technical support, please contact Fms customer service. Keep your purchase receipt as proof of purchase.
Fms guarantees their models. If you encounter any issues, please reach out to the seller or Fms directly for assistance.
For more information, visit the Fms Store on Amazon.