XFLY-MODEL Tasman 1500mm

XFLY-MODEL 1500mm Tasman RC Plane

INSTRUCTION MANUAL

1. Introduction

The XFLY-MODEL 1500mm Tasman is a versatile remote-controlled aircraft designed for both beginner and experienced pilots. Its robust construction and unique features make it suitable for various flying conditions, including short takeoff and landing (STOL) operations and advanced 3D aerobatics. This manual provides essential information for the safe assembly, operation, and maintenance of your Tasman RC plane.

Figure 1: The XFLY-MODEL 1500mm Tasman RC Plane, showcasing its distinctive orange and grey livery with large air-filled tires.

Key Features:

- **Lightweight yet durable composite-reinforced EPO construction:** Ensures resilience and longevity.
- **Larger wing and functional flaps:** Delivers excellent short takeoff and landing (STOL) capabilities, along with advanced 3D maneuverability.
- **Unique oversized air-filled tires:** Provides superior bounce and rebound resiliency, enabling operations from hard or uneven terrain.
- **Realistic-looking LED navigation lights:** Enhances visibility and realism during flight.
- **Latch-type top hatch:** Accommodates 4S 2200-3300mAh batteries, offering a wide range of performance and extended flight times.

2. Safety Precautions

Operating remote-controlled aircraft requires adherence to strict safety guidelines to prevent injury or damage. Always prioritize safety during assembly, operation, and maintenance.

General Safety:

- Always operate your RC plane in open areas, away from people, buildings, and obstacles.
- Never fly near airports or restricted airspace.
- Ensure your batteries are fully charged and properly secured before each flight.
- Perform pre-flight checks thoroughly before every takeoff.
- Do not fly in strong winds or adverse weather conditions.
- Keep spectators at a safe distance.

Battery Safety (LiPo):

- Use only recommended LiPo batteries (4S 2200-3300mAh).
- Charge LiPo batteries with a compatible LiPo charger only.
- Never overcharge or over-discharge LiPo batteries.
- Store LiPo batteries in a fire-safe container and away from flammable materials.
- Inspect batteries for damage before each use. Discontinue use if damaged.

3. Assembly

The Tasman 1500mm is a Plug-N-Play (PNP) model, meaning the motor, ESC, and servos are pre-installed. Minimal assembly is required to get your aircraft ready for flight.

Required Tools (Not Included):

- Small Phillips head screwdriver
- Hobby knife or sharp blade
- Foam-safe adhesive (e.g., CA glue with activator, epoxy)

Assembly Steps:

1. **Wing Installation:** Carefully slide the main wing onto the fuselage. Ensure the wing spars align and fully insert into their respective slots. Secure the wing using the provided screws. Connect the aileron and flap servo leads to the appropriate extensions in the fuselage.
2. **Horizontal Stabilizer and Elevator Installation:** Attach the horizontal stabilizer to the rear of the fuselage. Connect the elevator pushrod to the control horn. Ensure free movement of the elevator.
3. **Vertical Stabilizer and Rudder Installation:** Mount the vertical stabilizer onto the fuselage. Connect the rudder pushrod to the control horn. Verify smooth operation.
4. **Landing Gear Assembly:** The main landing gear with oversized air-filled tires should be pre-installed. Ensure they are securely fastened. The tail wheel assembly also needs to be checked for proper attachment and steering linkage.
5. **Propeller and Spinner Installation:** Attach the propeller and spinner to the motor shaft according to the instructions provided with the propeller. Ensure the propeller is balanced and installed in the correct orientation for thrust.

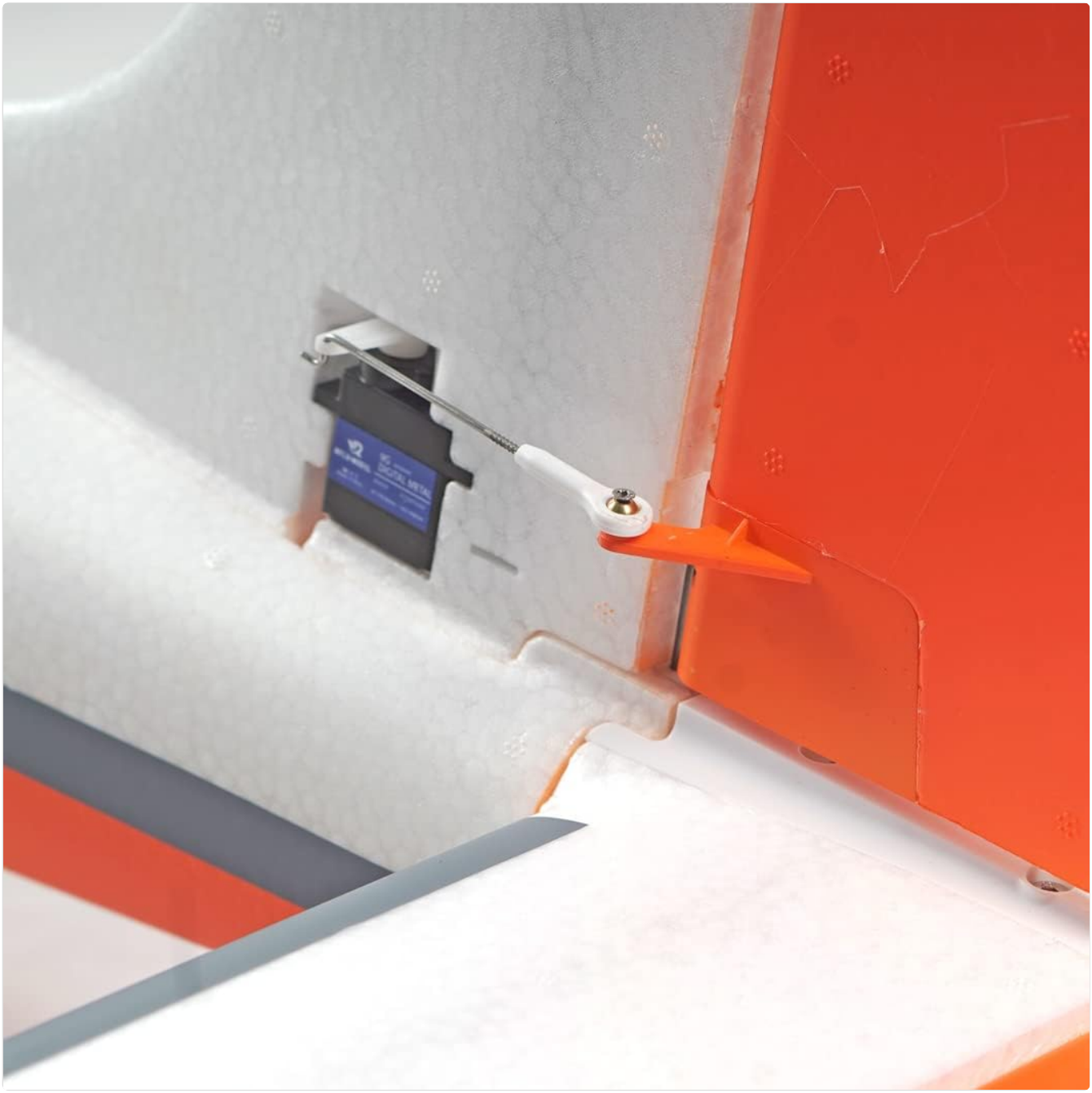

Figure 2: Close-up view of a servo and its linkage connected to a control surface, illustrating the precision required for proper control setup.

4. Pre-Flight Checks

Before every flight, perform the following checks to ensure the safety and proper operation of your Tasman 1500mm.

Control Surface Check:

- Turn on your transmitter first, then connect the flight battery to the aircraft.
- Verify that all control surfaces (ailerons, elevator, rudder, flaps) move freely and in the correct direction relative to your transmitter inputs.
- Check for any binding or excessive play in the linkages.

Center of Gravity (CG) Setup:

Proper CG is crucial for stable flight. Refer to the diagram below for the recommended CG location. Adjust battery position within the compartment to achieve the correct balance.

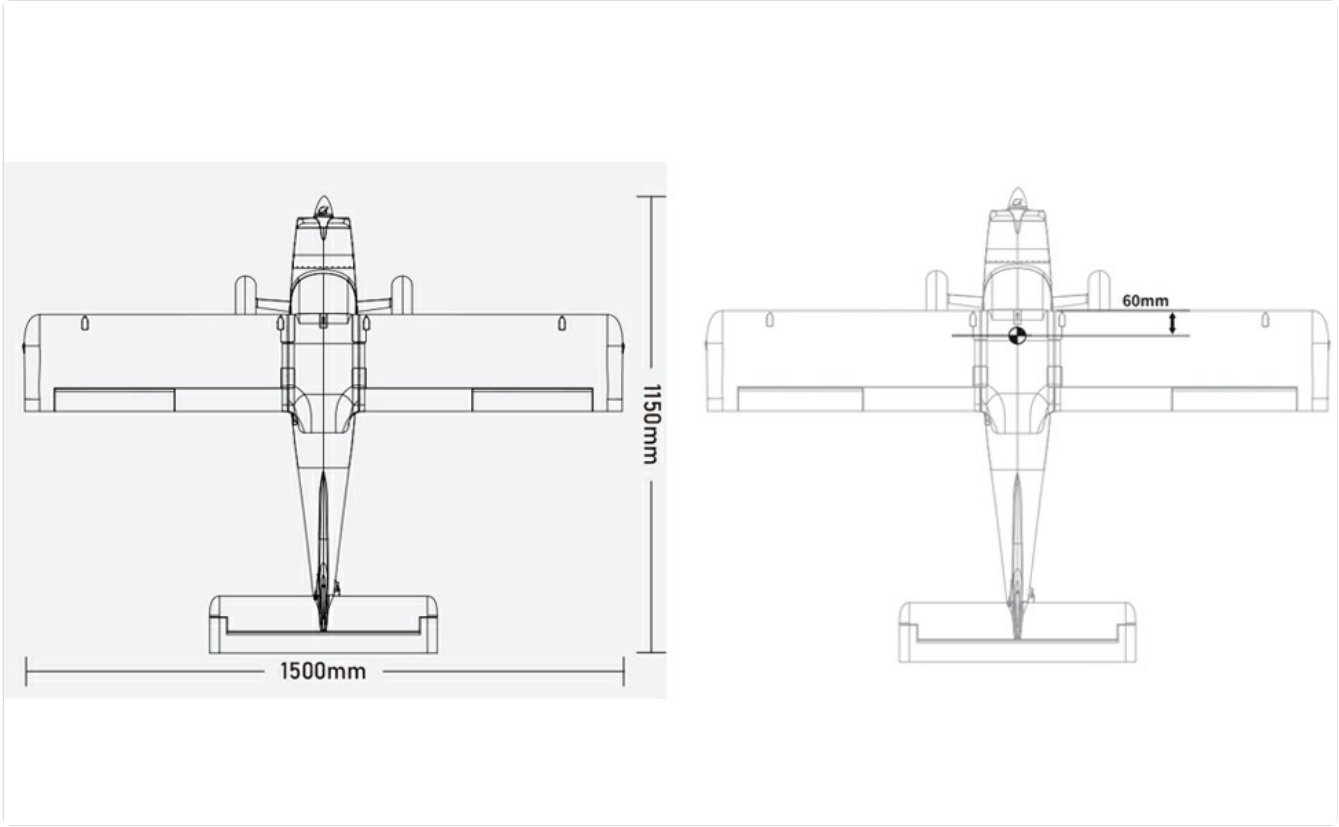

Figure 3: Technical drawing illustrating the dimensions of the Tasman 1500mm and the recommended Center of Gravity (CG) location, approximately 60mm from the leading edge of the wing.

Battery Installation:

The Tasman features a large battery compartment accessible via a latch-type top hatch. This allows for easy installation and removal of 4S 2200-3300mAh LiPo batteries.

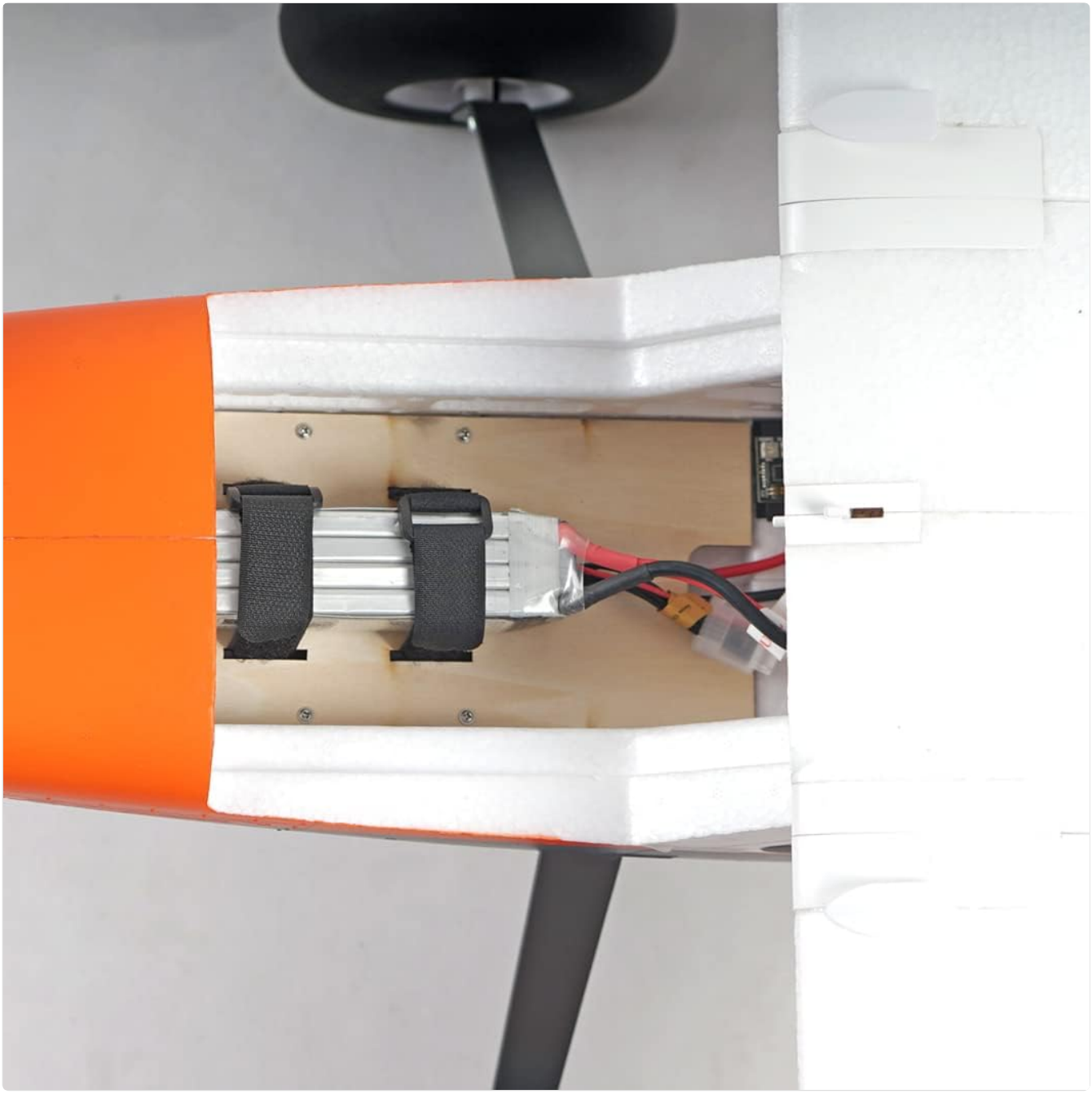

Figure 4: View of the spacious battery compartment, designed to securely hold 4S LiPo batteries for optimal performance and flight duration.

5. Operating Instructions

The Tasman 1500mm is designed for stable and enjoyable flight, with capabilities ranging from gentle cruising to aggressive 3D maneuvers.

Takeoff:

- Place the aircraft on a flat surface, facing into the wind if possible.
- Apply throttle smoothly. The large air-filled tires provide excellent traction on various surfaces.
- As speed increases, gently apply up-elevator to lift off. The functional flaps can be deployed for shorter takeoffs.

Flight:

- The Tasman offers stable flight characteristics, making it forgiving for new pilots.
- For advanced maneuvers, utilize the large control surfaces and powerful 4S-compatible outrunner motor.
- The LED navigation lights enhance visibility, especially during dawn or dusk flights.

Figure 5: The Tasman 1500mm in stable flight, demonstrating its excellent aerial presence.

Landing:

- Approach the landing strip into the wind.
- Gradually reduce throttle and deploy flaps as needed to control descent speed.
- Maintain a slight nose-up attitude for a smooth touchdown on the main landing gear, then gently lower the tail.
- The oversized air-filled tires absorb impacts, allowing for landings on rougher terrain.

Your browser does not support the video tag.

Video 1: Official XFly Model video showcasing the Tasman 1500mm's flight capabilities, including STOL takeoffs and landings, and various aerobatic maneuvers. This video highlights the plane's versatility and performance.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your Tasman 1500mm.

General Care:

- Clean the aircraft after each flight, removing dirt, grass, or debris.
- Inspect all control surfaces, linkages, and hinges for wear or damage.
- Check all screws and fasteners for tightness.

Air-Filled Tires:

The unique air-filled tires may require occasional pressure checks. Use a small pump suitable for RC tires to maintain optimal inflation for cushioning and rebound.

Figure 6: Close-up of the oversized air-filled tires, highlighting their robust design for various terrains.

Motor and ESC:

- Ensure the motor is free of debris and spins smoothly.
- Check all electrical connections for secure fit and no signs of corrosion or damage.
- The powerful 4S-compatible outrunner motor and 40A ESC are designed for reliable performance.

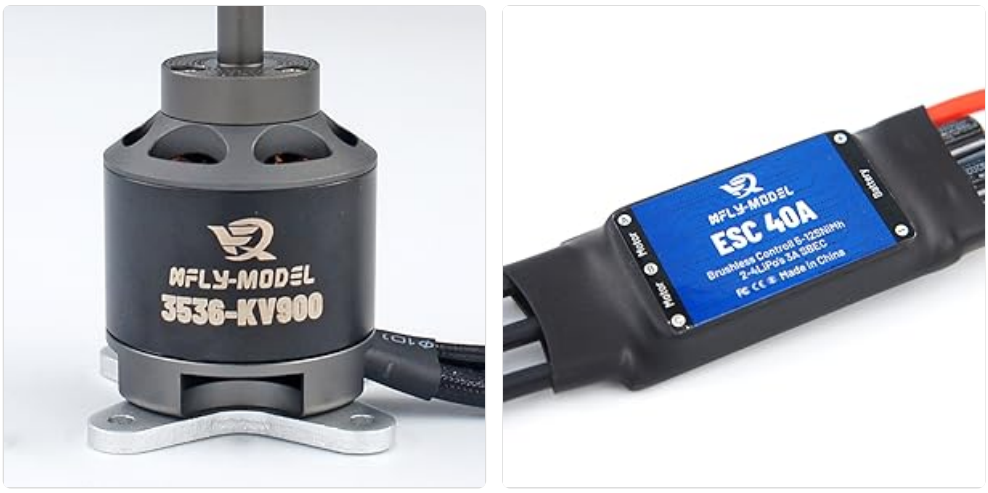

Figure 7: The XFLY-MODEL 3536-KV900 outrunner motor (left) and the 40A Electronic Speed Controller (ESC) (right), key components of the power system.

7. Troubleshooting

This section addresses common issues you might encounter with your Tasman 1500mm.

Problem	Possible Cause	Solution
Aircraft does not respond to controls.	Transmitter off, battery disconnected, receiver not bound, damaged wiring.	Ensure transmitter is on. Check battery connection. Re-bind receiver to transmitter. Inspect and repair wiring.
Motor not spinning or low power.	Low battery, loose motor/ESC connections, damaged motor/ESC.	Charge battery. Check all connections. Replace damaged components.
Flaps not working.	Loose servo connection, damaged servo, incorrect radio setup.	Check servo wire connections (especially Y-connectors). Verify flap settings on transmitter. Replace faulty servo.
Air-filled tires not holding air.	Puncture, loose valve stem.	Inspect for punctures and repair with a suitable patch. Tighten valve stem. If severely damaged, replace tire.
Aircraft is unstable in flight.	Incorrect CG, control surface trim, damaged airframe.	Adjust CG. Trim control surfaces. Inspect airframe for damage and repair.

8. Specifications

Detailed specifications for the XFLY-MODEL 1500mm Tasman RC Plane:

Feature	Detail
Wingspan	1500mm (59.1 inches)
Material	Composite-reinforced EPO
Motor	4S-compatible outrunner (XFLY-MODEL 3536-KV900)
ESC	40A (XFLY-MODEL ESC 40A)

Feature	Detail
Propeller	2-blade
Recommended Battery	4S 2200-3300mAh LiPo
Tires	Oversized Air-Filled
Features	Functional flaps, LED navigation lights, STOL & 3D capabilities
Item Weight	9.23 pounds
Package Dimensions	44.8 x 15.51 x 11.26 inches

9. Warranty and Support

XFLY-MODEL stands behind the quality of its products. For warranty claims, technical support, or replacement parts, please contact XFLY-MODEL customer service through their official channels or the retailer where you purchased the product.

Please retain your proof of purchase for all warranty inquiries.

For additional resources and product information, visit theXFLY-MODEL Store on Amazon.