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› Dancing Wings Hobby X0104 Balsa Electric EXTRA330 RC Airplane Kit - 1M Wingspan Assembly Manual

Dancing Wings Hobby X0104

Dancing Wings Hobby X0104 Balsa Electric EXTRA330 RC Airplane Kit

1M Wingspan Assembly and Operation Manual

1. SAFETY INFORMATION

WARNING: This product is not suitable for children. Adult supervision is required at all times during assembly and operation. Misuse can result in serious injury or property damage.

- Always operate the aircraft in open areas, away from people, buildings, and obstacles.
- Ensure all components are securely fastened before each flight.
- Follow all local regulations and laws regarding model aircraft operation.
- Keep hands and loose clothing away from the propeller when the battery is connected.
- Use only recommended batteries and charging equipment.

2. PRODUCT OVERVIEW

The Dancing Wings Hobby X0104 EXTRA330 is a 1-meter wingspan balsa wood electric RC airplane kit designed for assembly. This model features laser-cut parts for precise construction, premium balsa and plywood materials, and an authentic functional landing gear. It is suitable for hobbyists looking to build and fly a radio-controlled aircraft.



Image 2.1: Fully assembled Dancing Wings Hobby X0104 EXTRA330 RC airplane. This image shows the complete wooden airframe with the white cowl and canopy installed, ready for flight.

3. PACKAGE CONTENTS

The X0104 kit includes the following components:

- X01 EP Extra 330 (1.0M) Balsa Wood Kit
- MC2216 950KV Motor
- 11-inch Propeller
- 30A Electronic Speed Controller (ESC)
- 9g Servos (4 pieces)
- Comprehensive Hardware Pack
- Molded Plastic Cowl and Windscreen

- Functional Landing Gear Components
- Product Manual (detailed assembly instructions)

Note: A 3S 1300mAh battery and a 4-channel (or more) radio system are required and not included in this kit.



Image 3.1: Overview of the kit contents, including the balsa wood parts, motor, ESC, servos, propeller, and hardware. The image displays the various components neatly arranged alongside the packaging box and a blueprint.

4. ASSEMBLY INSTRUCTIONS

This kit requires careful assembly. Refer to the detailed physical product manual included in your package for step-by-step instructions, diagrams, and tips. The following provides a general overview of the assembly process.

4.1. Fuselage Assembly

Begin by assembling the fuselage structure using the laser-cut balsa and plywood parts. Ensure all joints are square and secure. Use appropriate wood glue (not included) for strong bonds.

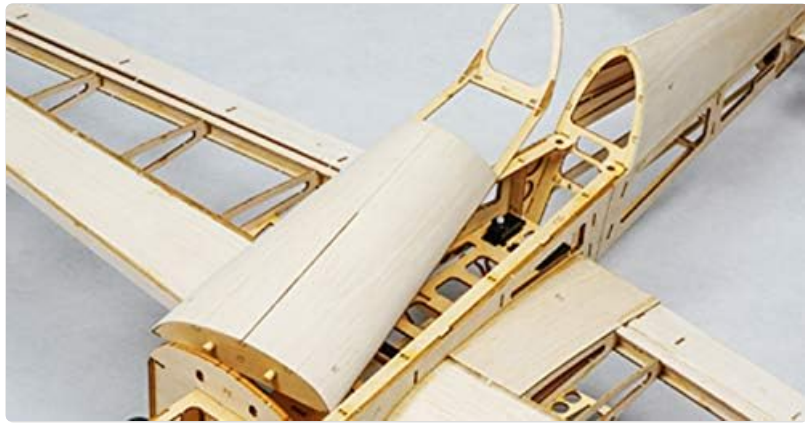


Image 4.1: Close-up view of the balsa wood fuselage structure during assembly, showing the intricate laser-cut parts fitting together.

4.2. Wing and Tail Section Assembly

Assemble the wings and tail sections (horizontal and vertical stabilizers). Pay close attention to the dihedral (wing angle) and ensure control surfaces (ailerons, elevator, rudder) move freely and correctly.

4.3. Landing Gear Installation

Install the functional landing gear according to the manual. Ensure it is robustly attached to withstand landing forces.

4.4. Covering the Airframe

Once the airframe is complete, cover it with your chosen covering material (not included, unless specified in a variant). This protects the wood and provides the aircraft's final appearance.



Image 4.2: Side view of the assembled EXTRA330 RC airplane, showcasing the complete airframe structure before covering.

5. SETUP

5.1. Power System Installation

- **Motor:** Install the MC2216 950KV motor onto the motor mount at the front of the fuselage.
- **ESC:** Connect the 30A ESC to the motor and mount it in a location with good airflow.
- **Propeller:** Securely attach the 11-inch propeller to the motor shaft. Ensure it is balanced.
- **Battery:** Install your 3S 1300mAh LiPo battery (not included) in the designated battery compartment, ensuring it is secured and the aircraft's center of gravity (CG) is correct.

5.2. Radio System and Servo Installation

- **Servos:** Install the four 9g servos into their respective locations for ailerons, elevator, and rudder.
- **Receiver:** Install your 4-channel (or more) radio receiver (not included) in the fuselage, ensuring antennas are positioned correctly for optimal signal.
- **Control Linkages:** Connect the servos to the control surfaces using the provided linkages. Adjust for neutral positions and correct throw.

5.3. Center of Gravity (CG)

Achieving the correct CG is critical for stable flight. Refer to your detailed manual for the recommended CG location. Adjust battery position or add ballast as needed to achieve the correct balance.

6. OPERATING INSTRUCTIONS

6.1. Pre-Flight Checklist

- Check all control surfaces for free and correct movement.
- Verify battery charge levels for both aircraft and transmitter.
- Ensure all connections are secure.
- Check propeller for damage and secure attachment.
- Confirm correct CG.
- Perform a range check of your radio system.

6.2. Flight Operation

- **Takeoff:** Apply throttle smoothly and maintain directional control with the rudder. Once sufficient speed is gained, gently apply elevator to lift off.
- **Flight:** Use the ailerons for roll, elevator for pitch, and rudder for yaw. Practice gentle maneuvers before attempting advanced aerobatics.
- **Landing:** Reduce throttle, align the aircraft with the runway, and maintain a controlled descent. Flare gently just above the ground to touch down smoothly.

6.3. Post-Flight Procedures

- Disconnect the flight battery immediately after landing.
- Inspect the aircraft for any damage or loose components.
- Allow the motor and ESC to cool down before storage.

7. MAINTENANCE AND CARE

- Regularly inspect all balsa and plywood parts for cracks or damage. Repair as needed.
- Check all screws and fasteners for tightness before each flight.
- Keep the motor and ESC clean and free of debris.
- Ensure servos operate smoothly and linkages are free from binding.
- Store the aircraft in a dry, temperature-controlled environment, away from direct sunlight.
- Properly charge and store LiPo batteries according to manufacturer guidelines.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Aircraft does not respond to controls	Loose connections, discharged battery, radio interference, faulty receiver/servo	Check all wiring, charge batteries, perform range check, inspect components.
Aircraft flies erratically or is unstable	Incorrect CG, control surface trim, warped wing/tail, loose components	Adjust CG, trim controls, inspect airframe for damage, tighten components.
Motor not spinning or weak power	Discharged battery, faulty ESC/motor, loose propeller, incorrect ESC calibration	Charge battery, check motor/ESC connections, ensure propeller is secure, recalibrate ESC.
Landing gear collapses	Improper installation, hard landing, weak attachment points	Reinforce attachment points, ensure correct installation, practice softer landings.

9. TECHNICAL SPECIFICATIONS

X01
BALSAWOOD KIT

1.0M Extra-330



1000mm
39inch



900mm
35inch



FLY
≈760g



MC2216
950KV



3S 30A



9g 4pcs



3S
1300mAh



10inch



≥4CH



ASSEMBLY
E  H



FLYING
E  H



E-Power ☒
G-Power





Image 9.1: Visual representation of the X01 EXTRA330's key specifications, including wingspan, fuselage length, and recommended power system components.

Feature	Specification
Model Name	X0104 (X01 EP Extra 330)
Wingspan	1000mm (39 inches)
Fuselage Length	900mm (35 inches)
Flying Weight	Approximately 760g
Motor (Included)	MC2216 950KV
ESC (Included)	3S 30A
Servos (Included)	9g * 4pcs
Propeller (Included)	11 inch

Feature	Specification
Recommended Battery (Not Included)	3S 1300mAh LiPo
Recommended Radio (Not Included)	4-channel or more
Material	Balsa Wood, Plywood
Assembly Required	Yes
Recommended Age	18 - 80 years
Product Dimensions (Packaged)	6.1 x 1.52 x 1.52 cm; 408.23 g (Note: This refers to a component, not the full kit dimensions)

10. WARRANTY AND SUPPORT

Dancing Wings Hobby products are manufactured to high standards. For specific warranty information or technical support, please refer to the documentation included with your product or contact the retailer where the product was purchased. Keep your proof of purchase for any warranty claims.

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