

EVTSCAN Phoenix 2400

Volantex Phoenix 2400 EPP RC Airplane PNP Instruction Manual

Model: Phoenix 2400 | Brand: EVTSCAN

1. INTRODUCTION

This manual provides essential instructions for the assembly, operation, and maintenance of your Volantex Phoenix 2400 EPP RC Airplane PNP. Please read this manual thoroughly before operating the aircraft to ensure safe and optimal performance. The Phoenix 2400 is a high-performance glider designed for soaring, featuring a durable EPP fuselage and a 2400mm wingspan.

2. SAFETY INFORMATION

Operating remote-controlled aircraft requires caution. Failure to follow safety guidelines can result in injury or property damage. Always prioritize safety.

- **Pre-Flight Check:** Always perform a thorough pre-flight check before each flight. Ensure all components are securely attached and functioning correctly.
- **Flight Area:** Fly in open areas away from people, buildings, power lines, and other obstacles. Avoid flying near airports or restricted airspace.
- **Weather Conditions:** Do not fly in strong winds, rain, or other adverse weather conditions.
- **Battery Safety:** Handle LiPo batteries with care. Do not overcharge, over-discharge, or puncture batteries. Store them in a fire-safe container.
- **Propeller Safety:** Keep hands and face clear of the propeller when the motor is powered. The propeller can cause serious injury.
- **Supervision:** If you are a beginner, seek guidance from an experienced RC pilot.
- **Respect Local Regulations:** Be aware of and comply with all local laws and regulations regarding RC aircraft operation.

3. PACKAGE CONTENTS

Verify that all components listed below are present in your package. The PNP (Plug-N-Play) version includes the motor, ESC, and servos pre-installed, but requires a receiver, transmitter, battery, and charger (sold separately).

- Fuselage (1)

- Foam Parts (4) - likely wings, tail sections
- Instruction Manual (1)
- Pack of Parts (1) - includes small hardware
- Sticker Sheet (1)
- Joint Lever (2)
- BL 4023/1050KV Motor (Pre-installed)
- BL ESC 40A (Pre-installed)
- 9g Servos (6) (Pre-installed)



Image 3.1: Overview of the Volantex Phoenix 2400 components, including the fuselage, wing sections, and tail pieces.

4. SPECIFICATIONS

Feature	Detail
Material	EPP (Expanded Polypropylene)

Wingspan	2400mm / 94.49 inches
Overall Length	1132mm / 44.57 inches
Motor	BL 4023/1050KV Brushless Motor
ESC	BL ESC 40A
Servos	9g Servos (6 pieces)
Weight	Approximately 3005g (without battery)
Recommended Age	4 years and up (with adult supervision)
Model Number	EVTSCANqhev5bg132-02



Image 4.1: Dimensional overview of the Phoenix 2400, showing its 2400mm wingspan and 1132mm length.

5. ASSEMBLY AND SETUP

The Volantex Phoenix 2400 is designed for easy assembly. Follow these steps carefully to prepare your aircraft for flight.

5.1 Wing Assembly

1. Carefully slide the left and right wing halves onto the main wing spar.
2. Ensure the wing halves are fully seated against the fuselage and secured according to the provided hardware (e.g., screws, clips).
3. Connect the aileron servo leads from each wing half to the corresponding extensions in the fuselage. Ensure correct polarity and channel assignment.



Ultra durable plastic fuselage appears to be streamline that reduces flight resistance

Image 5.1: The Volantex Phoenix 2400 fully assembled, showcasing its large wingspan and sleek design.

5.2 Tail Assembly

1. Attach the horizontal stabilizer to the rear of the fuselage. Secure it using the designated method (e.g., screws, adhesive).
2. Attach the vertical stabilizer to the fuselage.
3. Connect the elevator and rudder pushrods to their respective control horns and servo arms. Ensure free movement and correct centering.

5.3 Receiver and Battery Installation

1. Install your RC receiver into the designated compartment within the fuselage. Secure it to prevent movement during flight.
2. Connect the ESC and servo leads to the appropriate channels on your receiver. Refer to your receiver's manual for channel assignments.
3. Insert the flight battery into the battery compartment. Position the battery to achieve the recommended Center of Gravity (CG).

5.4 Center of Gravity (CG) Check

The correct CG is crucial for stable flight. Refer to the aircraft's specific CG location (usually marked on the wing or specified in a diagram). Adjust battery position as needed to achieve the recommended CG.

5.5 Control Surface Checks

1. Power on your transmitter, then connect the flight battery to the aircraft.
2. Verify that all control surfaces (ailerons, elevator, rudder) move in the correct direction relative to your transmitter stick inputs. Reverse channels on your transmitter if necessary.
3. Ensure control surfaces have adequate travel and are centered when sticks are at neutral.

6. OPERATING INSTRUCTIONS

This section covers basic flight procedures for the Phoenix 2400 glider.

6.1 Pre-Flight Checklist

- Ensure all control surfaces are free and move correctly.
- Check battery charge level on both aircraft and transmitter.
- Verify propeller is securely attached and undamaged.
- Confirm correct CG.
- Check for any loose wires or connections.
- Scan the flight area for obstacles and people.

6.2 Launching

The Phoenix 2400 is typically hand-launched. Hold the aircraft firmly under the fuselage, apply about 70-80% throttle, and gently toss it forward into the wind with a slight upward angle. Do not throw it forcefully. Immediately gain altitude and establish control.

6.3 Flight Controls

- **Throttle:** Controls motor speed and altitude.
- **Ailerons:** Control roll (banking) for turns.
- **Elevator:** Controls pitch (nose up/down) for climbing and descending.
- **Rudder:** Controls yaw (nose left/right) for coordinated turns and directional control.



Image 6.1: The Phoenix 2400 glider in flight, demonstrating its soaring capabilities.

6.4 Soaring and Gliding

The Phoenix 2400 is designed for efficient gliding. Once at altitude, reduce throttle and search for thermals (rising columns of warm air) to extend flight time. Practice gentle turns and altitude management to maximize gliding efficiency.

6.5 Landing

Approach the landing area into the wind. Reduce throttle to idle and gradually descend. Use elevator to control speed and ailerons/rudder for directional control. Aim for a gentle, level touchdown. The durable EPP fuselage is designed to withstand typical landings.

7. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your Phoenix 2400.

- **Post-Flight Inspection:** After each flight, inspect the aircraft for any damage, loose connections, or worn parts. Check the propeller for cracks or chips.
- **Cleaning:** Clean the aircraft with a soft, damp cloth. Avoid using harsh chemicals.
- **Storage:** Store the aircraft in a cool, dry place, away from direct sunlight and extreme temperatures. Remove the battery before storage.
- **Battery Care:** Follow manufacturer guidelines for LiPo battery charging, discharging, and storage.
- **Control Linkages:** Periodically check all control linkages and pushrods for free movement and secure connections.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Aircraft does not respond to controls.	Transmitter/receiver not bound; low battery; loose connections.	Re-bind transmitter and receiver; charge batteries; check all connections.
Motor not spinning.	ESC not armed; motor/ESC connection loose; damaged motor/ESC.	Ensure throttle is at zero before connecting battery; check connections; inspect for damage.
Aircraft flies erratically or is difficult to control.	Incorrect CG; control surfaces reversed; damaged control surface/servo.	Adjust CG; check transmitter channel reversals; inspect control linkages and servos.
Short flight time.	Battery not fully charged; old/damaged battery; excessive throttle usage.	Ensure battery is fully charged; replace old batteries; practice efficient gliding.

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact EVTSCAN customer service directly. Keep your proof of purchase for warranty claims.

Manufacturer: EVTSCAN
Model Number: EVTSCANqhev5bg132-02
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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question