

Engino SH43

Engino SH43 STEM Heroes Aviator Rotorblade Instruction Manual

Model: SH43

INTRODUCTION

This manual provides instructions for assembling and understanding the Engino SH43 STEM Heroes Aviator Rotorblade model. This educational construction toy is designed to introduce principles of engineering and aviation through hands-on building.

Safety Warning:

Not suitable for children under 3 years of age due to small parts which may present a choking hazard. Recommended age by manufacturer: 6 years and up.

SETUP AND ASSEMBLY

Before beginning assembly, ensure all 72 pieces are present and accounted for. Refer to the packaging for a complete list of components.

Component Overview

The Engino system uses a variety of rods, connectors, and panels that snap together to form robust structures. Familiarize yourself with the different types of pieces before starting.

Assembly Steps

1. **Prepare the Base Structure:** Begin by connecting the main body components. Use the longer rods to form the central frame of the rotorblade model.
2. **Attach Rotor Hub:** Securely connect the central rotor hub to the top of the main body. Ensure it can rotate freely if designed to do so.
3. **Assemble Main Rotor Blades:** Construct the four main rotor blades using the designated pieces.

Attach them to the rotor hub, ensuring they are evenly spaced and securely fastened.

4. **Build the Tail Boom:** Extend the tail boom from the rear of the main body using appropriate rods and connectors.
5. **Construct Tail Rotor:** Assemble the tail rotor and attach it to the end of the tail boom.
6. **Final Checks:** Review all connections to ensure they are firm and stable. The model should be structurally sound.



This image displays the fully assembled Engino SH43 STEM Heroes Aviator Rotorblade model. The model features a main rotor assembly with four blades, a central body, and a tail boom leading to a tail rotor. The construction uses blue, white, and black Engino building blocks, demonstrating the interlocking system.

OPERATING THE MODEL

The Engino SH43 STEM Heroes Aviator Rotorblade is a static display and interactive learning model. It is not designed for flight or remote control operation.

- **Manual Rotor Rotation:** The main rotor and tail rotor can be manually rotated to demonstrate their function in an aircraft.
- **Educational Exploration:** Use the model to understand basic principles of aerodynamics, structural integrity, and mechanical movement.

- **Display:** The assembled model can be proudly displayed as a testament to your building skills.

MAINTENANCE

Proper care will ensure the longevity of your Engino model.

- **Cleaning:** To clean the plastic components, gently wipe them with a soft, damp cloth. Avoid using harsh chemicals or abrasive cleaners, as these may damage the plastic.
- **Storage:** Store the model in a cool, dry place away from direct sunlight to prevent material degradation or discoloration. If disassembling for storage, keep all pieces in a secure container to prevent loss.
- **Inspection:** Periodically inspect the model for any loose or damaged parts. Replace any broken components if necessary (replacement parts may be available from Engino support).

TROUBLESHOOTING

If you encounter issues during assembly or with the completed model, consider the following:

- **Missing Pieces:** Double-check the packaging and assembly area. If pieces are genuinely missing, contact Engino customer support.
- **Loose Connections:** Ensure all rods and connectors are fully inserted and snapped into place. Apply firm, even pressure during assembly.
- **Model Instability:** Re-examine the assembly steps, particularly for the base and main structural elements. Incorrectly placed or loose pieces can affect stability.
- **Difficulty Assembling:** Refer to the visual instructions provided with the product packaging. Sometimes a different angle or approach can help.

SPECIFICATIONS

Feature	Detail
Product Model Number	SH43
Brand	Engino
Material	Plastic
Number of Pieces	72
Recommended Age	6 years and up (Manufacturer)
Product Dimensions (L x W x H)	17 x 13.5 x 4.5 cm
Product Weight	110 grams
ASIN	B0788TN5DC

WARRANTY INFORMATION

Engino products are manufactured to high-quality standards. For specific warranty details regarding manufacturing defects or missing parts, please refer to the information provided on the product packaging or visit the official Engino website. Keep your proof of purchase for any warranty claims.

CUSTOMER SUPPORT

For further assistance, questions, or to inquire about replacement parts, please contact Engino customer support:

- **Website:** www.engino.com (Please check the official website for the most current contact information.)
- **Email:** Refer to the Engino website for support email addresses.
- **Phone:** Refer to the Engino website for support phone numbers.

When contacting support, please have your product model number (SH43) and proof of purchase readily available.