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## FIYA 130 Motor Fan Kit

# Portable Mini Fan Kit User Manual

Model: 130 Motor Fan Kit

## INTRODUCTION

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This user manual provides instructions for the assembly, operation, and maintenance of the FIYA Portable Mini Fan Kit. This kit includes components designed for educational projects or small-scale ventilation applications, featuring a 130 motor and ultra-soft fan vanes. It is intended for users to assemble the mini fan themselves.

## PACKAGE CONTENTS

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Please verify that all components listed below are present in your package:

- Two (2) 130 Motors
- Two (2) Ultra-soft Fan Vanes (Yellow center, clear blades)



Image: Overview of the kit components, showing two motors and two fan blades.

## SPECIFICATIONS

Feature	Detail
Motor Model	130 Motor
Motor Size	25mm (L) x 20mm (W) x 15mm (H)
Motor Shaft Diameter	2mm
Motor Shaft Length	8mm
Operating Voltage	DC 3V
Rotating Speed	5000 rpm

Feature	Detail
Fan Vane Diameter	65mm (Rotary peripheral ring diameter)
Fan Vane Thickness	Approx. 11mm (Center yellow plastic parts thickness)
Fan Vane Aperture	1.9mm (tight fit with 2mm shaft)
Material	Plastic, Metal (Motor), Soft Silicone (Fan Vane)
Net Weight	35g (per set)



Image: Detailed view of the 130 motors included in the kit.

## SETUP AND ASSEMBLY

This kit requires simple assembly to create a functional mini fan. Follow these steps:

1. **Identify Components:** Separate the 130 motors from the fan vanes. Each fan vane has a central yellow hub with a small hole.
2. **Align Fan Vane:** Take one fan vane and align the central hole (aperture: 1.9mm) with the shaft of one 130 motor (shaft diameter: 2mm).
3. **Attach Fan Vane:** Carefully but firmly push the fan vane onto the motor shaft. The fit is designed to be tight (1.9mm aperture for a 2mm shaft) to ensure the vane stays securely attached during rotation. Ensure the vane is pushed down far enough to be stable but not so far that it rubs against the motor body.
4. **Repeat for Second Set:** Follow the same steps to assemble the second mini fan.

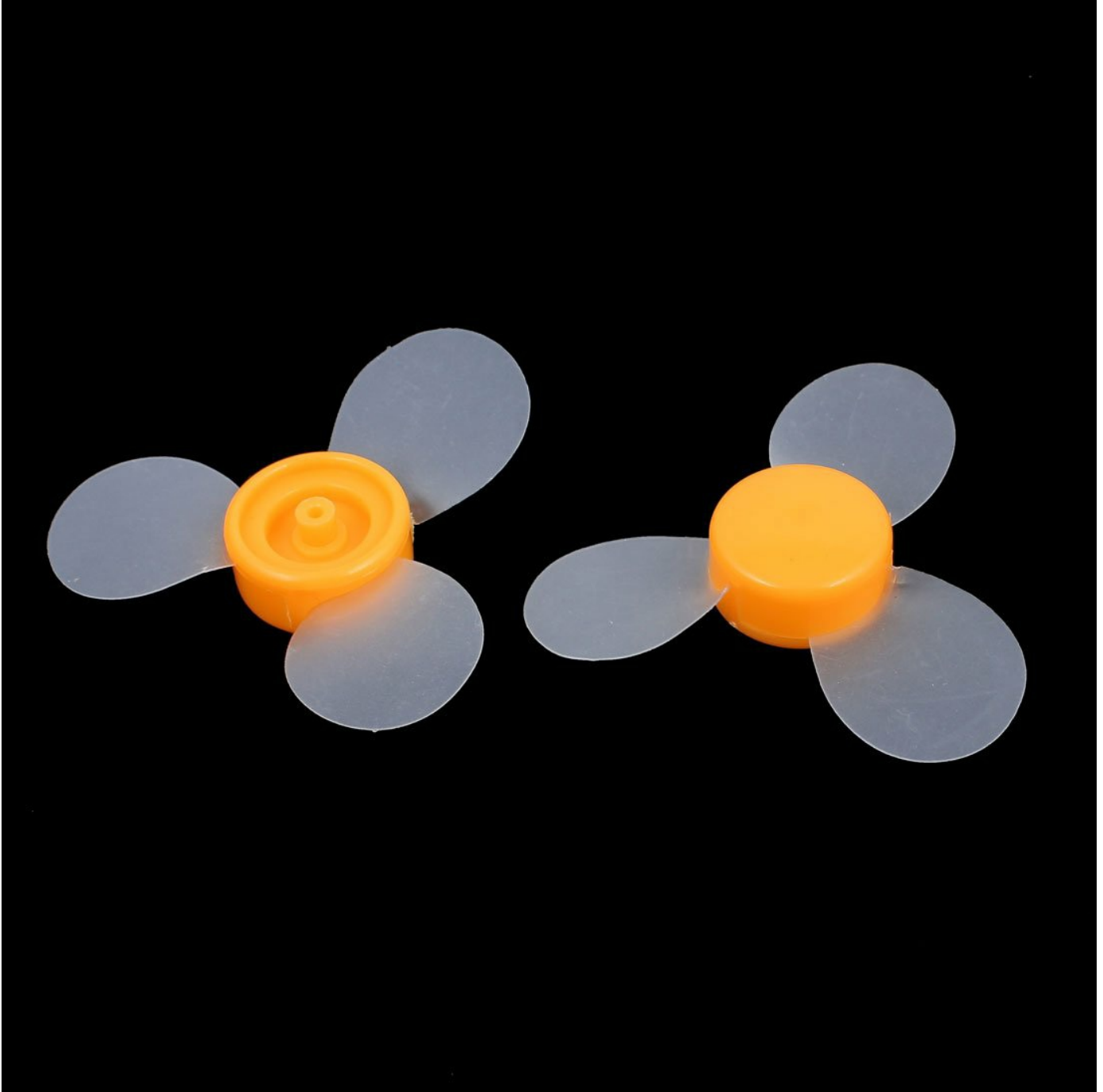


Image: Detailed view of the ultra-soft fan vanes, highlighting the central hub for motor attachment.

## OPERATION

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Once assembled, the mini fan can be operated by providing power to the motor:

- **Power Source:** Connect the motor's terminals to a DC 3V power source. Common sources include two AA batteries

(1.5V each) in series, or a suitable DC power supply.

- **Polarity:** The 130 motor will spin regardless of polarity, but reversing the polarity will reverse the direction of rotation. For optimal airflow, ensure the fan blades are pushing air in the desired direction.
- **Safety:** Keep fingers and loose objects away from the rotating fan blades during operation. Although the blades are ultra-soft, caution is advised.

## MAINTENANCE

To ensure the longevity and optimal performance of your mini fan kit:

- **Cleaning:** Periodically clean any dust or debris from the fan blades and motor housing using a soft, dry cloth. Do not use water or liquid cleaners directly on the motor.
- **Storage:** When not in use, store the assembled fans or components in a dry, cool place away from direct sunlight and excessive moisture.
- **Inspection:** Regularly inspect the connection between the fan vane and the motor shaft to ensure it remains tight.

## TROUBLESHOOTING

If you encounter issues with your mini fan, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Fan does not spin.	No power or incorrect voltage.	Ensure the power source is connected correctly and provides DC 3V. Check battery charge if using batteries.
Fan spins slowly or weakly.	Insufficient voltage or obstruction.	Verify the power source provides full DC 3V. Check for any debris or friction impeding the fan blade's rotation.
Fan vane wobbles or detaches.	Improper attachment or wear.	Re-attach the fan vane firmly onto the motor shaft, ensuring a tight fit. If the fit becomes loose over time, the vane may need replacement.

## WARRANTY AND SUPPORT

Specific warranty information for the FIYA Portable Mini Fan Kit is not provided in the product details. For any support inquiries or further assistance, please refer to the retailer or platform where the product was purchased.