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› Jadeshay DC 0.01V-24V Mini Wind Power Generator Kit Instruction Manual

Jadeshay LLYTTQJTX

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Model: LLYTTQJTX

INTRODUCTION

This Jadeshay Mini Wind Power Generator Kit is designed as an educational tool to demonstrate the principles of wind energy conversion into electrical energy. It is a DIY assembly kit, providing a hands-on experience for understanding how wind turbines function. This kit is intended for scientific experiments and educational projects, not for actual power generation for devices.

It is an excellent teaching aid for children aged 6 and above, helping them develop practical skills and cultivate an interest in physics and renewable energy. Adult supervision is recommended during assembly and operation to prevent any damage or injury.

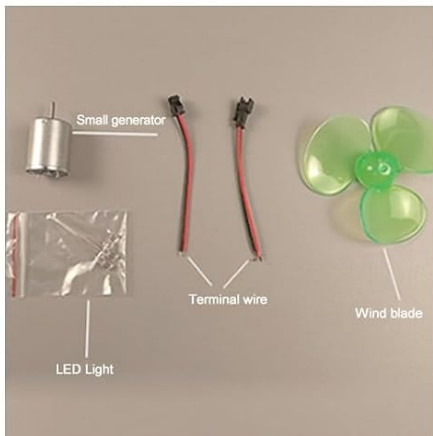
SAFETY PRECAUTIONS

- This kit is for demonstration purposes only and does not produce significant electricity.
- Recommended for children aged 6 years and older.
- Always use with adult supervision to ensure safe assembly and operation.
- Handle small components with care to avoid loss or ingestion.
- Ensure proper polarity when connecting the LED lights to avoid damage.

SETUP AND ASSEMBLY

The Jadeshay Mini Wind Power Generator Kit requires self-assembly. Follow the steps below carefully to ensure correct setup.

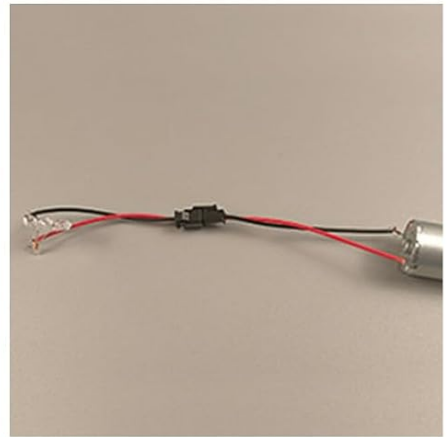
Installation steps



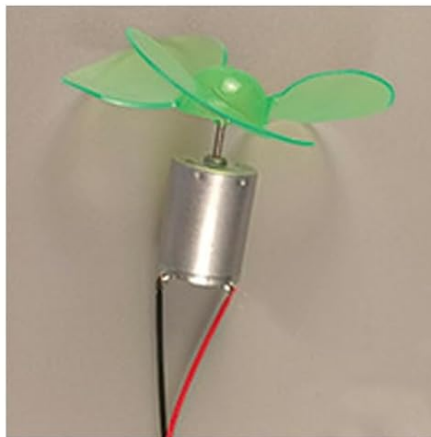
Product accessories diagram



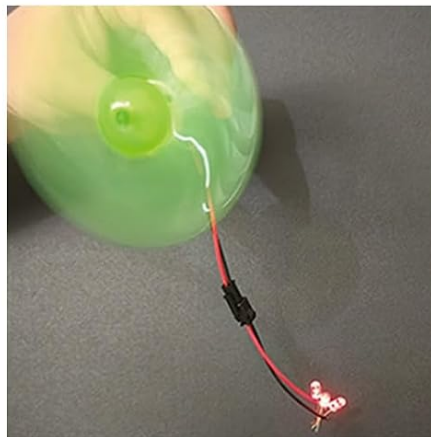
The LED light pins on both sides and the output copper wire cannot touch together to avoid short circuit



Connect the terminal wire with LED to the small generator



Small generators and terminal wires can be swapped when the positive and negative poles are not lit



Driven by the wind, 3 LED lights are lit to show the effect

Image: Detailed installation steps for the Jadeshay Mini Wind Power Generator Kit.

1. **Identify Components:** Lay out all parts. The kit includes one small motor, one wind blade, two terminal cables, and three LED lights.
2. **Prepare LED Connections:** The LED light pins should not touch each other to avoid a short circuit. Ensure they are separated.
3. **Connect Terminal Wire to LED:** Attach one end of a terminal wire to the LED light. Pay attention to polarity: the longer leg of the LED is positive (connect to red wire), and the shorter leg is negative (connect to black wire).
4. **Connect Terminal Wire to Generator:** Connect the other end of the terminal wire (with the LED attached) to the small generator.
5. **Attach Wind Blade:** Securely attach the wind blade to the shaft of the small generator.
6. **Test Polarity (if needed):** If the LED does not light up, swap the connections of the small generator and terminal wires. The LED will not be damaged by incorrect polarity, simply re-connect it correctly.

Divide positive and negative poles with diodes

It will not light up but it will not be damaged. Just plug it in again. The long leg of the LED light is the positive pole inserted into the red wire of the socket, and the short leg is the negative pole inserted into the black wire of the socket.

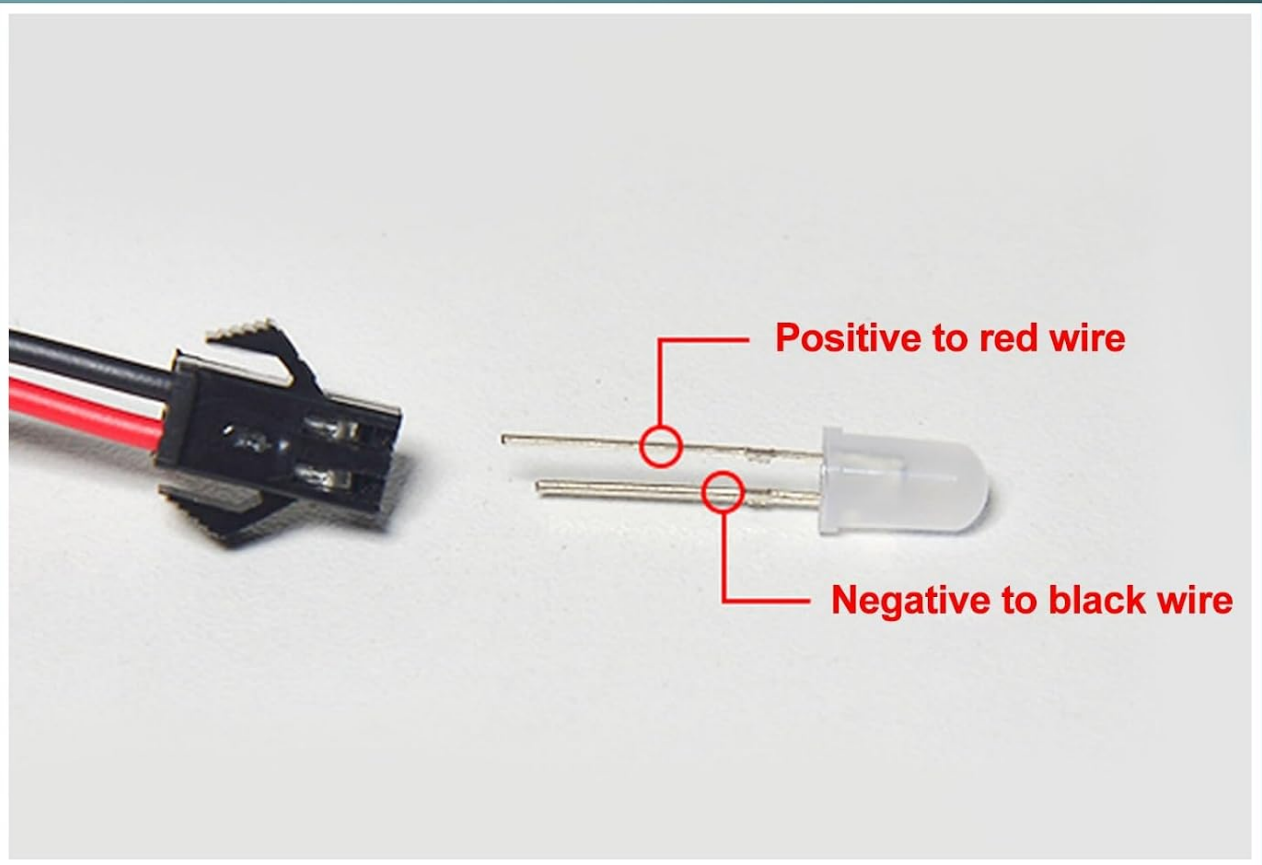


Image: Correct connection of LED positive (long leg to red wire) and negative (short leg to black wire) poles.

OPERATING INSTRUCTIONS

Once assembled, the mini wind power generator can be operated to demonstrate wind energy conversion.

- Hold the assembled wind turbine in a position where the blades can catch wind.
- You can use natural wind outdoors or an artificial wind source like a fan indoors.
- As the wind spins the blades, the generator will produce a small amount of electricity.
- The connected LED lights will illuminate when sufficient wind speed is achieved (typically at wind level 3 or higher).
- This generator is primarily for demonstrating wind power generation and lighting the F5mm red LED. For other applications, specific electronic and electrical knowledge is required.

LED operation

This generator is suitable as a demonstration of wind power generation, light up the F5mm red LED. For other purposes, you must have certain electronic and electrical skills.

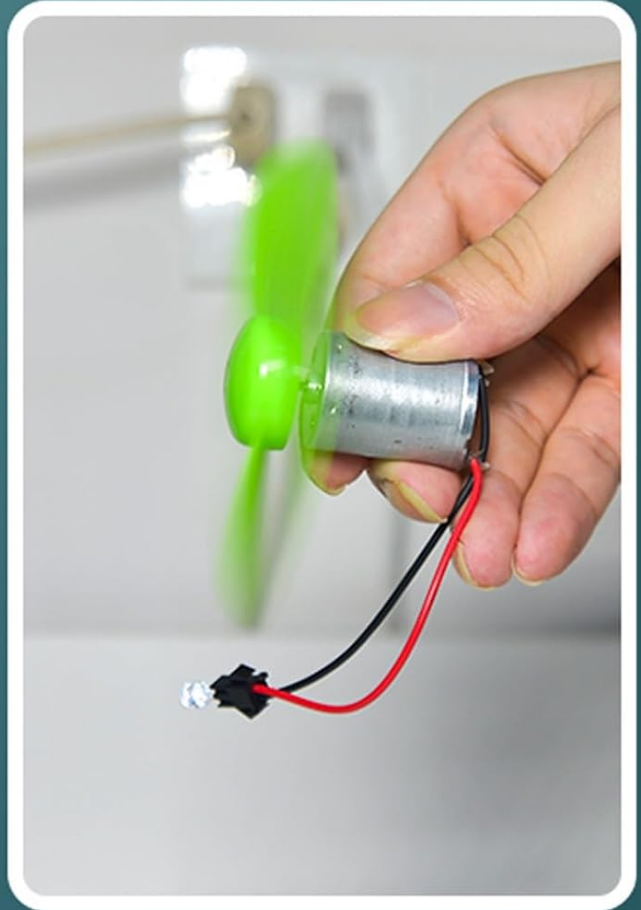
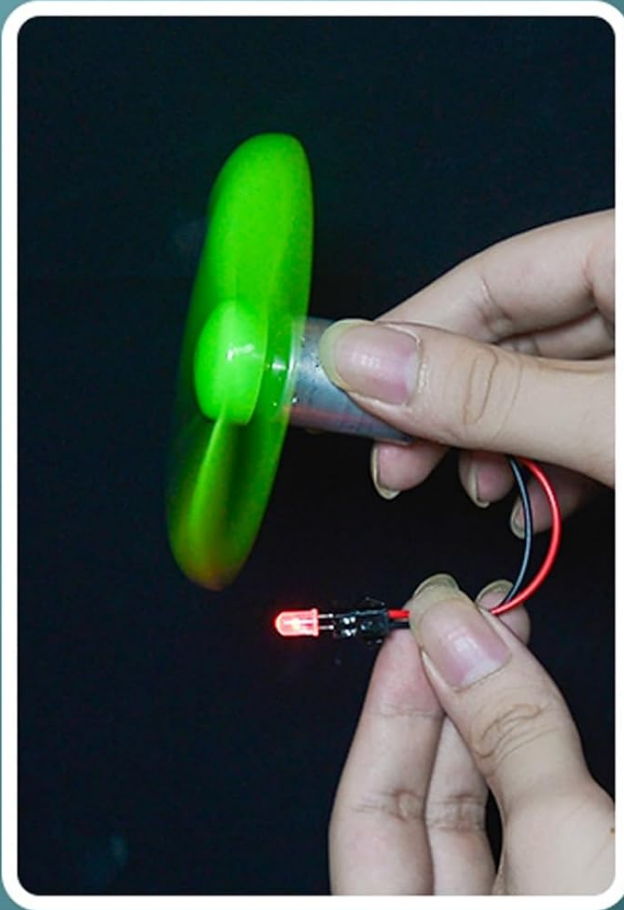


Image: Demonstration of LED operation with the spinning wind turbine.

Optional 1W bulb

Note: It needs strong wind to move

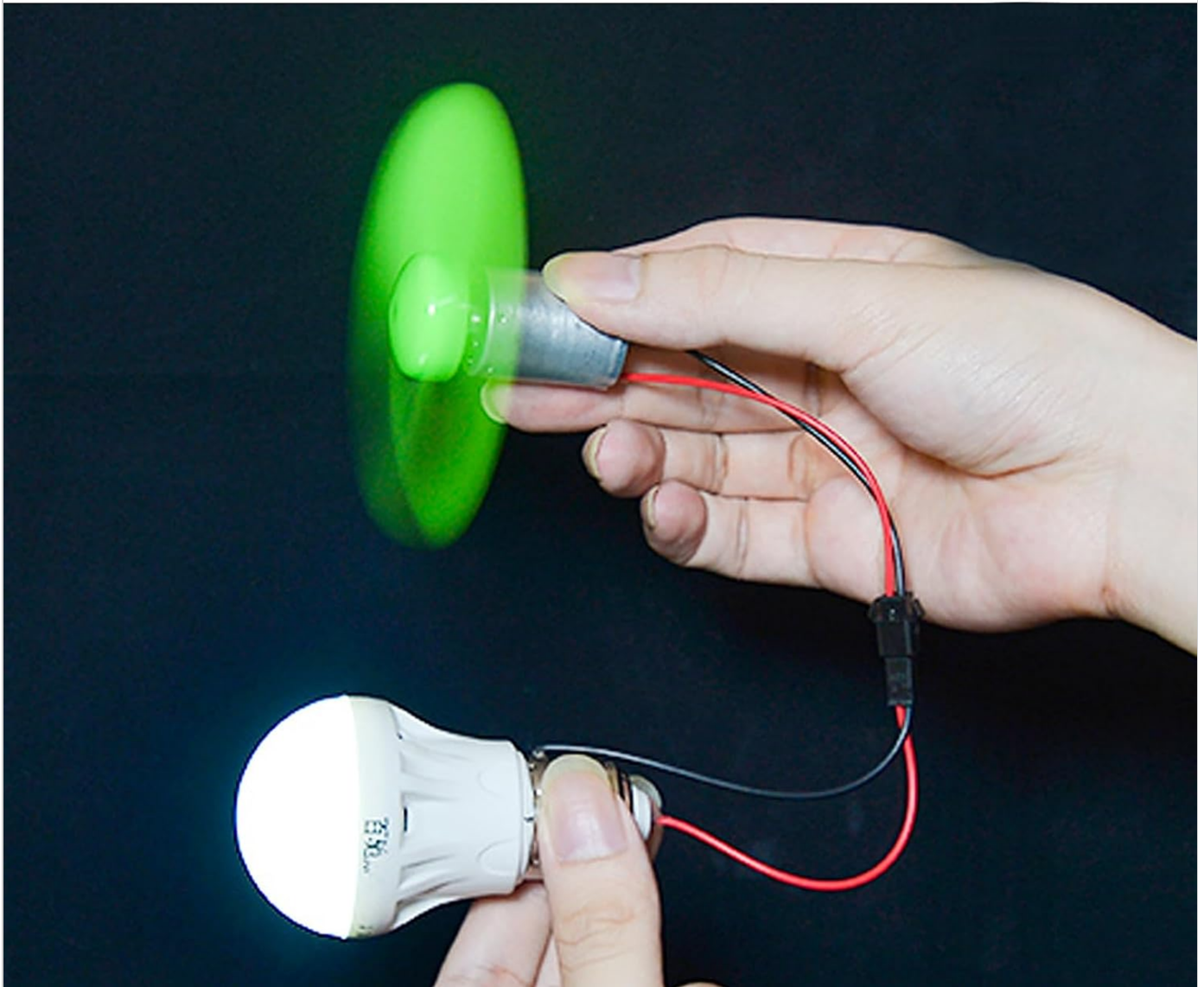


Image: The mini wind turbine powering an optional 1W bulb. Note that strong wind is required to move the bulb's internal mechanism.

MAINTENANCE

This mini wind power generator kit requires minimal maintenance.

- Keep the components clean and free from dust and debris.
- Store the kit in a dry place away from direct sunlight and extreme temperatures.
- Periodically check connections to ensure they are secure.
- Avoid applying excessive force to the blades or motor shaft.

TROUBLESHOOTING

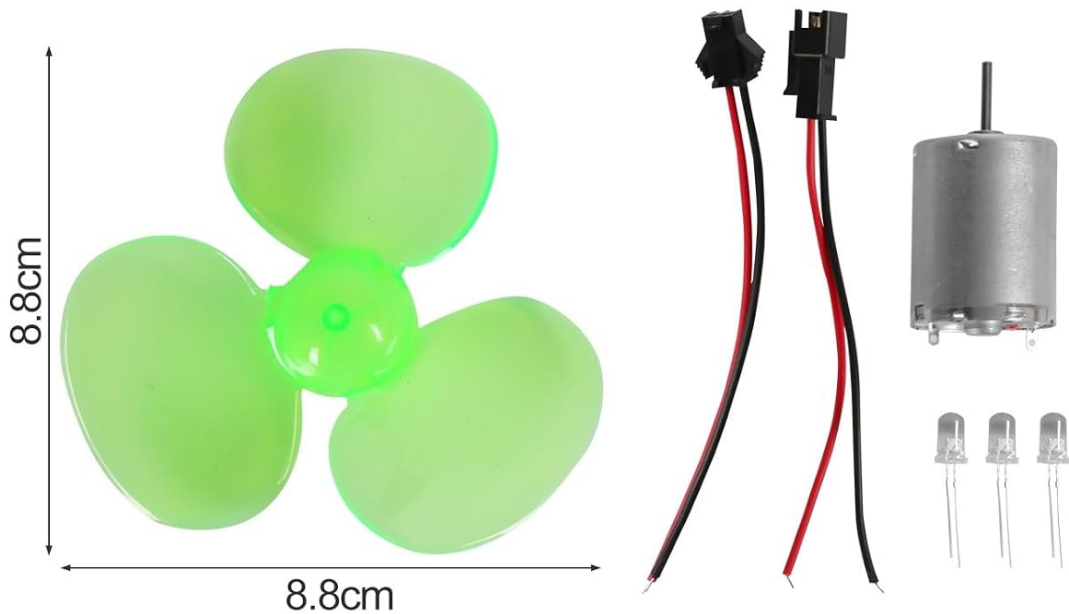
Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
LED does not light up.	Insufficient wind speed. Incorrect LED polarity. Loose connections.	Increase wind speed (use a stronger fan or outdoor wind). Check LED polarity and reverse if necessary (LEDs are not damaged by incorrect polarity). Ensure all wires are securely connected.
Blades do not spin freely.	Obstruction or friction.	Check for any foreign objects obstructing the blades. Ensure the blade is properly seated on the motor shaft and not rubbing against any part.
Generator makes unusual noise.	Misaligned blade or damaged motor.	Ensure the blade is correctly aligned and balanced. If the noise persists, the motor may be damaged; discontinue use.

SPECIFICATIONS

Detailed technical specifications for the Jadeshay Mini Wind Power Generator Kit.

Product parameters



Material: iron + copper

Output voltage: 0.01V-24V

Wind wheel diameter: 90mm

Rated wind speed: 3 m/s

Motor diameter: 24.5mm/1.0in

Wind level: start generating power and light LED at level 3

Rated power: 1W

Output current: 0.01mA-400mA

Number of leaves: 3 pieces

Rated speed: 100-6000RPM

Motor height: 34.2mm/1.3in

Image: Product dimensions and technical parameters.

Parameter	Value
Model Number	LLYTTQJTX
Material	Iron, Copper
Rated Power	1W
Output Voltage	0.01V - 24V DC
Output Current	0.01mA - 400mA
Wind Wheel Diameter	90mm (8.8cm)
Number of Blades	3 pieces
Rated Wind Speed	3 m/s

Parameter	Value
Rated Speed	100 - 6000 RPM
Motor Diameter	24.5mm (1.0 inch)
Motor Height	34.2mm (1.3 inch)
Wind Level for LED Generation	Starts at Level 3
Item Weight	30 Grams
Package Dimensions	10.9 x 8.9 x 4 cm
Recommended Age	6 years and up
Assembly Required	Yes

WARRANTY INFORMATION

Specific warranty information for the Jadeshay Mini Wind Power Generator Kit is not explicitly provided in the product details. Please refer to the retailer's return policy or contact Jadeshay customer support for details regarding warranty coverage.

CUSTOMER SUPPORT

For any questions, concerns, or assistance with your Jadeshay Mini Wind Power Generator Kit, please contact your point of purchase or refer to the Jadeshay brand's official support channels. Contact information may be available on the product packaging or the retailer's website.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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