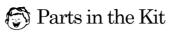
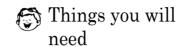
How to Assemble and Use the Supplement

Wind Power Generator

Assembly time Approx.





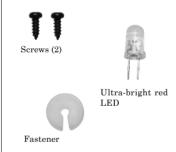
Phillips screwdriver, plastic bottle (with capacity of 1.5 liter or more), thin plastic sheet (the plastic sheet wrapping the supplement can be used.)

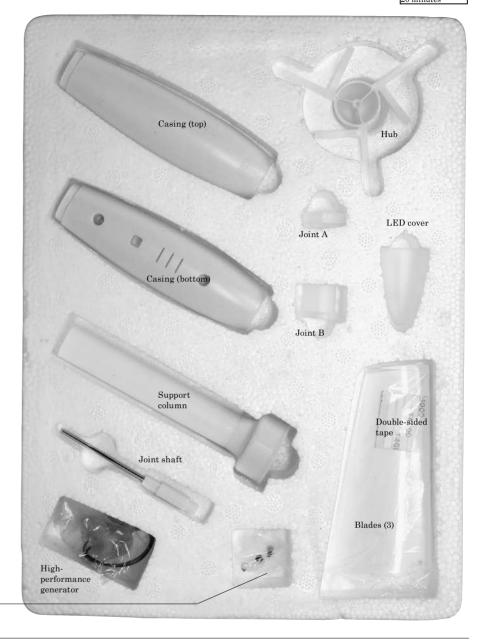
Notes for tightening screws

The types of screws used for the supplement are those that carve grooves into the plastic as they are inserted (self-threading). When tightening screws, firmly press the provided screwdriver straight against the screws and turn. It is said that 70 percent of the force applied is used for pushing against the screw and 30 percent for turning it. Precision screwdrivers are hard to turn, so use a small screwdriver with a grip diameter of about 2 cm.









(CAUTION

Please be sure to read the following instructions before assembling this kit.

- Take necessary caution when handling parts with pointed edges. There is a risk of injury.
- This kit includes screws and other small parts. Be careful not to swallow them. There is a risk of suffocation.
- ☐ If placing the wind power generator on a balcony or the like, be careful not to let it fall. It would be extremely dangerous, in particular, for the wind power generator to fall from an upper floor of a tall building.

 ☐ Take the wind power generator into the house when it is raining or there are strong
- □ Take the wind power generator into the house when it is raining or there are strong winds. Failure to do so may cause the wind power generator or casing to become damaged.
 □ Do not touch the blades with your hands when they are rotating at high speed. There
- Do not touch the blades with your hands when they are rotating at high speed. Thei is a risk of injury.
- Please read the instructions and cautions thoroughly before trying it out.
- For your safety, be sure to follow the instructions in this manual. In addition, do not use any parts that have become damaged or deformed during use.
- Keep this kit out of the reach of small children after using

Plastic materials used in this kit

Casing/bottle cap (white): ABS

Hub (white)/LED cover/generator cover (semi-transparent): PP

Joint A/joint B/fastener (white): POM

Support column (white): PS

Generator shaft bearings (semi-transparent): PC Blade (white): PET

* Lead wires are covered in vinyl chloride resin.

Metallic materials used in this kit

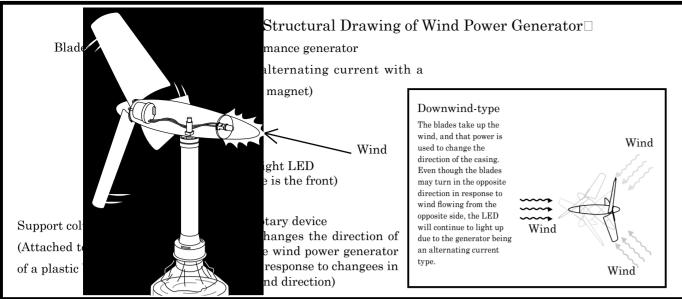
Rotation shaft of casing: Iron/nickel plating Generator shaft:

Stainless steel

Magnet: Neodymium magnet Screws: Iron

Coil: Covered copper wire

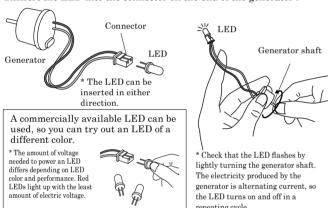
 $\mbox{\ensuremath{^{\star}}}$ Please dispose of this product in accordance with local regulations.



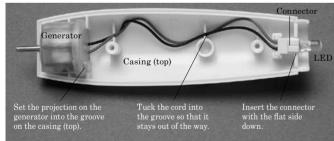
Assembling the Body

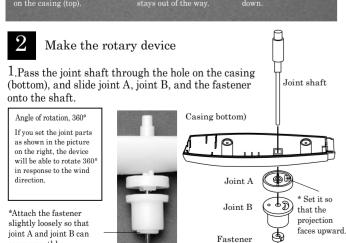
Put the generator and LED together

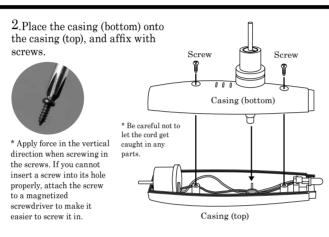
1. Insert the LED into the connector on the end of the generator .



2. Set the generator and the connector inside the casing (top).



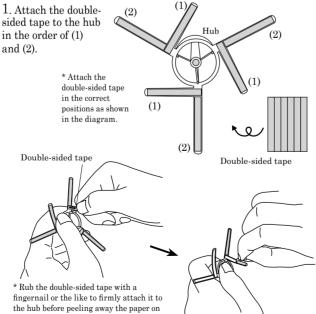


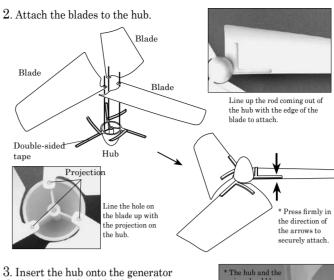


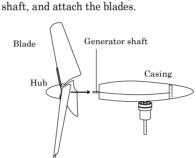
over the LED LED cover LED

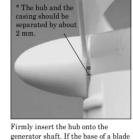
Attach the blades.

3. Place the LED cover





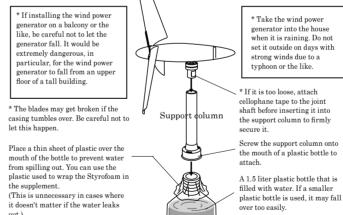


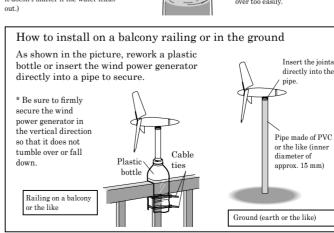


is touching the casing, use a flathead screwdriver or the like to move the casing back slightly.

Installing the Generator

As shown in the picture below, the support column is made to be attached to a plastic bottle. This is convenient because it allows the wind power generator to be moved, so try it out with it inserted into a plastic bottle.





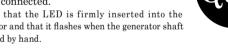
Changing the rotation angle The angle at which the generator rotates can be changed, depending on how the joint parts are put together. In locations where the direction in which the wind flows changes little, limiting the rotation angle may improve the efficiency of the Angle of Casing rotation 0° Wind Joint A * Turn joint A upside down. and insert the projection Joint B into the small hole on joint Fastener Support Casing Angle of rotation, 90° Wind Joint A

Q: The LED does not light up.

A: Check to see if the generator and the cord and LED are connected.

Wind

Ensure that the LED is firmly inserted into the connector and that it flashes when the generator shaft is turned by hand.



Joint B

Fastener

Support

* Insert the

large hole on

projection

into the

- Q: The blades do not rotate.
- A: Check for any contact between the blades and the casing. If the blades are making contact with the casing, rectify by pulling the hub slightly out of the generator shaft.
- A: Check whether the generator shaft can rotate smoothly. If the wind power generator is exposed to rain or the like for an extended period of time, rust may form on the generator shaft. In such a case, apply some light machine oil or the like to the shaft.
- Q: The wind generator does not turn to face the wind.
- A: Check the support column for tilting.

If the support column is not perfectly vertical, the generator will not be balanced, and instead of turning to face the wind, it will tilt towards its heavier side. In such a case, reorient the column so that it is perfectly

Otona no Kagaku