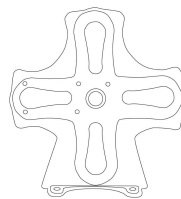
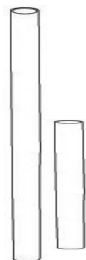
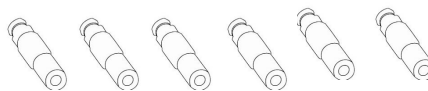
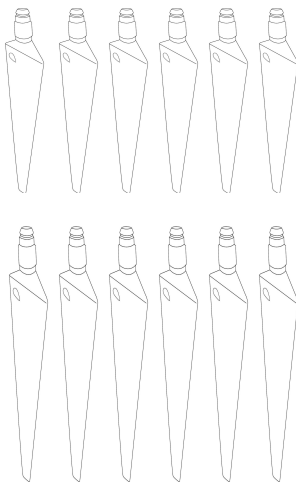
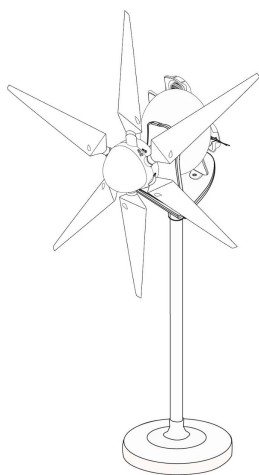


SKY-Z AC Limitless Wind Turbine



18 BLADES
HUB

2X TOWERS

BASE

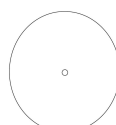
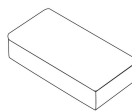
NACELLE BASE

NACELLE FRONT

COIL HOUSING

NOSE CONE

2X



SHAFT
ADAPTORS

WING NUT LED

4X NACELLE SCREWS

4X COILS

4X MAGNETS

ROTOR DISC

6X DOWELS

6X STEM

4X TAPE BLOCKS

2X O-RINGS

SANDPAPER

CHECKLIST & OPERATION:

- Maximize power by changing the pitch angles for each blade size.
- At 0.9 V the LED lights up RED. As it spins faster the LED turns GREEN.
- A Multimeter or Oscilloscope are great for experimenting!
- A 20 inch box fan is the best size fan for use with the SKY-Z Turbines with the larger blades, but smaller blades require less surface area.

SKY-Z TROUBLESHOOTING

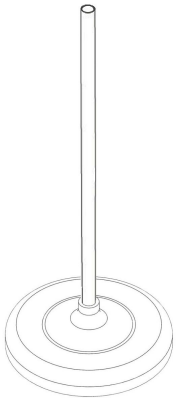
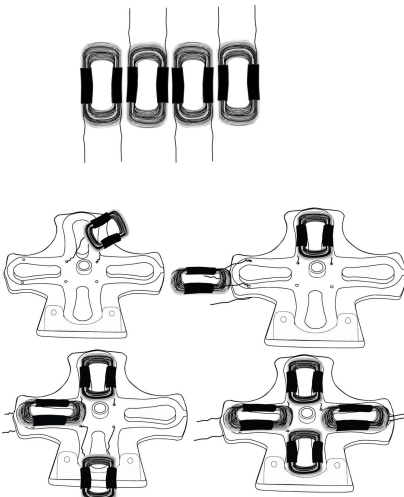
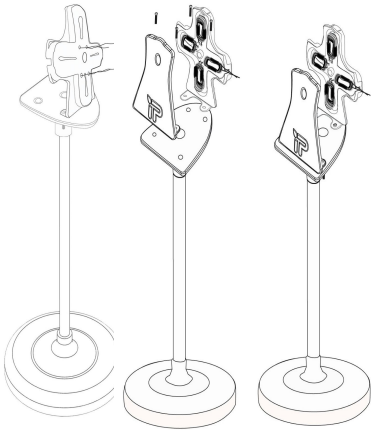
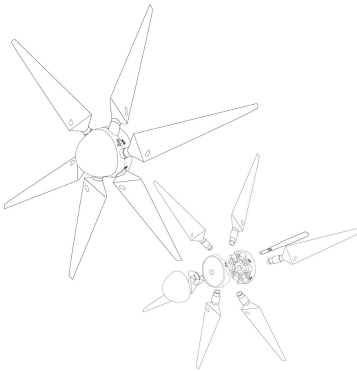
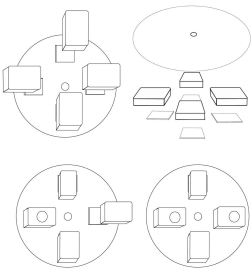
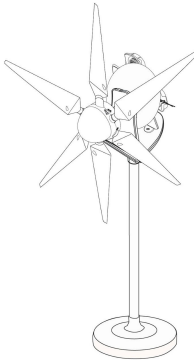
contact@picoTurbine.com for technical support!

1. Check orientation & pitch angle of the blades.
2. The concave surface (i.e logo), should face the wind. If the pitch angle is negative or too high, blades may not turn.
3. Smaller blades produce power at higher pitch angles (20°-30°) while larger blades can turn at lower pitch angles.
4. LED does not light up when blades are spinning: Use a multimeter if you have one to check operating voltage.

www.picoTurbine.com

5. LED does not light- Check that Coils and Magnets are alternating.
6. LED does not light up- Check all of your coils leads to ensure enamel is all off and that they have a secure connection.

ASSEMBLY STEPS

		
<p>Step 1- Base-Tower Assembly Connect the tower into the tower base. The deeper the less chance of wobble. Wobbling may occur, especially with the larger blades but will settle down after a few seconds.</p>	<p>Step 2- Coil Housing Assembly a) Line up all 4 coils alternating as shown above b) Using sandpaper, shave off the enamel off the coil leads (1-2" 25-50mm) before placing them in the coil housing c) Use the holes as a guide for where your leads will go. Connect your leads. d) The two left are used for connecting</p>	<p>Step 3- Generator Assembly a) Connect your Nacelle Base to your tower. b) Connect your Nacelle Front to the front of your Nacelle Base as shown. c) Connect your Coil Housing to the back of the nacelle base. Note: Use screws & nuts to connect them together</p>
		
<p>Step 3- Blade Assembly a) Place blades in the hub with the leaf on the blade facing forward and sandwich them together. b) Compress components together with your fingers and insert shaft into the back c) Use the Wing Nut to compress the blade assembly. d) Connect the Nose Cone.</p>	<p>Step 4- Magnet Disc Assembly a) Place the magnets on the disc using double sided tape as shown. b) Alternate each magnet with the dot facing up. c) The dot represents the North Pole d) You are now ready to assemble your generator. Place the magnet disc assembly between the Nacelle Front & Coil Housing</p>	<p>Step 5- Generator Assembly & Power Setup a) Push the shaft through the Nacelle Front, Magnet Disc, & coil housing shaft from the blade assembly through. Add an o-ring to secure. b) Connect either your LED, Buzzer, or multimeter to see your power output. Note: You can try to change up your tower height for stability. By using the shorter tower and smaller blades they tend to keep the Turbine well balanced.</p>

