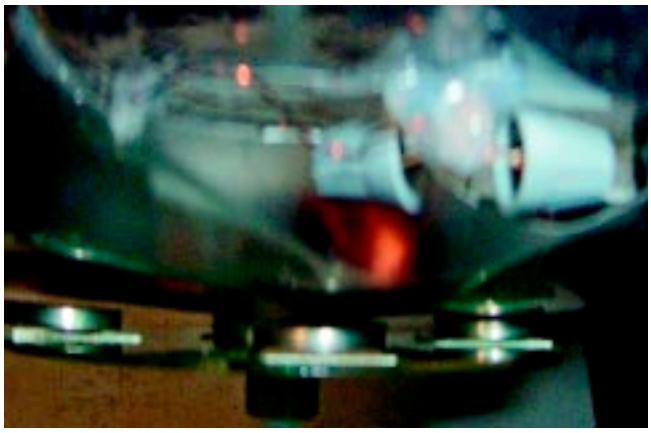
ROTOR ASSEMBLY AND INSTALLATION INSTRUCTIONS

Material: **Eye Protectors**
1 CD
Marking Pen
4 Magnets (2 marked N; 2 marked S)
Compass
Glue Gun & Glue
1 Tolerance Card (between coils and Magnets)
1 Hex Nut, Plastic
4 Washers, Plastic

1. The CD has double faced tape positioned where the magnets are to be placed.
2. Using the compass determine the side with north polarity of two of the magnets and mark the side with south polarity on two other magnets, using the compass. Mark Poles with pen. CAUTION: Do not allow magnets to come together. They are very difficult to separate.

3. Position the magnets on the rotor over each of the taped areas of the CD surface with **alternating polarities *(important)***, as indicated on template. Peel off the protective layer over each of the pieces of tape and **press the magnets firmly onto the tape**.
4. Slide three plastic washers (to set space) against the Hex Nuts on the rod next to stator.

5. Place the rotor (magnet side down) onto the shaft. Place a plastic washer over the shaft and center on the hole of the CD. Thread a Hex Nut up against the CD, adjust the space against the three inside washers and lock the nut against the outside nut of stator. You will need to reach and hold this hex nut with needle nosed pliers and/or reach through opening in container to hold shaft from turning.



Above photo is viewed from above container to show the spacing of the rotor to the stator, when in final position.

6. Always use tolerance card between rotor and stator to store hydro generator.

7. When you have checked carefully that the rotor turns without striking the coils, your hydro generator is ready to try, using the multimeter connected to the two connector wires extending up from the stator. **Note***: **magnets will catch and/or attract any wire or loose metal objects.***
8. As you spin the shaft by hand, you can see the digital read-out of milivolts – volts on the face of the multimeter, when **meter is set to volts AC, marked V~.**