

ASSEMBLY INSTRUCTIONS FOR WIND TURBINE CLASS MODEL

NOTE: THERE IS NO NEED FOR GLUE, ALL PARTS SHOULD BE PRESSURE FITTED.

STEPS:

1. A standard particleboard size is 24"x 24" x 5/8". Cut the particleboard into 4 - 12" X 12" squares. Then drill 1" hole in the center. (enough material for four base)
2. Cut 3/4" polyvinyl chloride (PVC) into four sections [two - 1 inch long (nipple) and two - 12 inches long].
3. Drill one 5/16" hole thru one side of one -12" long PVC pipe, two inches from one end.
4. Cut a slit 1/8" wide by 3 1/2 "long on one end of the 3/4" PVC pipe. This is to insert the 1/8" plastic stabilizer. Drill two 1/32" holes approximately 1/2" from each end of the slit for screws to secure the plastic stabilizer. **THE ORNAMENTAL STABILIZER CAN BE OMITTED, IF NOT INSTALLED OMIT THIS STEP.**
5. Cut AWG # 18 size wiring 24" inches long.
6. Attach # 18 wires to 1.5 DCv motor (positive pole noted on back of motor by a circle indent next to terminal or by a plus sign). Twist wire around terminal, soldering will result in more secure connection.
7. Insert the two 3/4" PVC nipples into the 3/4" PVC tee (one in the bottom and the other in one end). Insert bottom nipple into coupling (union)
8. Insert wiring, motor into the nipple that is inserted at one end of the PVC tee, and pass the wiring down thru the bottom of the tee, nipple and coupling.
9. Insert the wiring down thru the 3/4" PVC pipe in which the 5/16" hole was drilled in step 3. (5/16" hole should be located at the bottom.)
10. Install spline (axle) extension on motor.
11. Drill 1/4" hole in top of 3/4" PVC cap.
12. Press fit all parts together
13. Install hub on axle.
14. Make propeller or purchase from hobby shop.