

Re-circulating Tesla CD Turbine Blender  
Bill of Materials

Basic Turbine:

- CD Cakebox (includes CD Spindle and CD Case)
- 25 of CD discs
- 132 of 1/32 x 3/16 inch neodymium magnets (K&J Magnetics #D301), about \$25.
- 12 of 1/2 x 1/2 inch neodymium magnets (K&J Magnetics #D88 or D88-N52), about \$25.
- Tapered plastic power nozzle, (Holland Greenhouse brand, "Plastic Power Nozzle" \$1.29)
- Superglue, heavy duty, best quality
- Marine Goop (or waterproof HD polyethelene glue)
- 6 Hot Glue sticks

Additional Parts and Equipment:

- 1 - Blender minus base, re-cycled.
- 1 - Protective shield (1/8 inch x 6 inch polycarbonate tubing, 7 inches long) \$18.00
- 1 - 12 volt Water Pump, on hand, or similar to \$302.26 Allied Stock # 547-1009
- 1 - 12 volt Auto Battery, on hand, or for \$27.16 Allied Stock # 710-1266
- 1 - Solar Charging Panel, 15 watt, Canadian Tire on sale \$30.00, or \$281.93 Allied Stock # 090-SPEC
- 1 - Compressed Air Storage Tank ( on hand, or \$30.00 new)
- 1 - 12 volt Air Compressor, RV/Truck style (on hand...or \$50.00 new)
- 1 - Garden Hose Foot Control shut-off valve (on sale @ garden store \$6.99)

- 2 - short garden hoses (on hand)
- 1 - 5-gallon bucket
- 1 - Y-connector for garden hose (\$2.99)
  
- Polyurethane Air Tubing, \$39.44 (100 ft. Coil), Allied Stock#: 499-163
- misc - air fittings to connect to tank and foot control
- SMC Pneumatic Pressure gage, 0-160 psi, \$8.29 Allied Stock # 499-0260
- SMC Pressure Regulator 7-125 psi adjustable, \$12.31 Allied Stock # 499-0332
- Tachometer (optional) similar to Allied Stock # 577-0146
- various controls, valves and fittings that could be from other hydraulic or pneumatic applications.
- R/C wireless fluid valves and wireless controlled electrical switches would be fun!

Tools Required:

Hot Glue Gun

Drill or Dremel Tool