Direct Drive Turbine Build

**What Will You Need?**

You will need the following to assemble your direct drive turbine.

**Alternator (Stator & Rotor)**

A guide for creating the alternator is available at TeacherGeek.com or by clicking here.

**Blades & Hub**

A guide for creating the blades & hub is available at TeacherGeek.com or by clicking here.

**One 7in (180mm) Dowel**

**One #10 Washer**

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A gearbox can be added to your direct drive turbine to increase power output.

**1. Attach the Axle**

Push/tap the 7in (180mm) dowel through the rotor and into the hub.

It should look like this.

Caution: Do not ream the stator or hub.

**2. Slide on the Stator**

Place a #10 washer on the axle, then slide on the stator.

The stator center hole should be reamed so it slides on and rotates easily.

Your turbine is finished.

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3. Stand it up

Use the TeacherGeek stand or create your own.

Optional: Slide stop or a stop-clip can be used to keep the turbine from sliding off when it stops spinning.

19/32 (15mm) Hole

1/4in (6mm) Hole