

GEAR BOX BUILD

PARTS REQUIRED

- Two Hole Plates
- Five 12in (300mm) Dowels
- One 10, 20, 40 and 50 Tooth Gear
- Two Stop Clips
- One #10 Washer

TOOLS REQUIRED

Cutters: Multicutters, pruning shears or a saw



Phillips Screwdriver

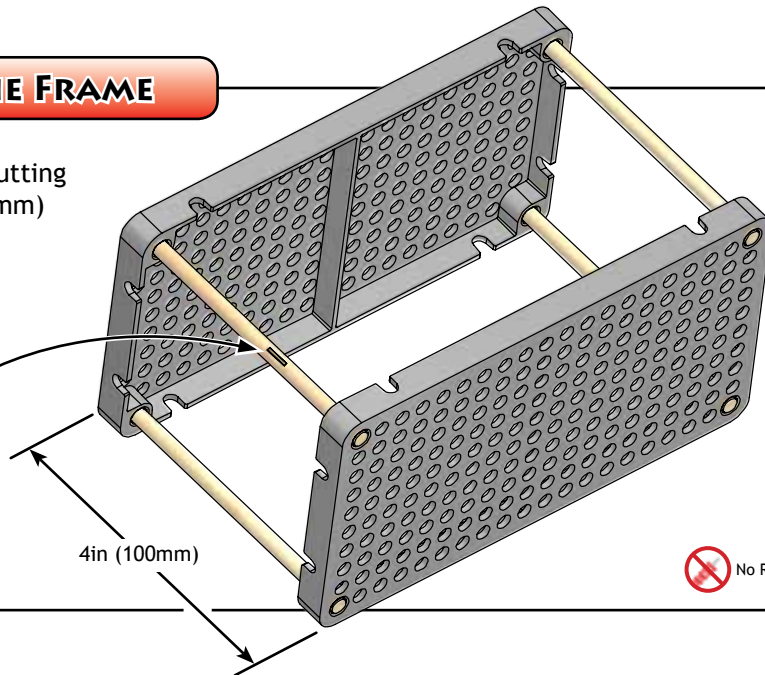


Pliers or a wrench to grip #10 square Nuts

1. CREATE THE FRAME


Create the frame by cutting and inserting 4in (100mm) dowels into hole plate corners.

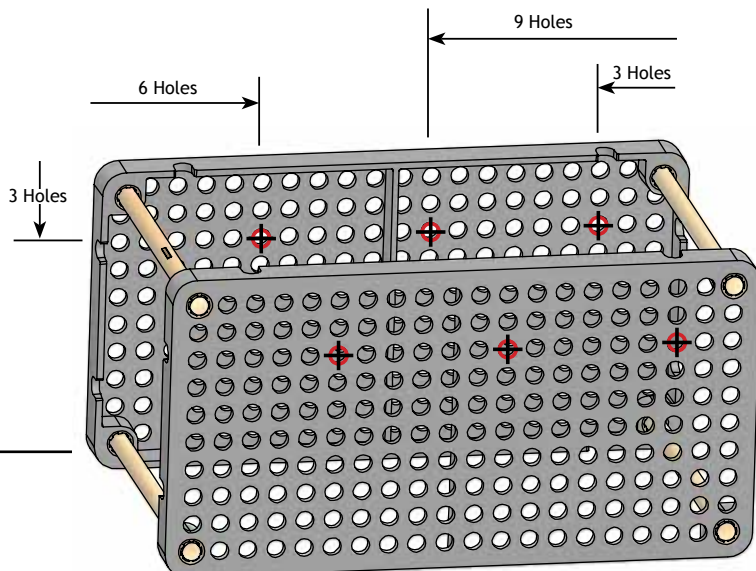
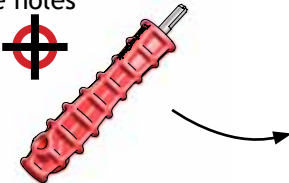
Tip: Make a mark on this dowel. It will be used as a reference.

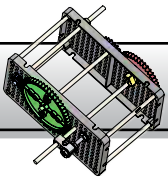


2. REAM THE FRAME

Ream the holes in the frame in which dowels will need to spin freely.


Only Ream the holes shown with a 

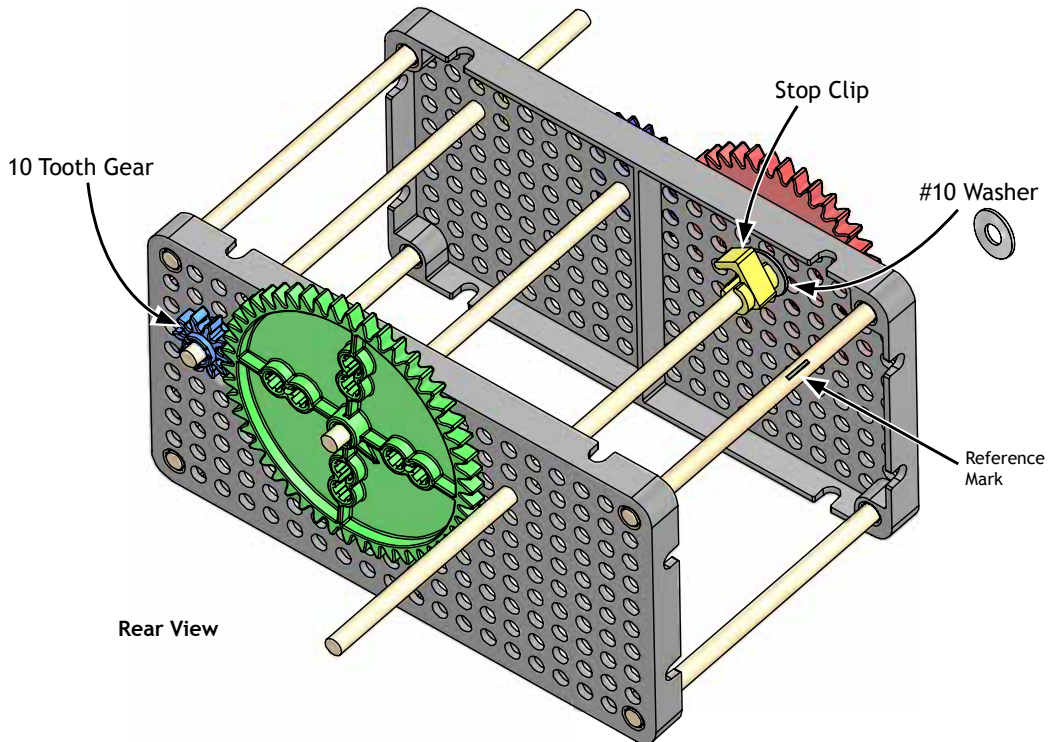
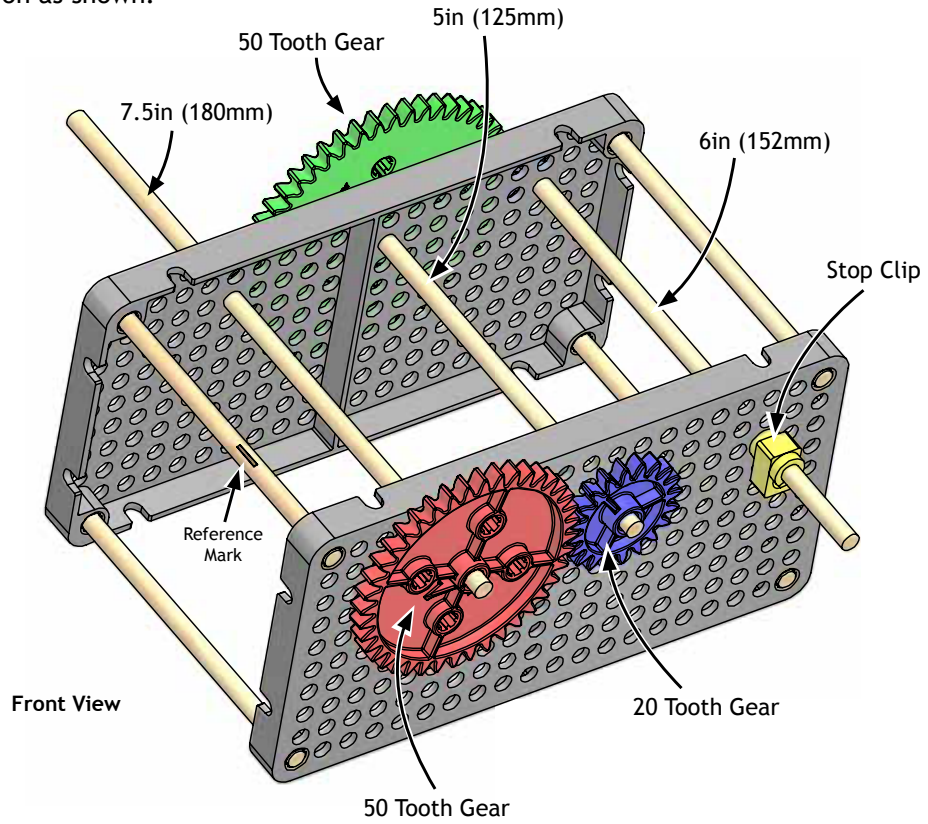


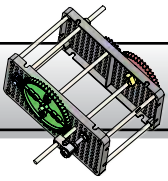


3. GEAR IT

Create a gear transmission as shown.

 **Caution:**
Do not ream
the Gear Holes





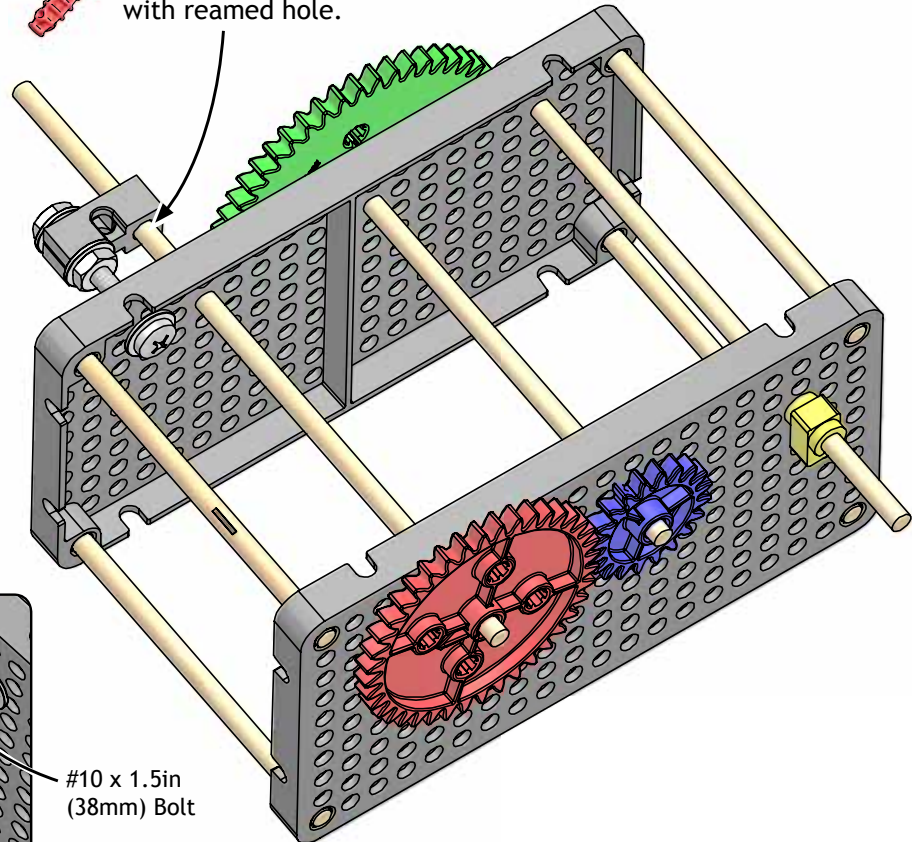
4. OPTIONAL DRIVE SHAFT BRACE

This optional (not included) brace can keep the drive shaft from flexing.

Perpendicular Block with reamed hole.

#10 Nuts and Washers

#10 x 1.5in (38mm) Bolt



The Gear Box is done!

EXPERIMENT. IMPROVE IT.

Now that you know how a gear box goes together, you can experiment and create your own design to best fit your turbine.

