

Sample assembly instructions

(full instructions run to over 50 photographic steps)

1.1



Wash your hands and keep them clean, even clean hands are sweaty and acidic which will spoil surface finishes in time.

Check components against list.

Insert small 'O' ring into underside of gland. Make sure 'O' ring is seated correctly.

2.3



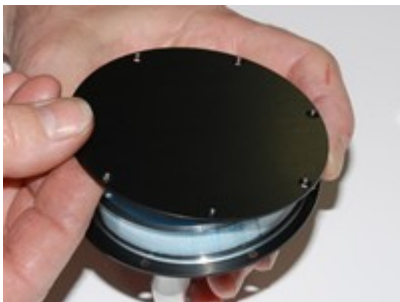
Screw fully home, again making sure the 'O' ring remains correctly seated. As with the gland, you will feel the 'O' ring compress and create an airtight seal at this point.

3.2



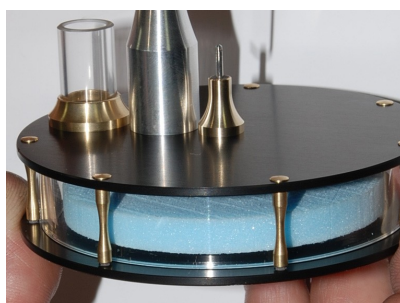
Take the displacer stem and clean it, then insert it blunt end first, half way into the marked side of blue displacer and put to one side.

4.1



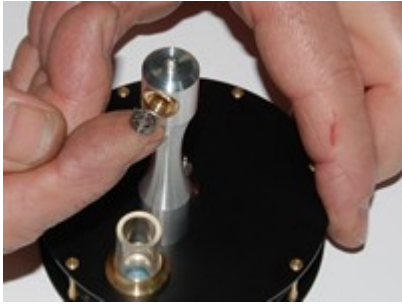
Lay the previously assembled base plate & 'O' ring on to the acrylic tube. Take care that the 'O' ring does not fall out.

5.5



The brass pillars are deliberately short and will not reach the base plate (this is for reasons of thermal insulation).

6.3



Insert the two bearings, one in each end of the bearing housing, with open sides inwards.

(for reference, the bearing in the photo is open side upwards)

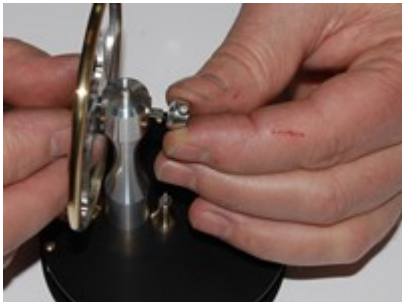
7.1



Take the flywheel so that the spokes point to the right.

Insert the hub/axle, position the "K" in the word "KONTAX" over the balance hole in the spoke disk.

8.2



Carefully insert the axle through the bearings.

Take note of the alignment of the small flat section on the axle.

9.1



Take one white nylon threaded bush and one con-rod, fit con-rod eye over bush with the hook on the con-rod pointing as shown.

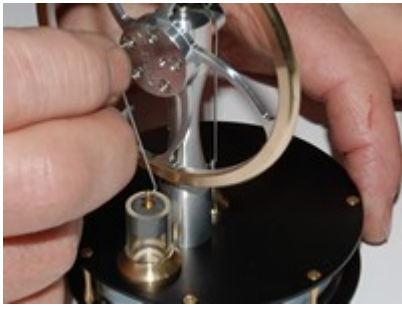
10.2



...and screw into face of crank on the axle. Tighten only sufficient to lock (over tightening will spread the nylon threaded bush and spoil the free running).

Note the alignment of the hook on the end of the con-rod, it should point towards the main pillar.

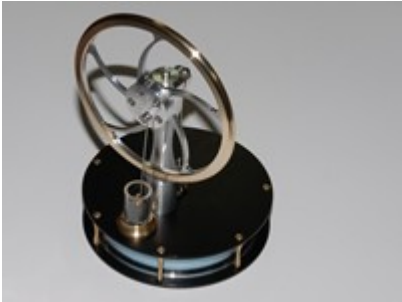
11.4



Lower the graphite piston into the glass power cylinder and push down using the con-rod (some back pressure may be felt, this is good).

Note the alignment of the hook on the end of the con-rod, it should point away from the main pillar.

12.1



Engine completed!

Give the flywheel a spin. Everything should run smoothly.