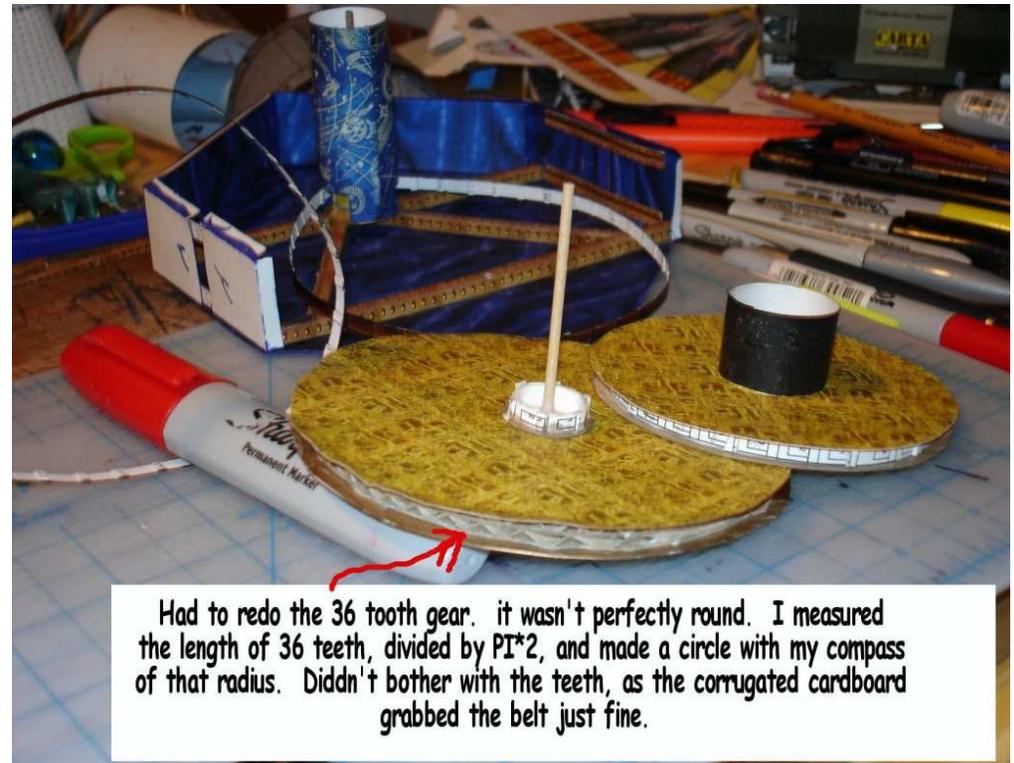
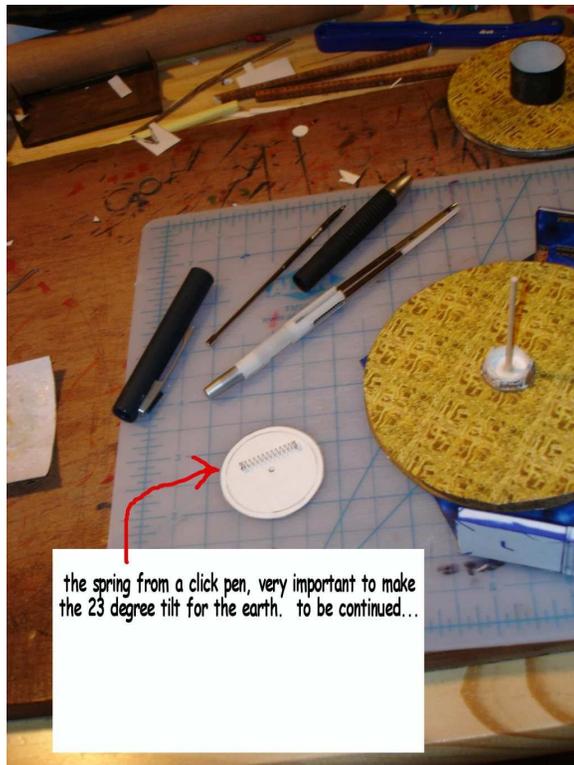




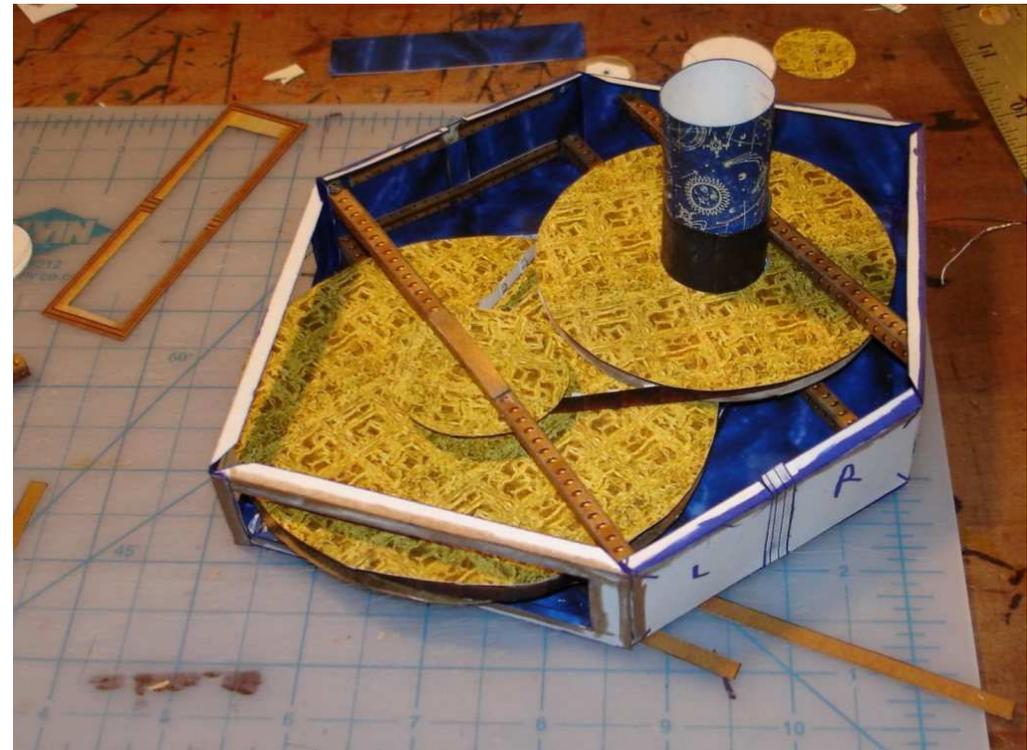
here is the reconstructed 36 tooth gear. made from two ply corrugated cardboard.



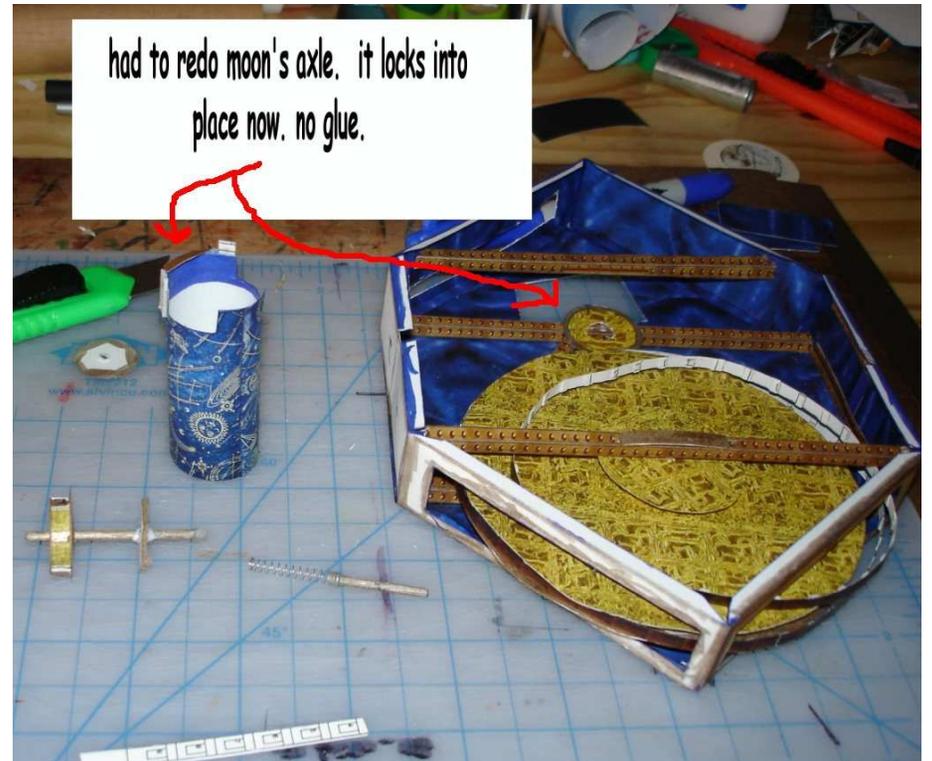
Had to redo the 36 tooth gear. it wasn't perfectly round. I measured the length of 36 teeth, divided by $\text{PI} \times 2$, and made a circle with my compass of that radius. Diddn't bother with the teeth, as the corrugated cardboard grabbed the belt just fine.



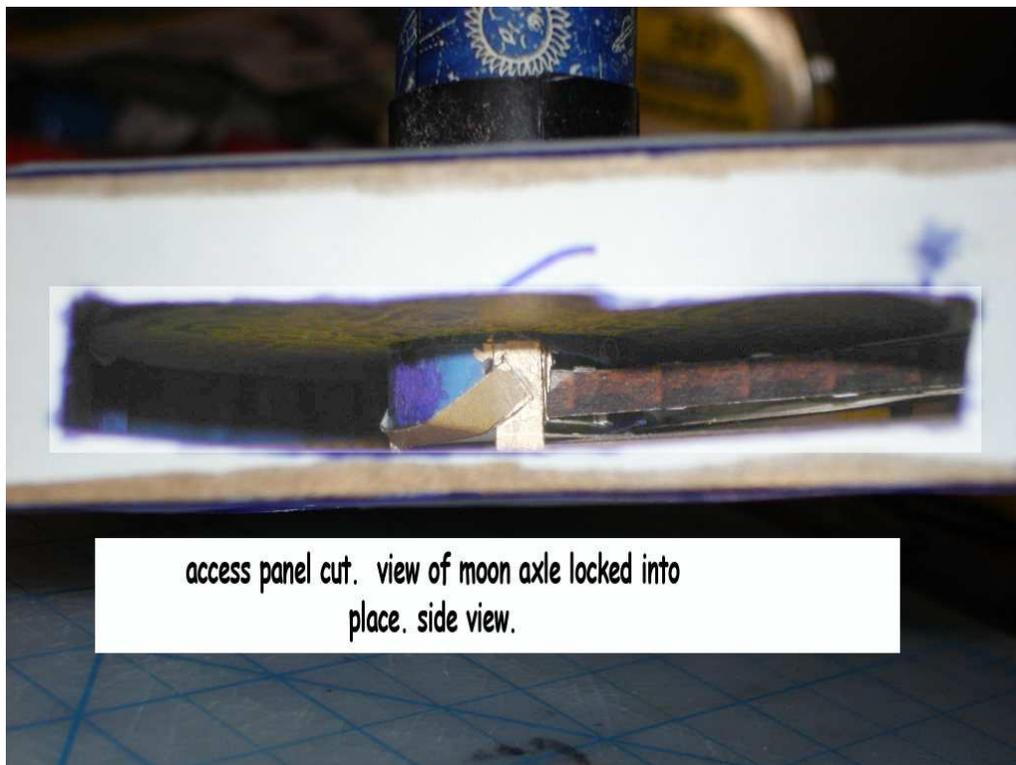
the spring from a click pen, very important to make the 23 degree tilt for the earth. to be continued...



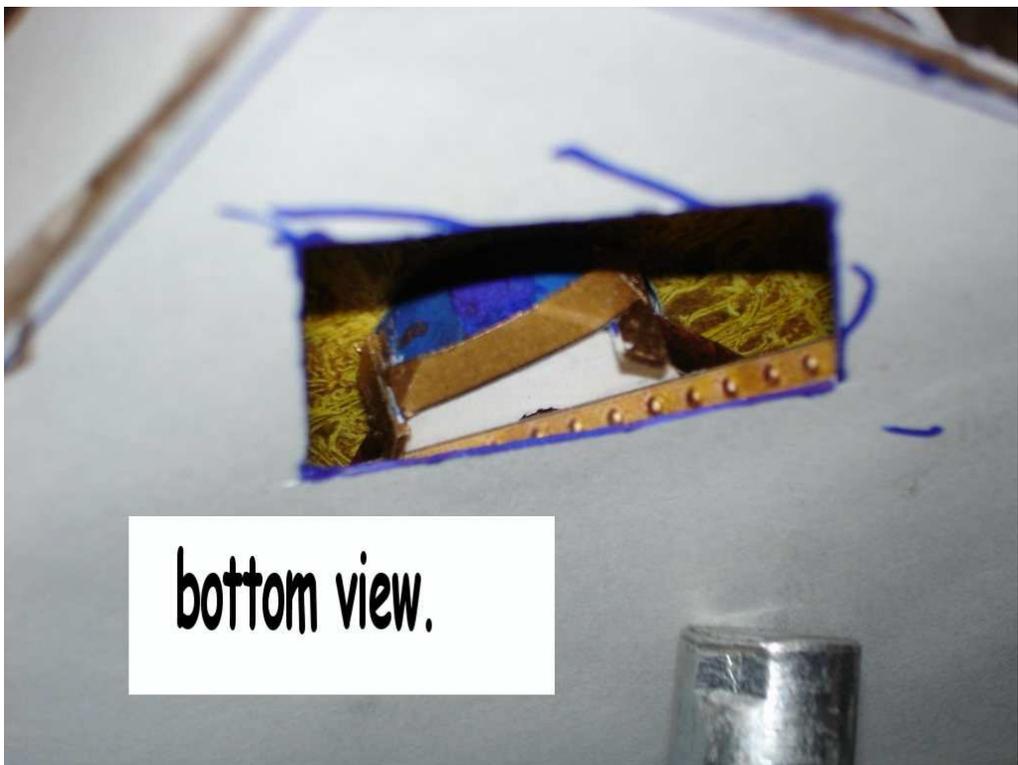
wood axle end "thickened up" with glue and the spring from a click pen glued at end



had to redo moon's axle. it locks into place now. no glue.



access panel cut. view of moon axle locked into place. side view.



bottom view.



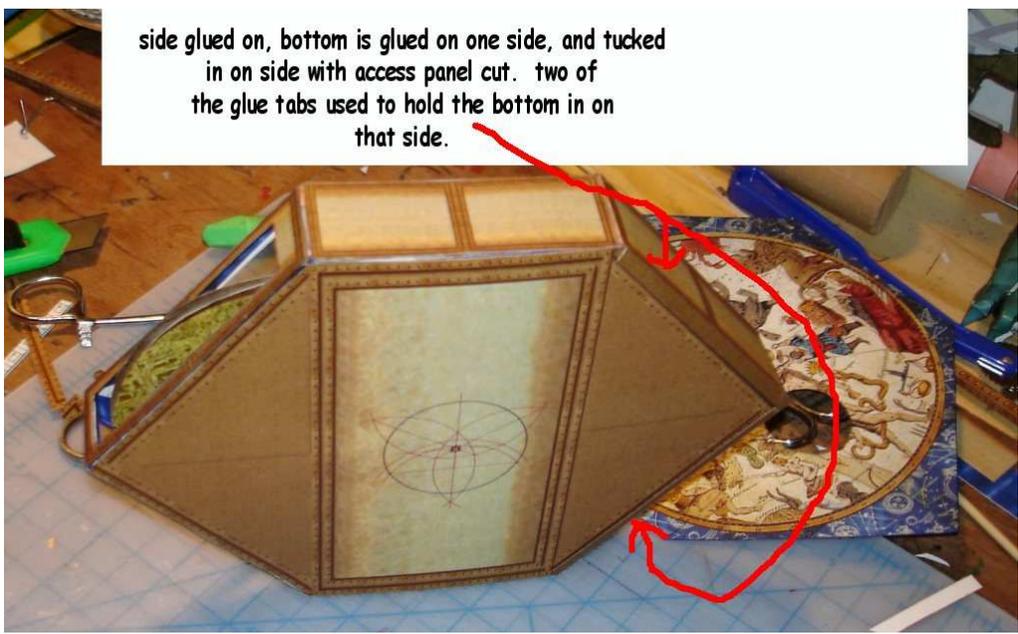
stress of belt pulls up here...



the fix, a bracket mount to hold it down. can be pushed out of way to remove gear, axle.



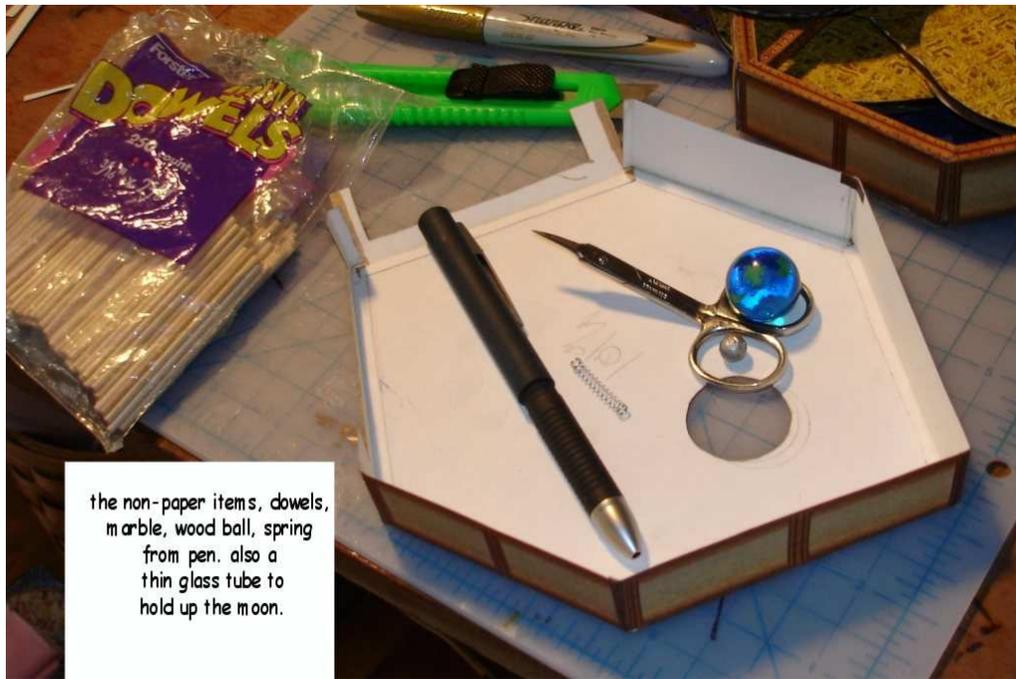
spring glued down to top of earth axle



side glued on, bottom is glued on one side, and tucked in on side with access panel cut. two of the glue tabs used to hold the bottom in on that side.



top printed at 101%, so it will also be a cover to a "box"



the non-paper items, dowels, marble, wood ball, spring from pen. also a thin glass tube to hold up the moon.





press fit height adjustment
to moon axle, and paper
bushing for earth axle
bending spring as
necessary.



