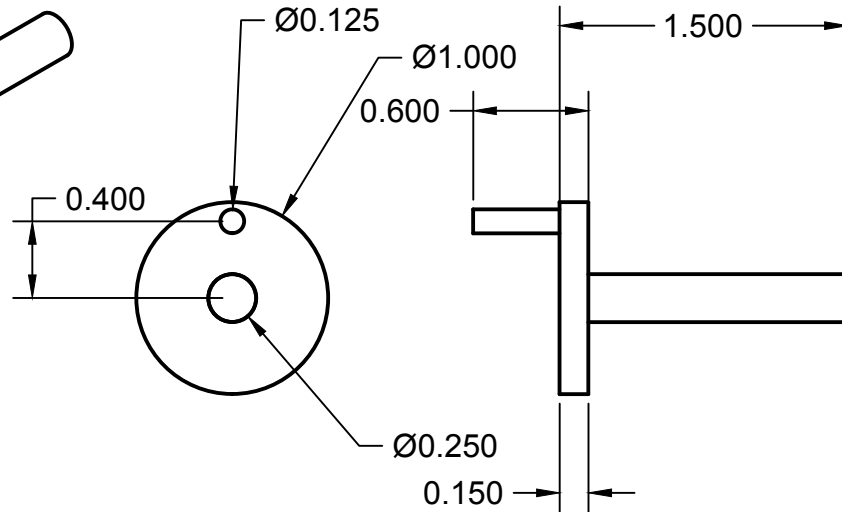
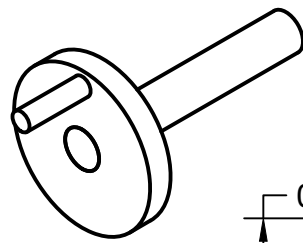


Main Bearing is made from bronze
Standard 3-bolt circle on a .260
radius



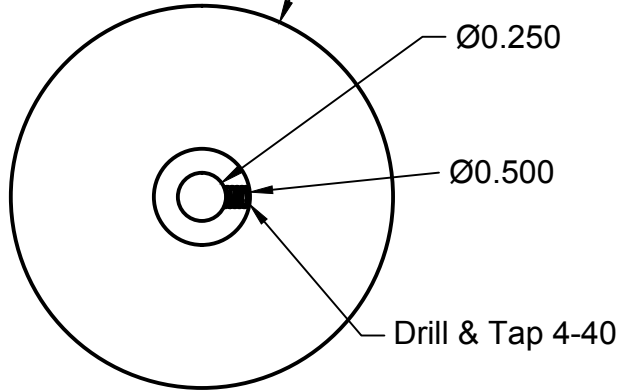
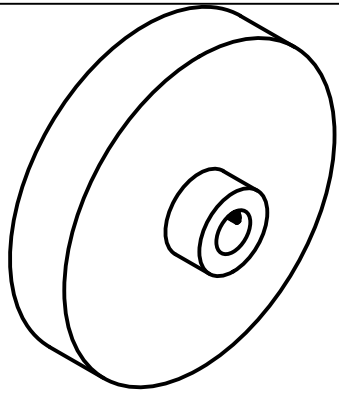
The crank body made of mild steel. All holes and drilled 1/64th
undersize and reamed to size. Pieces are joined with Loctite 603 or
similar.

The crank shaft is $\frac{1}{4}$ " O1 tool steel.

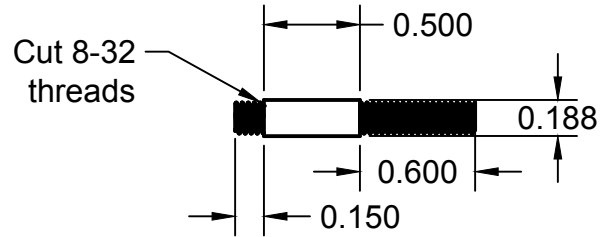
The crank pin is $\frac{1}{8}$ " O1 tool steel.

Based on an original design by Steve at <http://www.steves-workshop.co.uk>

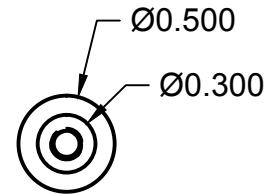
		PROJECT		
		Steve's Wobbler		
		TITLE		
		Crankshaft		
APPROVED	SIZE	CODE	DWG NO	REV
CHECKED	A			
DRAWN	Quinn Dunki	5/20/17	SCALE 1:1	WEIGHT
			SHEET	1/5



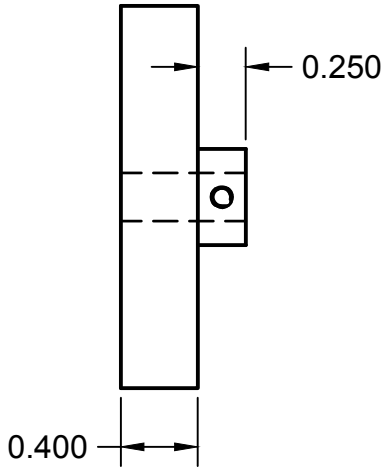
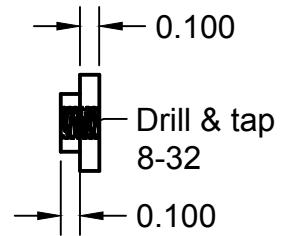
The flywheel is made of mild steel



The pivot pin is made of $\frac{3}{16}$ " O1 tool steel



The adjuster knob is made of brass and knurled



		PROJECT			
		Steve's Wobbler			
		TITLE			
		Flywheel Cylinder pivot			
APPROVED	SIZE	CODE	DWG NO	REV	
CHECKED	A				
DRAWN	Quinn Dunki	5/20/17	SCALE 1:1	WEIGHT	
			SHEET 2/5		

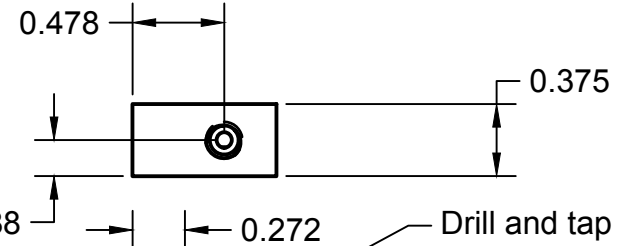
Steam intake tube is drilled halfway into frame, meeting up with the vertical tube.

Drill and tap 4-40

0.227

0.750

The frame is made from $\frac{3}{4} \times \frac{3}{8}$ brass bar stock



Exhaust valve drilled through

0.712

0.250

0.500

1.150

Ø0.080

Ø0.080

Ø0.188

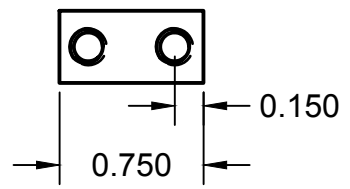
Transfer punch from main bearing

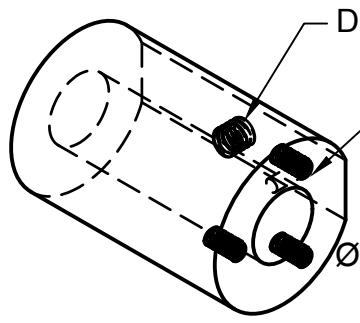
Ø0.340

1.100

Drill and tap 10-24

0.450





Drill and tap 8-32

Drill and tap 4-40

Ø0.438

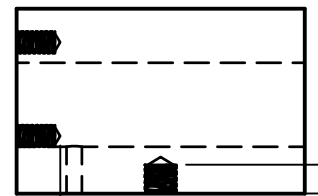
R0.500

0.227

Transfer punch from cylinder head

Face off 0.037 by holding sideways in 4-jaw chuck

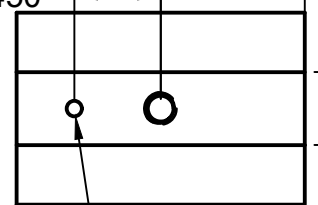
0.463



0.150

0.450

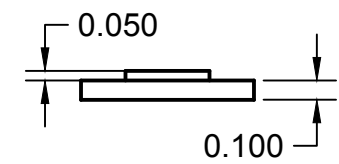
0.750



0.380

Ø0.080

1.500



0.563

Ø0.438

Ø0.900

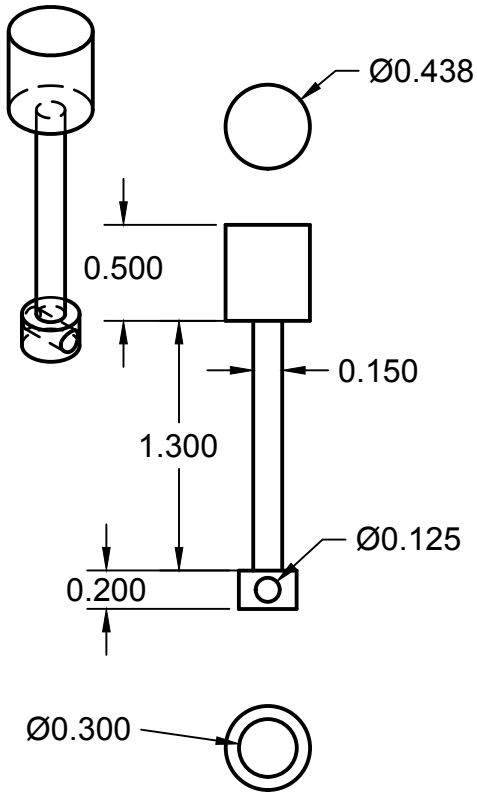
Ø0.116

0.325

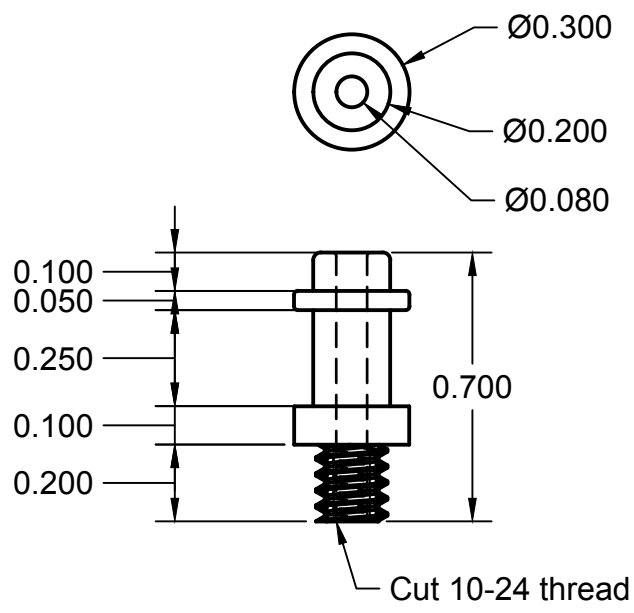
The cylinder head is made from brass, and has a standard three-bolt circle at 0.325

The cylinder is made of brass. The flat side is faced off by holding it sideways in a four-jaw chuck. The cylinder is drilled $\frac{1}{64}$ " undersize, reamed to size, then polished with fine emery paper.

		PROJECT			
		Steve's Wobbler			
		TITLE			
		Cylinder & Head			
APPROVED		SIZE	CODE	DWG NO	REV
CHECKED		A			
DRAWN	Quinn Dunki	5/20/17	SCALE 1:1	WEIGHT	SHEET 4/5



The piston is brass, and the head is polished with fine emery paper for a smooth sliding fit in the cylinder.



The steam fitting is made from brass and is designed to fit $\frac{1}{4}$ " ID vinyl tubing (for running on air). If running on live steam, another type of fitting can be created to screw into the same place.

		PROJECT		
		Steve's Wobbler		
		TITLE		
		Piston Steam Fitting		
APPROVED	SIZE	CODE	DWG NO	REV
CHECKED	A			
DRAWN	Quinn Dunki	5/20/17	SCALE 1:1	WEIGHT
			SHEET 5/5	