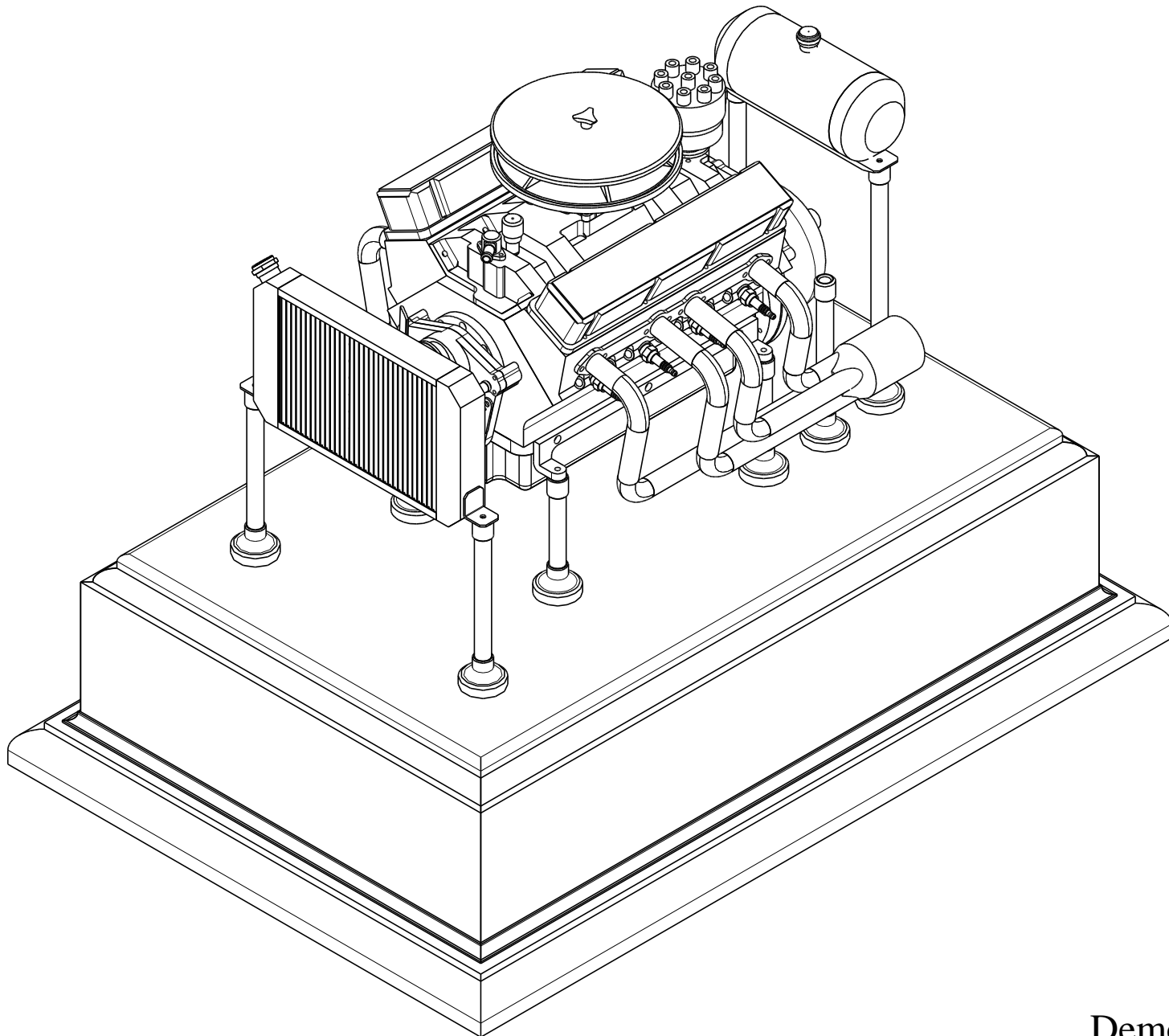
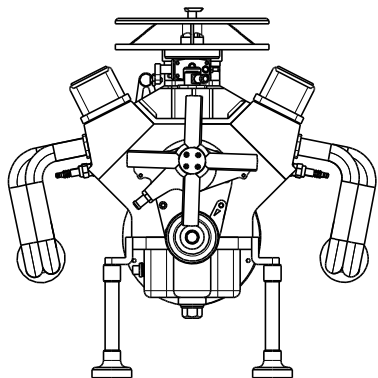
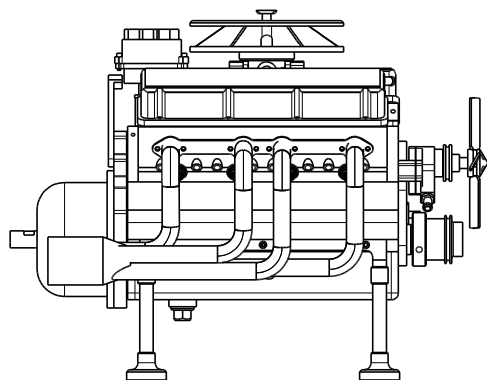
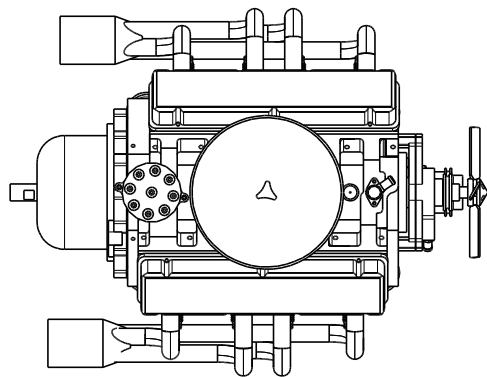


Little Demon V8



Demon V8

Designed By : Steve Huck	Page 1	Of 68
Pieces Required : N/A	Rev : 1.08	
Material : N/A		



Personal Use License: The Seller grants the Buyer a single, personal, non-exclusive, perpetual license to use these prints to construct one (1) set of components identified herein for use in constructing one (1) completed model engine for the Buyer's personal use. All commercial uses or commercial development are strictly prohibited. These prints and the single license to use them may not be used for serial production of more than one (1) set of components for one (1) model engine, nor may the prints be copied, resold, redistributed, re-licensed, sub-licensed, assigned, sold, transferred, shared or used in any manner which is inconsistent with the intent of a one time, one engine, one end-user (the original Buyer's) license to use the prints. All forms of title to and ownership of the prints and license to use them remain with the Seller.

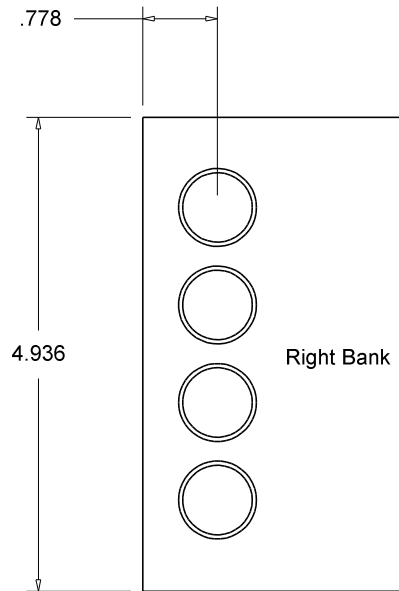
Warranties: The Seller disclaims all warranties, express or implied, written or oral, including merchantability or fitness for purpose of the prints and related license. The Seller is not liable for direct, incidental, special, consequential, punitive, exemplary or damages of any kind including, but not limited to, personal injury, damage to real or personal property, loss of earnings, profits or anticipated profits, loss of business opportunity or any other loss arising or relating to the Buyer's use of the prints, license, components (unfinished or finished), fixtures or jigs used during manufacture, component assemblies or the completed engine during operation. The Seller also disclaims all liability for damages of any kind (as previously summarized) which arise during the Buyer's construction of the components identified in the prints (or jigs and fixtures used in their manufacture), including (but not limited to) personal injury or damages incurred by the Buyer from the operation of machinery used in the construction of those components or related jigs and fixtures.

Warning: The model engine components, their proper manufacture, fitting and assembly, the jigs and fixtures necessary for their construction, and completed model engine shown on these prints are a complex project intended for users who possess intermediate or advanced engine construction skills, including experience in the safe operation of metalworking machinery, tooling, jigs, fixtures and processes used in their construction. The prints are not intended to teach a beginner the basic skills of model engine construction, nor are the prints intended to instruct an inexperienced builder on the safe or proper operation of metalworking machinery, tooling, jigs, fixtures and processes. Successful completion of usable components and an operational model engine are the Buyer's sole burden. Purchase, possession or use of these prints by the Buyer or any other person (including unintended, prohibited or unlicensed users) is a express stipulation by them to be bound by all of the terms contained herein and all other relief or defenses (legal or equitable) which the Seller may have.

Demon V8

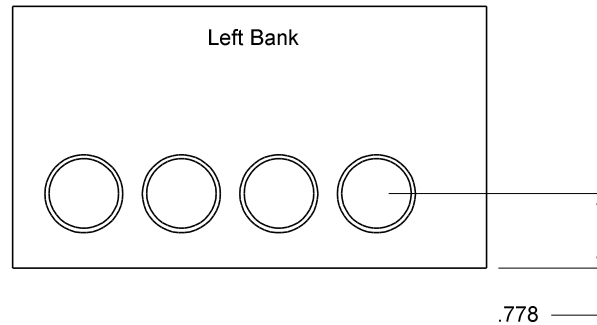
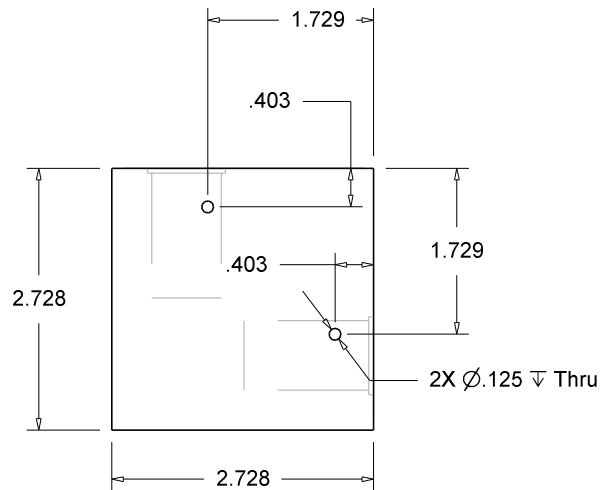
Designed By : Steve Huck	Page 2	Of 68
Pieces Required : N/A	Rev : 1.00	
Material : N/A		

Block Tip for getting started



To get started. Square a block of aluminum and drill the water passage holes. Placement is very important so drill them in from both sides so they meet in the middle. Then find the center of the cylinder bores and begin working on the cylinder banks.

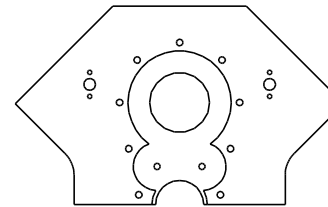
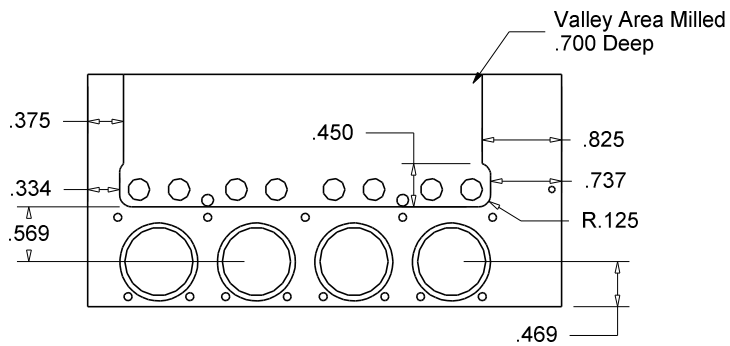
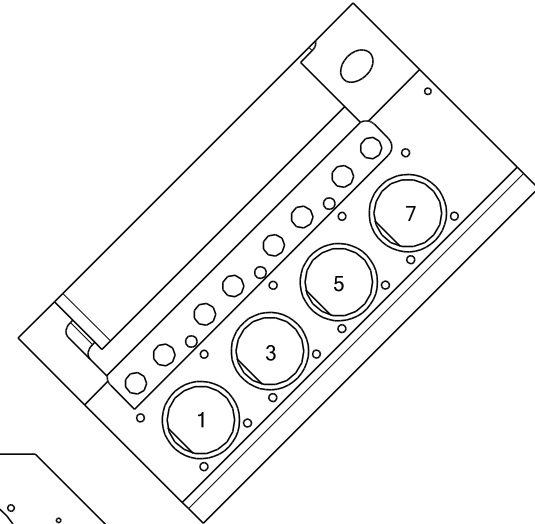
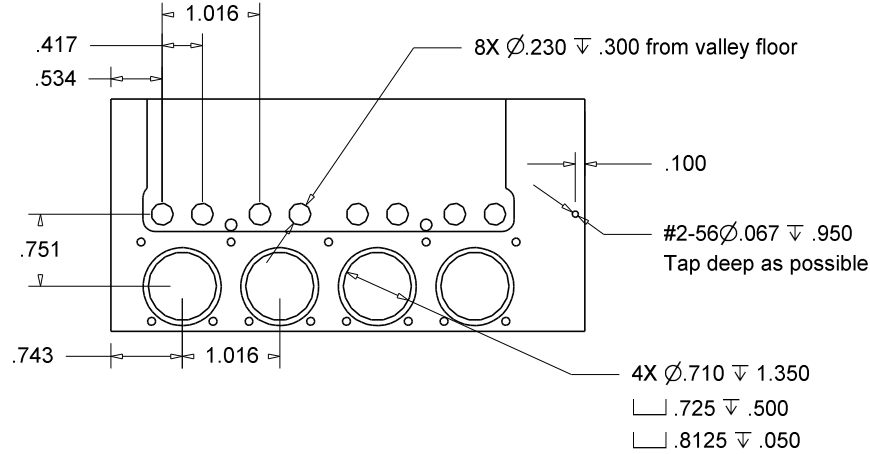
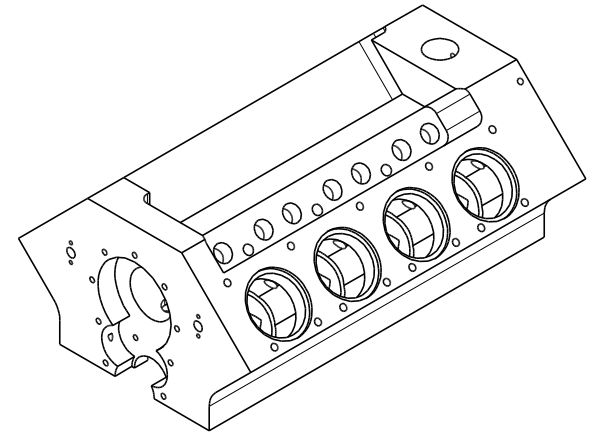
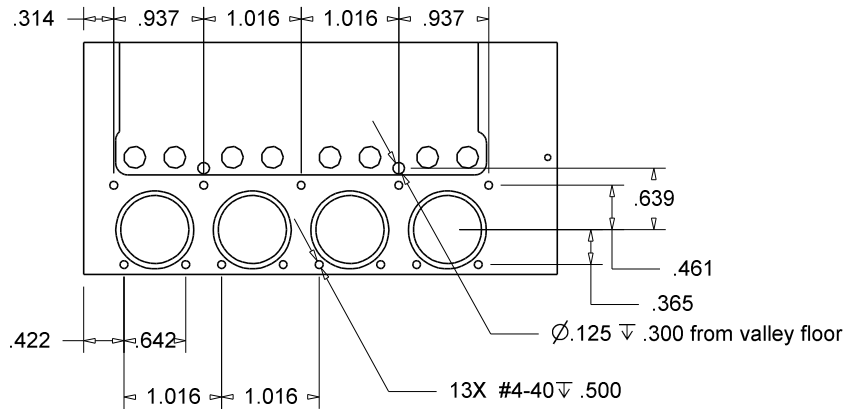
1. Drill water passages from front and rear.
2. Machine left and right cylinder banks.
3. Machine top except distributor hole.
4. Machine bottom.
5. Install main caps and oil pan, bore crank and camshaft bores.
6. Cut sides of block with 5/8 ball endmill.



Demon V8

Designed By : Steve Huck	Page 3	Of 68
Pieces Required : 1	Rev : 1.00	
Material : Aluminum		

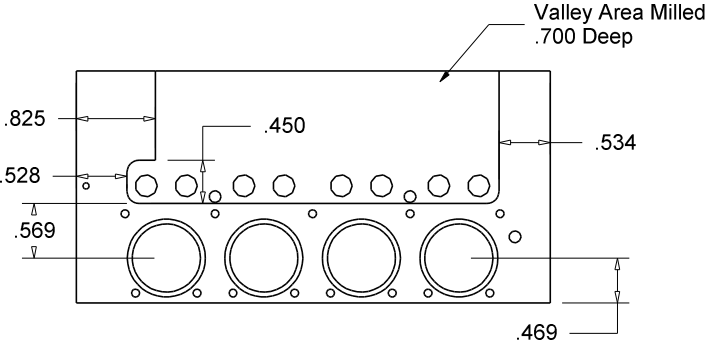
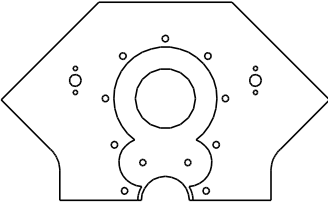
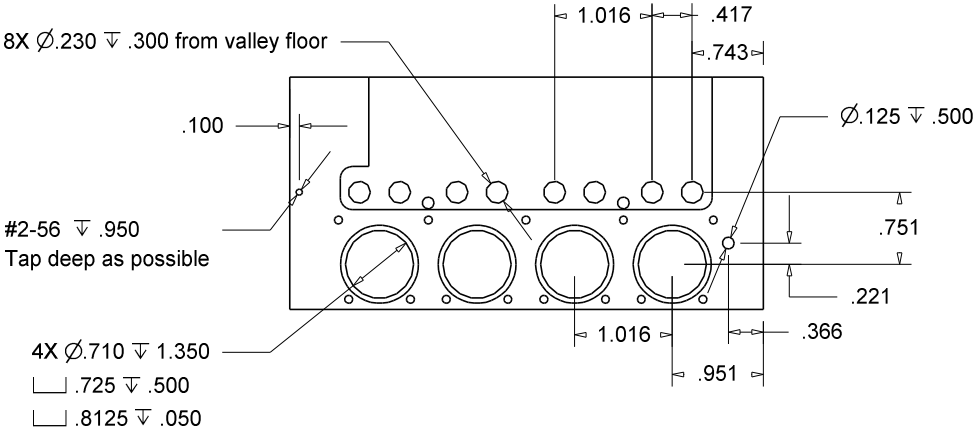
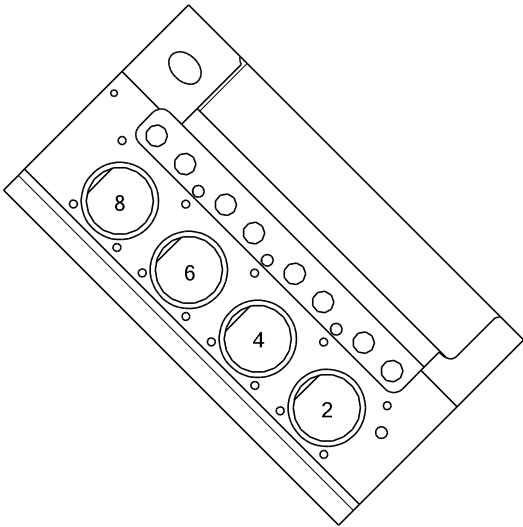
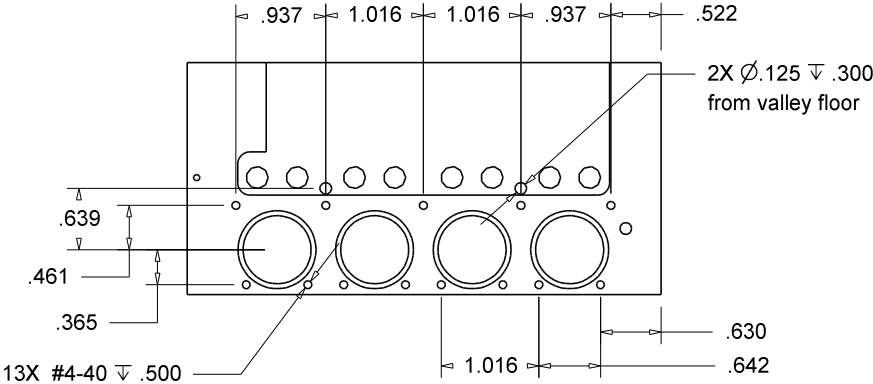
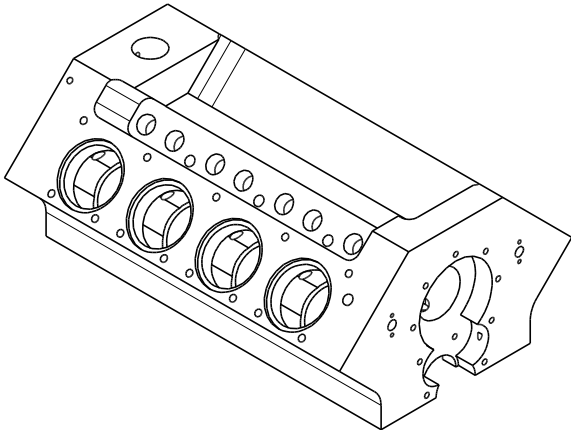
Block Left Cylinder Bank



Demon V8

Designed By : Steve Huck	Page 4	Of 68
Pieces Required : 1	Rev : 1.02	
Material : Aluminum		

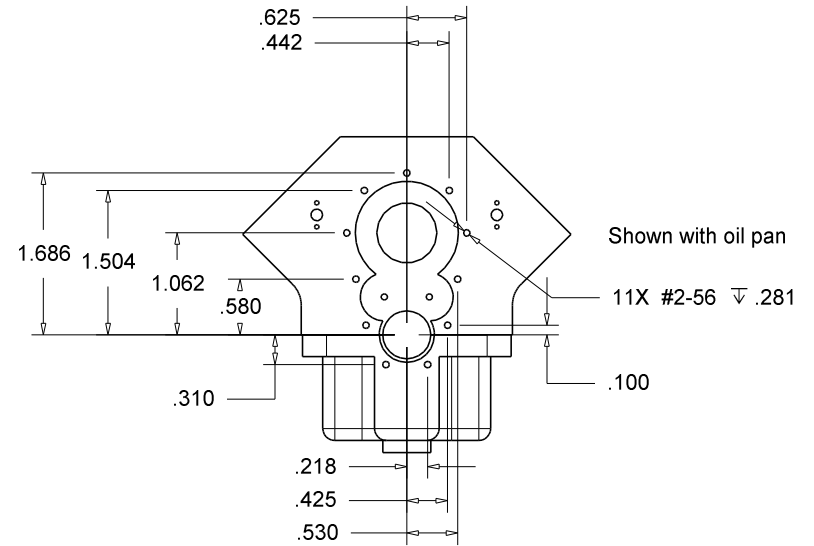
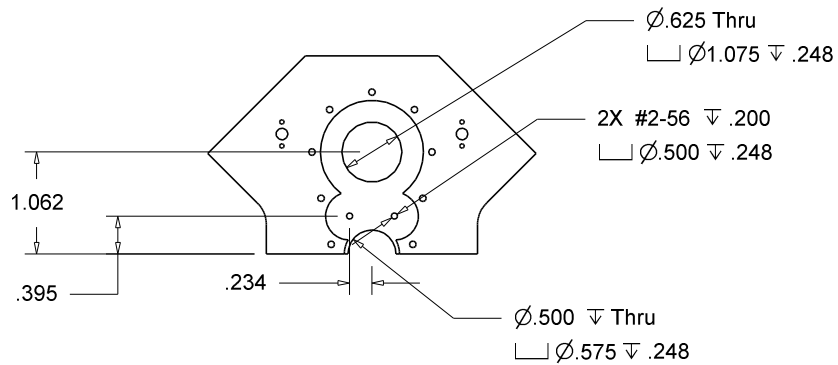
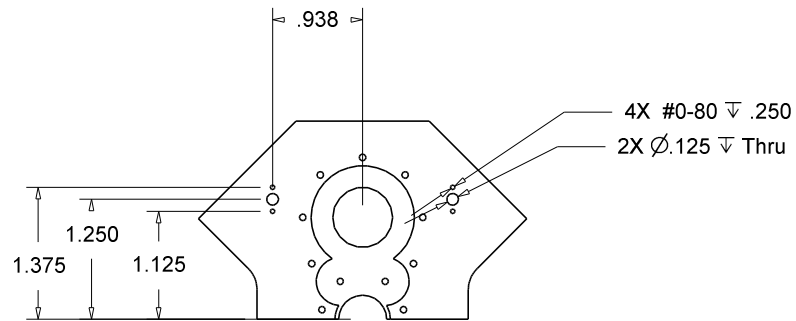
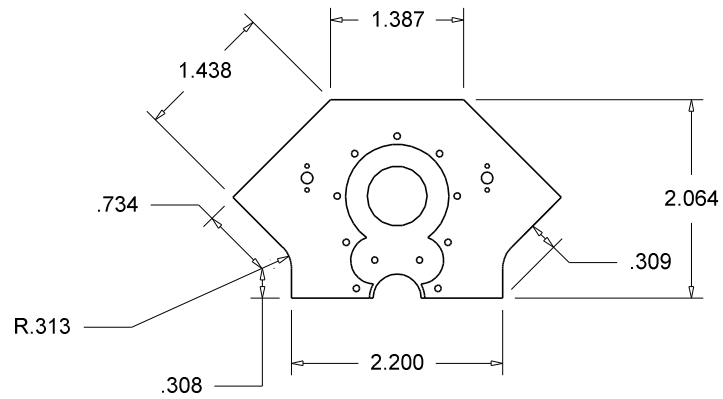
Block Right Cylinder Bank



Demon V8

Designed By : Steve Huck	Page 5	Of 68
Pieces Required : 1	Rev : 1.02	
Material : Aluminum		

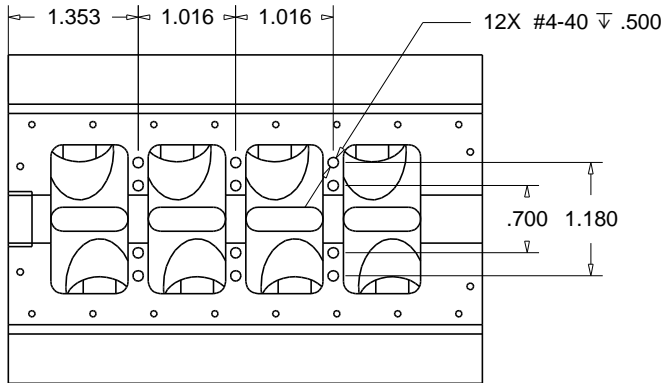
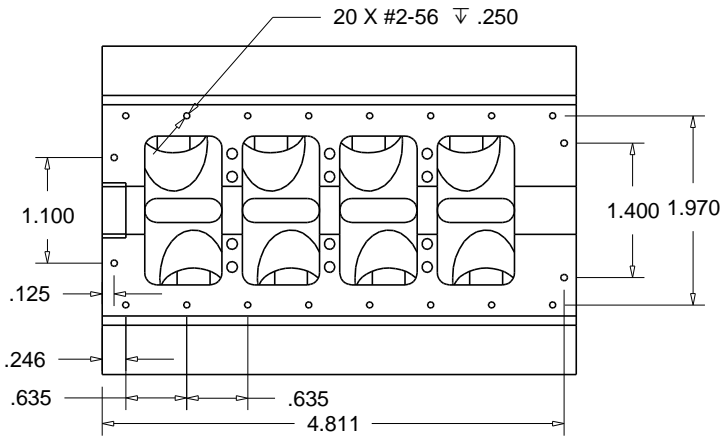
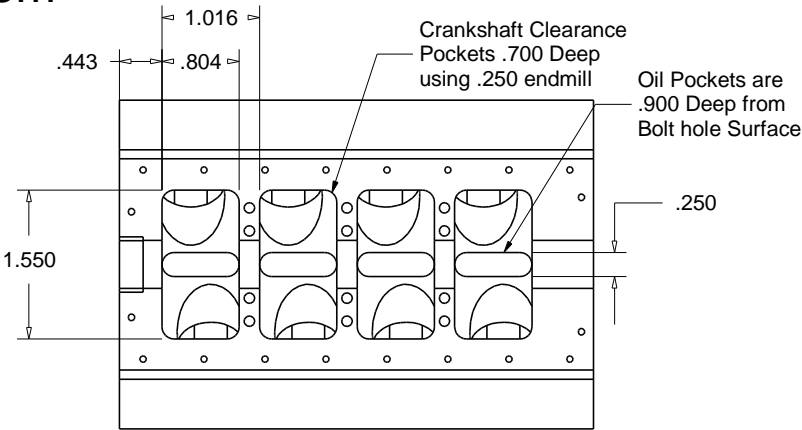
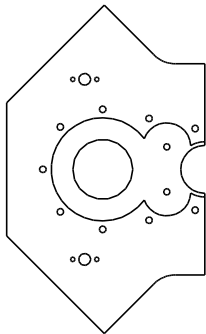
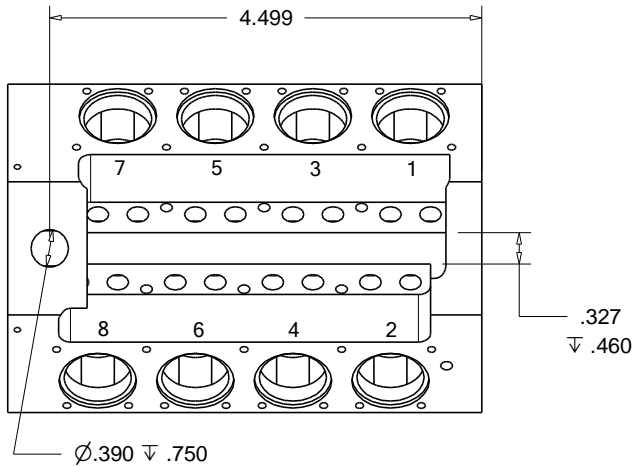
Block Front



Demon V8

Designed By : Steve Huck	Page 6	Of 68
Pieces Required : 1	Rev : 1.00	
Material : Aluminum		

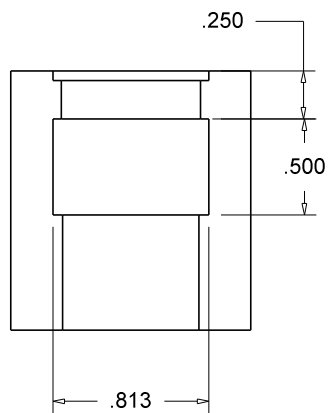
Block Top & Bottom



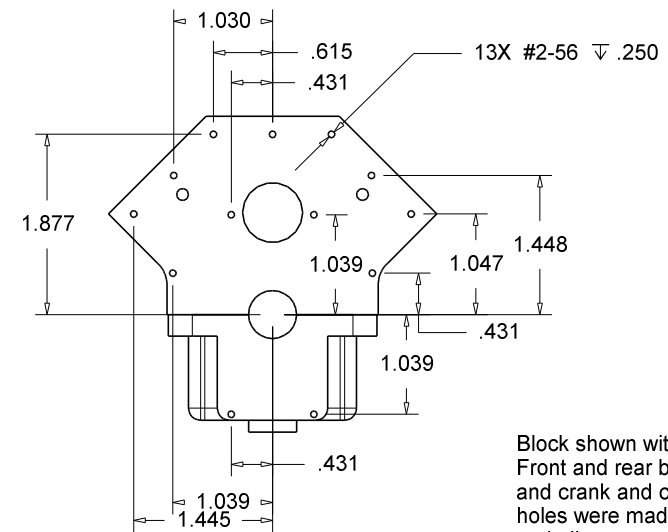
Demon V8

Designed By : Steve Huck	Page 7	Of 68
Pieces Required : 1	Rev : 1.02	
Material : Aluminum		

Block Rear & Water Jackets



Water jackets can be cut with a .625 key cutter in a milling machine.

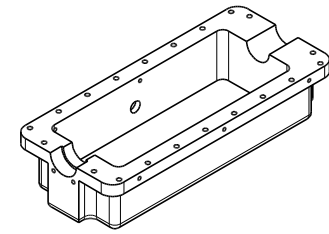
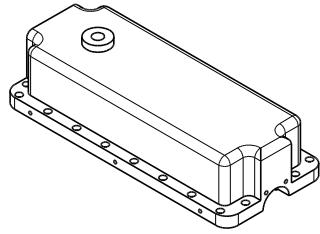


Block shown with oil pan.
Front and rear bolt patterns
and crank and camshaft
holes were made with block
and oil pan assembled

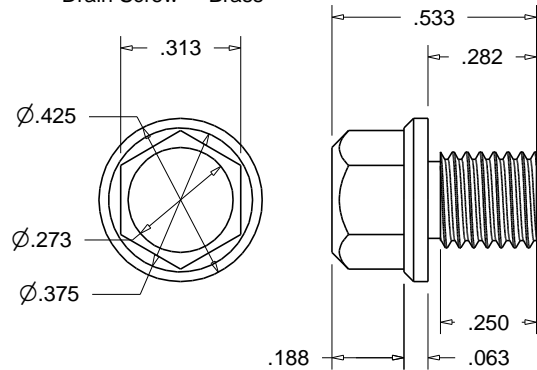
Demon V8

Designed By : Steve Huck	Page 8	Of 68
Pieces Required : 1	Rev : 1.00	
Material : Aluminum		

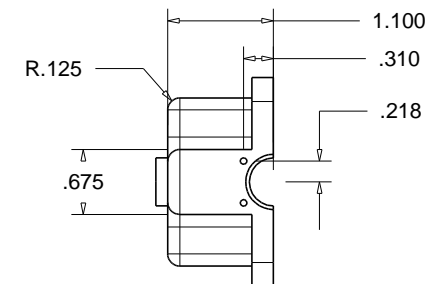
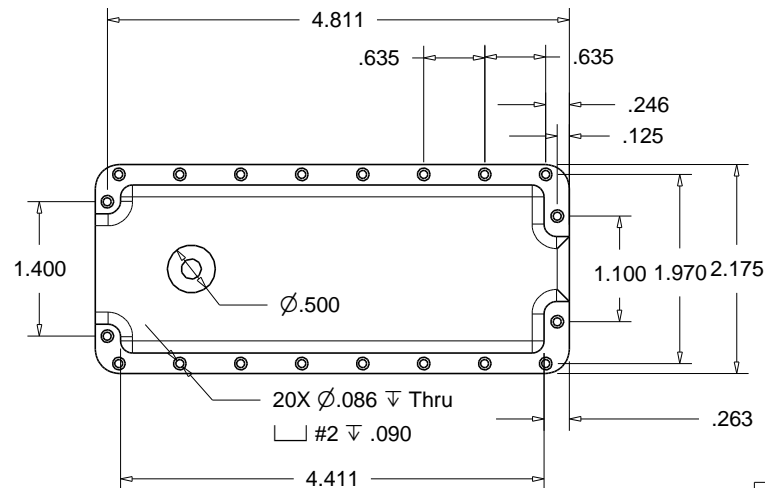
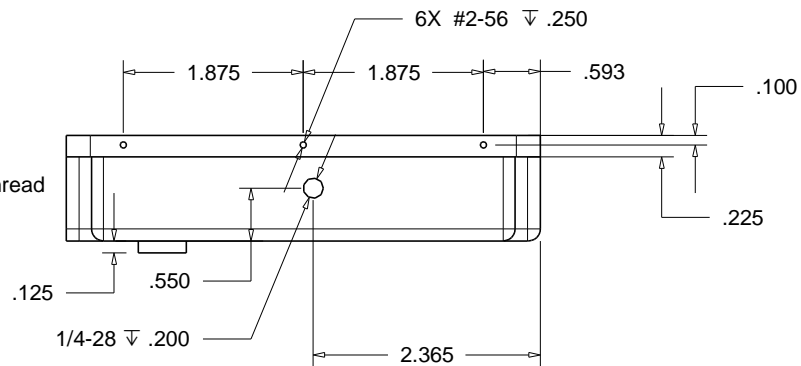
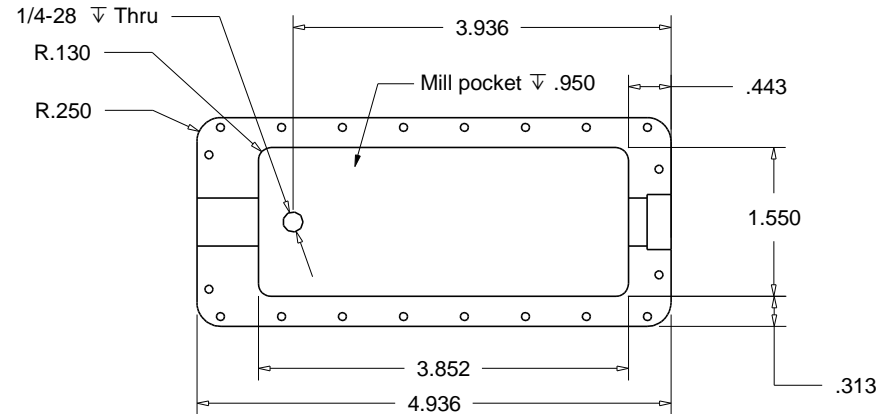
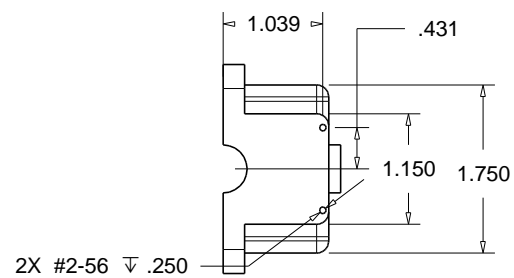
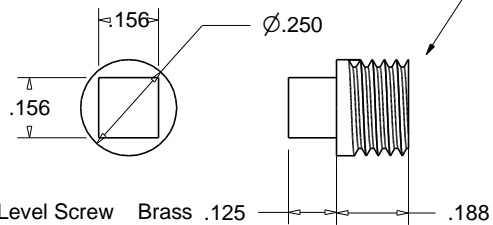
Oil Pan



Drain Screw Brass



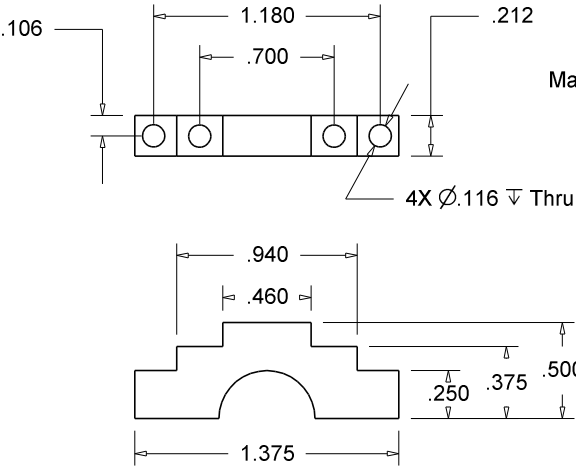
Oil Level Screw Brass



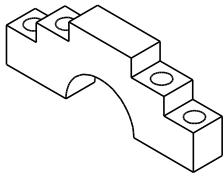
Demon V8

Designed By : Steve Huck	Page 9 Of 68
Pieces Required : 1	Rev : 1.03
Material : Aluminum	

Main Bearings & Cap



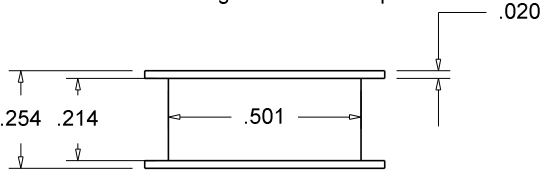
Main Bearing Cap 3 Reqd



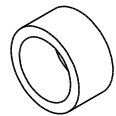
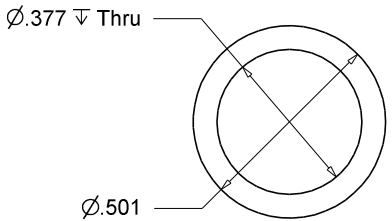
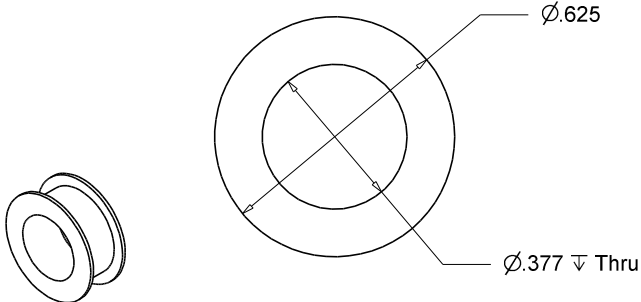
Bearings are made by soldering 2 pieces together. Machine bearing complete. Mark bearing for reassembly and unsolder the 2 halves

Try to make OD .001 larger than crankshaft bore so bearing is captured when main bearing support is tightened.

Center Bearing Bronze 1Reqd



2nd & 4th Bearing Bronze 2 Reqd

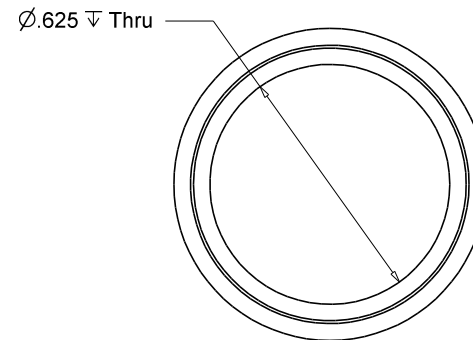
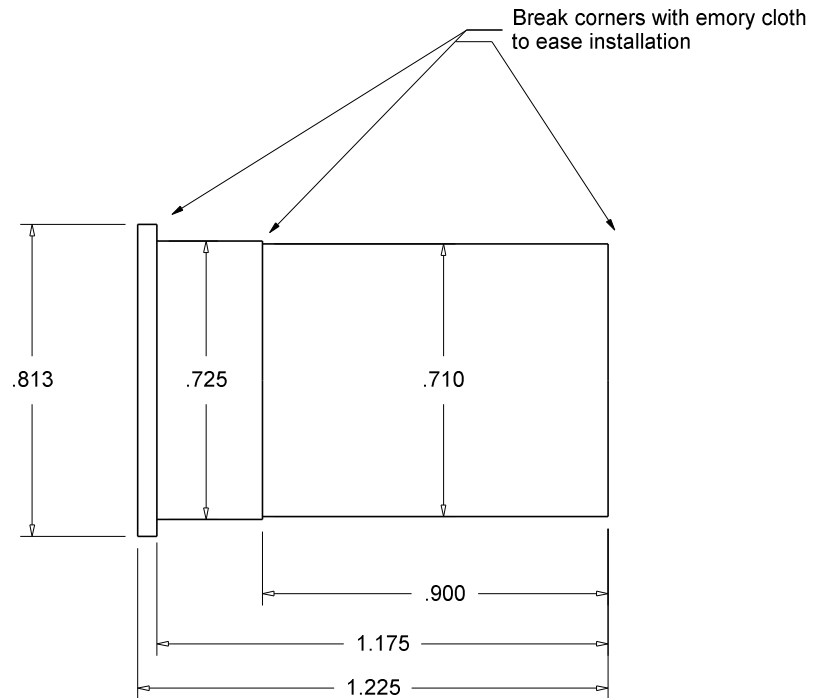


Demon V8

Designed By : Steve Huck	Page 10 Of 68
Pieces Required : 3	Rev : 1.00
Material : Aluminum	

Cylinder Liners

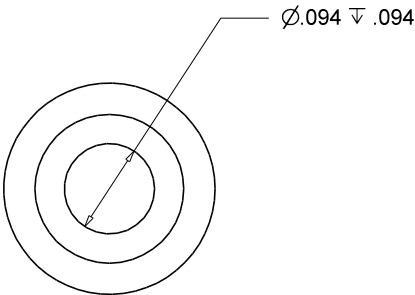
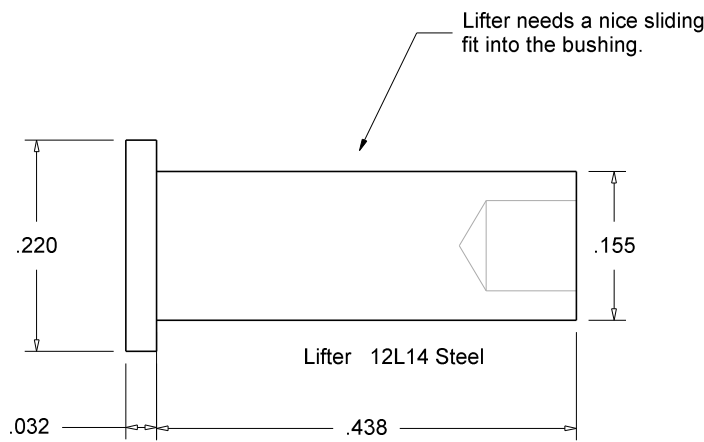
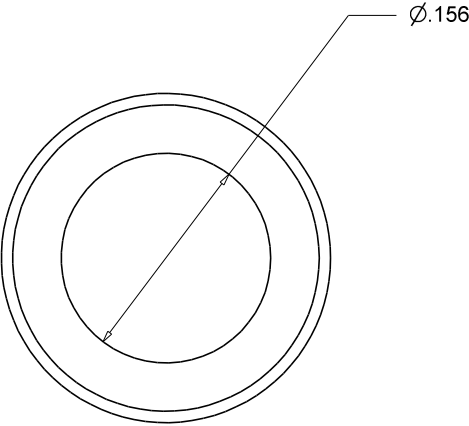
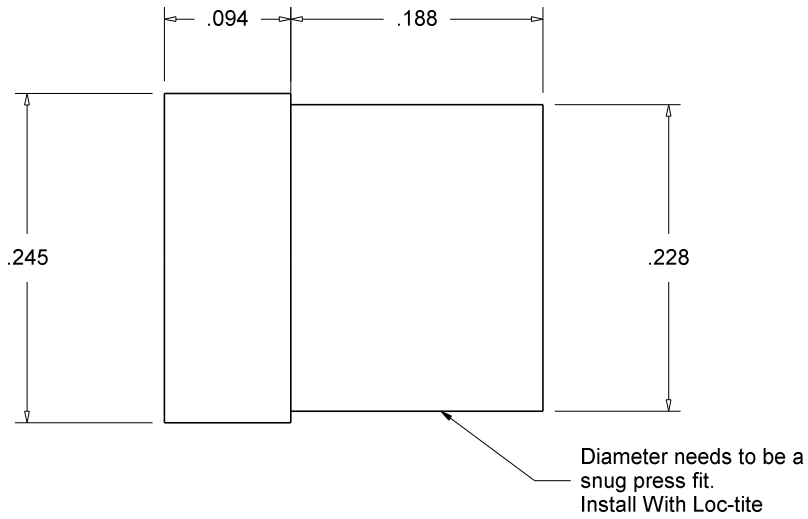
All 3 outer diameters need to be a light press fit.
Try to make liners .0005 larger than bore.
Install with loc-tite for a water tight seal.



Demon V8

Designed By : Steve Huck	Page 11 Of 68
Pieces Required : 8	Rev : 1.00
Material : 12L14 Steel	

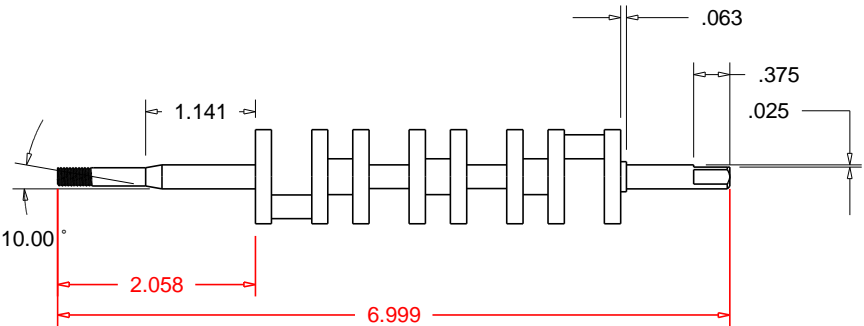
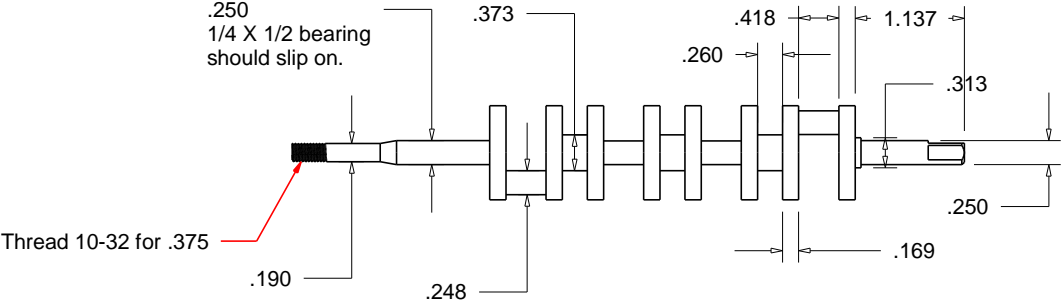
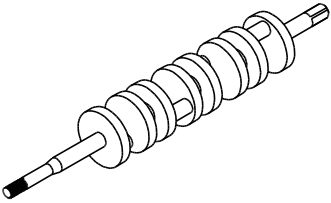
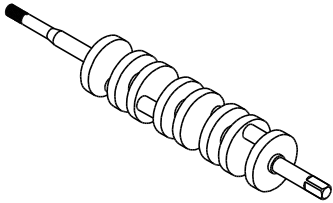
Lifters & Bushings



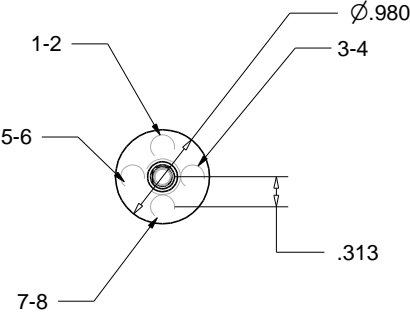
Demon V8

Designed By : Steve Huck	Page 12 Of 68
Pieces Required : 16	Rev : 1.00
Material : Brass or bronze	

Crankshaft



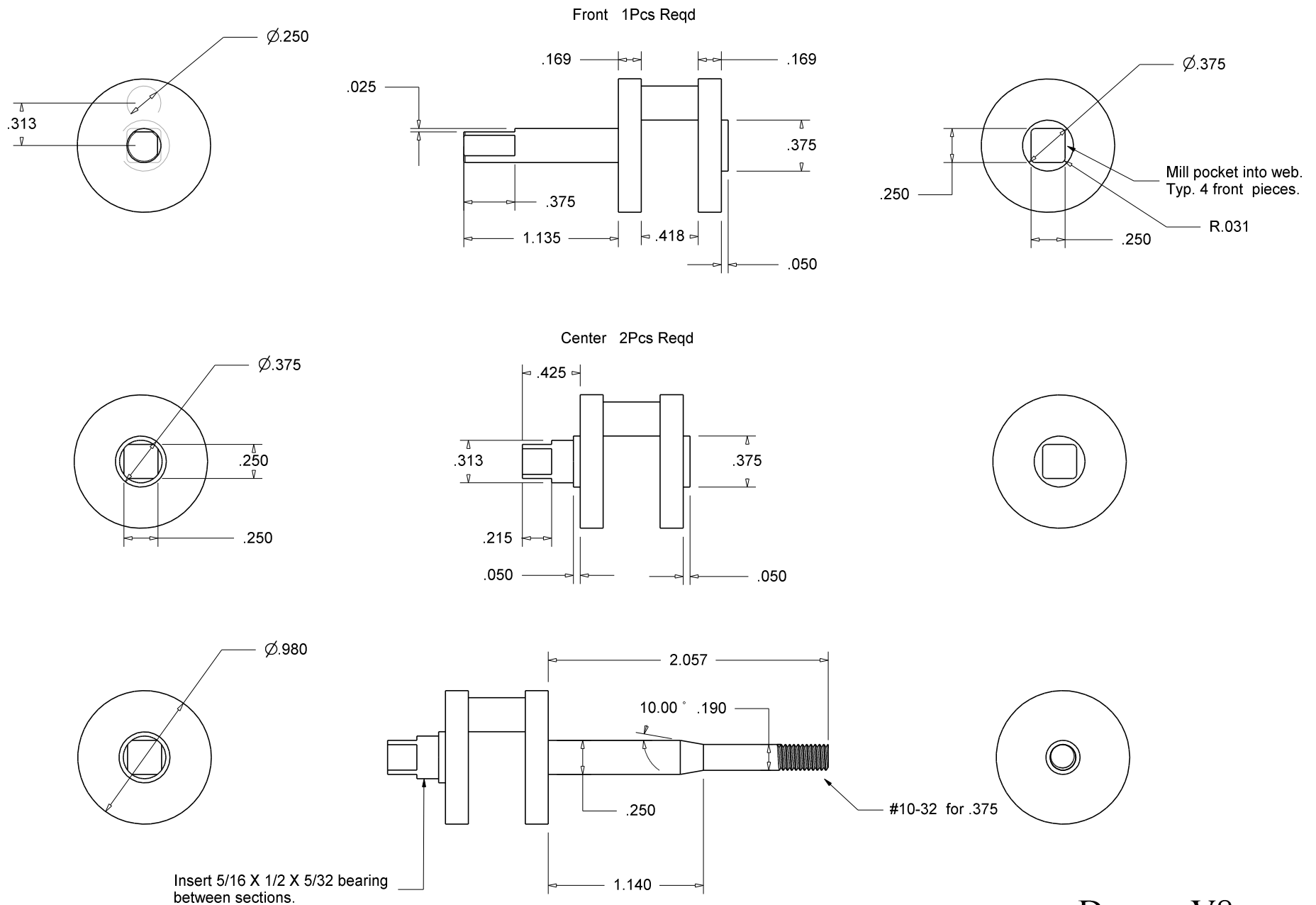
View from front



Demon V8

Designed By : Steve Huck	Page 13 Of 68
Pieces Required : 1	Rev : 1.01
Material : 1144 Steel	

Optional Modular Crankshaft

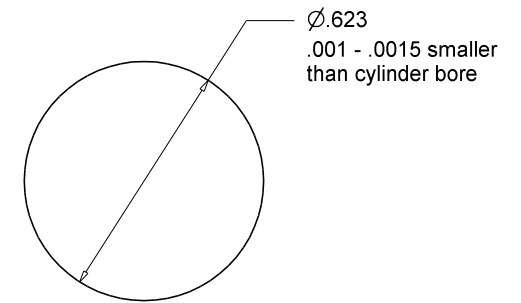
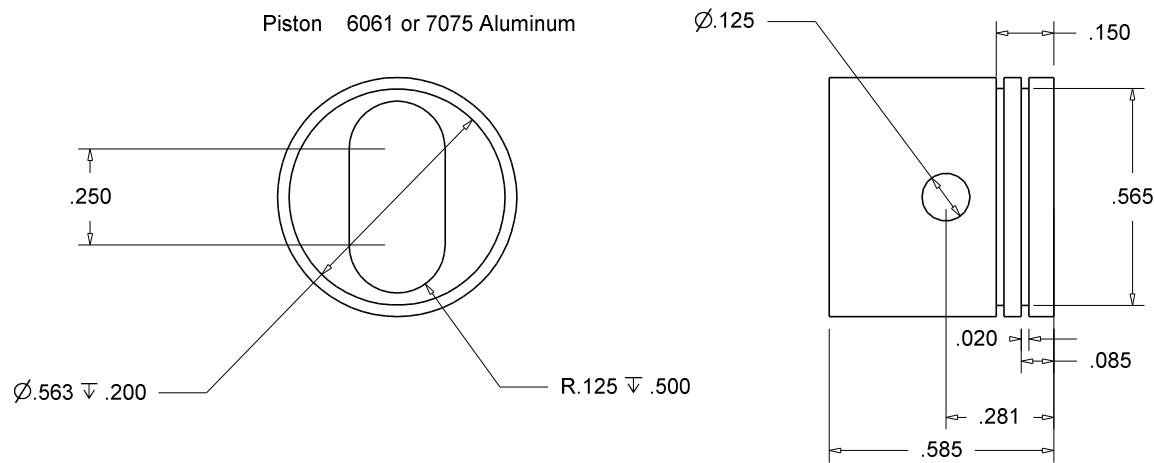


Demon V8

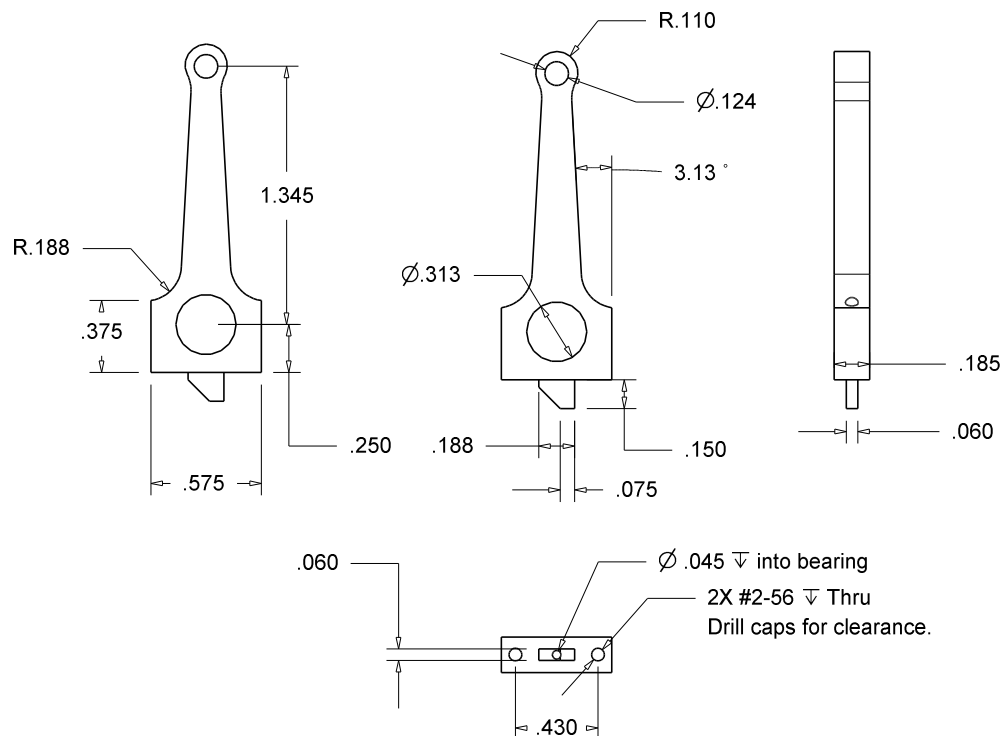
Designed By : Steve Huck	Page 14 Of 68
Pieces Required : 1	Rev : 1.00
Material : 1144SP Steel	

Piston, Rod, and Wrist Pin

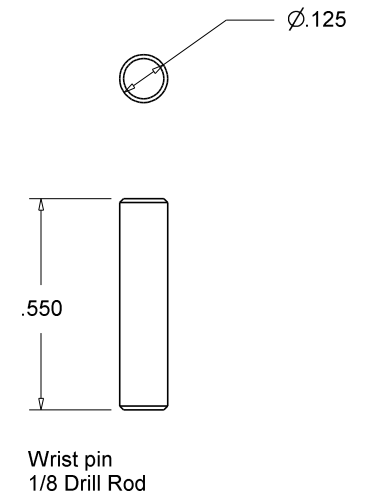
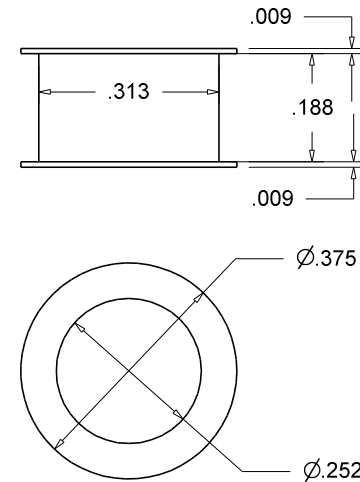
Piston 6061 or 7075 Aluminum



2 Pc connecting rod
shown assembled.
6061 Aluminum



Wrist pin should be pressed
into connecting rod and float
in the piston



Rod bearing is made by soldering 2 pieces
of brass together, machining the bearing, and
then unsoldering the 2 halves apart.

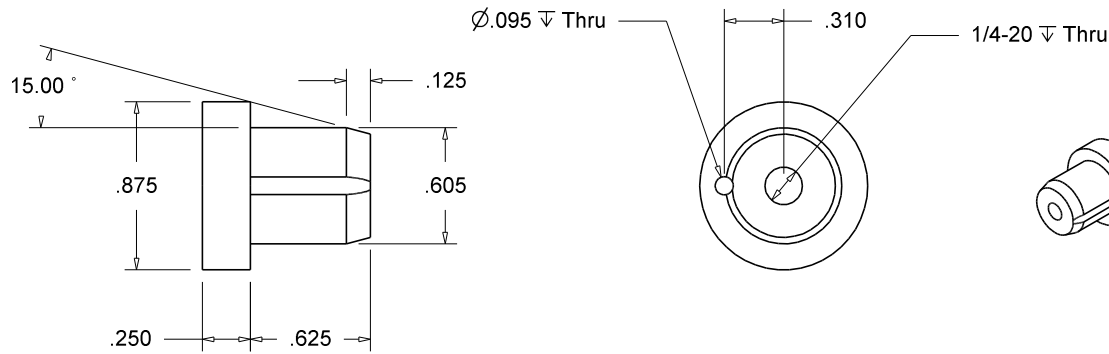
Wrist pin
1/8 Drill Rod

Demon V8

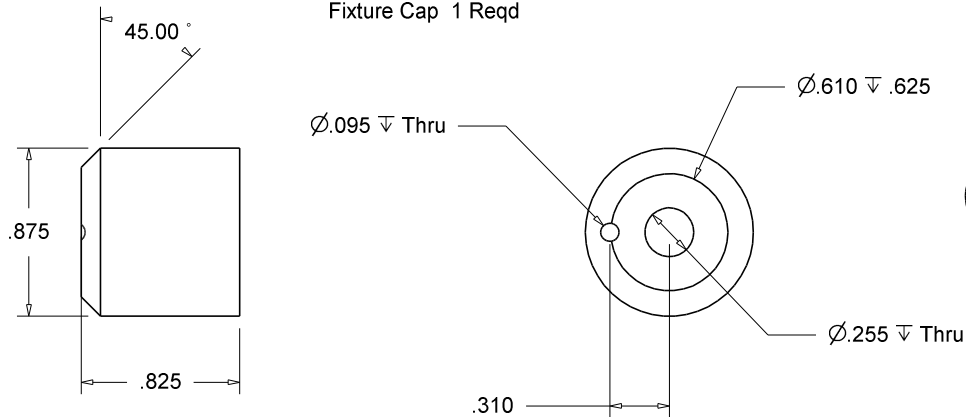
Designed By : Steve Huck	Page 15 Of 68
Pieces Required : 8	Rev : 1.00
Material : Aluminum	

Piston Rings & Fixture

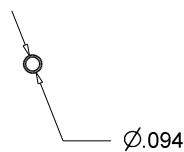
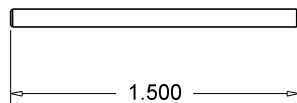
Fixture Base 1 Req'd



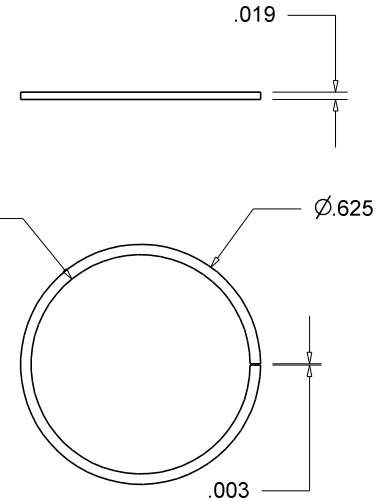
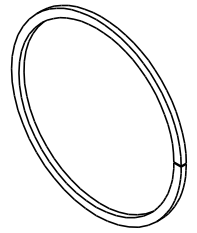
Fixture Cap 1 Req'd



Fixture Dowel 1 Req'd



Install rings into fixture and heat to 500F.
Coat with non-scaling compound and
heat to 1100F for 3-4 hours. While ring
fixture is still in the oven, turn off oven
and let cool naturally over night.

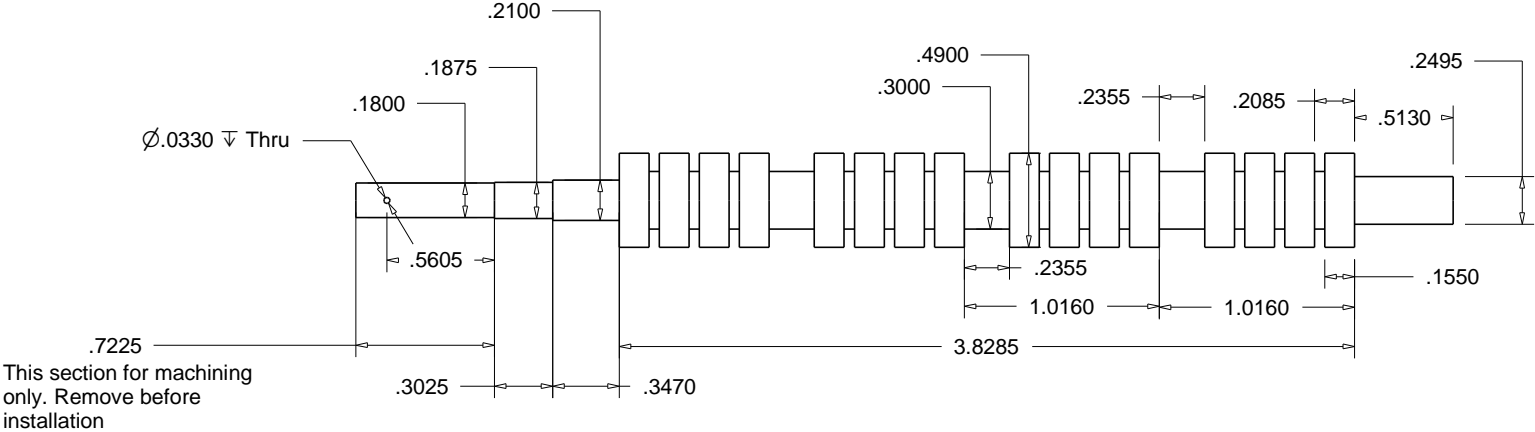


16 are needed but it would be wise
to make some extras in the event
they break durring installation.

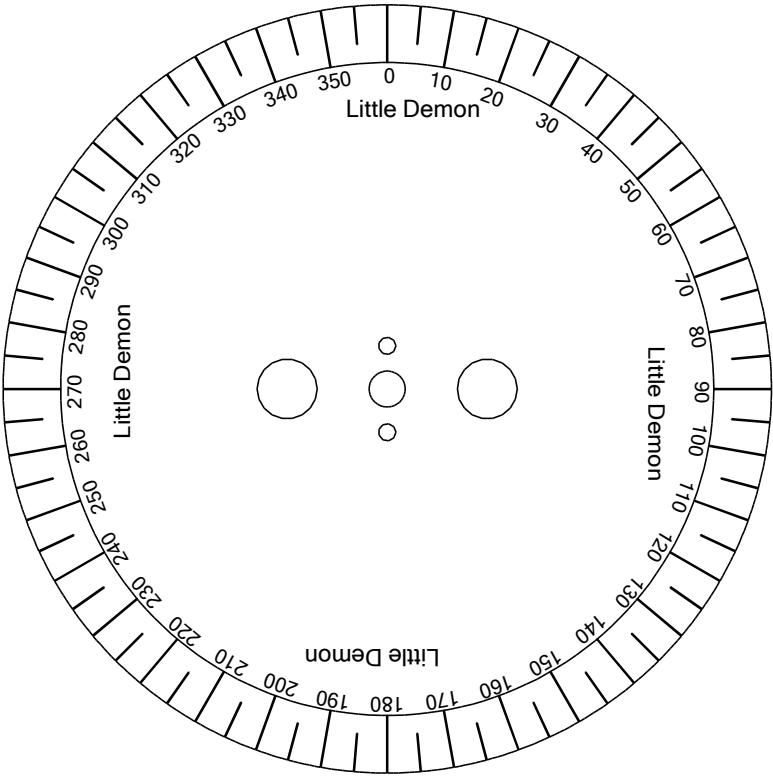
Demon V8

Designed By : Steve Huck	Page 16 Of 68
Pieces Required : 16	Rev : 1.00
Material : Cast Iron	

Camshaft Blank



Cam Profile	
Lift	0.070
Intake Duration	280
Exhaust Duration	280
Lobe Separation	110
Base Circle	0.350
Flank Radius	0.696
Degree of each cut	5.0
Turning Offset	0.521
Blank Diameter	0.490
Intake # of Cuts	45
Exhaust # of cuts	45
Engine Config	V8
Cam Rotation	CW
Firing Order	1-8-4-3-6-5-7-2



Demon V8

Designed By : Steve Huck	Page 17 Of 68
Pieces Required : 1	Rev : 1.02
Material : Drill Rod	

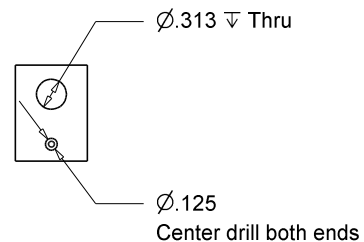
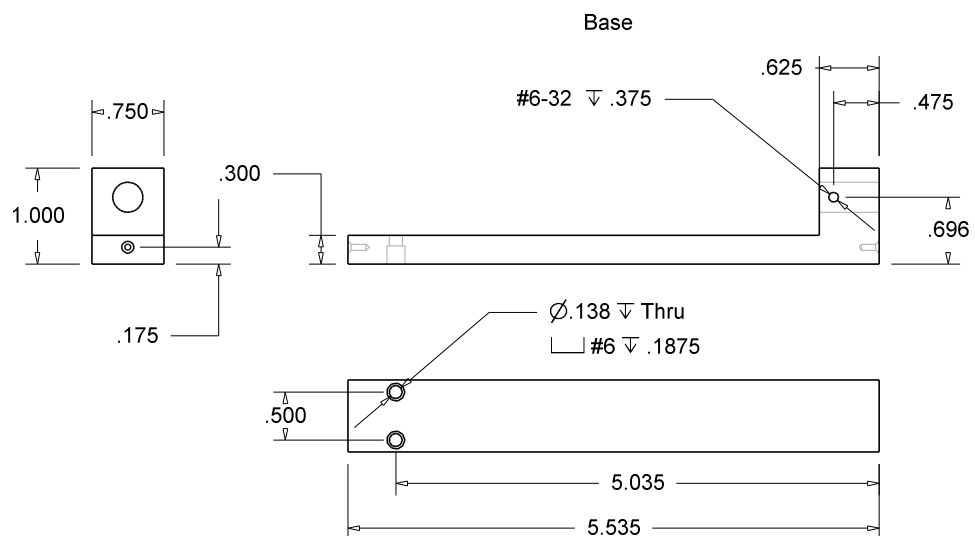
Cam Chart

Degree	EX1	EX2	IN1	IN2	IN3	IN4	EX3	EX4	EX5	EX6	IN5	IN6	IN7	IN8	EX7	EX8
0	X	X	X	X			X	X				X	X			X
5	X	X	X	X			X	X				X	X			X
10	X	X	X	X			X	X				X	X			X
15	X	X	X	X			X	X				X	X			X
20	X	X	X	X			X	X			X	X	X			X
25	X	X	X	X			X	X			X	X	X			X
30	X	X	X	X			X	X			X	X	X			X
35	X	X	X	X			X	X			X	X	X			X
40	X	X	X	X			X	X			X	X	X			X
45	X	X	X	X			X				X	X	X			X
50	X	X	X	X			X				X	X	X			X
55	X	X	X	X			X				X	X	X			X
60	X	X	X	X			X				X	X	X			X
65	X	X	X	X			X				X	X	X			X
70	X	X	X	X		X	X				X	X	X			X
75	X	X	X	X		X	X				X	X	X			X
80	X	X	X	X		X	X				X	X	X			X
85	X	X	X	X		X	X				X	X	X			X
90	X	X	X	X		X				X	X	X	X		X	
95	X	X	X	X		X				X	X	X	X		X	
100	X	X	X	X		X				X	X	X	X		X	
105	X	X	X	X		X				X	X	X	X		X	
110	X	X	X	X		X				X	X	X	X		X	
115	X	X	X		X	X				X	X	X	X		X	
120	X	X	X		X	X				X	X	X	X		X	
125	X	X	X		X	X				X	X	X	X		X	
130	X	X	X		X	X				X	X	X	X		X	
135	X	X	X		X	X			X	X	X	X	X		X	
140	X	X	X		X	X			X	X	X	X	X		X	
145	X	X	X		X	X			X	X	X	X	X		X	
150	X	X	X		X	X			X	X	X	X	X		X	
155	X	X	X		X	X			X	X	X	X	X		X	
160	X	X	X		X	X			X	X	X	X	X		X	
165	X	X	X		X	X			X	X	X	X	X		X	
170	X	X	X		X	X			X	X	X	X	X		X	
175	X	X	X		X	X			X	X	X	X	X		X	
180	X		X		X	X		X	X	X	X	X	X		X	
185	X		X		X	X		X	X	X	X	X	X		X	
190	X		X		X	X		X	X	X	X	X	X		X	
195	X		X		X	X		X	X	X	X	X	X		X	
200	X		X		X	X		X	X	X	X	X	X		X	
205	X			X	X	X		X	X	X	X		X		X	
210	X		X	X	X	X		X	X	X	X		X		X	
215	X		X	X	X	X		X	X	X	X		X		X	
220	X		X	X	X	X		X	X	X	X		X		X	
225			X	X	X	X	X	X	X	X	X		X		X	X
230			X	X	X	X	X	X	X	X	X		X		X	X
235			X	X	X	X	X	X	X	X	X		X		X	X
240			X	X	X	X	X	X	X	X	X		X		X	X
245			X	X	X	X	X	X	X	X	X		X		X	X
250			X	X	X	X	X	X	X	X	X		X		X	X
255			X	X	X	X	X	X	X	X	X		X		X	X
260			X	X	X	X	X	X	X	X	X		X		X	X
265			X	X	X	X	X	X	X	X	X		X		X	X
270			X	X	X	X	X	X	X	X	X		X		X	X
275			X	X	X	X	X	X	X	X	X		X		X	X
280			X	X	X	X	X	X	X	X	X		X		X	X
285			X	X	X	X	X	X	X	X	X		X		X	X
290			X	X	X	X	X	X	X	X	X		X		X	X
295			X	X	X	X	X	X	X	X	X		X		X	X
300			X	X	X	X	X	X	X	X	X		X		X	X
305			X	X	X	X	X	X	X	X	X		X		X	X
310			X	X	X	X	X	X	X	X	X		X		X	X
315		X	X	X	X	X	X	X	X	X	X		X		X	X
320		X	X	X	X	X	X	X	X	X	X		X		X	X
325		X	X	X	X	X	X	X	X	X	X		X		X	X
330		X	X	X	X	X	X	X	X	X	X		X		X	X
335		X	X	X	X	X	X	X	X	X	X		X		X	X
340		X	X	X	X	X	X	X	X	X	X		X		X	X
345		X	X	X	X	X	X	X	X	X	X		X		X	X
350		X	X	X	X	X	X	X	X	X	X		X		X	X
355		X	X	X	X	X	X	X	X	X	X		X		X	X

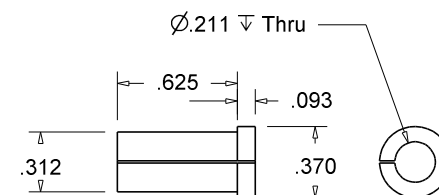
Demon V8

Designed By : Steve Huck	Page 18 Of 68
Pieces Required : N/A	Rev : 1.00
Material : N/A	

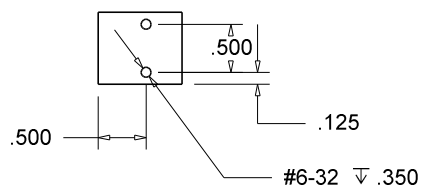
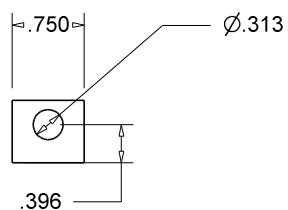
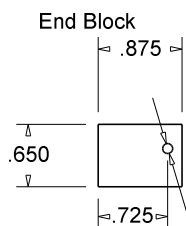
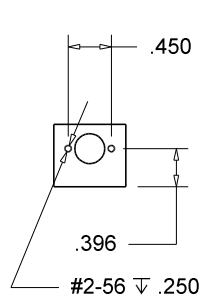
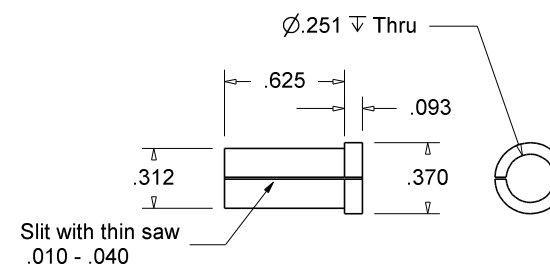
Cam Fixture



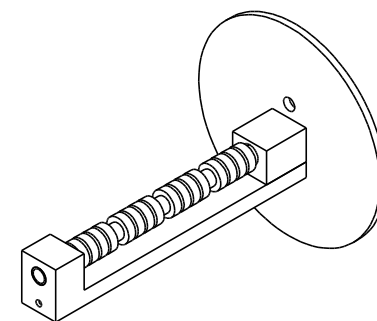
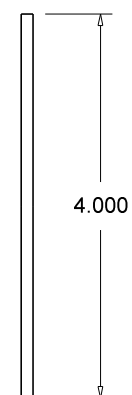
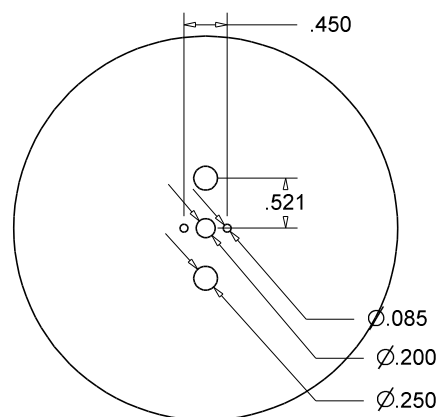
Rear Bushing



Front Bushing



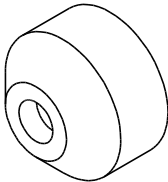
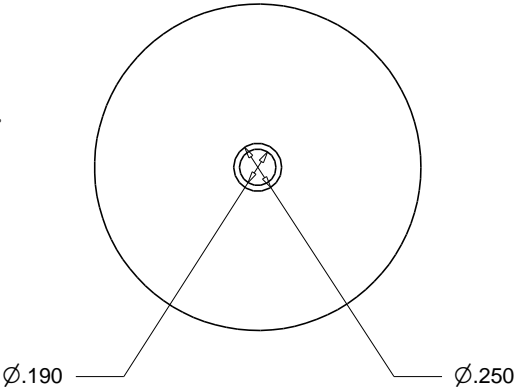
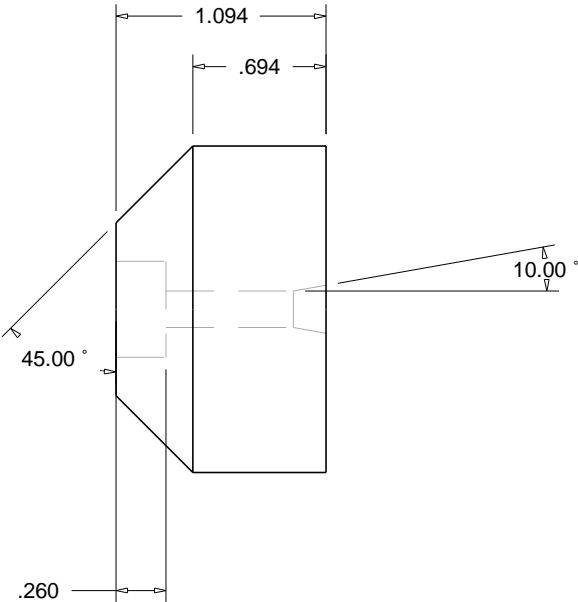
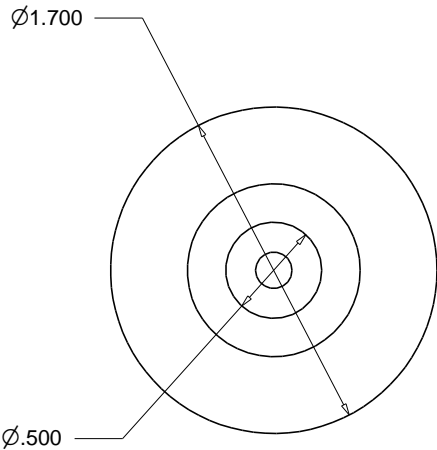
Degree Disk Aluminum



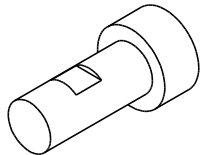
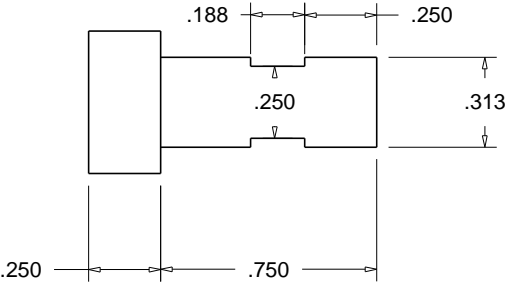
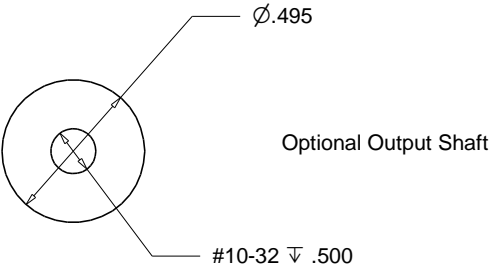
Demon V8

Designed By : Steve Huck	Page 19 Of 68
Pieces Required : 1	Rev : 1.00
Material : Steel	

Flywheel



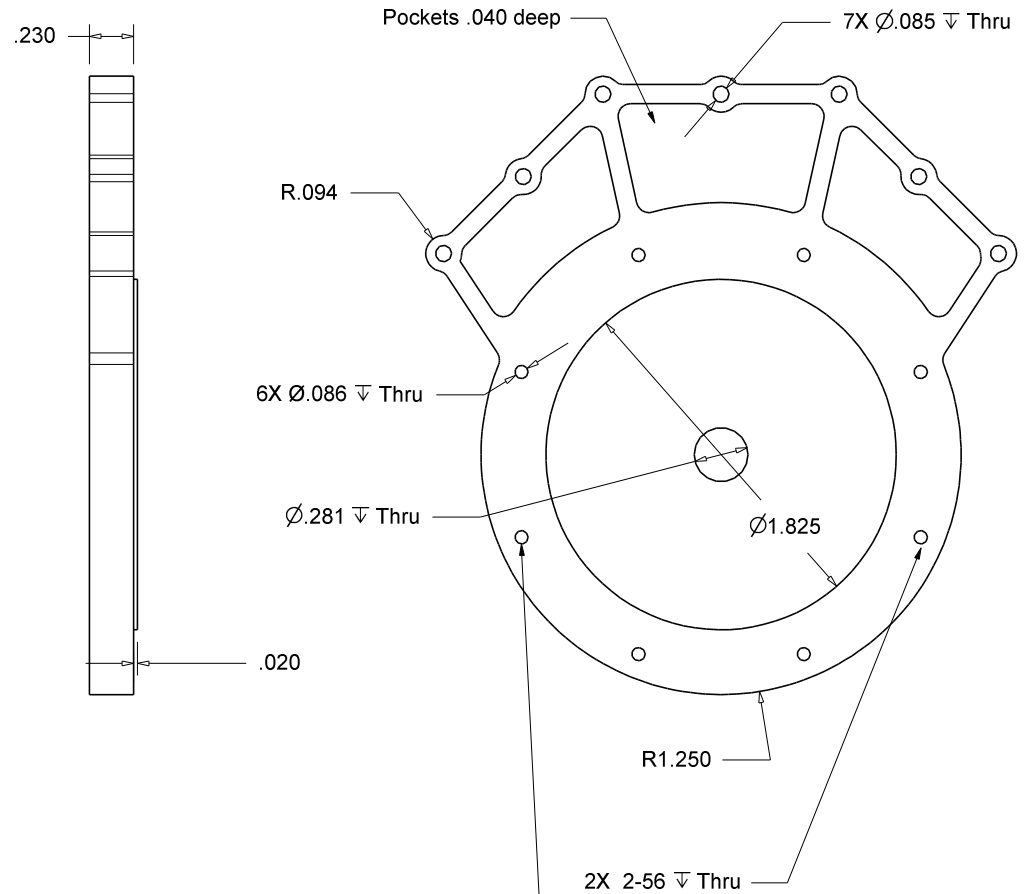
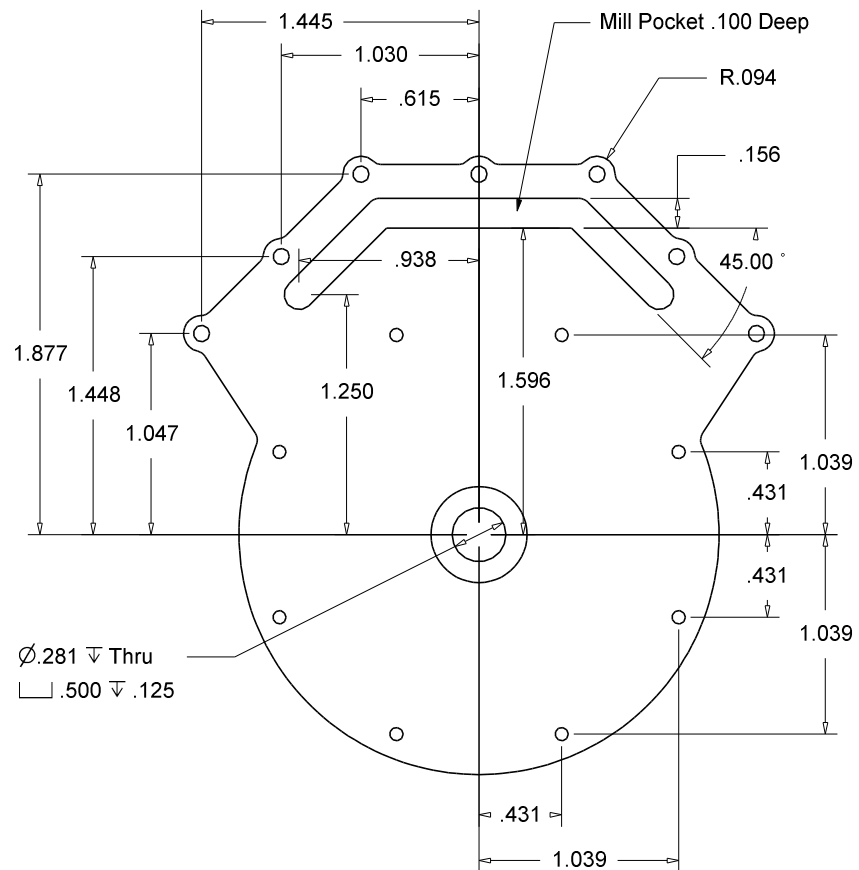
Optional output shaft. If not used, replace with a 10-32 nylock nut.



Demon V8

Designed By : Steve Huck	Page 20 Of 68
Pieces Required : 1	Rev : 1.00
Material : 1018 Steel	

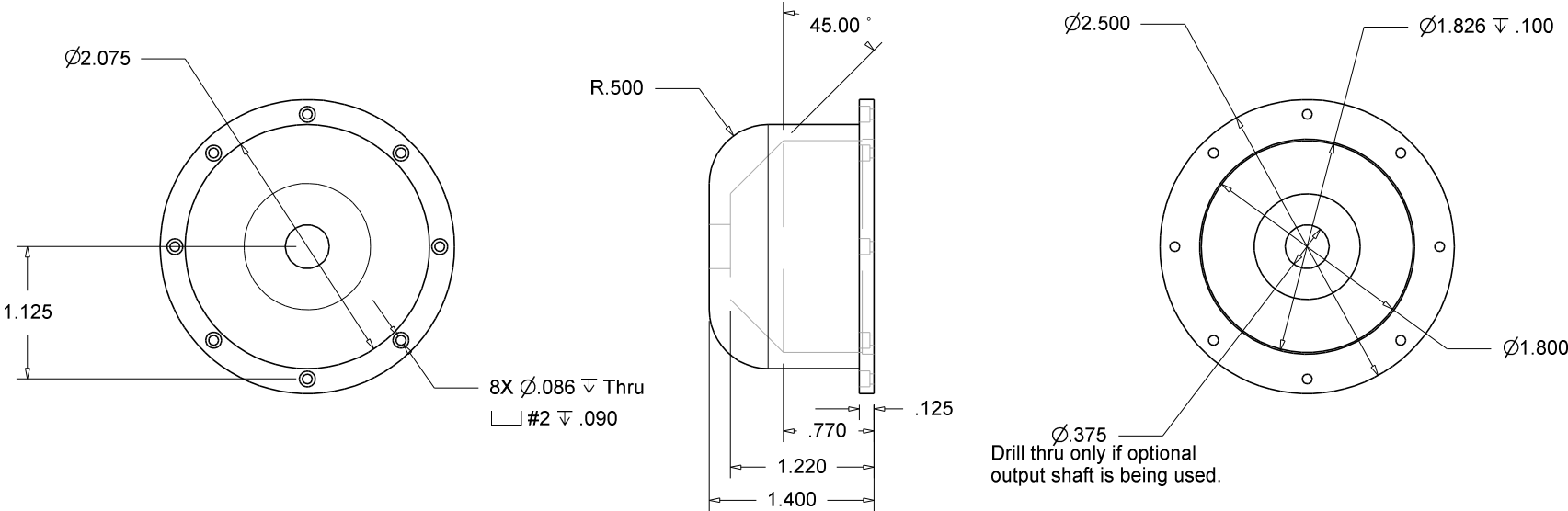
Bellhousing Adapter



Demon V8

Designed By : Steve Huck	Page 21 Of 68
Pieces Required : 1	Rev : 1.00
Material : Aluminum	

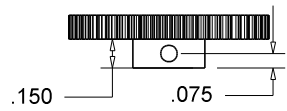
Bell Housing



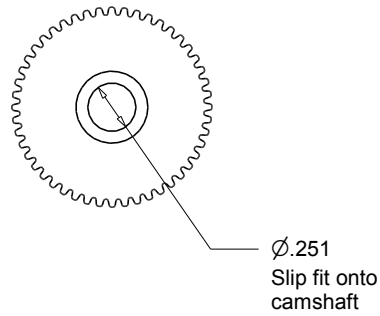
Demon V8

Designed By : Steve Huck	Page 22 Of 68
Pieces Required : 1	Rev : 1.00
Material : Aluminum	

Timing Gear Modifications

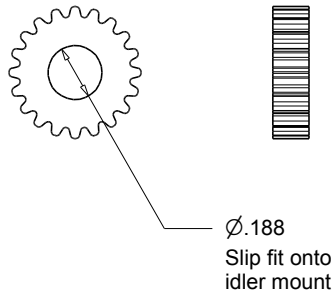


Timing Gear



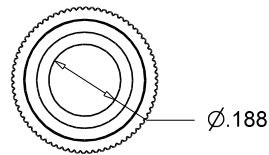
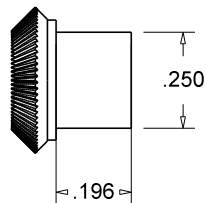
Rebore to .251
Shorten hub
Drill & tap new 2-56
set screws 90
Degrees apart

Idler Gear



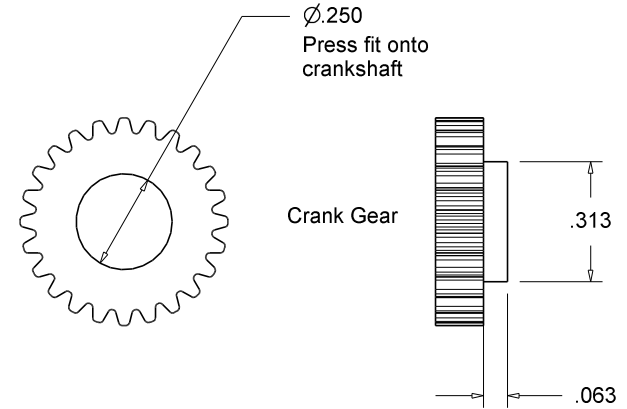
Remove hub

Distributor Gear

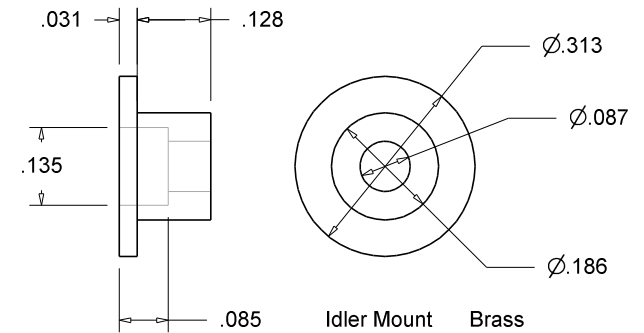


Rebore to .1875
Press on camshaft
Turn OD to .250
Press cam bearing onto gear

Rebore to .250
Shorten hub
Reduce hub OD

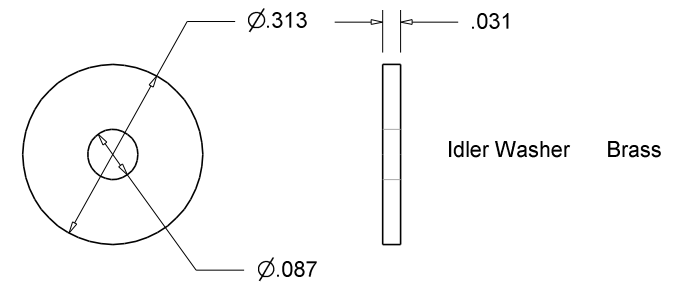


Crank Gear



Idler Mount

Brass



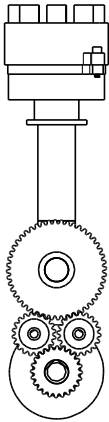
Idler Washer

Brass

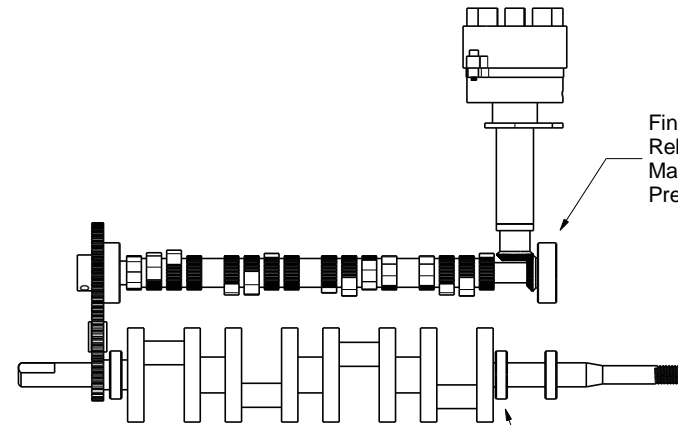
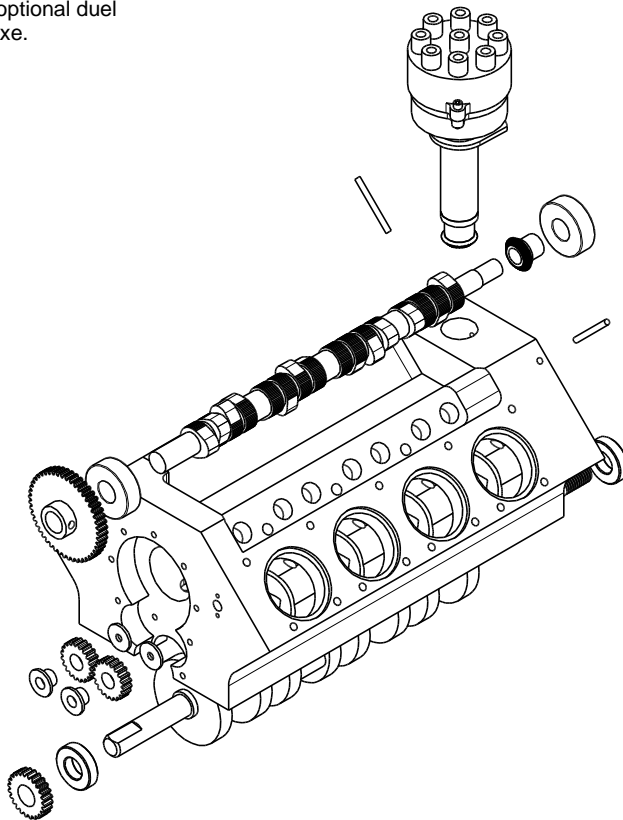
Demon V8

Designed By : Steve Huck	Page 23 Of 68
Pieces Required : N/A	Rev : 1.00
Material : N/A	

Timing Gear Assembly



Shown with optional dual idler gear drive.



Finish machining camshaft complete.
Rebore miter gear and press onto shaft.
Machine gear hub OD for bearing
Press fit bearing onto gear.

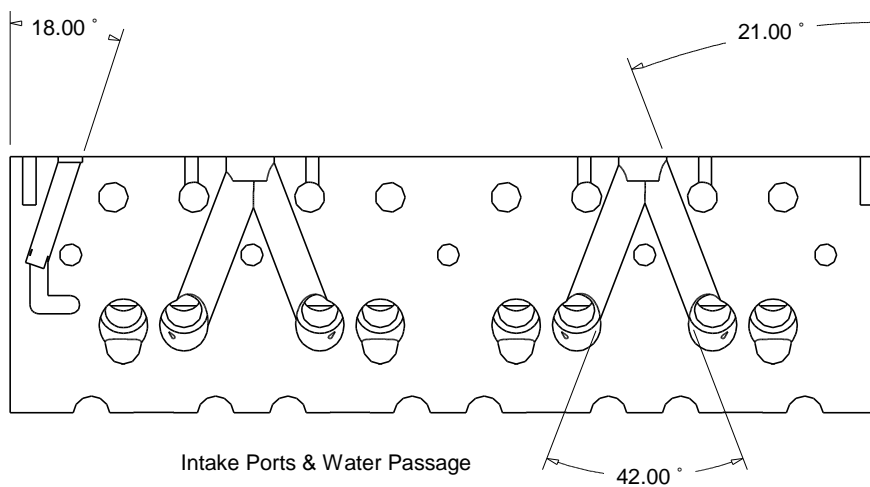
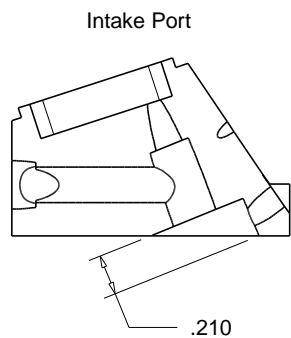
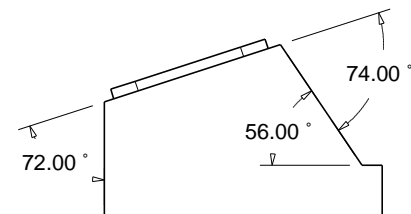
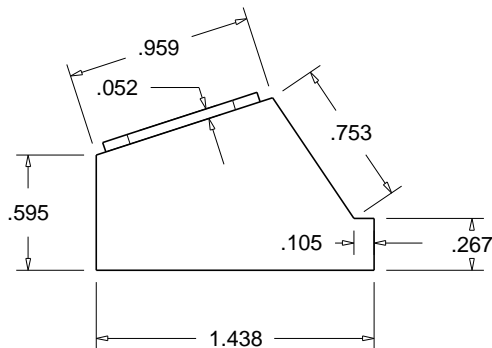
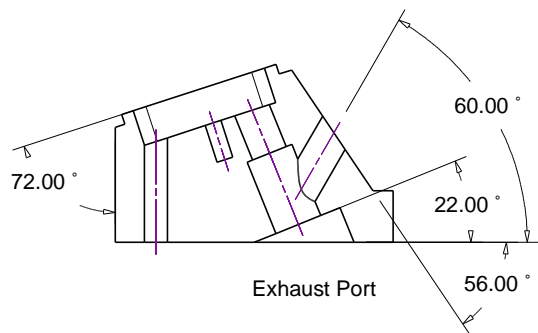
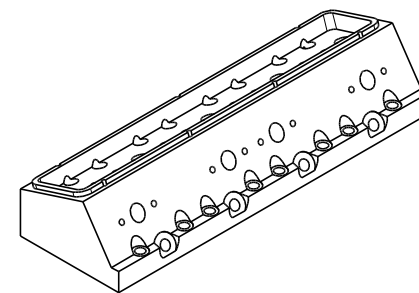
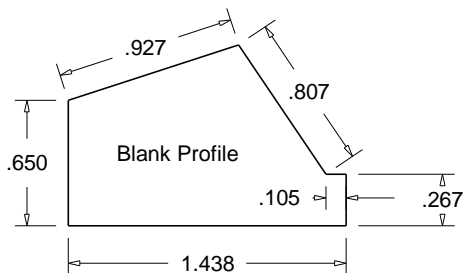
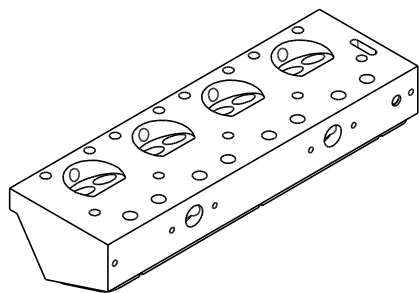
Double bearing on rear shaft optional.

1. Install camshaft
2. Drop a .650 inch long piece of .0625 rod down cam set screw hole.
3. Install set screw and lock cam into place
4. Install entire gear train.
5. Install degree wheel on crankshaft. (cheap plastic Office Max wheel will do)
6. Indicate #1 piston to top dead center.
7. Set pointer to zero degrees.
8. Rotate crank CCW 109 degrees.
9. Indicate #1 exhaust lobe to top dead center. (use distributor to turn cam)
10. Tighten set screw in cam gear.
11. Rotate crankshaft to 40 degrees BTDC
12. Enable ignition system
13. Rotate distributor CCW until ignition sparks.
14. Super glue Electrode onto rotor between center and #1 wire

Demon V8

Designed By : Steve Huck	Page 24 Of 68
Pieces Required : N/A	Rev : 1.01
Material : N/A	

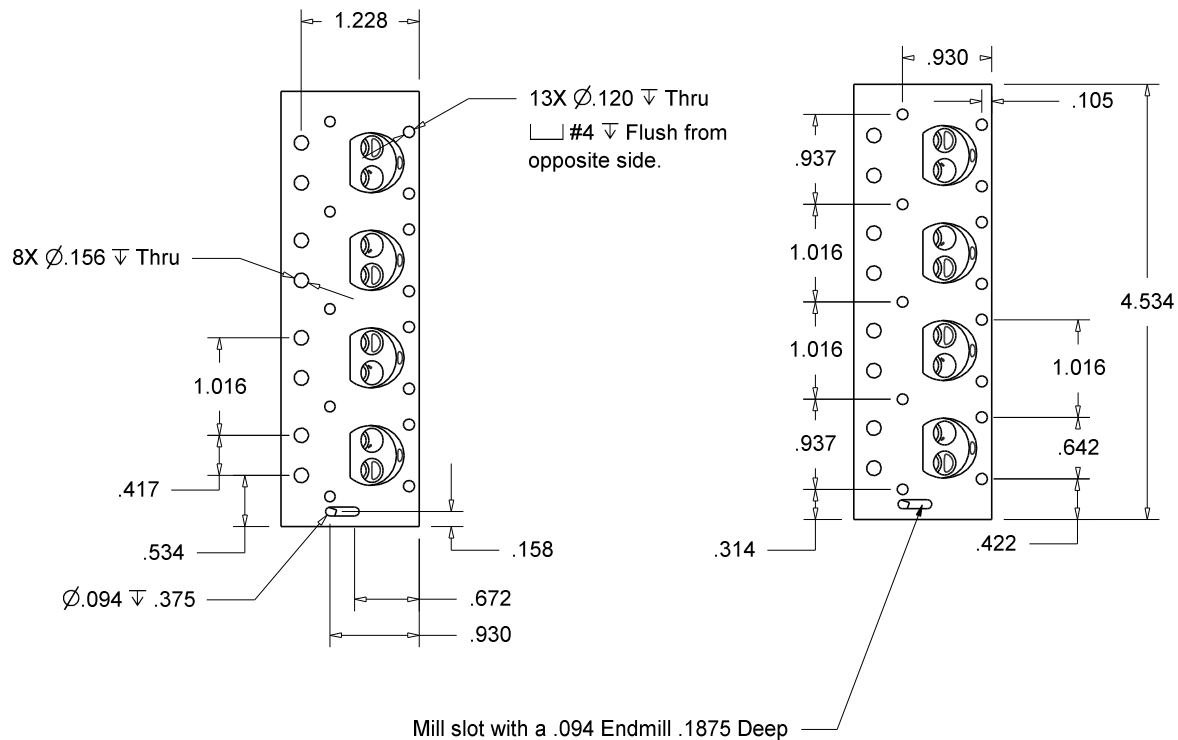
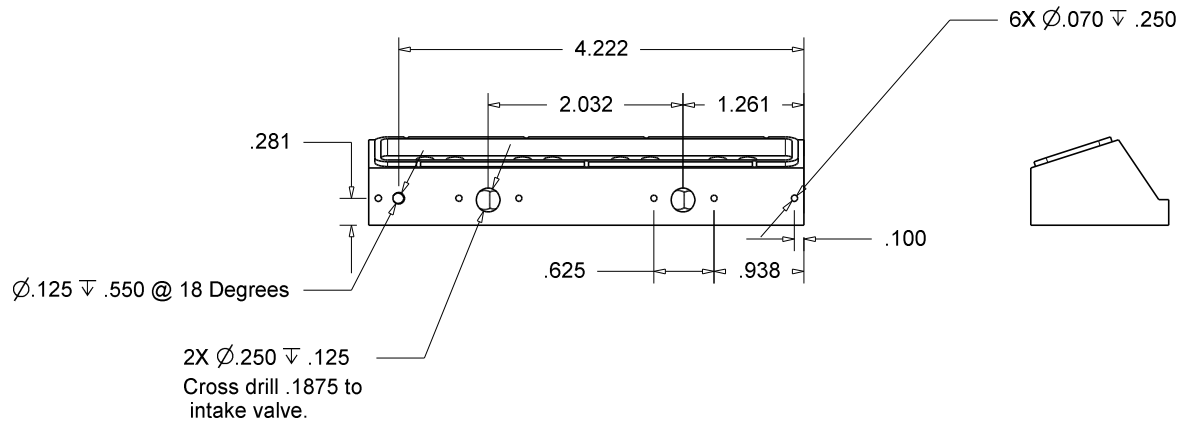
Head Basics



Demon V8

Designed By : Steve Huck	Page 25 Of 68
Pieces Required : 2	Rev : 1.01
Material : Aluminum	

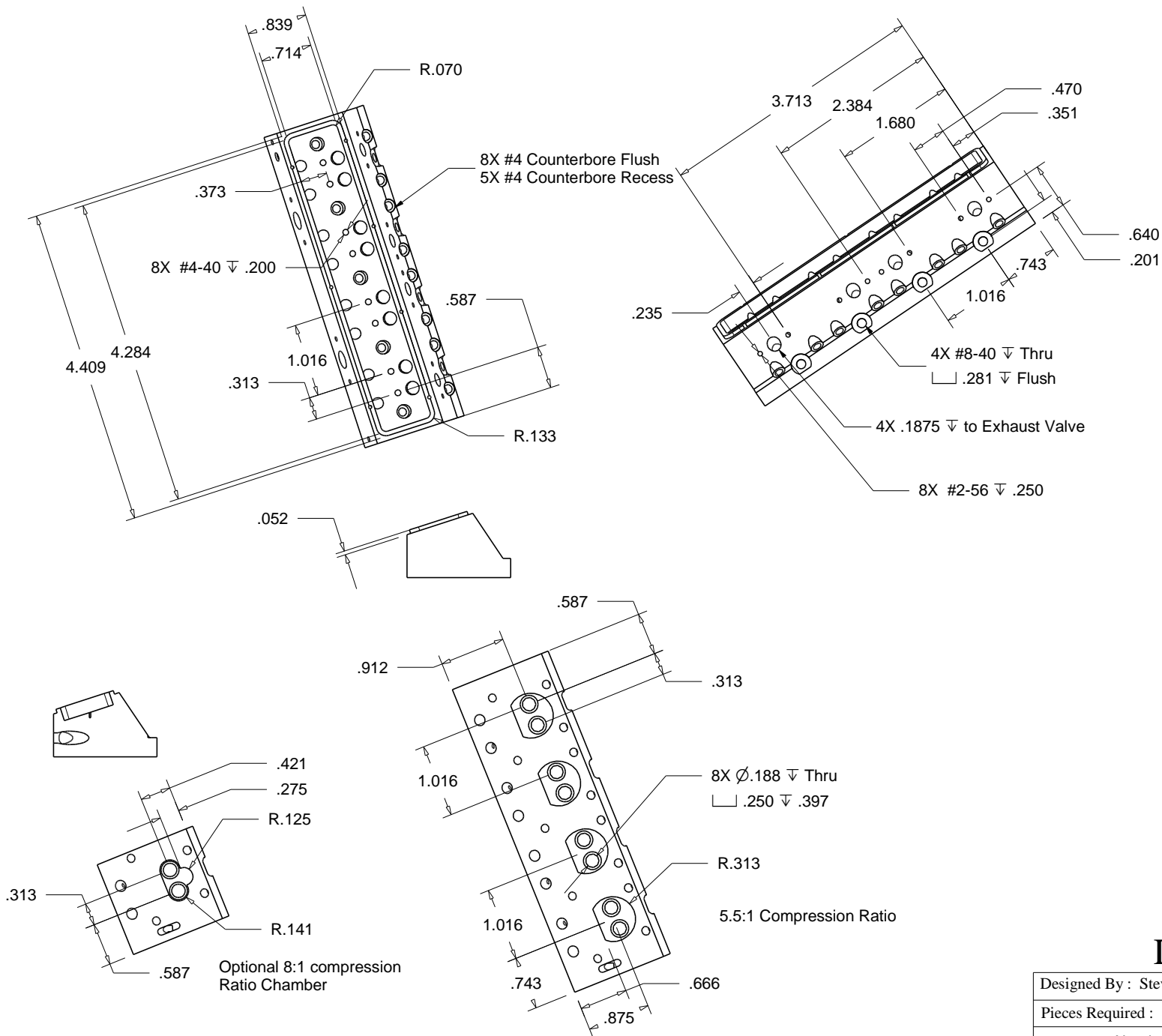
Head Bottom & Intake



Demon V8

Designed By : Steve Huck	Page 26 Of 68
Pieces Required : 2	Rev : 1.00
Material : Aluminum	

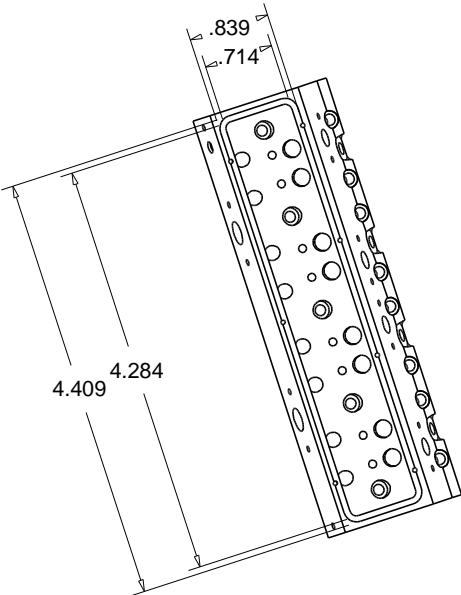
Head Chambers, Exhaust, and Rockers



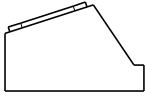
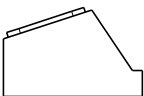
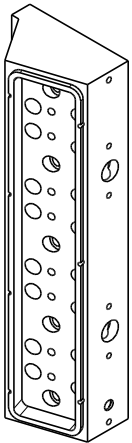
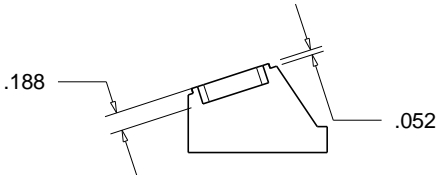
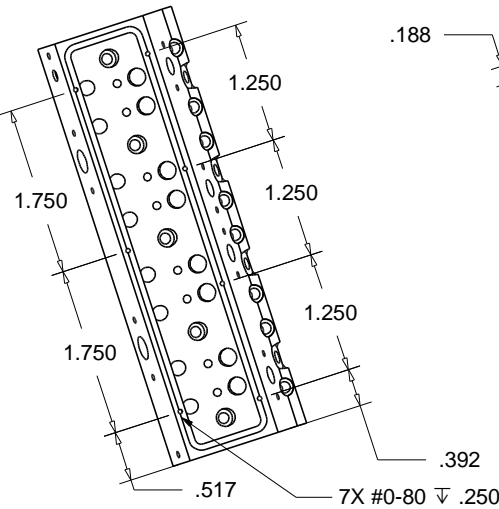
Demon V8

Designed By : Steve Huck	Page 27 Of 68
Pieces Required : 2	Rev : 1.02
Material : Aluminum	

Head Rocker Valley



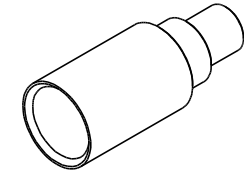
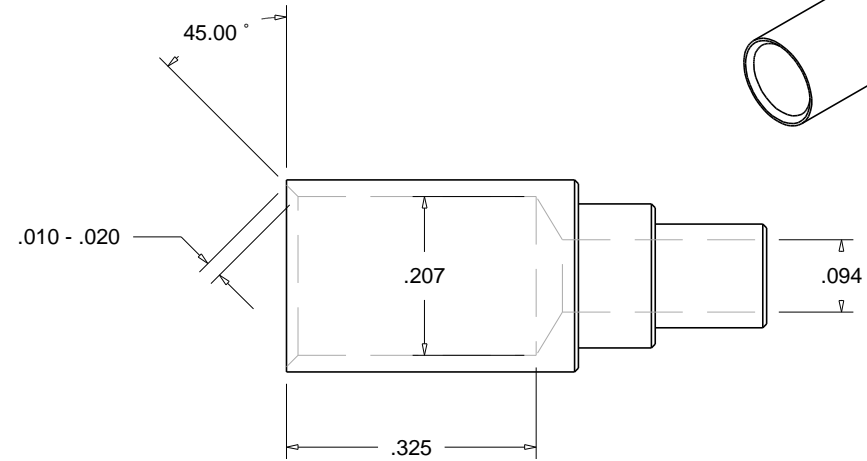
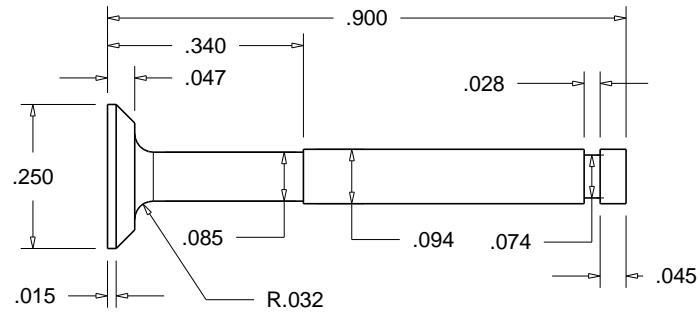
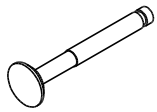
Bolt pattern .822 wide centered on rocker valley to match valve cover



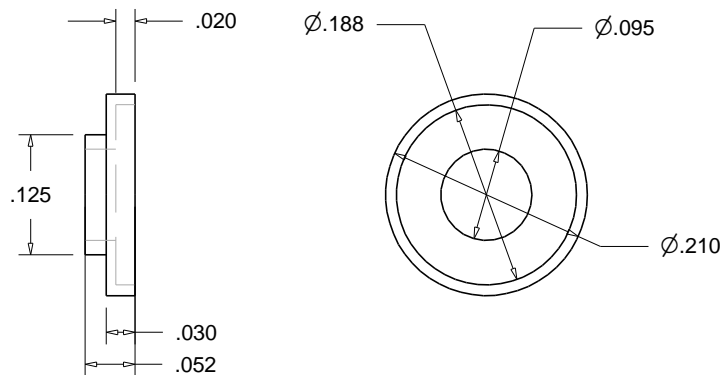
Demon V8

Designed By : Steve Huck	Page 28 Of 68
Pieces Required : 2	Rev : 1.01
Material : Aluminum	

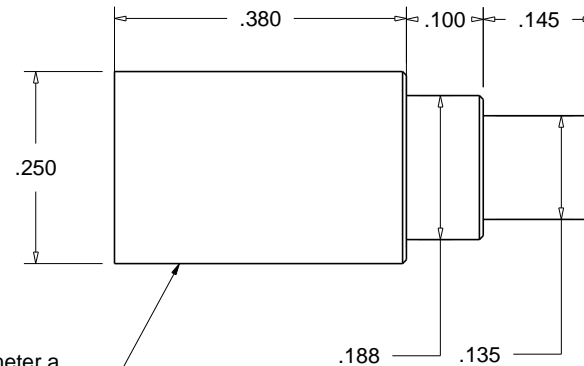
Valves & Cages



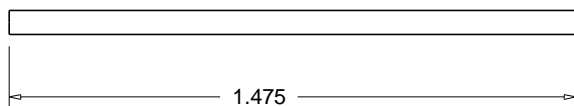
Spring Retainer Brass



Make this diameter a light press fit into the head and use Loc-tite



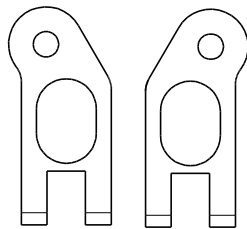
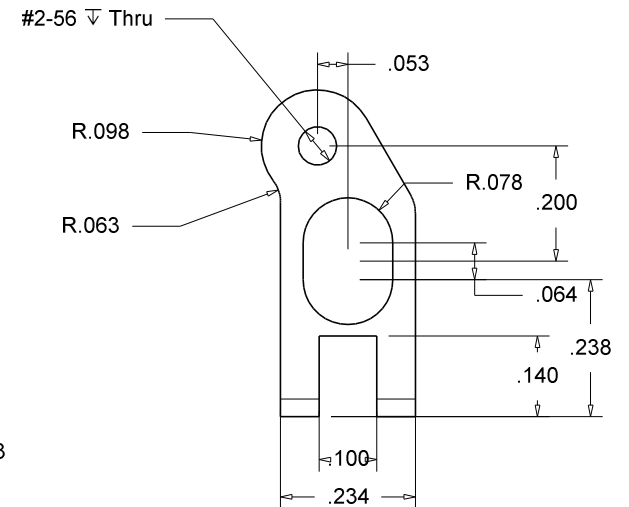
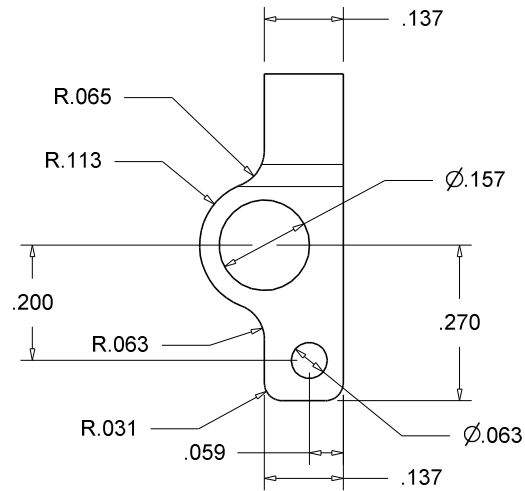
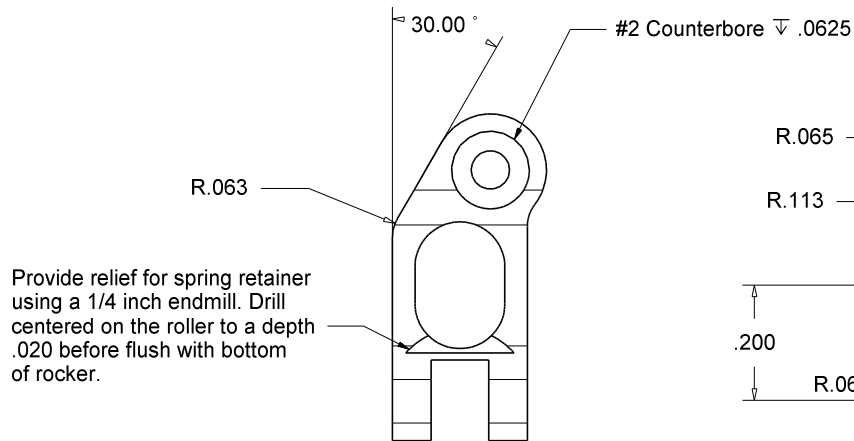
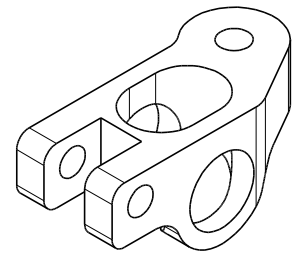
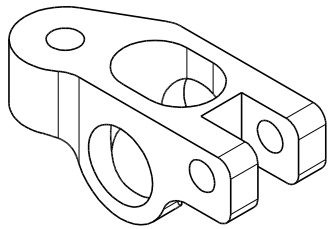
Pushrod 16 Req'd 1/16 Drill Rod



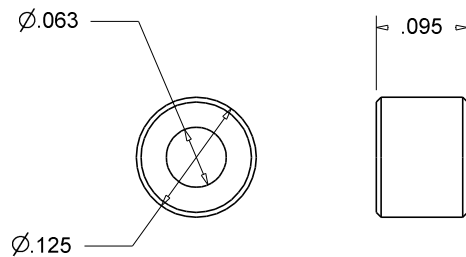
Demon V8

Designed By : Steve Huck	Page 29 Of 68
Pieces Required : 16	Rev : 1.01
Material : Drill Rod	

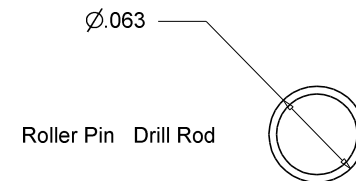
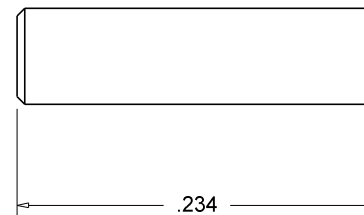
Rocker Arms



Builder must make 8 left and 8 right hand.



Roller Drill Rod

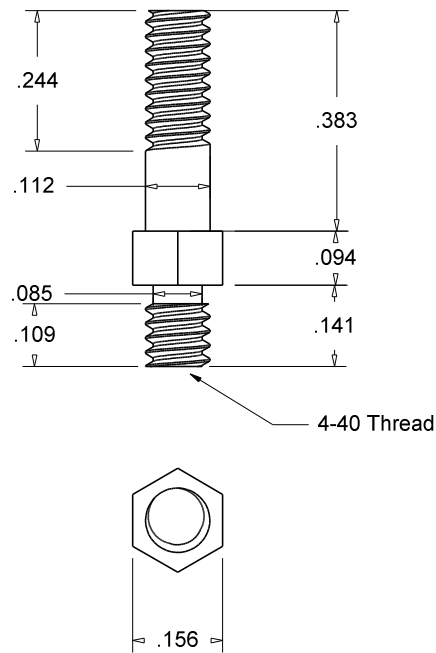


Demon V8

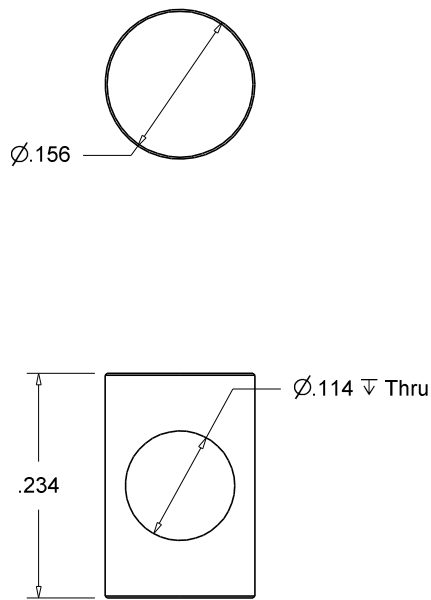
Designed By : Steve Huck	Page 30 Of 68
Pieces Required : 16	Rev : 1.01
Material : Aluminum	

Rocker Parts

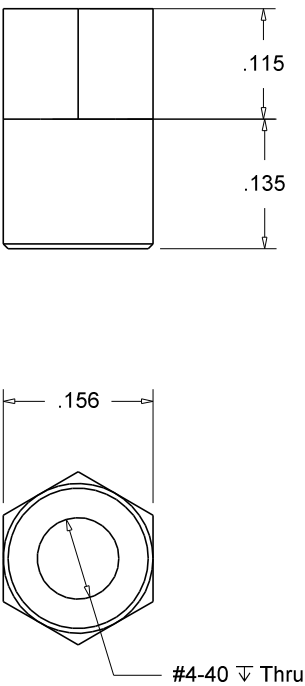
Rocker Stud



Rocker Pivot Drill Rod



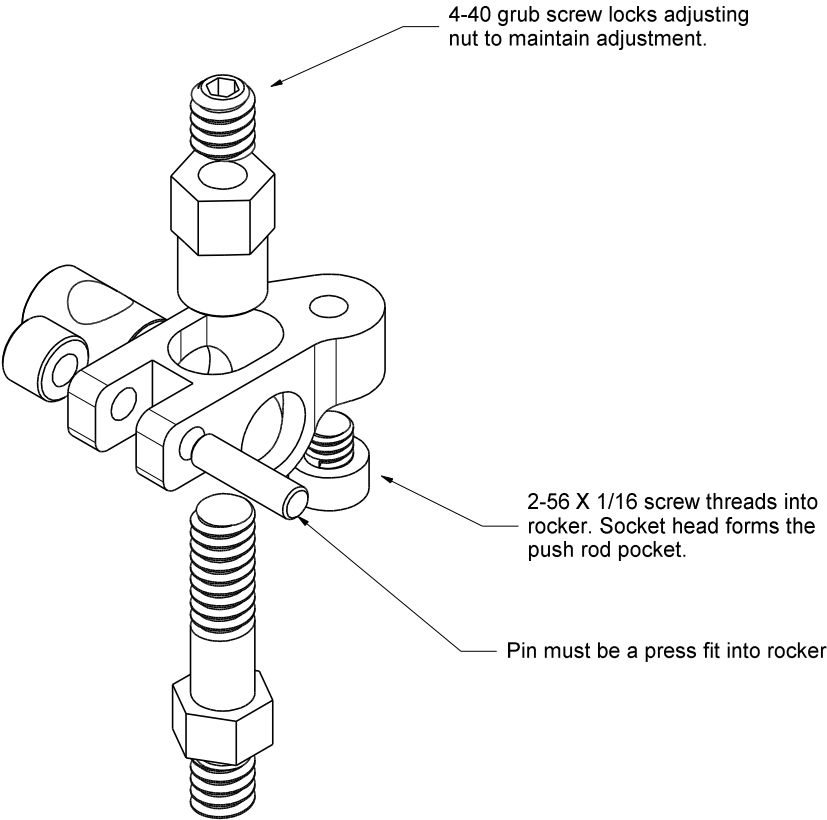
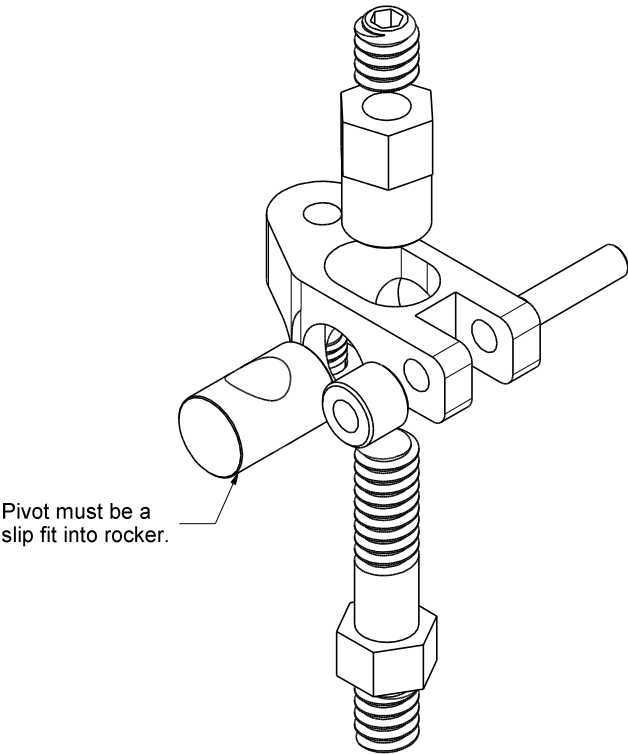
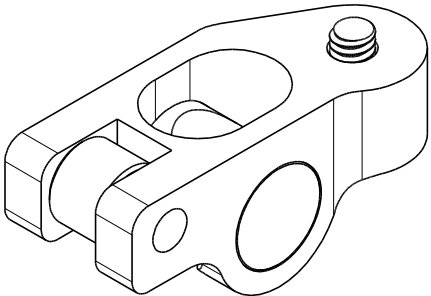
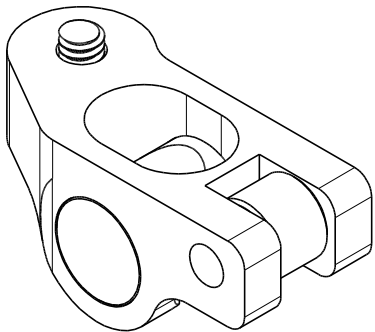
Rocker Nut



Demon V8

Designed By : Steve Huck	Page 31 Of 68
Pieces Required : 16	Rev : 1.00
Material : 12L14 Steel	

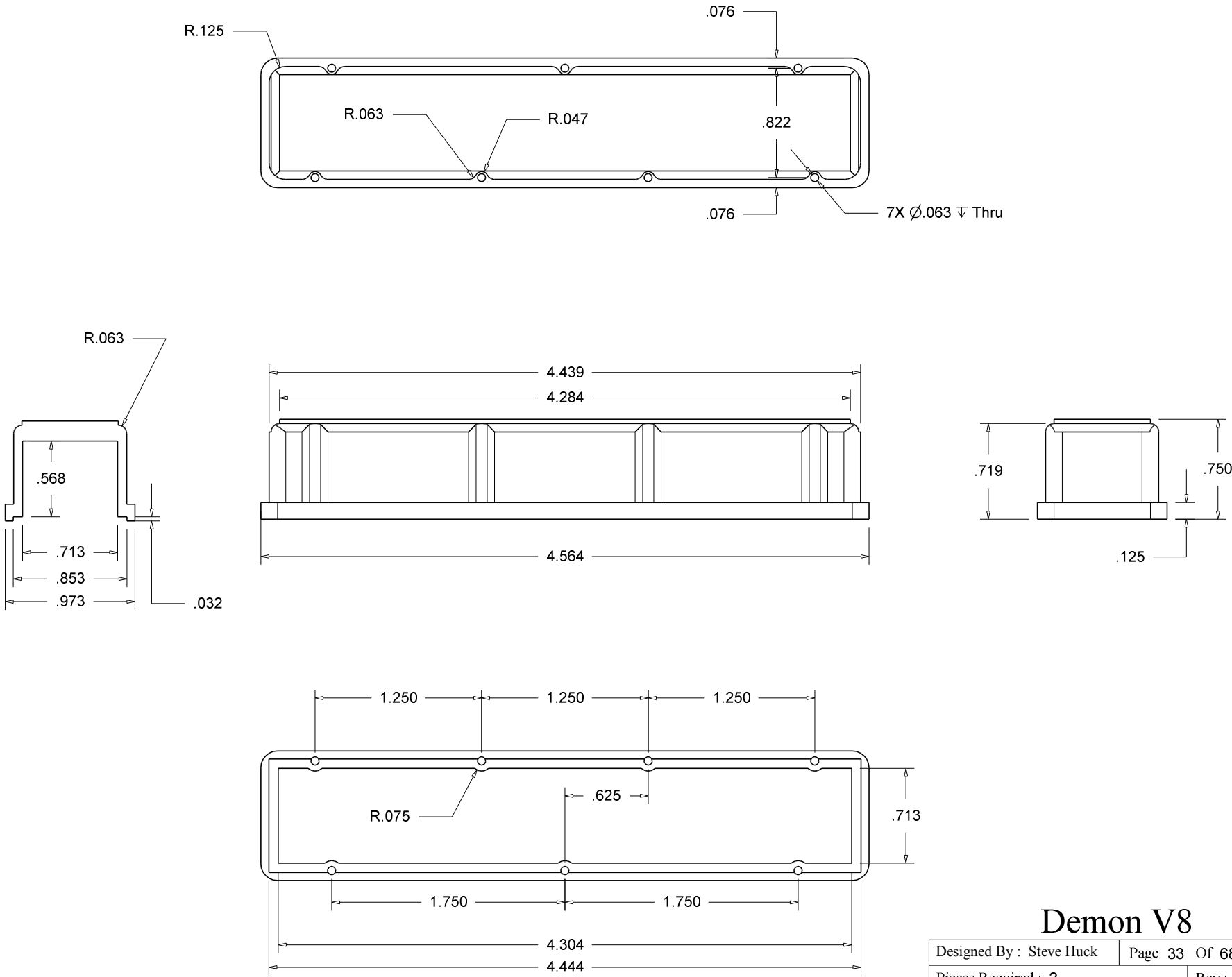
Rocker Assembly



Demon V8

Designed By : Steve Huck	Page 32 Of 68
Pieces Required : N/A	Rev : 1.00
Material : N/A	

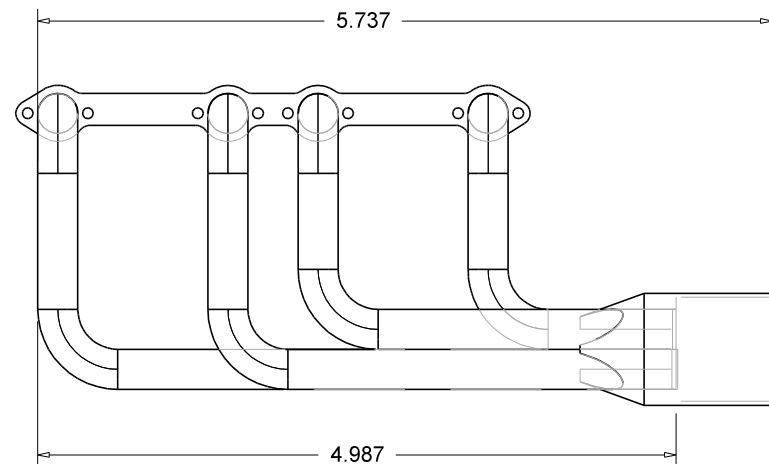
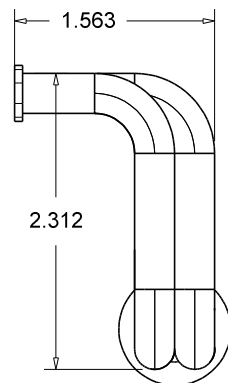
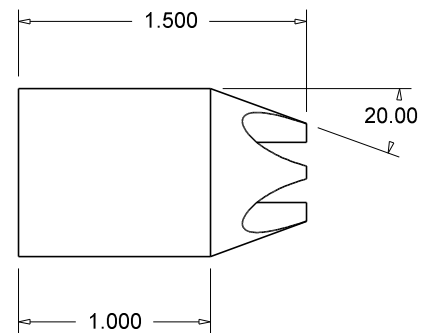
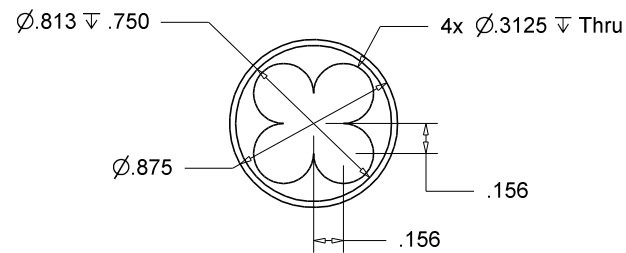
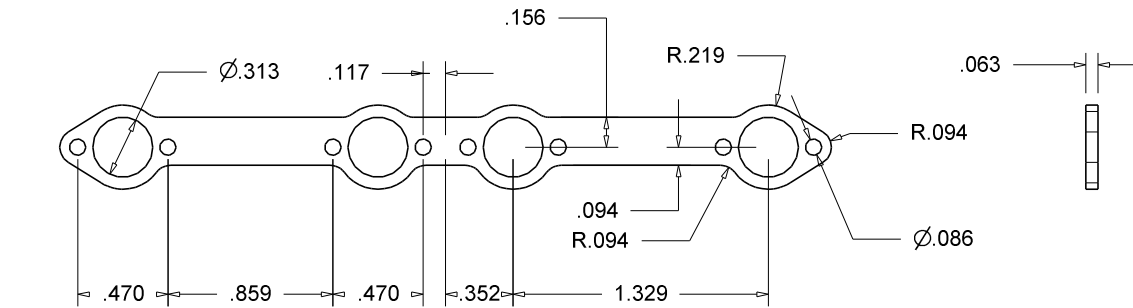
Valve cover



Demon V8

Designed By : Steve Huck	Page 33 Of 68
Pieces Required : 2	Rev : 1.00
Material : Aluminum	

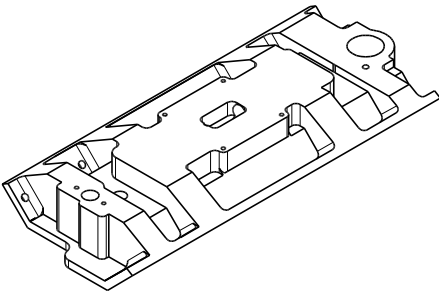
Header Flange



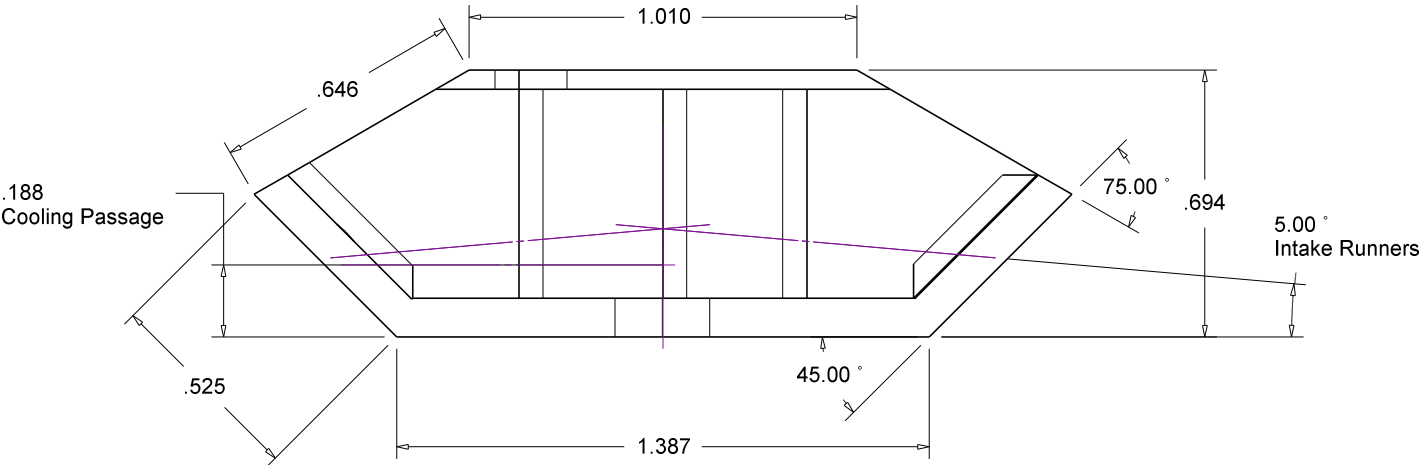
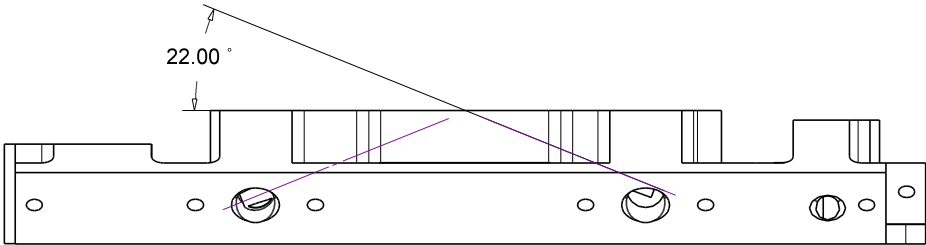
Demon V8

Designed By : Steve Huck	Page 34 Of 68
Pieces Required : 2	Rev : 1.00
Material : Brass	

Intake Manifold



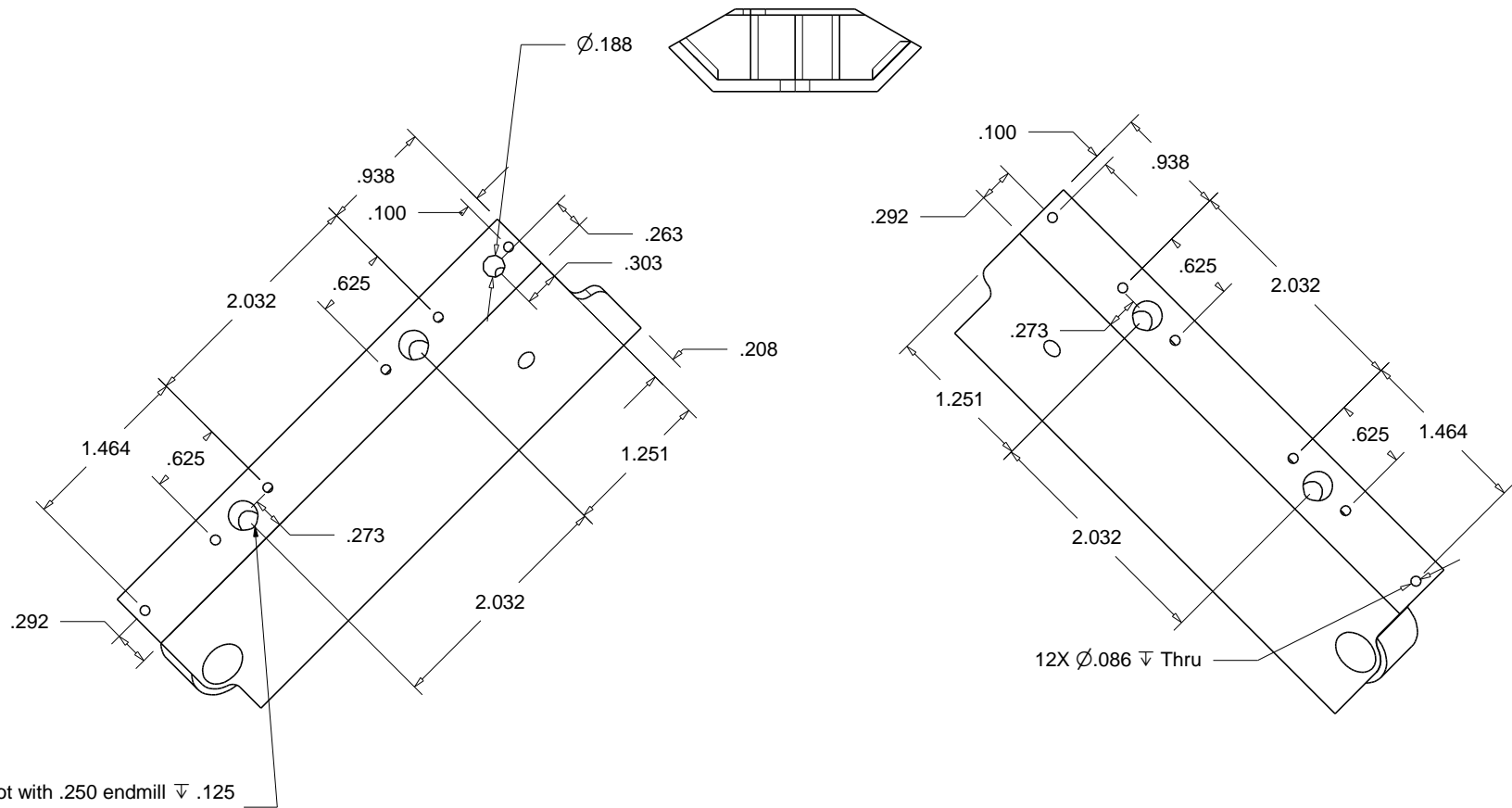
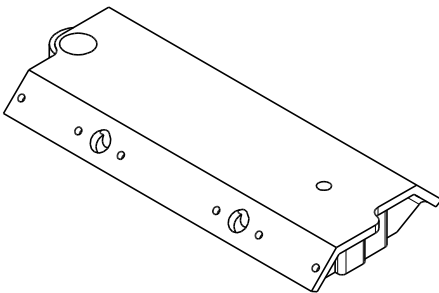
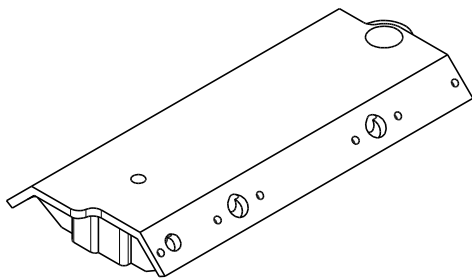
Ports are drilled from center slot
to meet ports drilled from side



Demon V8

Designed By : Steve Huck	Page 35 Of 68
Pieces Required : 1	Rev : 1.00
Material : Aluminum	

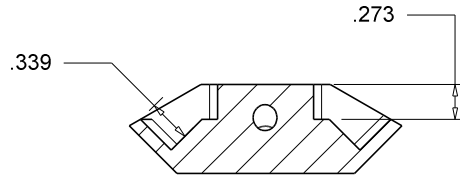
Intake Manifold



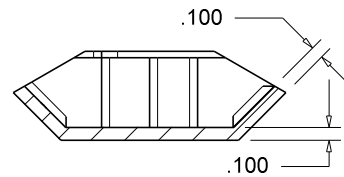
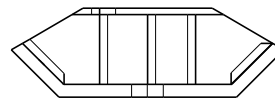
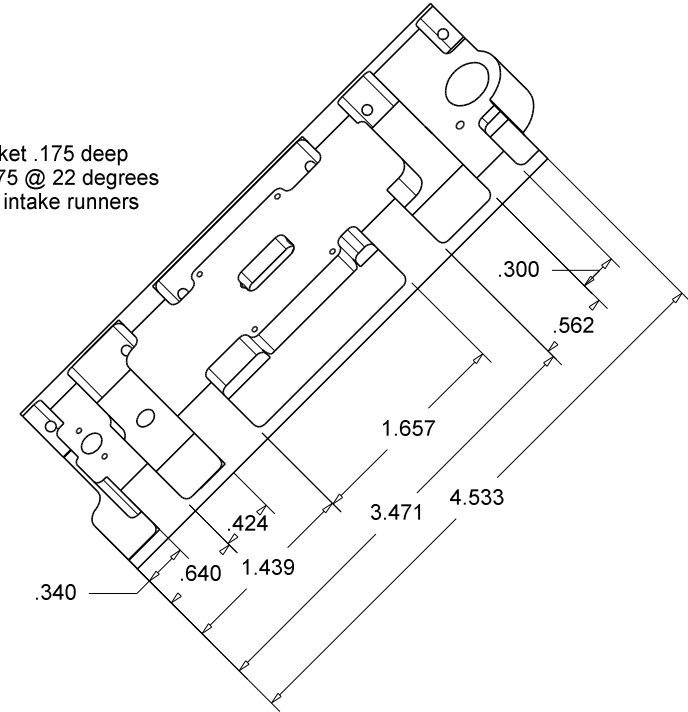
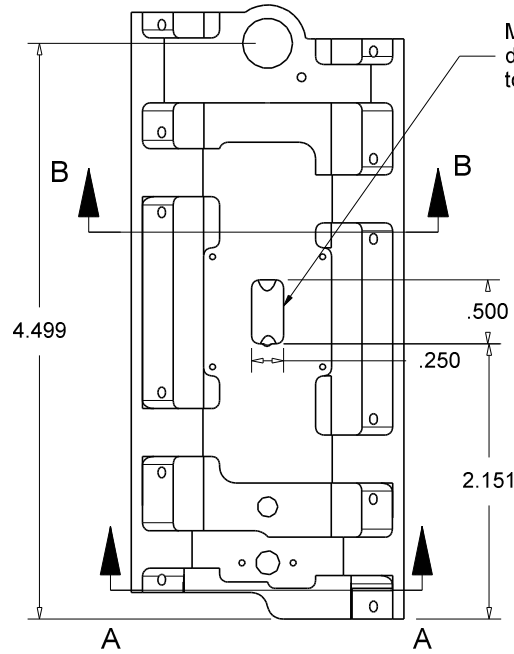
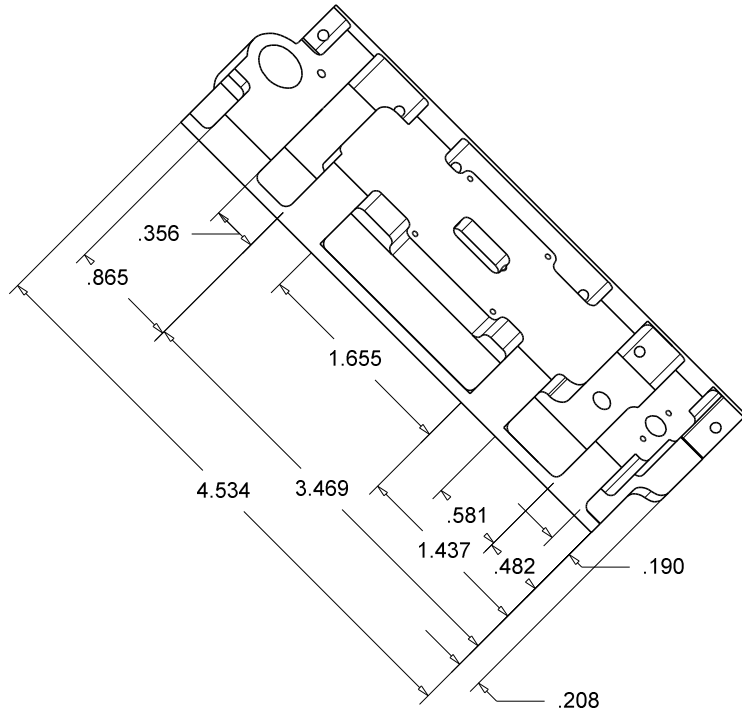
Demon V8

Designed By : Steve Huck	Page 36 Of 68
Pieces Required : 1	Rev : 1.03
Material : Aluminum	

Intake top



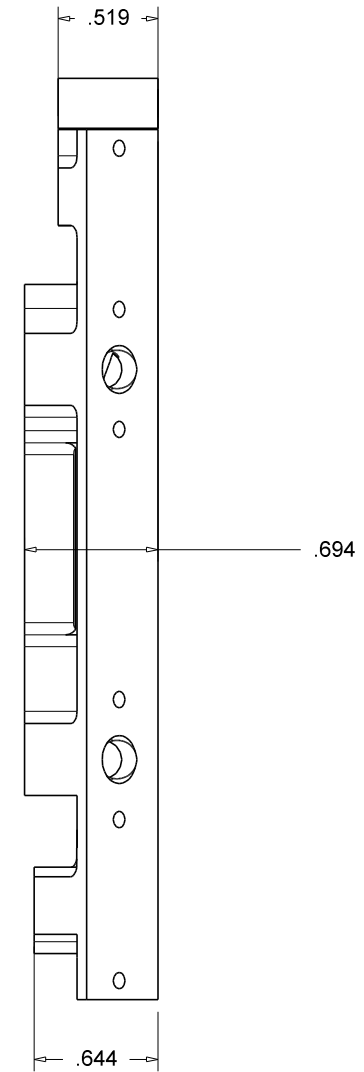
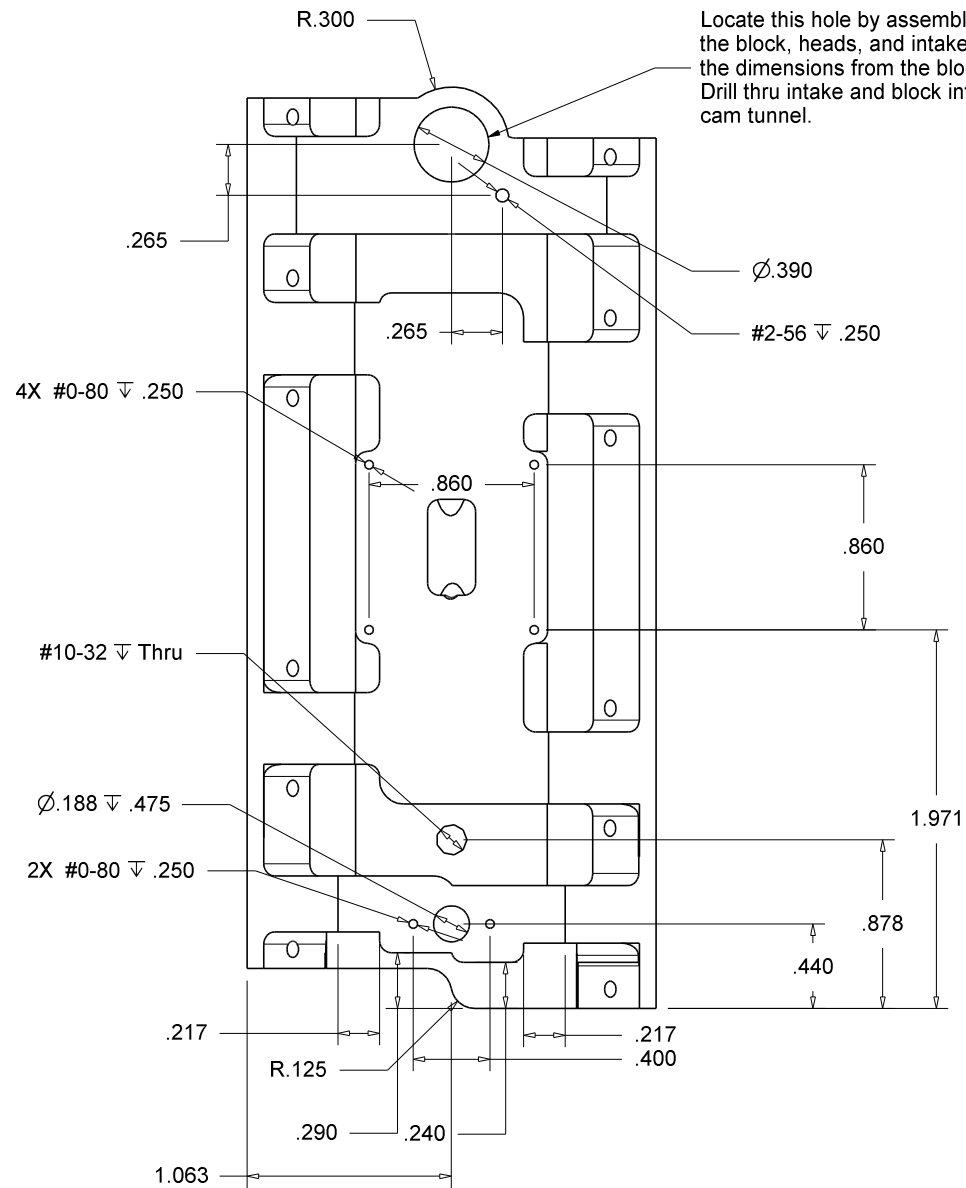
Section B-B



Demon V8

Designed By : Steve Huck	Page 37 Of 68
Pieces Required : 1	Rev : 1.01
Material : Aluminum	

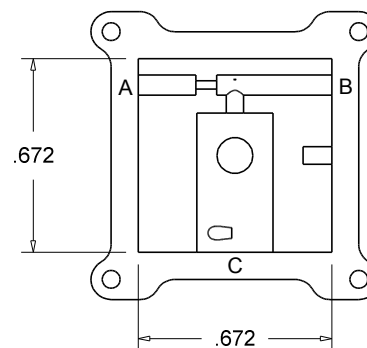
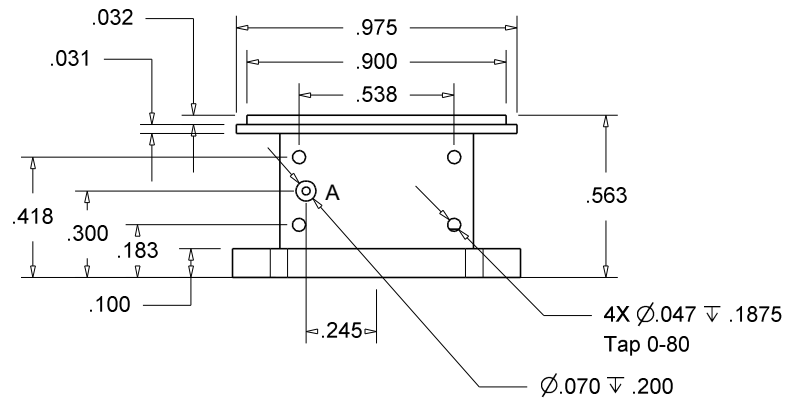
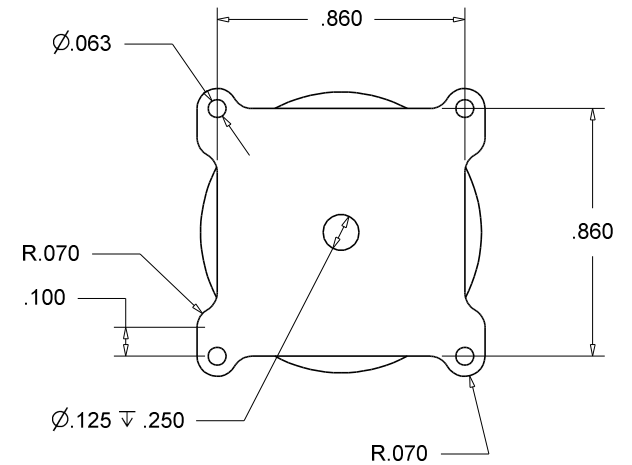
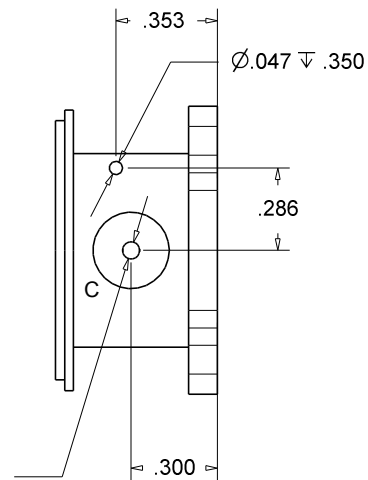
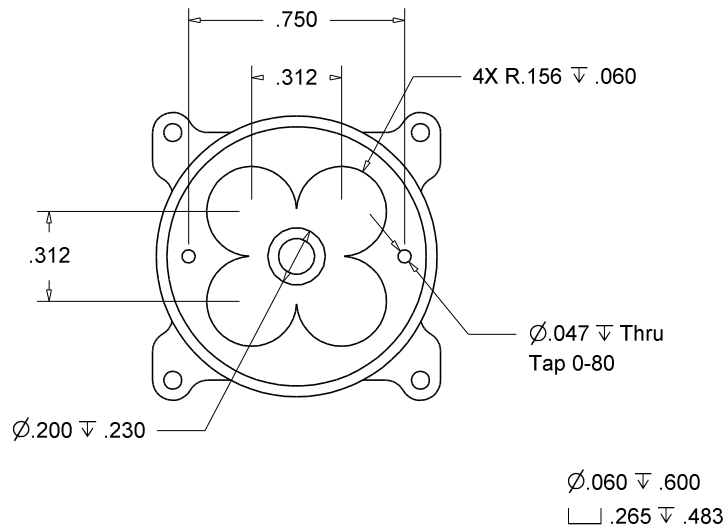
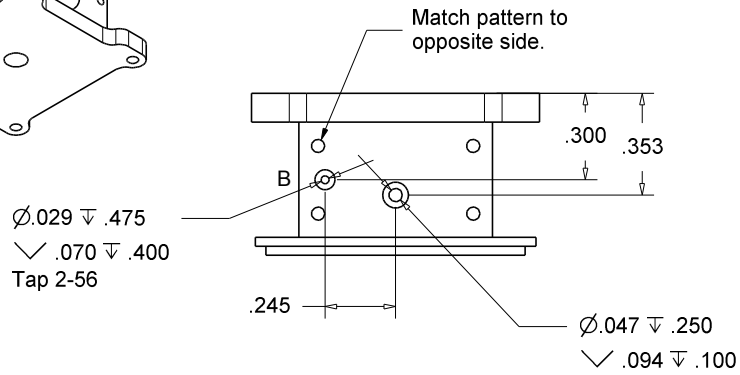
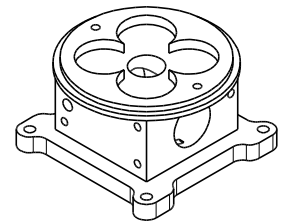
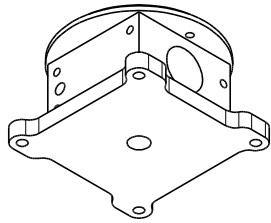
Intake Top 2



Demon V8

Designed By : Steve Huck	Page 38 Of 68
Pieces Required : 1	Rev : 1.01
Material : Aluminum	

Carburetor Body



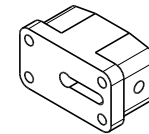
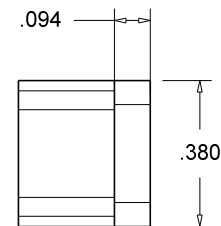
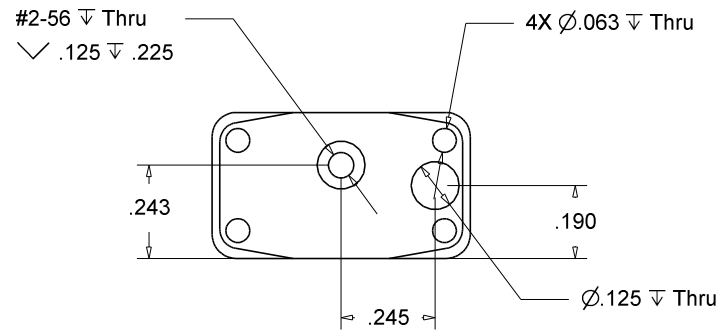
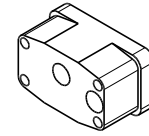
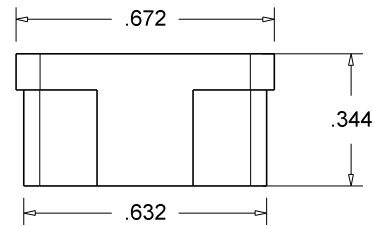
Section view at center
 of barrel to show how
 fuel holes intersect.

Demon V8

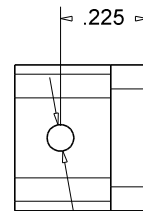
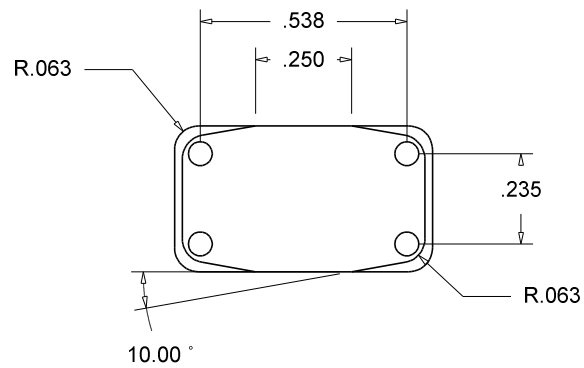
Designed By : Steve Huck	Page 39 Of 68
Pieces Required : 1	Rev : 1.00
Material : Aluminum	

Carburetor Bowls

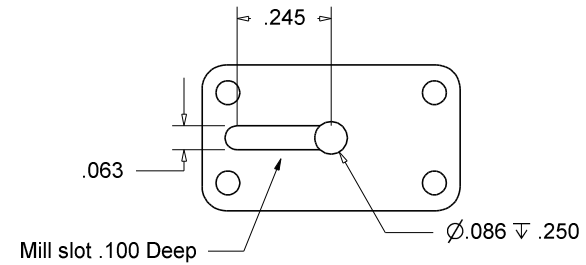
Front Bowl 1 Reqd



Rear Bowl 1 Reqd



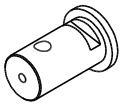
#2-56 Thru .325



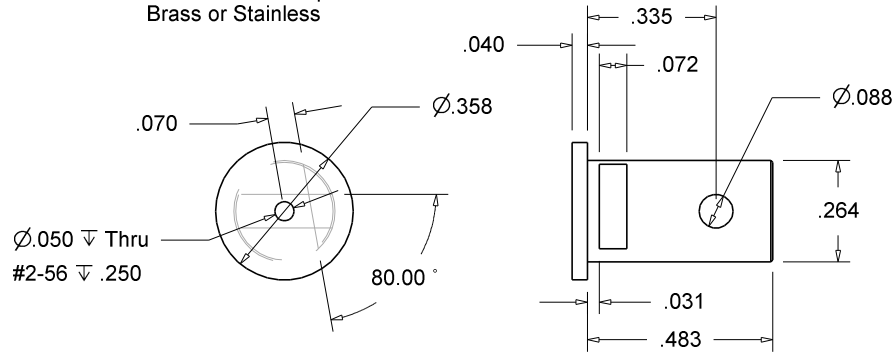
Demon V8

Designed By : Steve Huck	Page 40 Of 68
Pieces Required : 1	Rev : 1.00
Material : Aluminum	

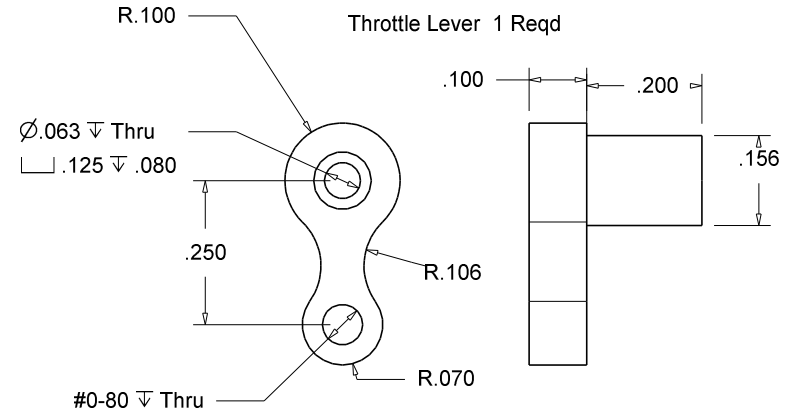
Carburetor Parts



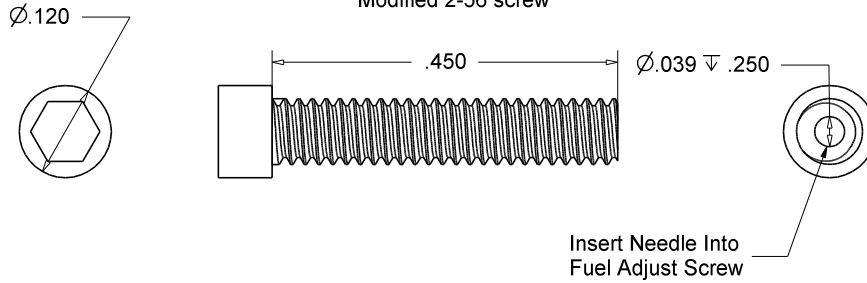
Carb Drum 1 Reqd
Brass or Stainless



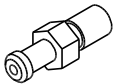
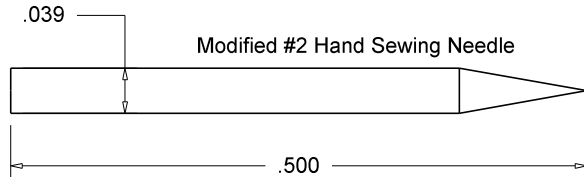
Throttle Lever 1 Reqd



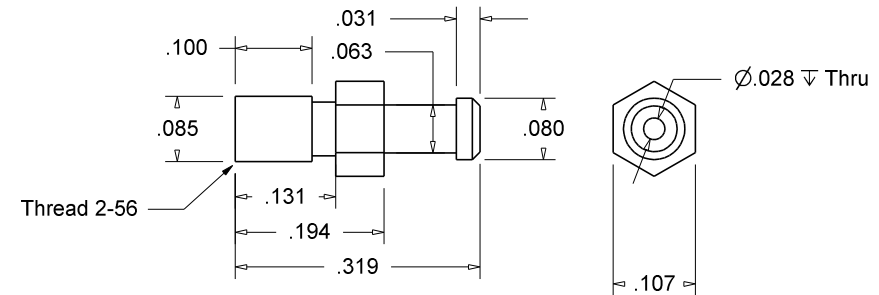
Fuel Adjust Screw
Modified 2-56 screw



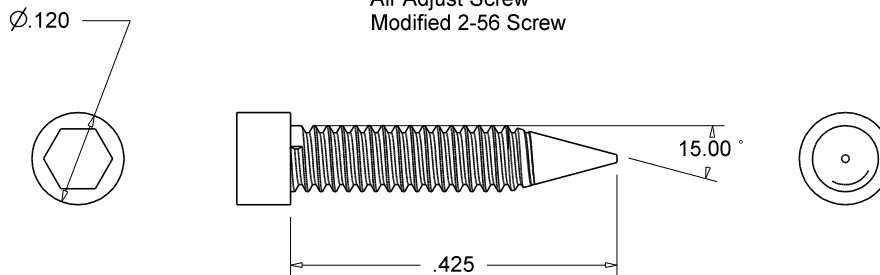
Modified #2 Hand Sewing Needle



Fuel Fitting 1 Reqd



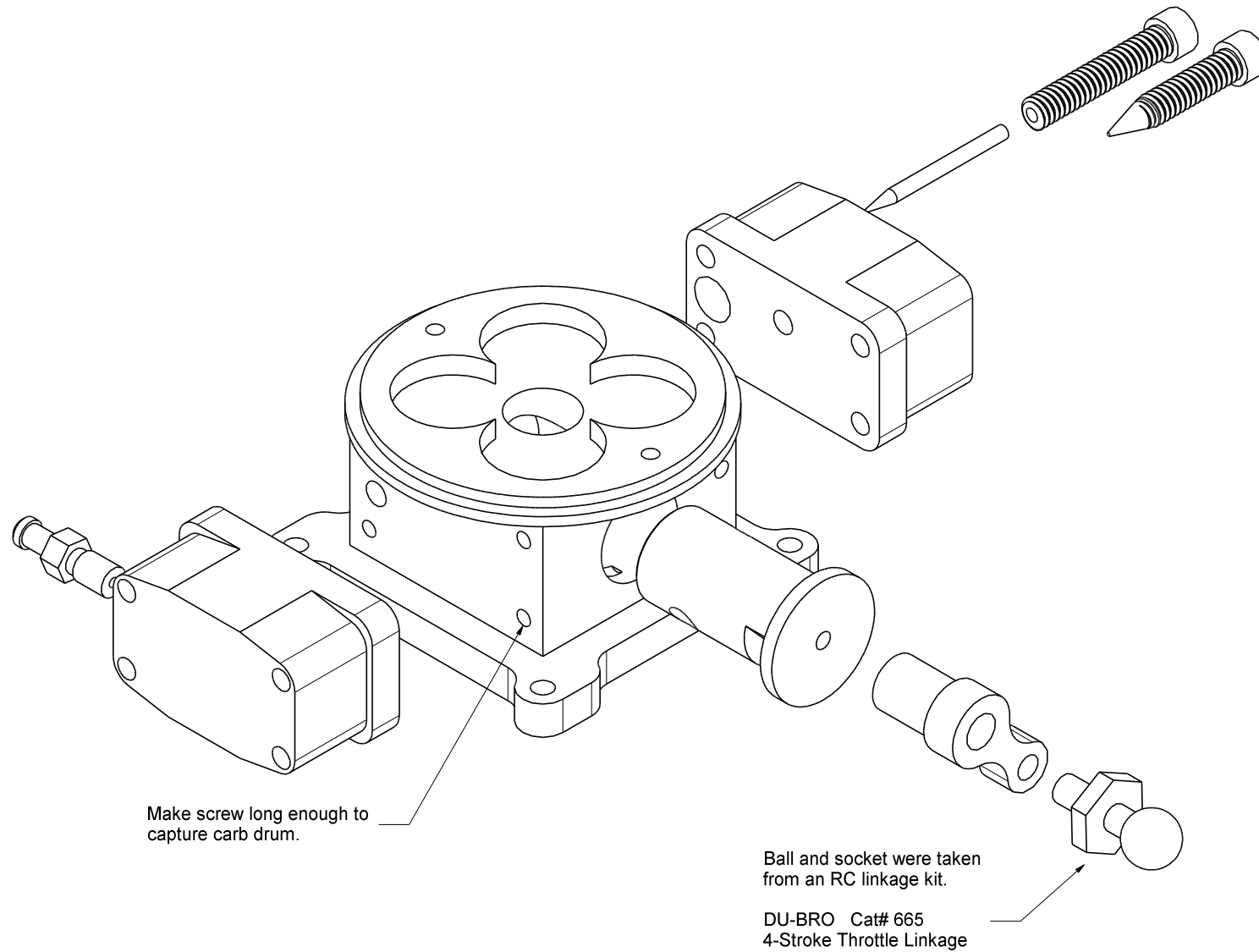
Air Adjust Screw
Modified 2-56 Screw



Demon V8

Designed By : Steve Huck	Page 41 Of 68
Pieces Required : 1	Rev : 1.00
Material : Aluminum	

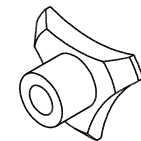
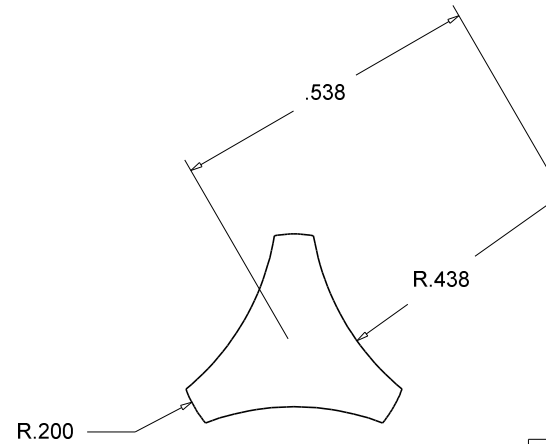
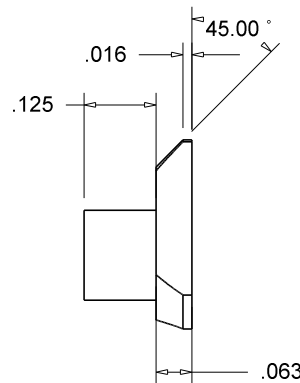
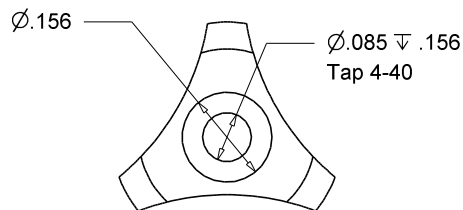
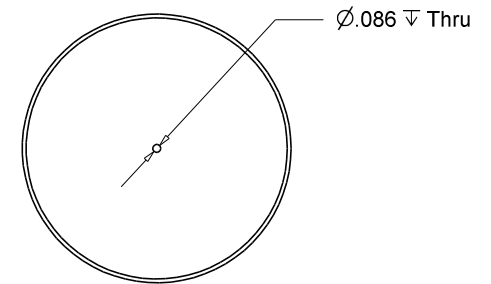
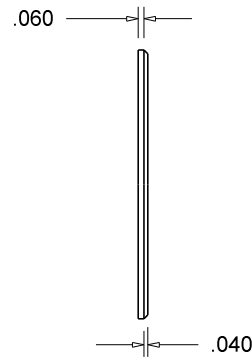
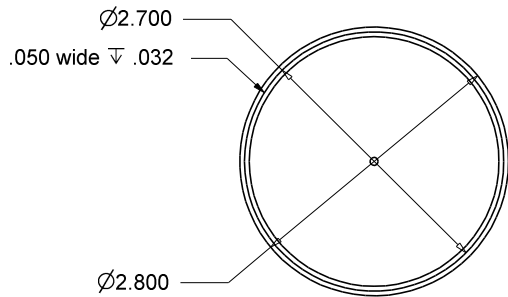
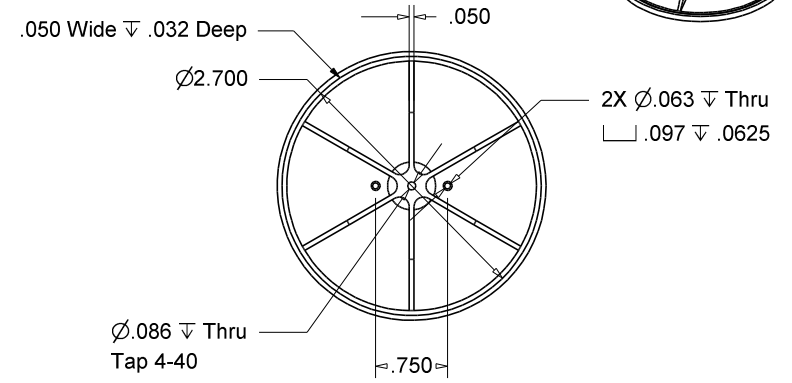
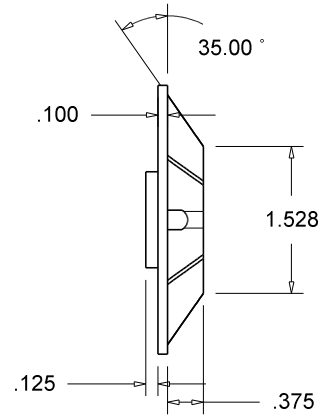
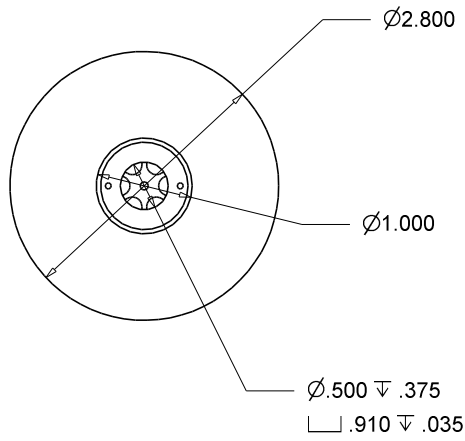
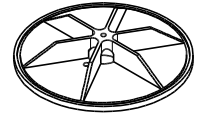
Carburetor Assembly



Demon V8

Designed By : Steve Huck	Page 42 Of 68
Pieces Required :	Rev : 1.00
Material : N/A	

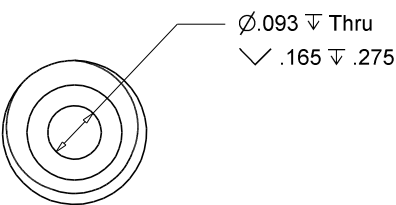
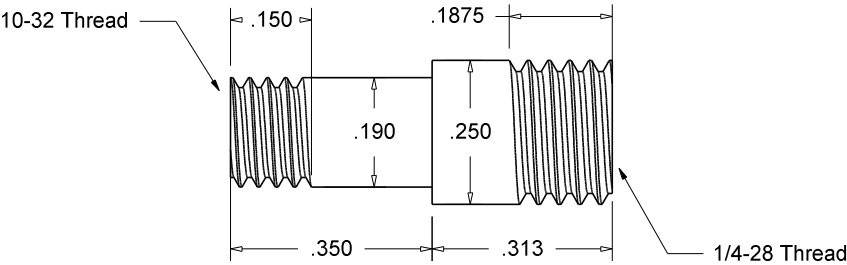
Air Cleaner



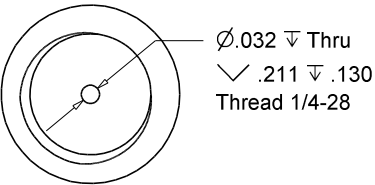
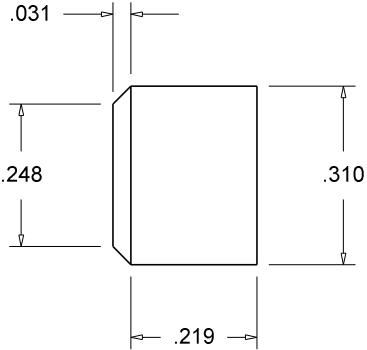
Demon V8

Designed By : Steve Huck	Page 43 Of 68
Pieces Required : 1	Rev : 1.00
Material : Aluminum	

PCV Valve



Insert .125 diameter ball bearing
into body before screwing cap on.

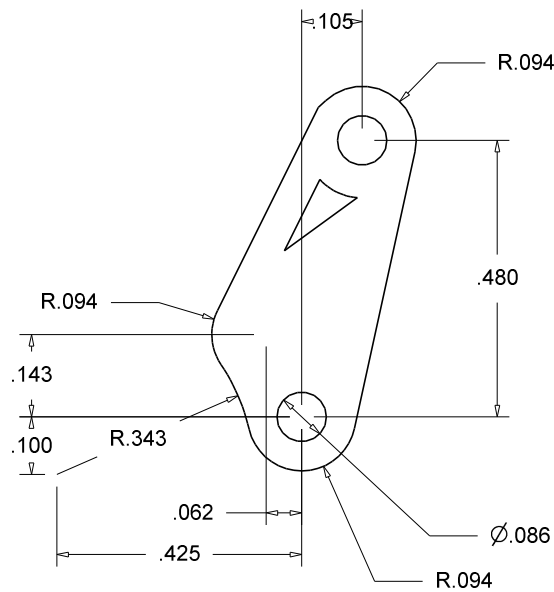
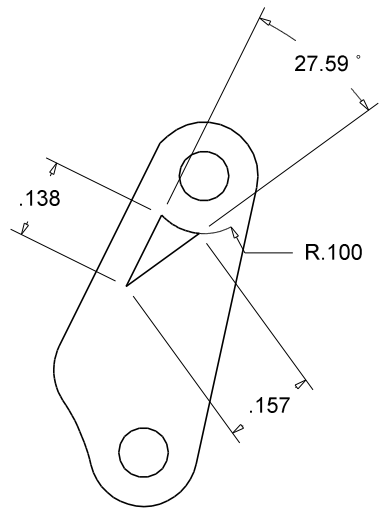
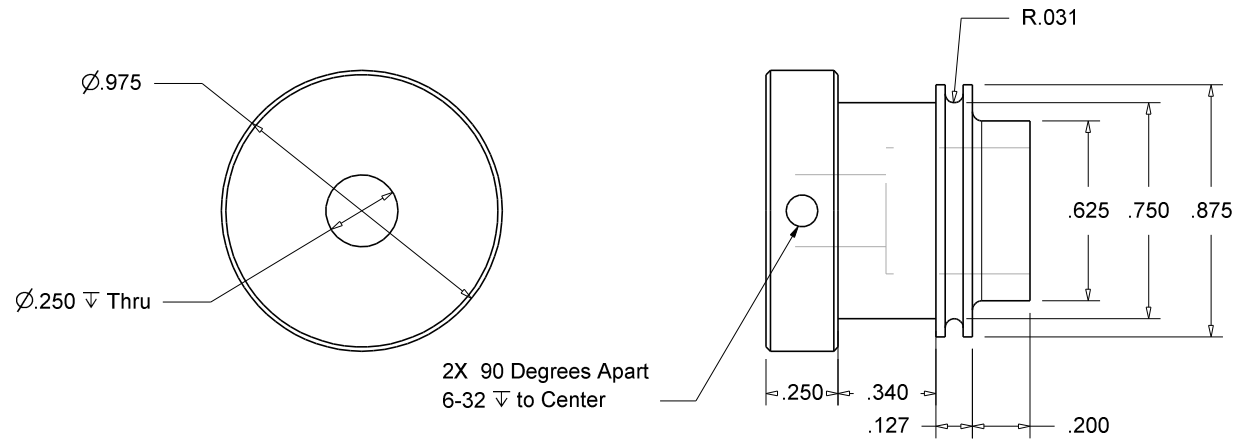


Demon V8

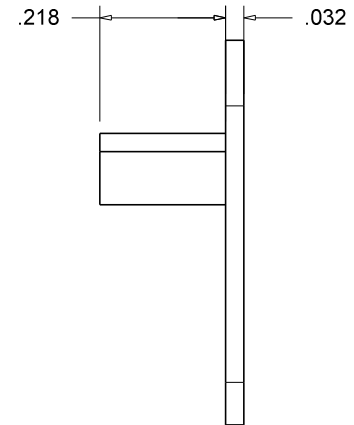
Designed By : Steve Huck	Page 44 Of 68
Pieces Required : 1	Rev : 1.00
Material : Brass	

Balancer & Timing Pointer

Balancer 12L14 Steel



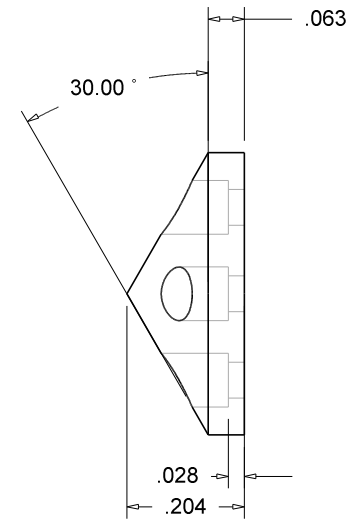
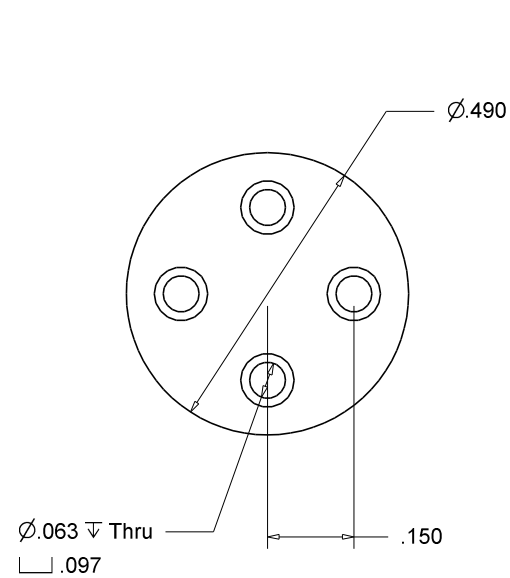
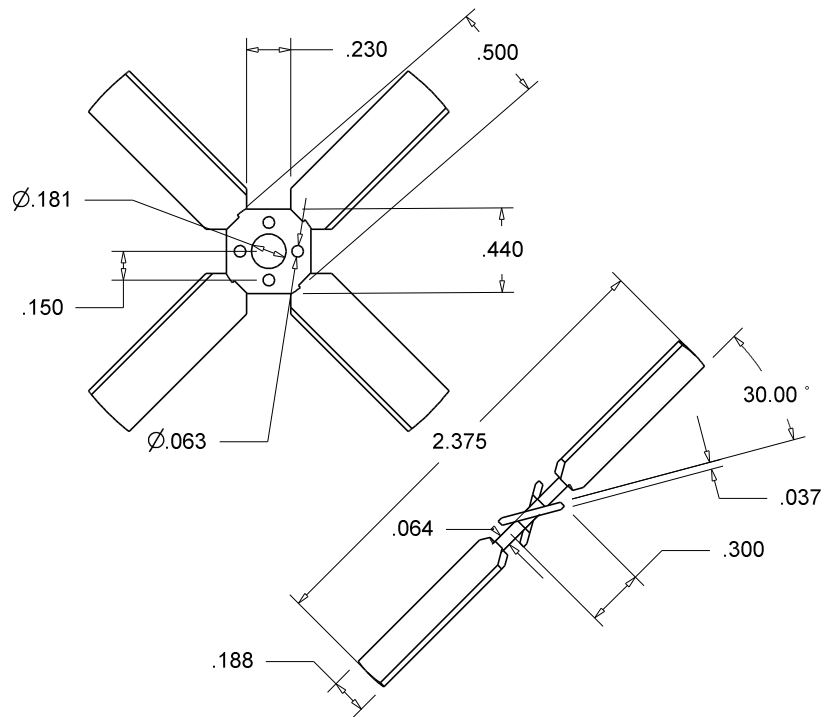
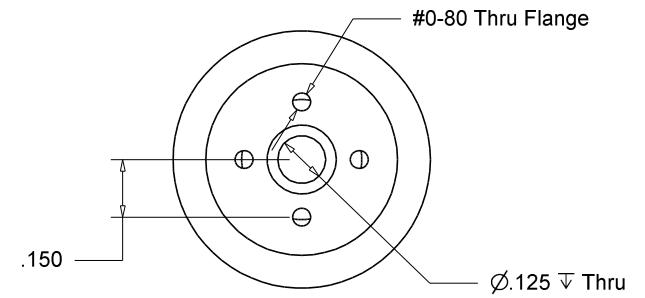
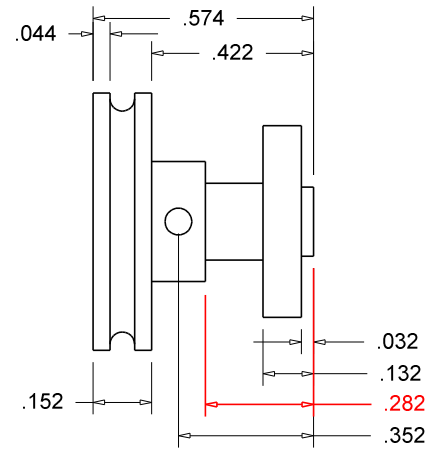
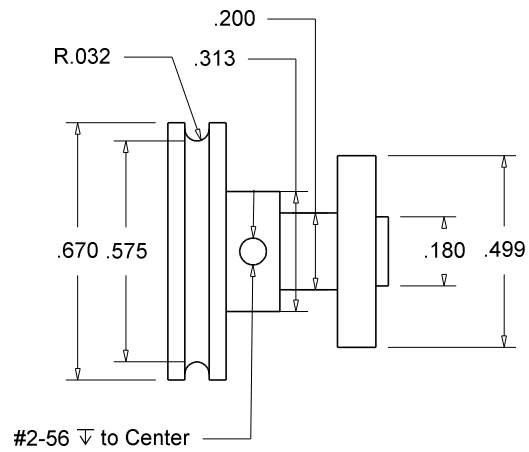
Optional Timing Pointer
Aluminum



Demon V8

Designed By : Steve Huck	Page 45 Of 68
Pieces Required : 1	Rev : 1.00
Material : Aluminum	

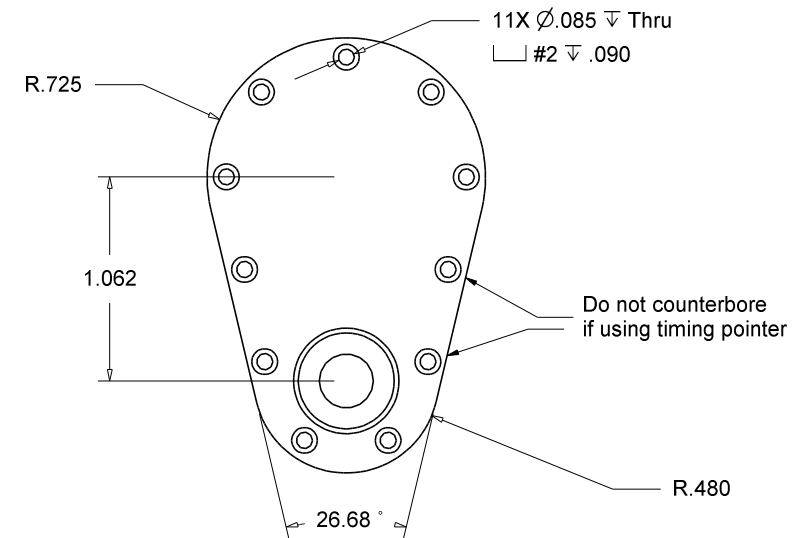
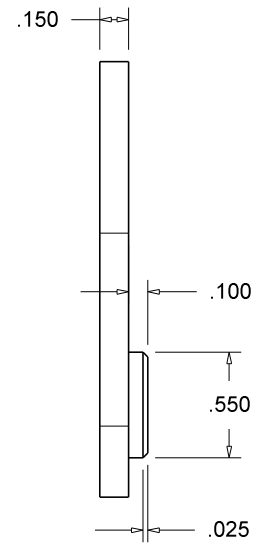
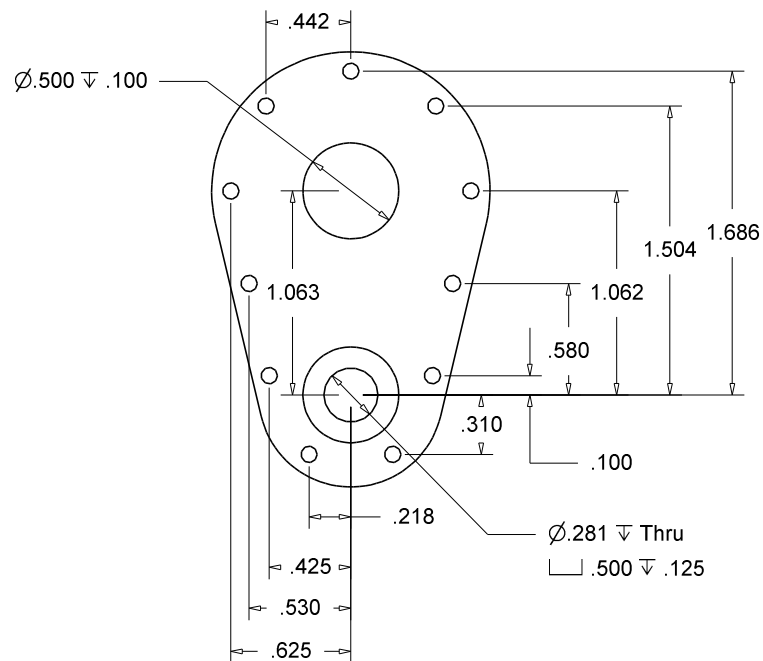
Fan



Demon V8

Designed By : Steve Huck	Page 46 Of 68
Pieces Required : 1	Rev : 1.00
Material : Aluminum	

Timing Cover

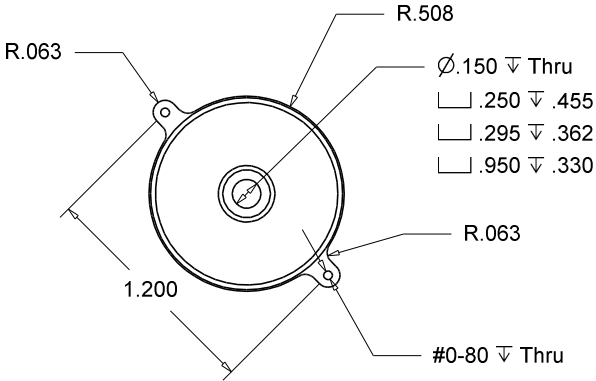
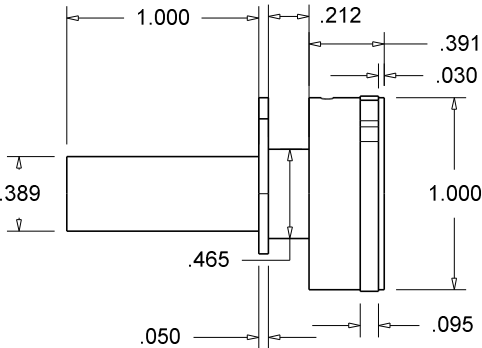
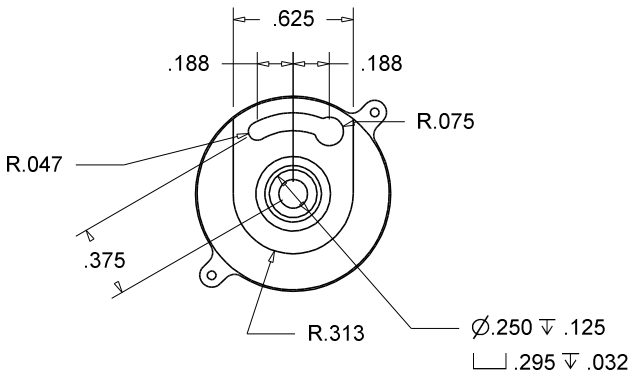


Demon V8

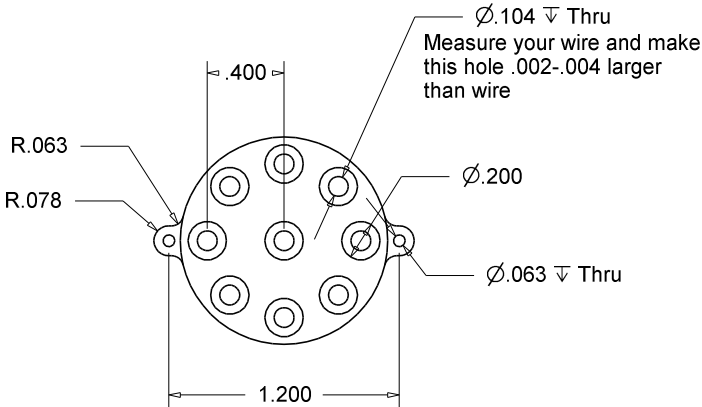
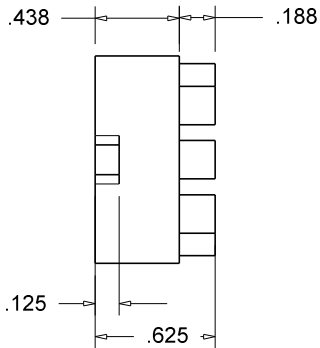
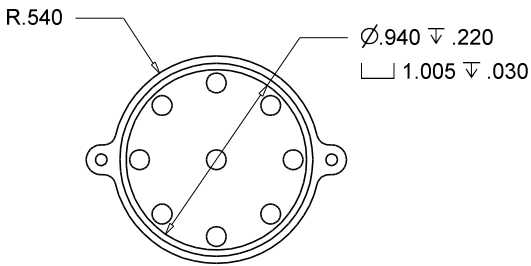
Designed By : Steve Huck	Page 47 Of 68
Pieces Required : 1	Rev : 1.00
Material : Aluminum	

Distributor

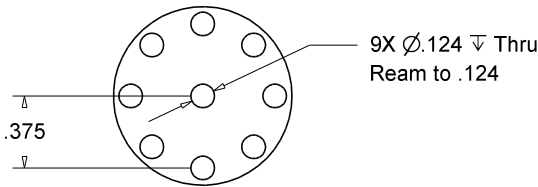
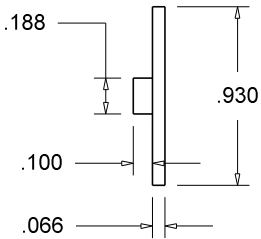
Distributor Body Aluminum



Distributor Cap Delrin or Acrylic



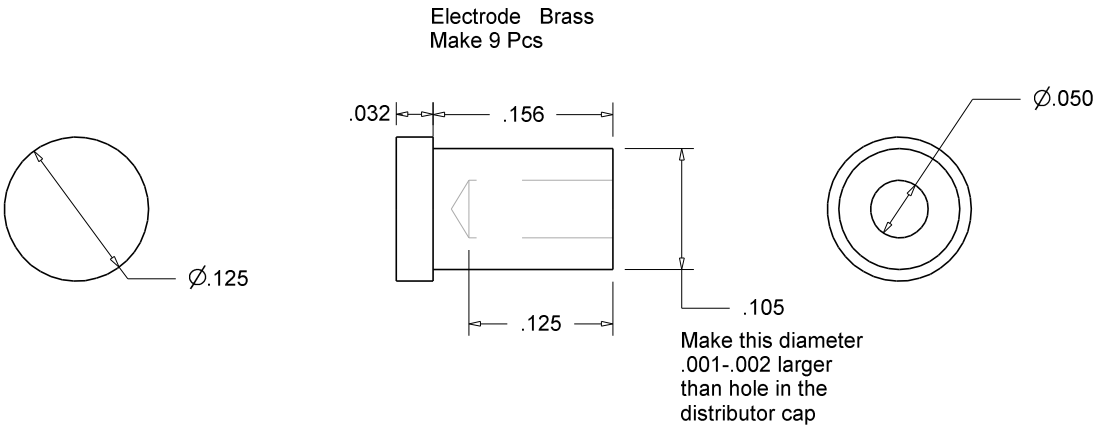
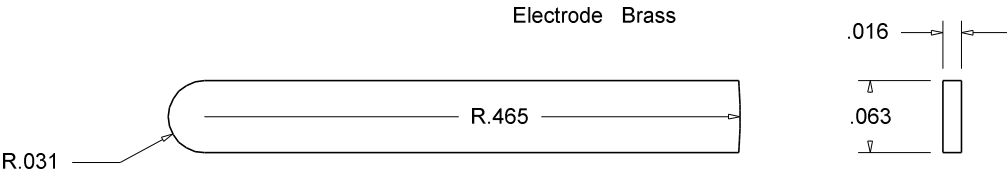
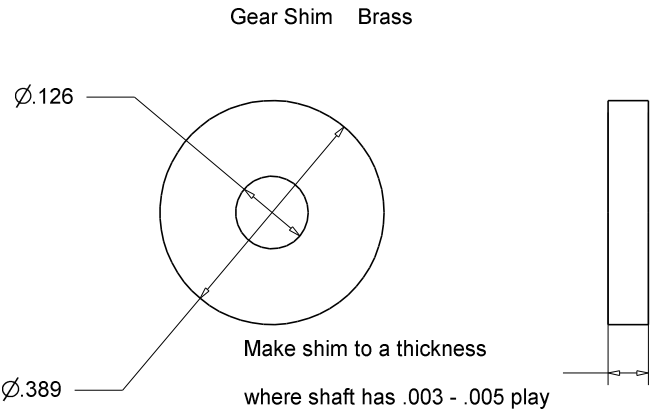
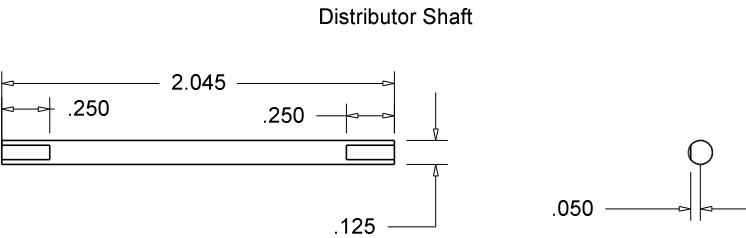
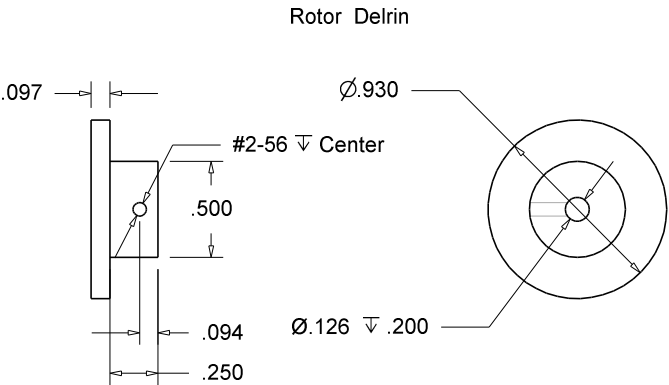
Distributor Disk 12L14 Steel



Demon V8

Designed By : Steve Huck	Page 48 Of 68
Pieces Required : 1	Rev : 1.01
Material : Aluminum	

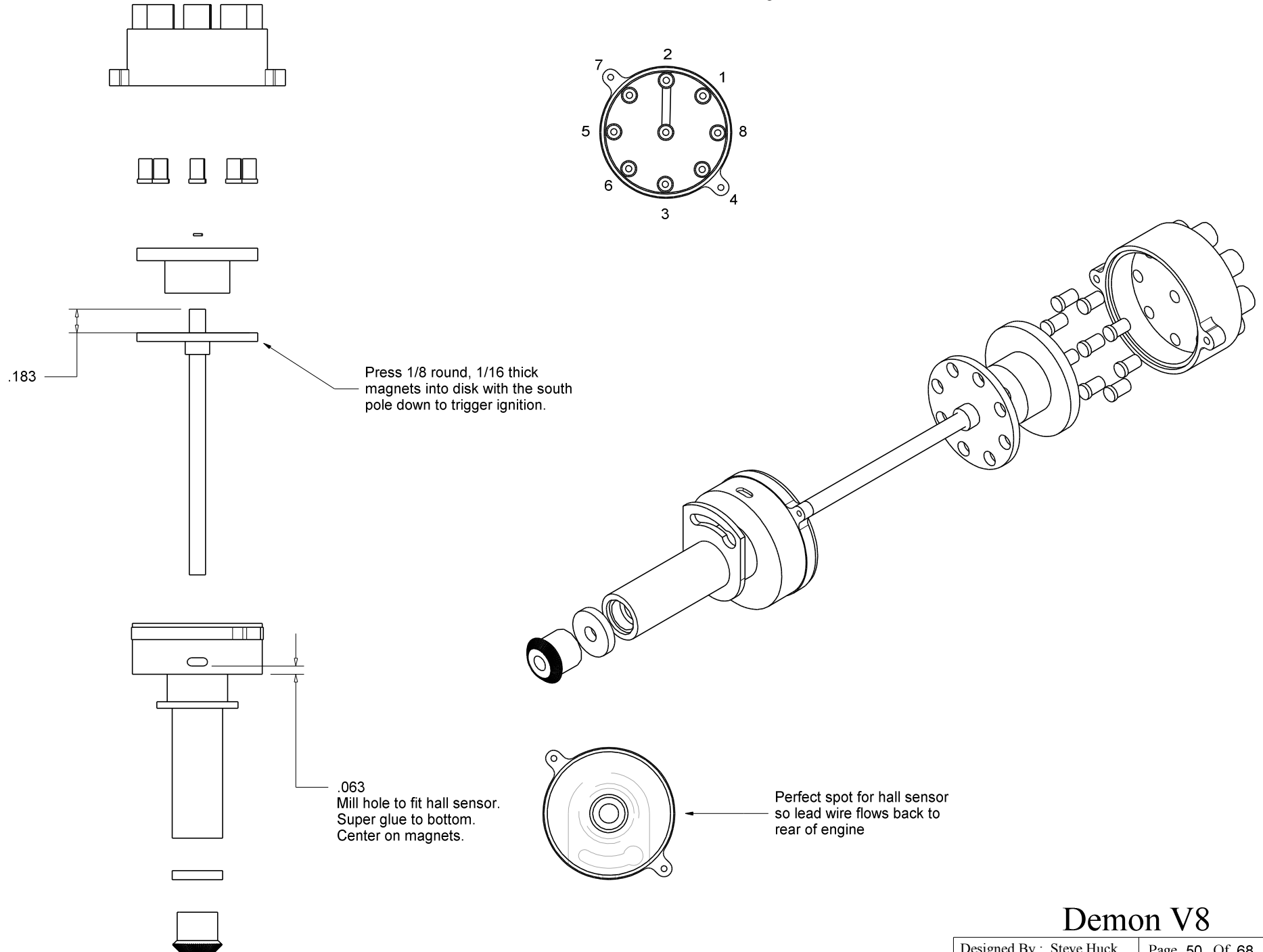
Distributor 2



Demon V8

Designed By : Steve Huck	Page 49 Of 68
Pieces Required : 1	Rev : 1.01
Material : Aluminum	

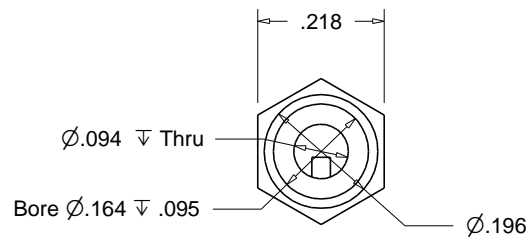
Distributor Assembly



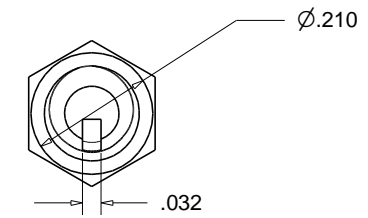
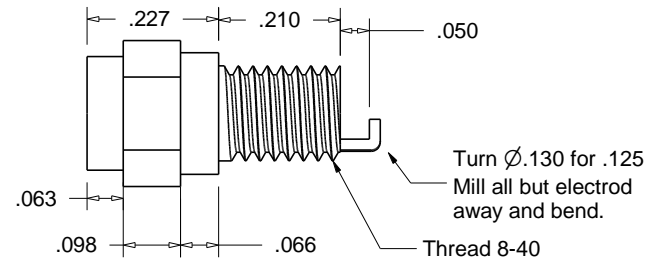
Demon V8

Designed By : Steve Huck	Page 50 Of 68
Pieces Required : 1	Rev : 1.00
Material :	

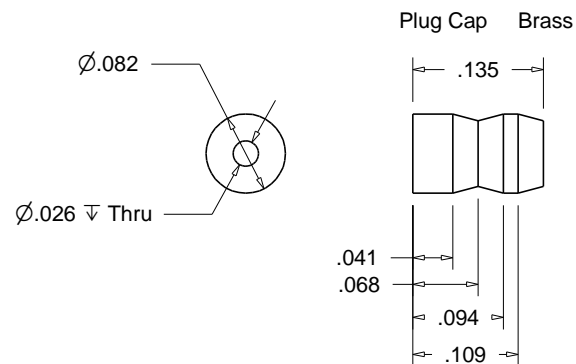
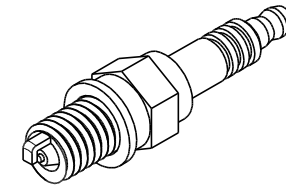
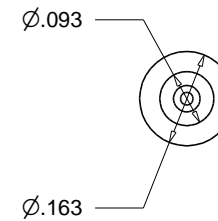
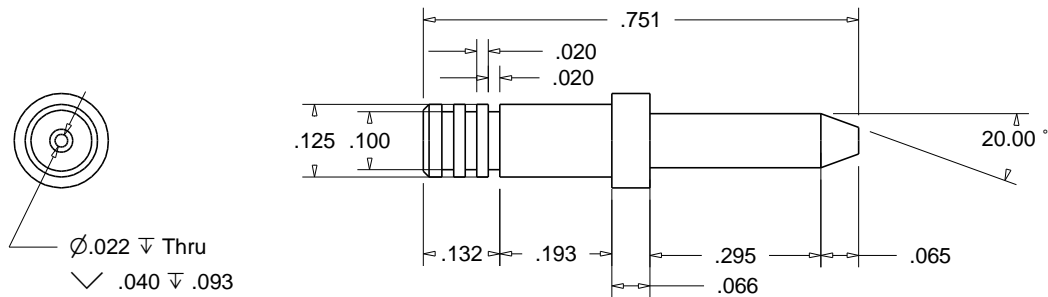
Spark Plugs



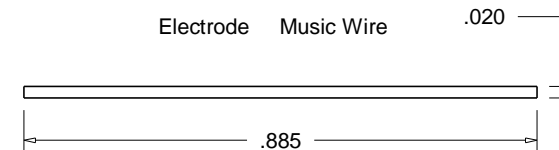
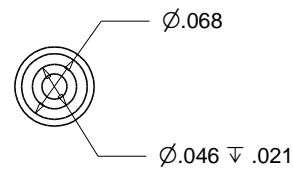
Plug Body 12L14 Steel



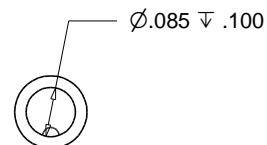
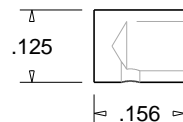
Insulator White Corian



Plug Cap Brass



Plug Boot Cap



Demon V8

Designed By : Steve Huck	Page 51 Of 68
Pieces Required : 8	Rev : 1.02
Material :	

Spark Plug Assembly

Solder cap onto wire before
inserting into insulator

Solder wire to side of boot cap
and insert into sparkplug boot.

Use super glue gel
Install electrode with
twisting motion

.124

Use Loc-tite for assembly

.010

Fold edge over onto corian
using press tool

Insert plug into base, Put sleeve
over base, insert slug as shown
and press until base rolls over
corian securing insulator.

Install with brass washer

.240

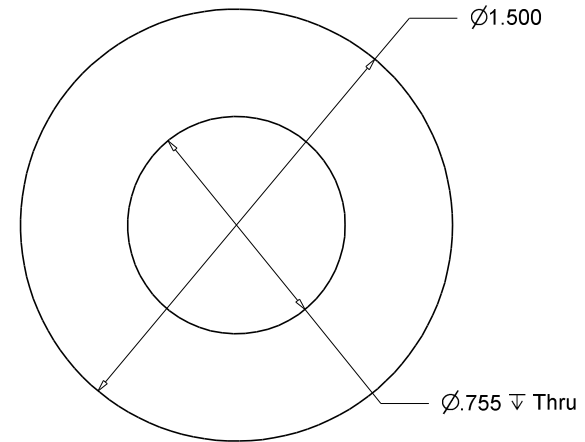
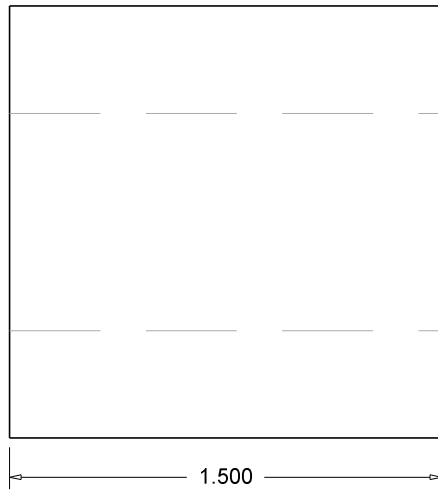
.025

Demon V8

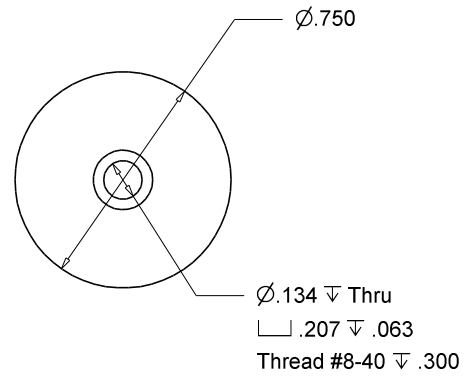
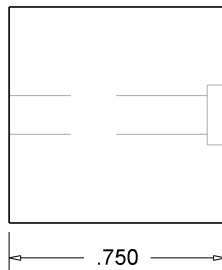
Designed By : Steve Huck	Page 52 Of 68
Pieces Required : 8	Rev : 1.01
Material :	

Sparkplug Press

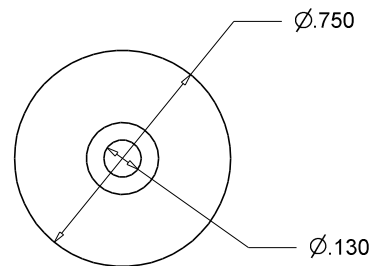
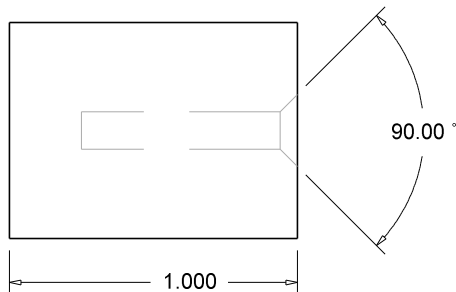
Sleeve



Base



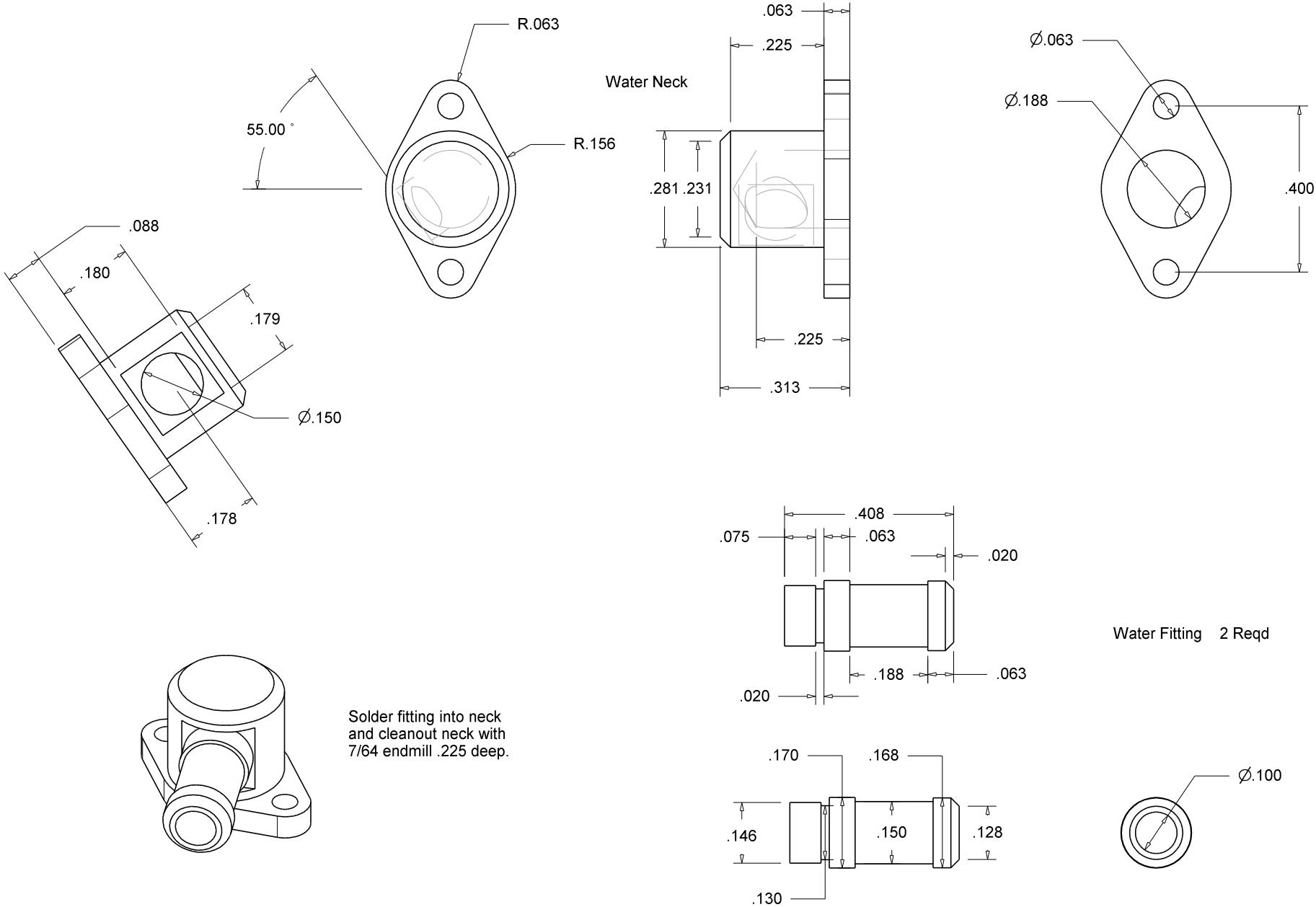
Slug



Demon V8

Designed By : Steve Huck	Page 53 Of 68
Pieces Required : 1	Rev : 1.00
Material : Steel	

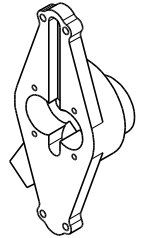
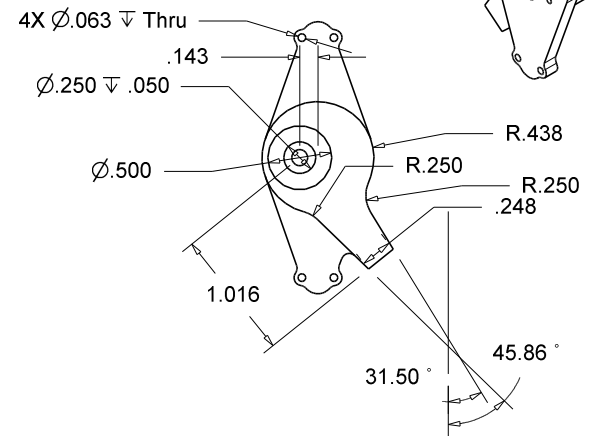
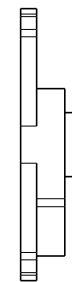
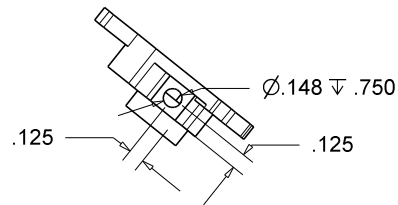
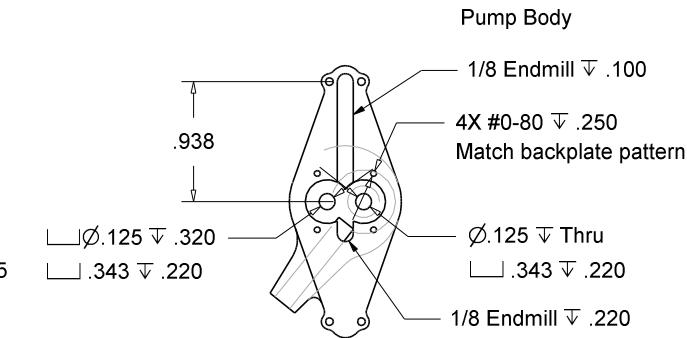
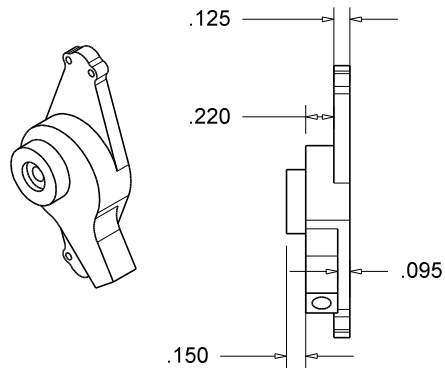
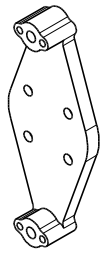
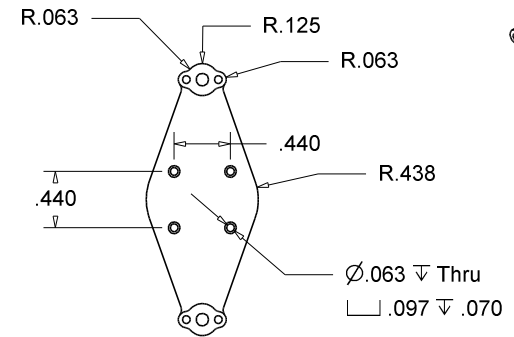
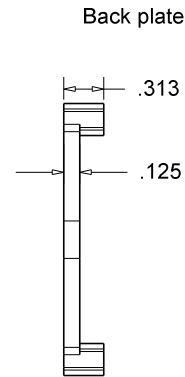
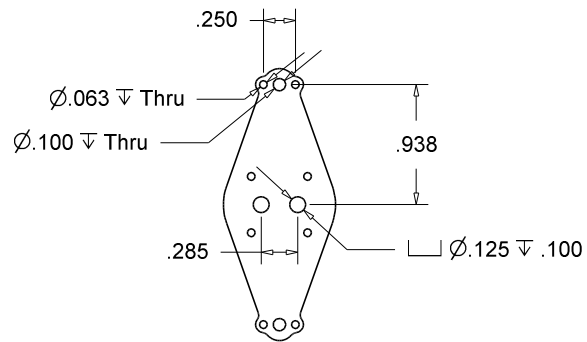
Water Neck



Demon V8

Designed By : Steve Huck	Page 54 Of 68
Pieces Required : 1	Rev : 1.00
Material : Brass	

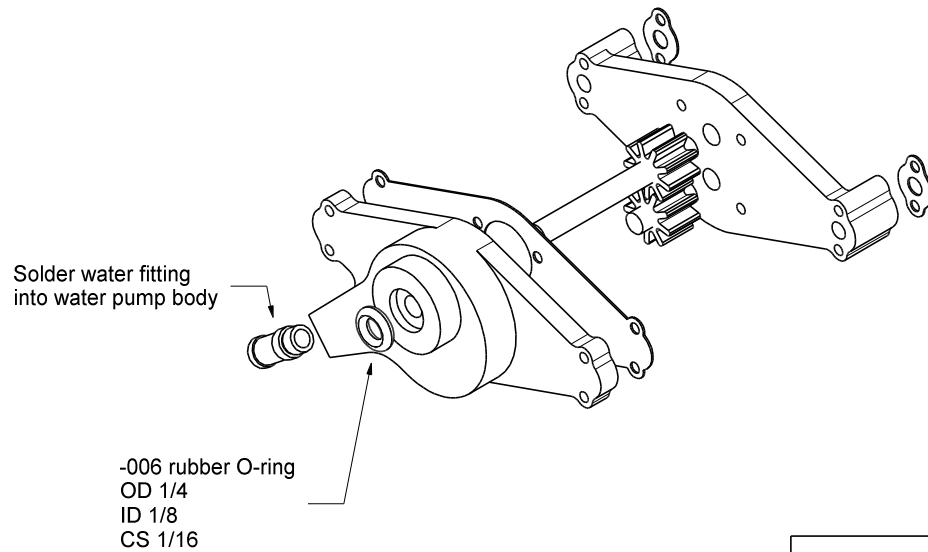
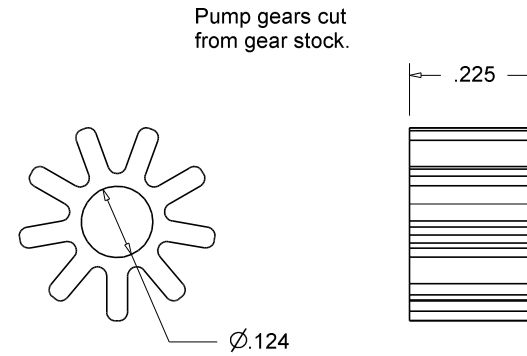
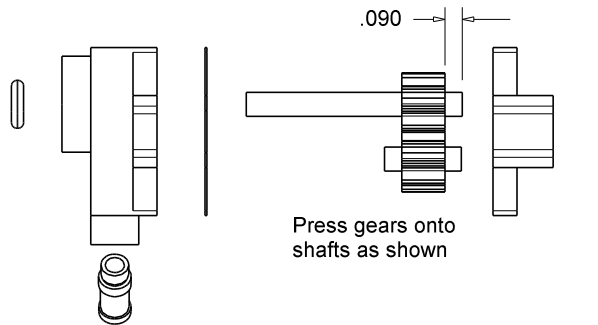
Water Pump



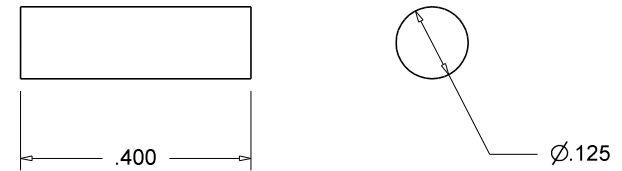
Demon V8

Designed By : Steve Huck	Page 55 Of 68
Pieces Required : 1	Rev : 1.00
Material : Brass	

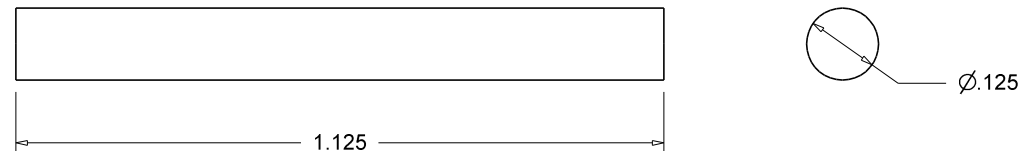
Water Pump



Idler shaft 1/8 Drill Rod



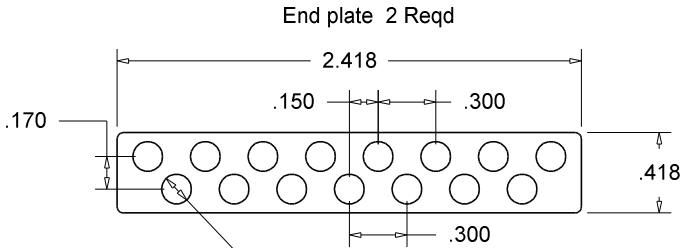
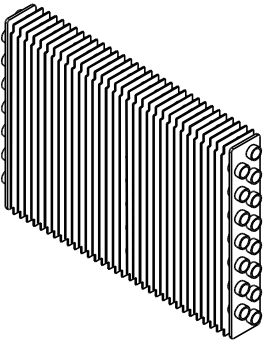
Drive shaft 1/8 Drill Rod



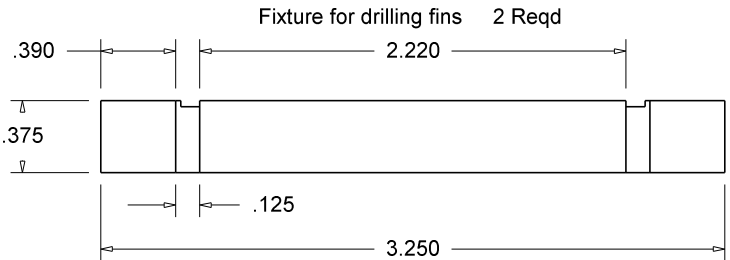
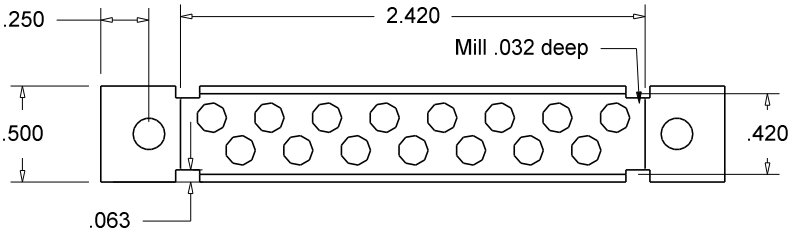
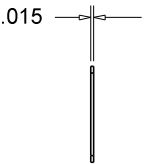
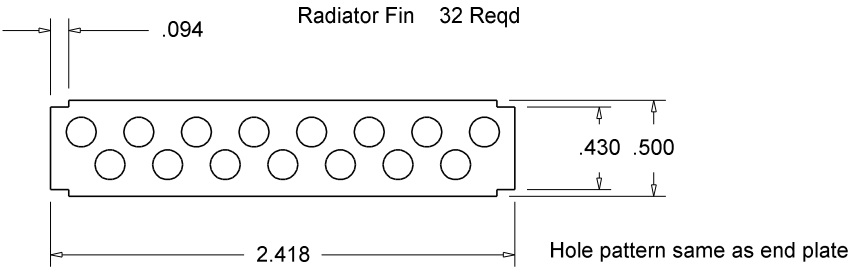
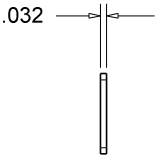
Demon V8

Designed By : Steve Huck	Page 56 Of 68
Pieces Required : 1	Rev : 1.00
Material :	

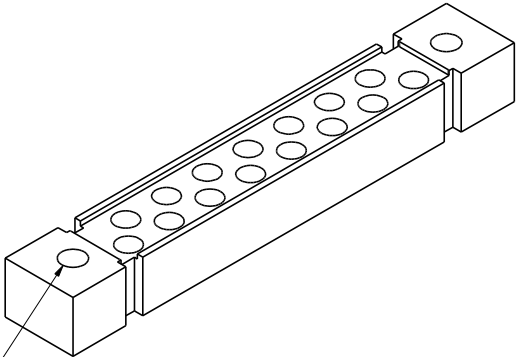
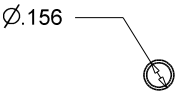
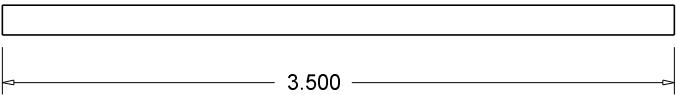
Radiator Core



Ø.156
Make hole .003 larger
than tubing OD.



Brass tubing .014 wall thickness 15 Reqd



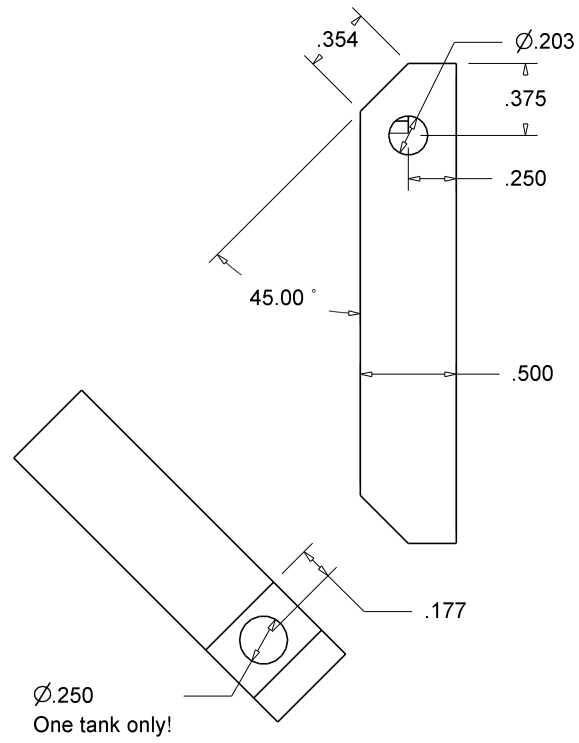
One piece drilled and tapped 8-32
One piece drilled for #8 clearance.

Demon V8

Designed By : Steve Huck	Page 57 Of 68
Pieces Required : 1	Rev : 1.00
Material : Brass	

Radiator Tanks

Radiator Tanks 2Pcs Req'd



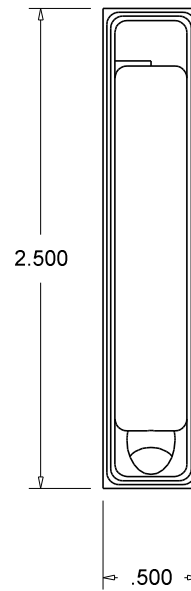
There are 4 pockets milled with a 1/8 inch endmill, centered on part.

.460 X 2.460 ∇ .015

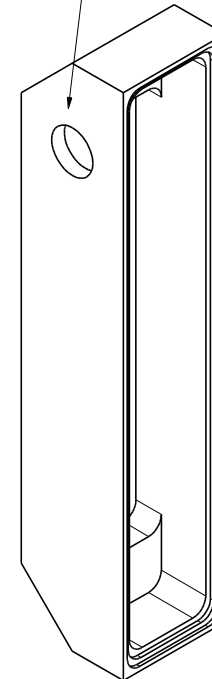
.420 X 2.420 ∇ .032

.375 X 2.375 ∇ .250

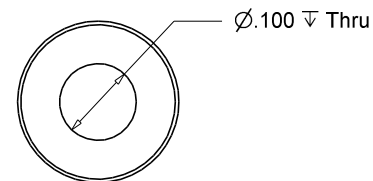
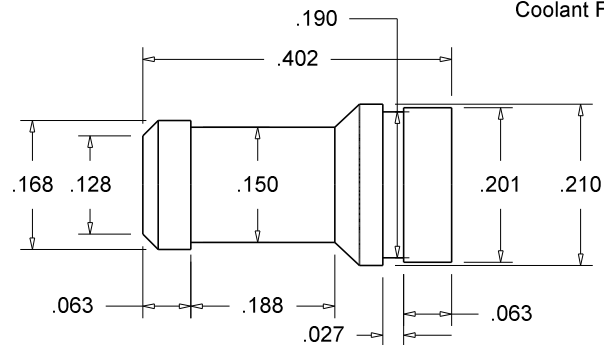
.375 X 1.900 ∇ .375



Drill hole before milling internal pockets to avoid bit drift.



Coolant Fitting 2Pcs Req'd

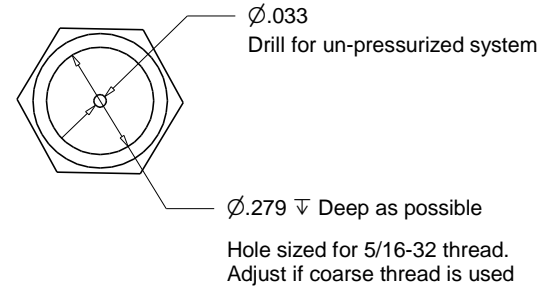
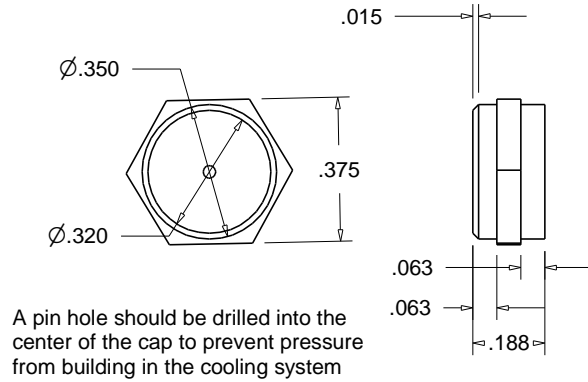


Demon V8

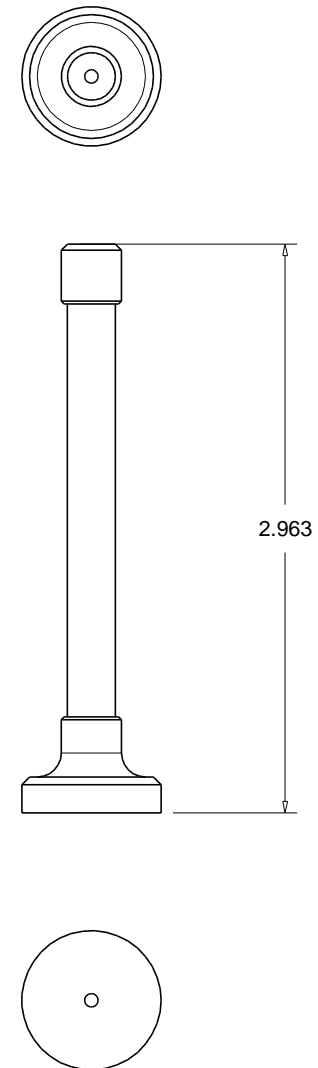
Designed By : Steve Huck	Page 58 Of 68
Pieces Required : 2	Rev : 1.01
Material : Brass	

Radiator Parts

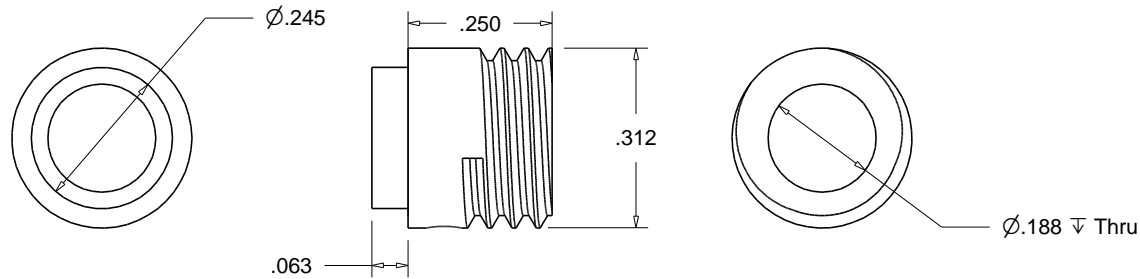
Radiator Cap



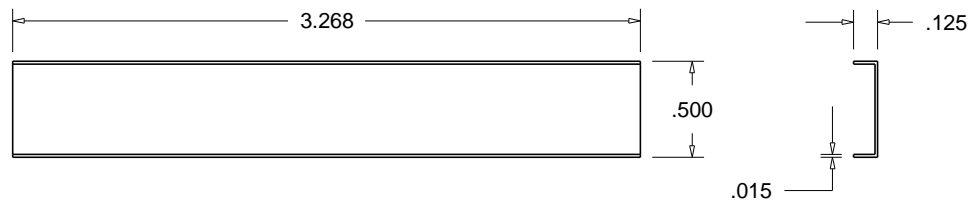
Mount Posts



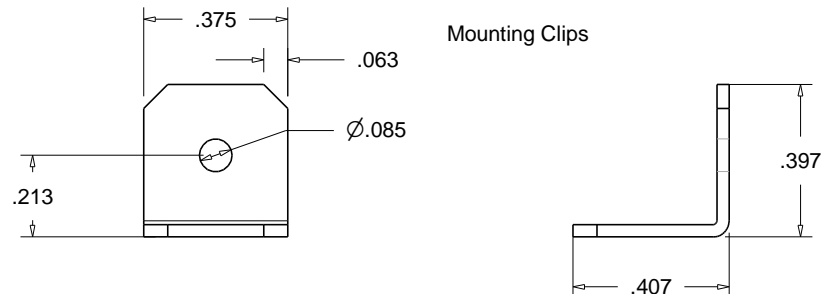
Filler Neck



Top & Bottom Rails



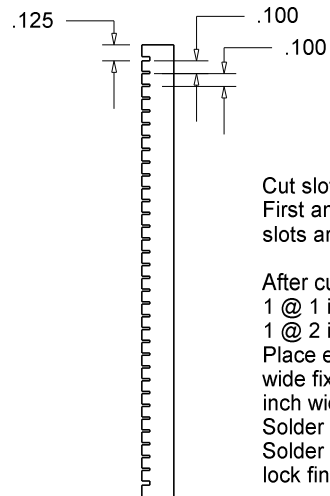
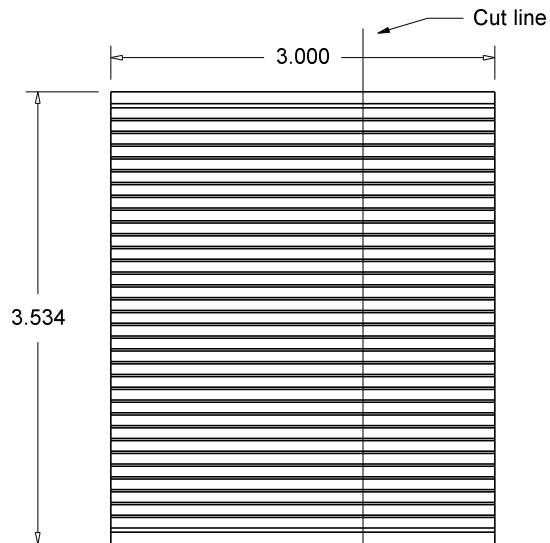
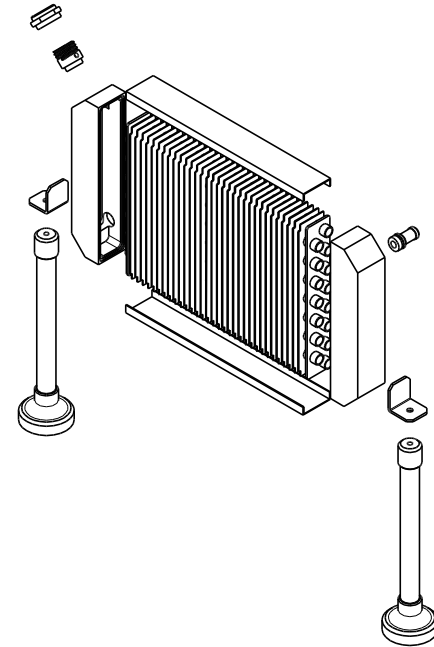
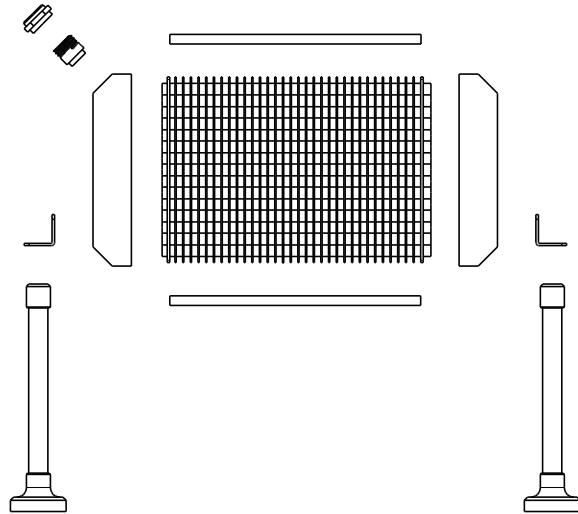
Mounting Clips



Demon V8

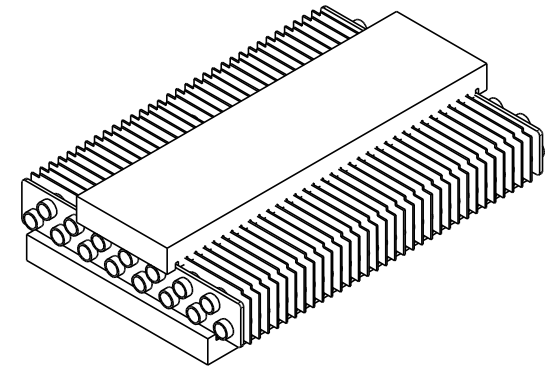
Designed By : Steve Huck	Page 59 Of 68
Pieces Required : 1	Rev : 1.04
Material :	

Radiator Assembly



Cut slots .0625 deep and .100 on center. First and last slot are .032 wide. All other slots are .016 wide.

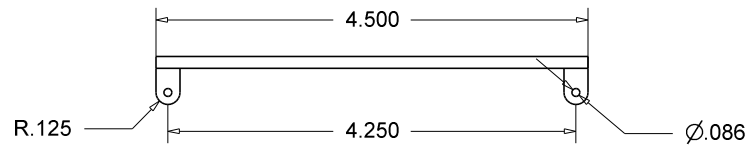
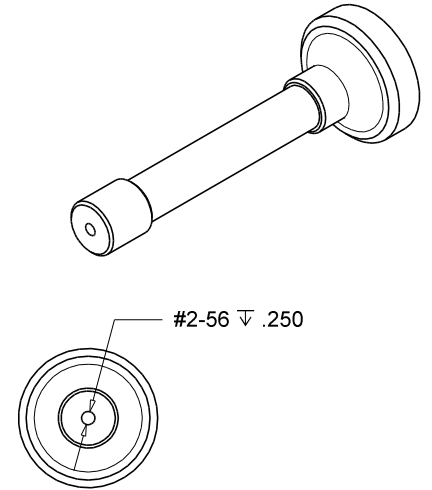
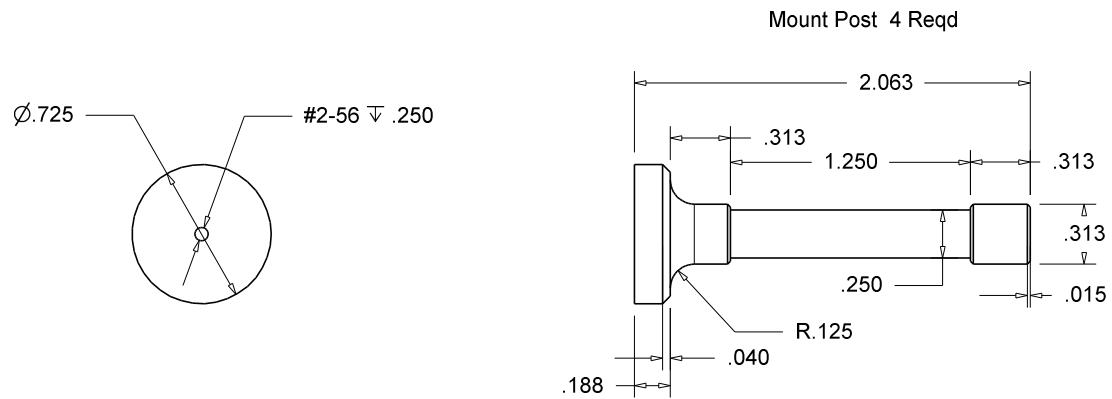
After cutting slots, cut into 2 pieces
 1 @ 1 inch wide
 1 @ 2 inch wide
 Place end plates and fins into 2 inch wide fixture, slide tubes into fins. Place 1 inch wide piece on top of fins to hold spacing. Solder all tubes to end plates on both sides. Solder all fins to top and bottom tube to lock fins into place.



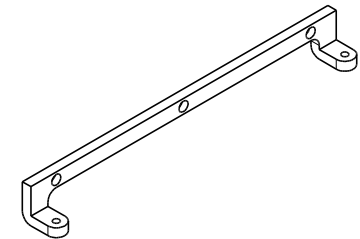
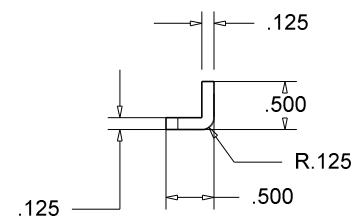
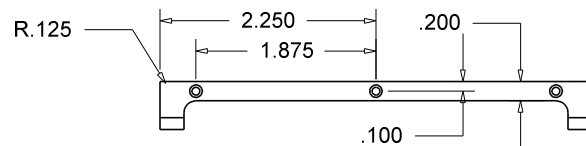
Demon V8

Designed By : Steve Huck	Page 60 Of 68
Pieces Required : 1	Rev : 1.01
Material :	

Motor Mount



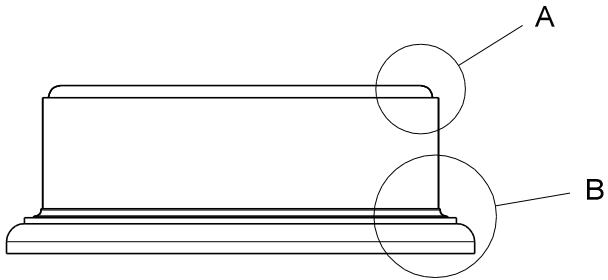
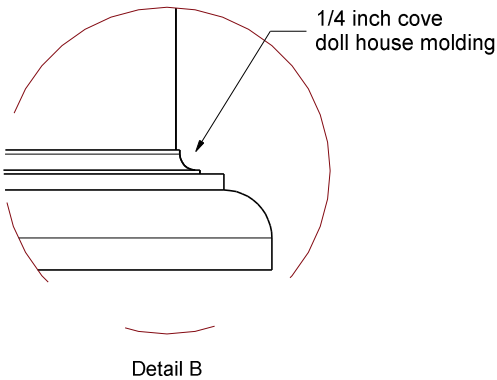
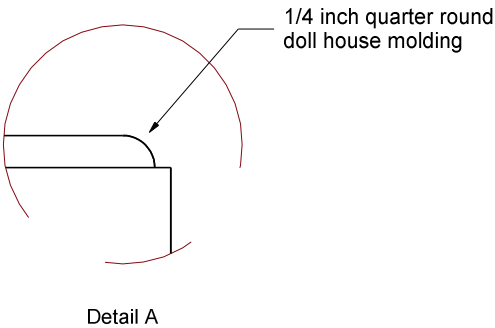
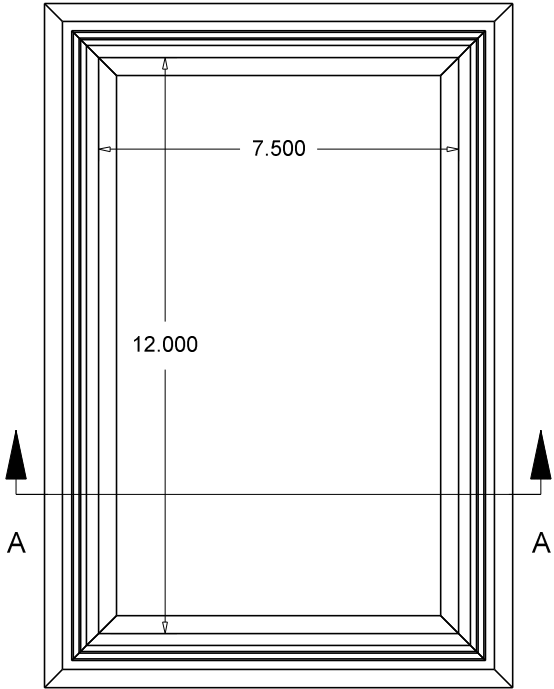
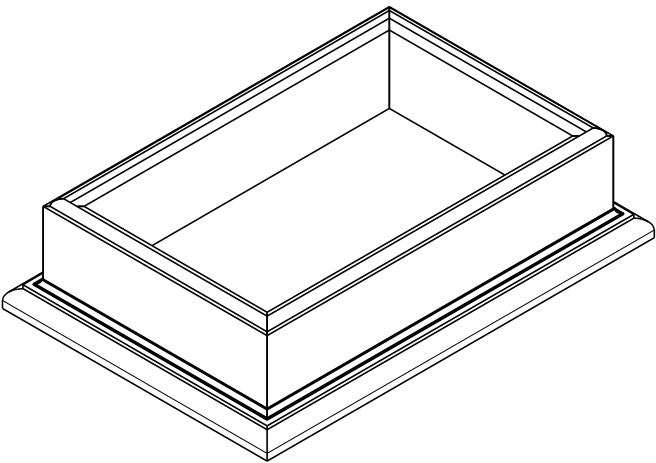
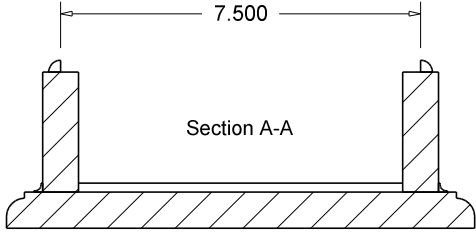
Mounting Rail 2 Reqd



Demon V8

Designed By : Steve Huck	Page 61 Of 68
Pieces Required : 1	Rev : 1.00
Material : Aluminum	

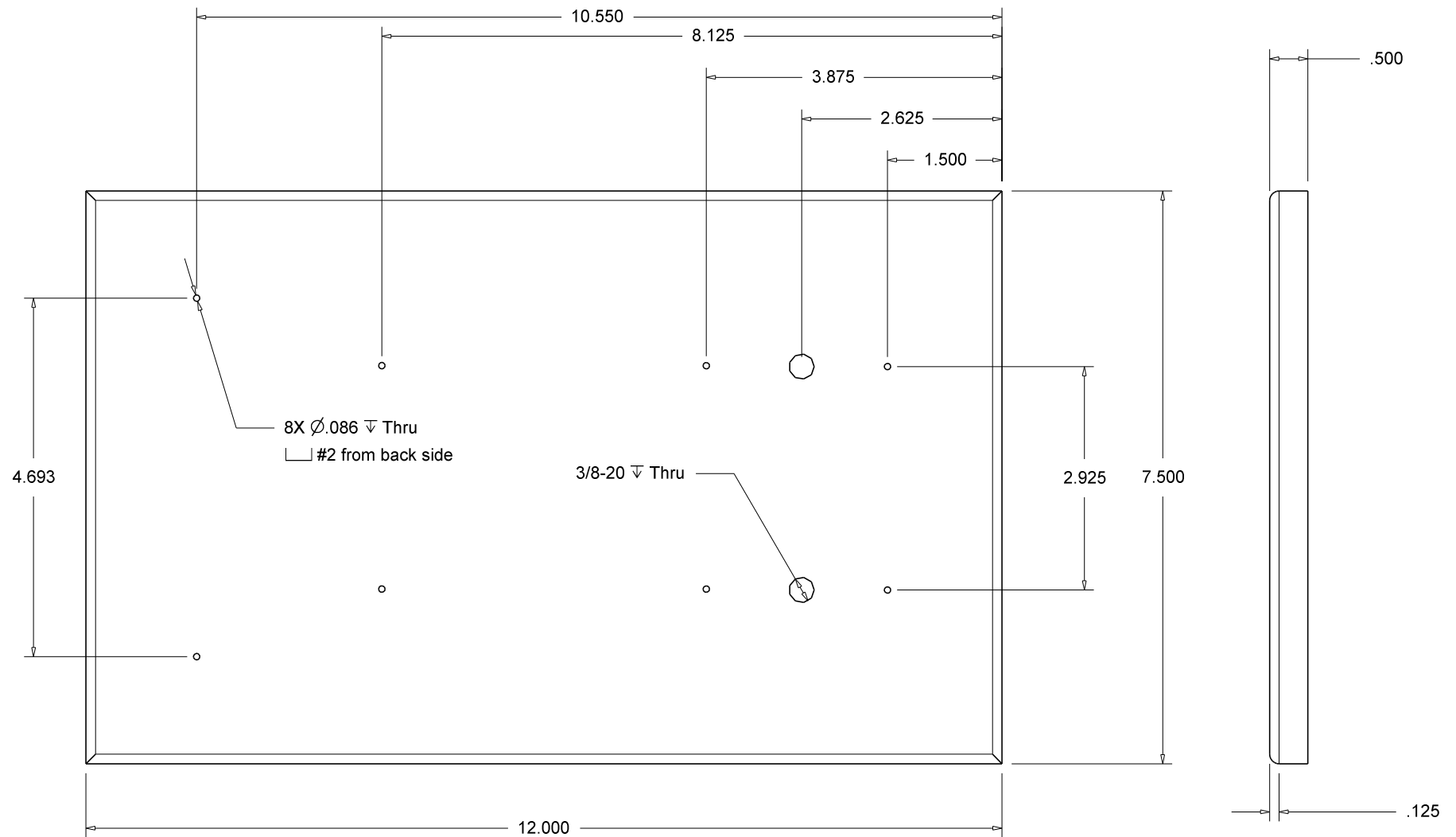
Display Box



Demon V8

Designed By : Steve Huck	Page 62 Of 68
Pieces Required : 1	Rev : 1.00
Material : Red Oak	

Display Base

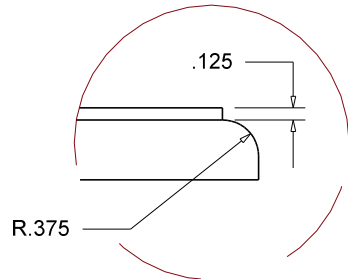
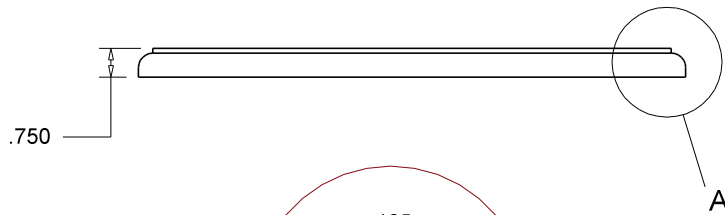
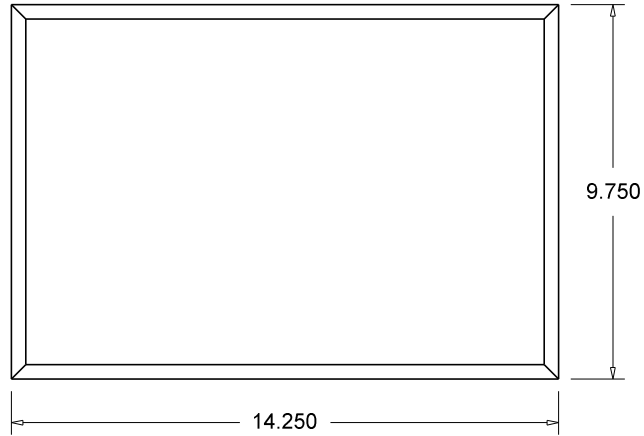


Demon V8

Designed By : Steve Huck	Page 63 Of 68
Pieces Required : 1	Rev : 1.00
Material : Corian	

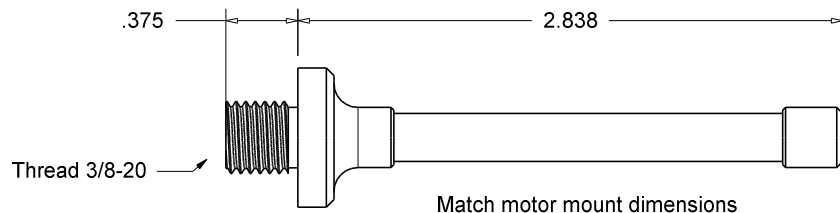
Display Base Parts

Base Board 2 Reqd

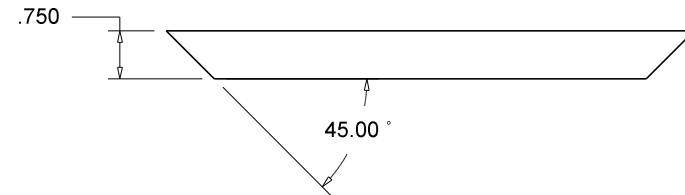
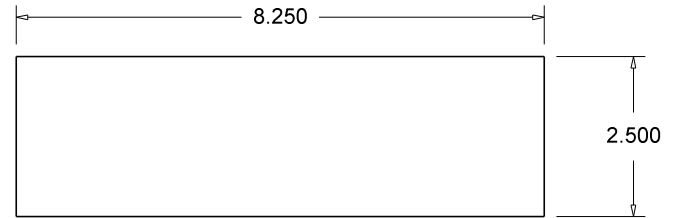


Detail A

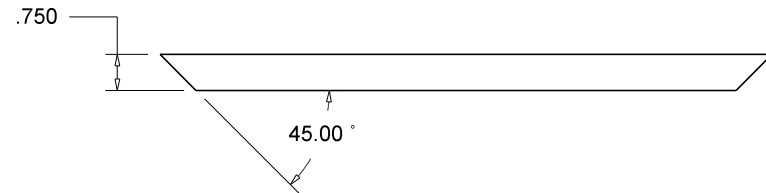
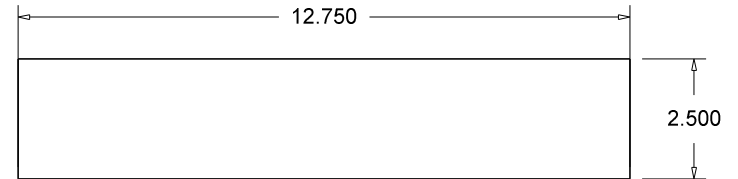
Wiring Tubes Aluminum 2 Reqd



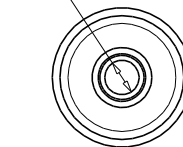
Short Side Board 4 Reqd



Long Side Board 4 Reqd



Ø.180 Thru

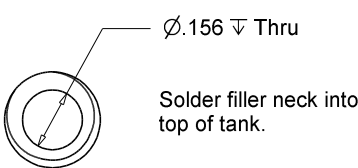
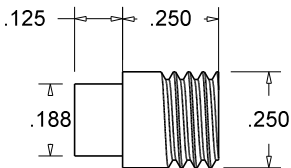
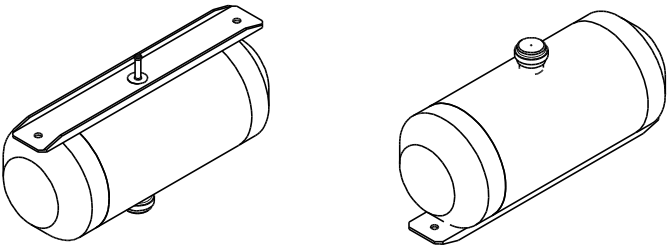
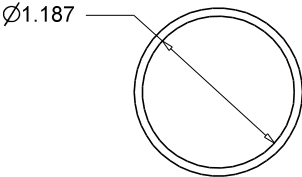
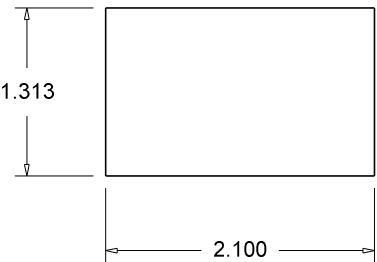


Demon V8

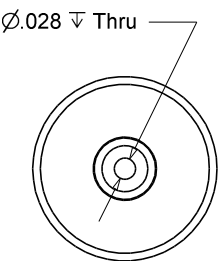
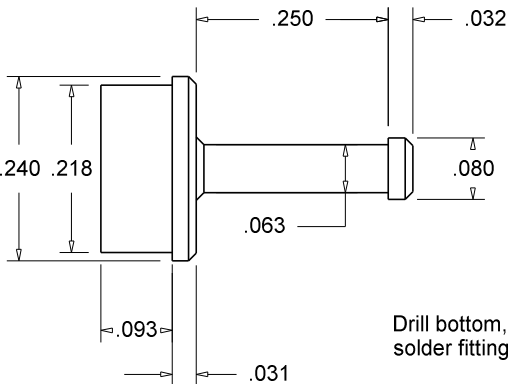
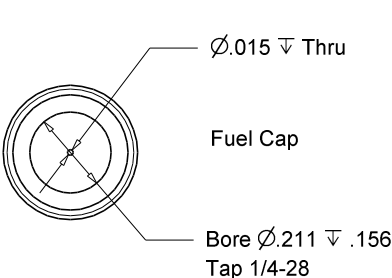
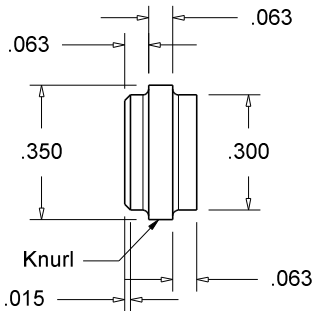
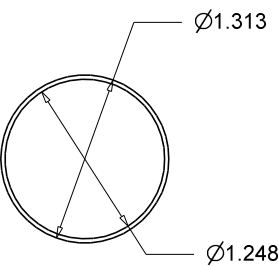
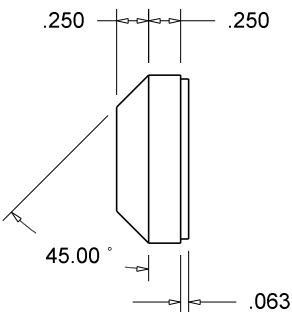
Designed By : Steve Huck	Page 64 Of 68
Pieces Required : 2	Rev : 1.00
Material : Red Oak	

Fuel Tank

Brass tubing

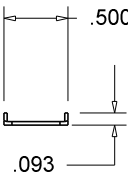
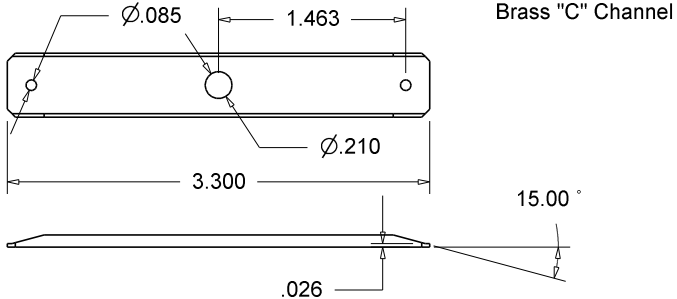


End Cap 2 Reqd



Drill bottom, center of tank and solder fitting into tank.

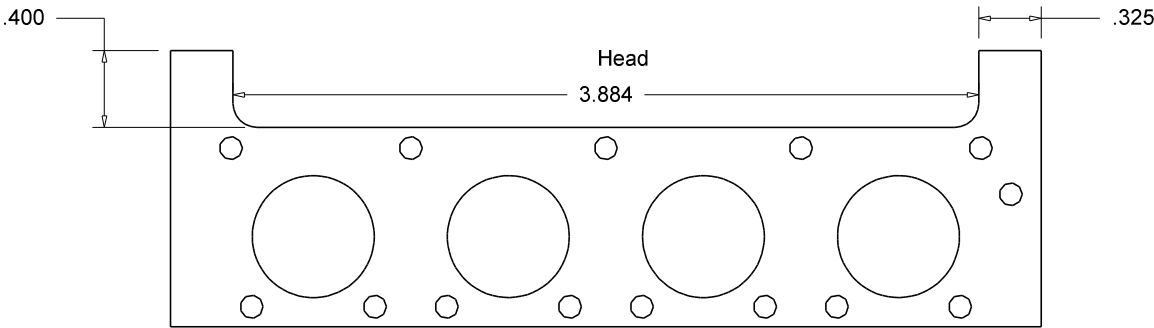
Mount post dimensions are given on page 59 under radiator mount post.



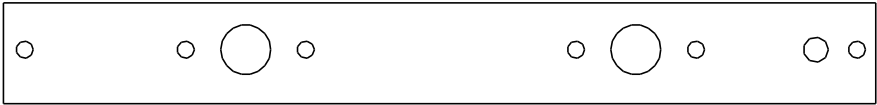
Demon V8

Designed By : Steve Huck	Page 65 Of 68
Pieces Required : 1	Rev : 1.01
Material : Brass	

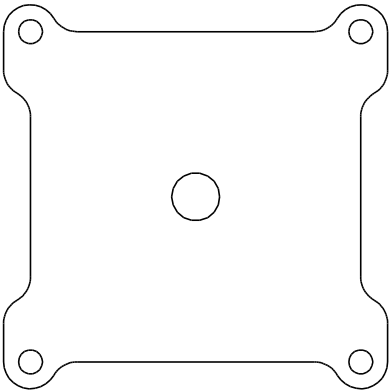
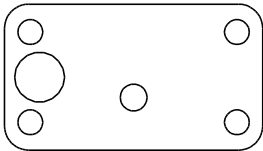
Gaskets



Intake Manifold



Carburetor



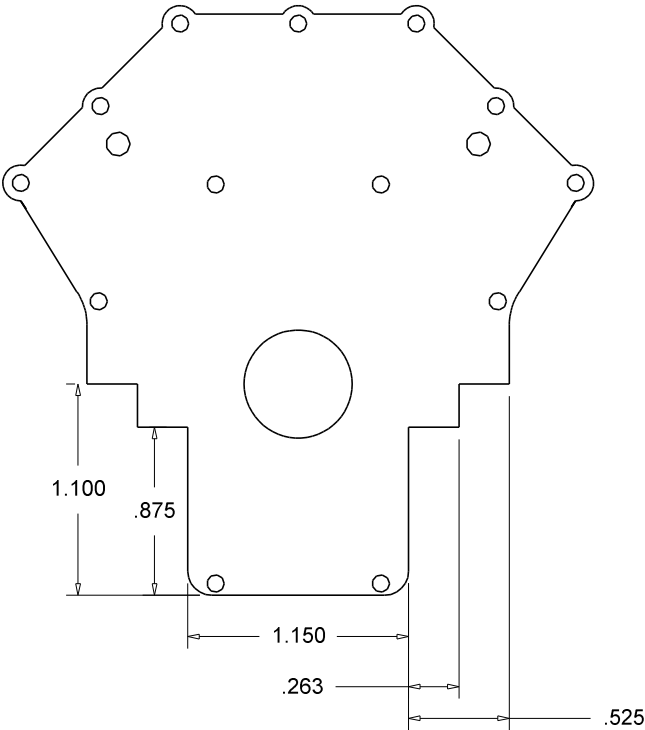
All Gaskets are teflon sheet .010 thick except head gasket which is .020 thick.
All dimensions match there mating part.

Demon V8

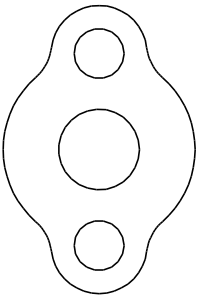
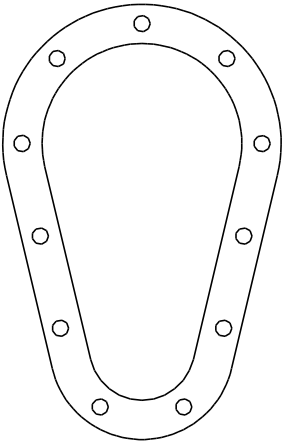
Designed By : Steve Huck	Page 66 Of 68	
Pieces Required : 1		Rev : 1.00
Material : Teflon Sheet		

Gaskets 2

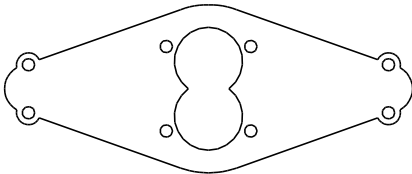
Bell Housing Adapter



Timing Cover



Water Pump



All Gaskets are teflon sheet .010 thick.
All dimensions match there mating part.

Demon V8

Designed By : Steve Huck	Page 67 Of 68
Pieces Required : 1	Rev : 1.00
Material : Teflon Sheet	

Demon Notes

Cam gear: (1)	SDP-SI	S1064Z-048S048	Spur, Number of Teeth 48, Bore 3/16, OD 1.041, Stainless Steel, PD 1.000, Face 1/8, Pitch 48, Hub Diameter 3/8, Pressure Angle 20
Crank Gear: (1)	SDP-SI	S1064Z-048S024	Spur, Number of Teeth 24, Bore 3/16, OD .541, Stainless Steel, PD .500, Face 1/8, Pitch 48, Hub Diameter 3/8, Pressure Angle 20
Idler Gear: (1 or 2)	SDP-SI	S1064Z-048S020	Spur, Number of Teeth 20, Bore 3/16, OD .458, Stainless Steel, PD .4166, Face 1/8, Pitch 48, Hub Diameter .340, Pressure Angle 20
Water Pump Gear: (1 Foot)	SDP-SI	A 1B 9-Y32009	Brass, Number of teeth 9, PD .2812, OD .344, Pitch 32
Distributor Gear: (1 pair)	Berg	M96P-1S	Miter, Bore 1/8, Stainless Steel, PD .375/.375, Hub Diameter 5/16, Pitch 96, Pressure Angle 20, Teeth 36, Face Width 3/32
Crankshaft Seal: (2)	Berg	LMG-R-1	Rubber, OD .504, Shaft Size .250, Height .125
Valve Springs: (16)	Grainger	1NBY4	Carbon Steel, OD .180, Free Length .500, Wire Diameter .018, Number of Coils 8
Cam Bearings: (2)	VXB	Stainless Steel, OD .625, Width .196, ID .25	
Crankshaft Bearings: (3)	VXB	Stainless Steel, OD .500, Width .125, ID .25	
Clutch Bearing: (1)	VXB	Steel, OD .437, ID .250, length .500	
Distributor Bearing: (2)	VXB	Stainless Steel, Flanged, ID .125, OD .250, Width, .125	
Fan Belt (1)	Hardware	1/16 X 1-3/8 OD or 1-1/4 ID Rubber O-Ring	

Fasteners By Part

Air Filter Nut	1	#2-56 X .375			Anything (head gets removed)
Air Filter Pan	2	#0-80 X .250			Socket Head Cap
Balancer	2	#6-32 X .375			Set Screw
Bell Housing	6	#2-56 X .375	2	#2-56 X .250	Socket Head Cap
Bell Housing Adapter	7	#2-56 X .250			Socket Head Cap
Camshaft	2	#2-56 X .125			Set Screws
Cam Gear	2	#2-56 X .125			Set Screws
Carb Adjust Screws	2	#2-56 X .500			Socket Head Cap
Carb Body	4	#0-80 X .250			Socket Head Cap
Carb Bowls	7	#0-80 X .500	1	#0-80 X 1.000	Socket Head Cap
Carb Lever	1	#0-80 X .250			Socket Head Cap
Crankshaft	6	#4-40 X .750	6	#4-40 X .625	Socket Head Cap
Connecting Rods	16	#2-56 X .375			Socket Head Cap
Distributor Cap	2	#0-80 X .250			Socket Head Cap
Distributor Rotor	1	#2-56 X .125			Set Screw
Fan	4	#0-80 X .250			Socket Head Cap
Fan Pulley	1	#2-56 X .125			Set Screw
Fly Wheel	1	#10-32			Nylock Nut
Fuel Tank	4	#2-56 X .250			Socket Head Cap
Heads	16	#4-40 X .500	10	#4-40 X .750	Socket Head Cap
Headers	16	#2-56 X .250			Socket Head Cap
Idle Mount	2	#2-56 X .250			Socket Head Cap
Intake Manifold	12	#2-56 X .250			Socket Head Cap
Motor Mounts	14	#2-56 X .250			Socket Head Cap
Oil Pan	20	#2-56 X .250			Socket Head Cap
Radiator	4	#2-56 X .250			Socket Head Cap
Rocker Arms	16	#2-56 X .0625			Socket Head Cap
Rocker Nut	16	#4-40 X .1875			Set Screw
Timing Cover	11	#2-56 X .1875			Socket Head Cap
Timing Pointer	2	#2-56 X .375	(If used)		Button Head
Valve Covers	14	#0-80 X .250			Socket Head Cap
Water Neck	2	#0-80 X .250			Socket Head Cap
Water Pump Body	4	#0-80 X .1875			Socket Head Cap
Water Pump Plate	4	#0-80 X .625			Socket Head Cap