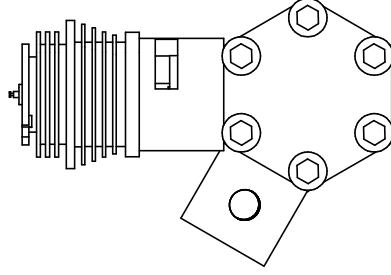
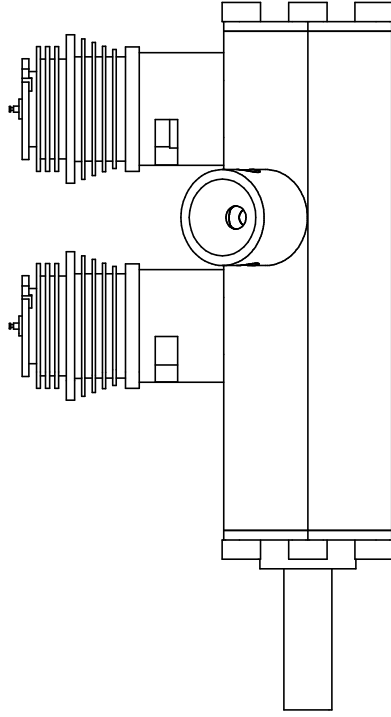
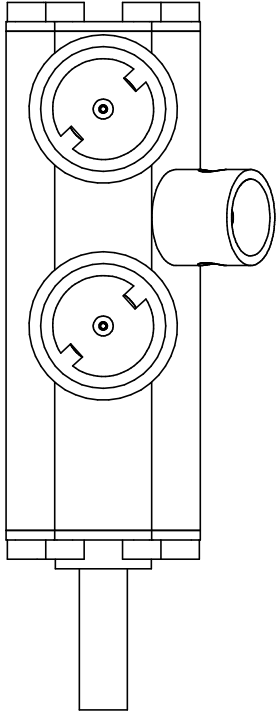
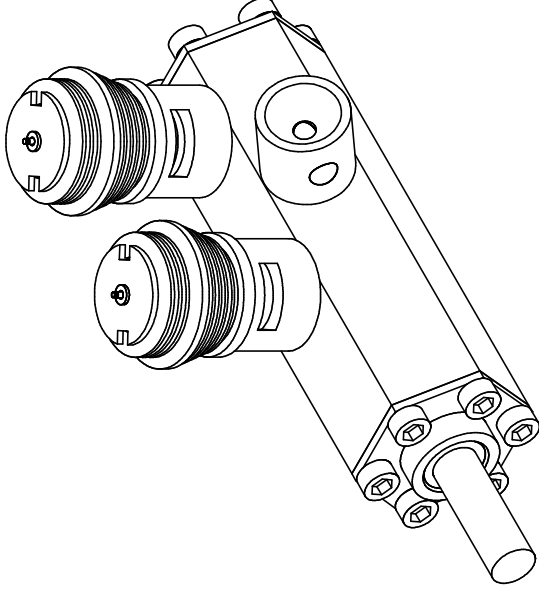


# James Engine HEX-2

ZONE

REV

15 Jul 06



SIZE

A

Title

HEX-2

REV

SCALE

1:1

SHEET

SHEET 1 of 6

# James Engine HEX-2

ZONE

REV

15 Jul 06

Item Number	Quantity	Part Number	Part Name	Revision	Comment
1	2		Crankshaft Pin		3/32" by 5/8" Dowel Pin
2	1		Crankshaft		5/8" TGP
3	12		Hex Bolt		4/40 x 3/8"
4	1		Front Plate		7/8" Aluminum HEX Rod
5	1		Back Plate		7/8" Aluminum HEX Rod
6	2		Cylinder		COX(tm) .049
7	1		Crankshaft Holding Tool		7/8" Aluminum HEX Rod
8	1		Venturi		1/2" Aluminum Round
9	2		Piston/Connecting Rod		COX(tm) .049
10	1		Crankshaft End		5/8" TGP
11	1		Crank Case		7/8" Aluminum HEX Rod
12	2		Glow Head		COX(tm) .049
13	1		Needle Valve		OS(tm) .010 std

SIZE

**A**

Title

BILL OF MATERIALS

REV

SCALE

1:1

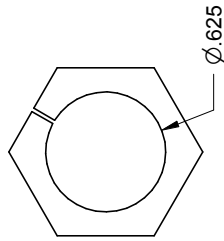
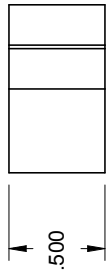
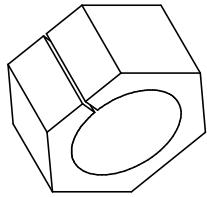
SHEET

SHEET 2 of 6

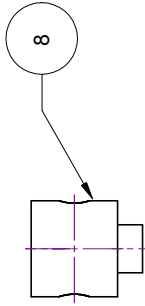
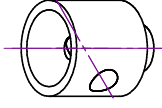
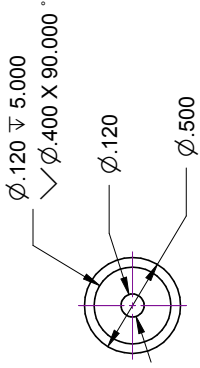
# James Engine HEX-2

ZONE REV

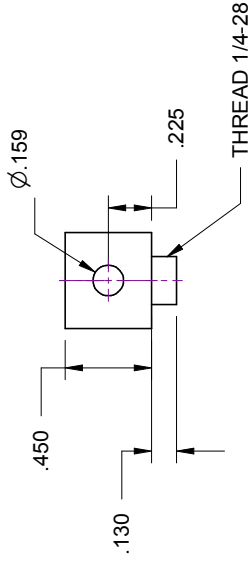
15 Jul 06



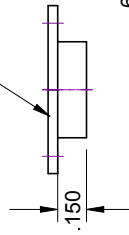
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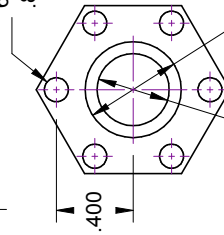
8



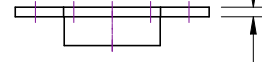
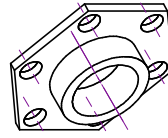
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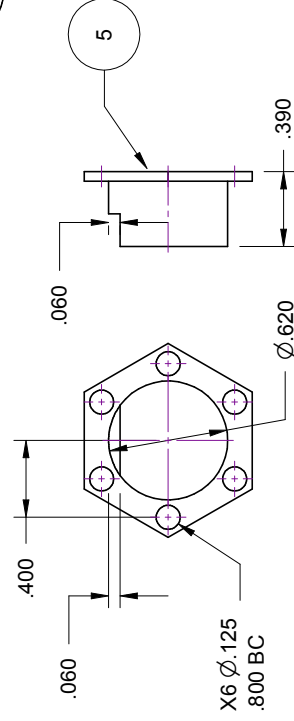
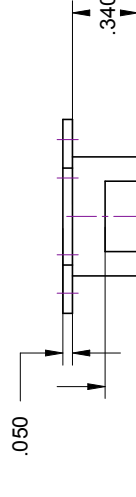
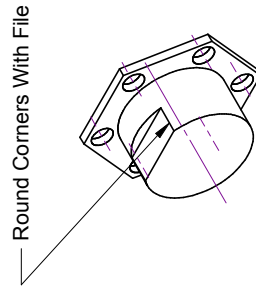
6x Ø.125  
.800 BC



Ø.500



.050



5

.390

SIZE  
**A**

Title  
FRONT AND BACK PLATE, VENTURI,  
CRANKSHAFT HOLDING TOOL

SCALE  
1:1

SHEET

SHEET 3 of 6

# James Engine HEX-2

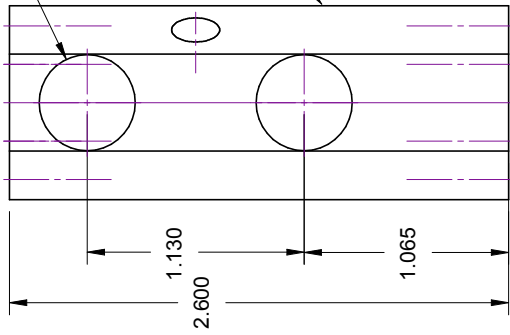
ZONE

REV

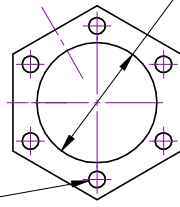
15 Juli 06

2x  $\phi .500 \sqrt{.250}$   
Thread 17/32-40 TPI

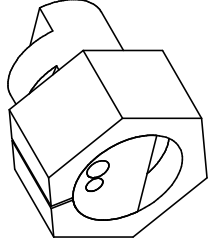
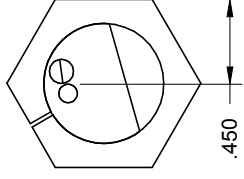
11



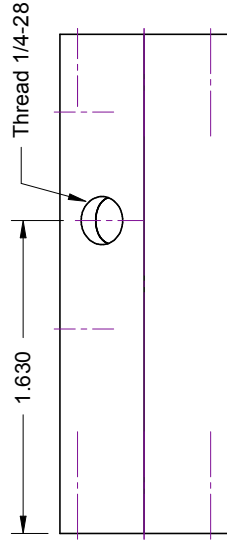
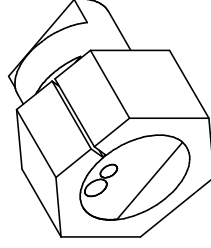
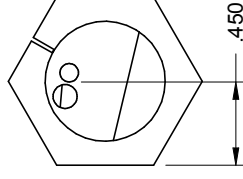
4-40 UNC  $\sqrt{.500}$   
.800 BC



Setup for milling slot for face 1 (cylinder 1).



Setup for milling slot for face 2 (cylinder 2).



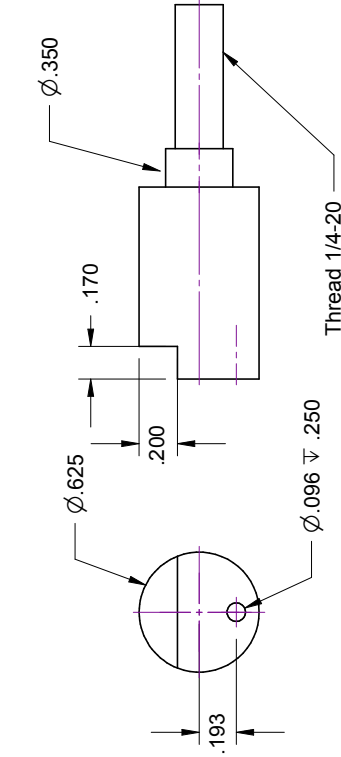
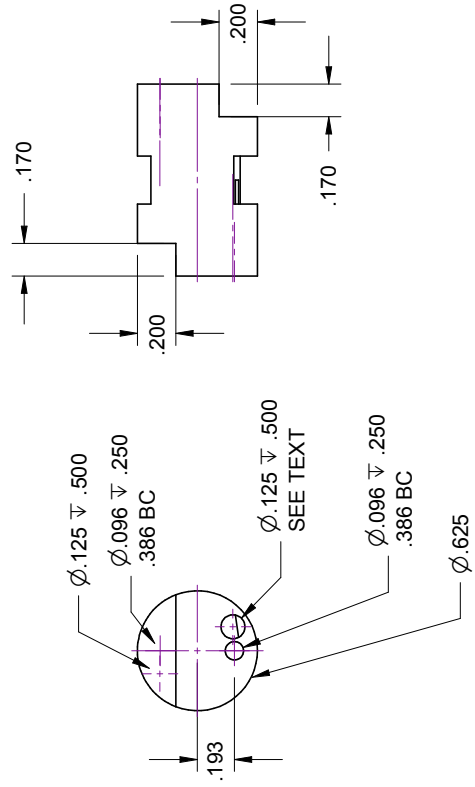
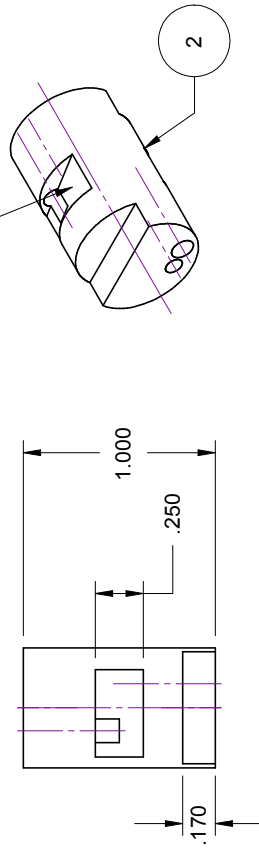
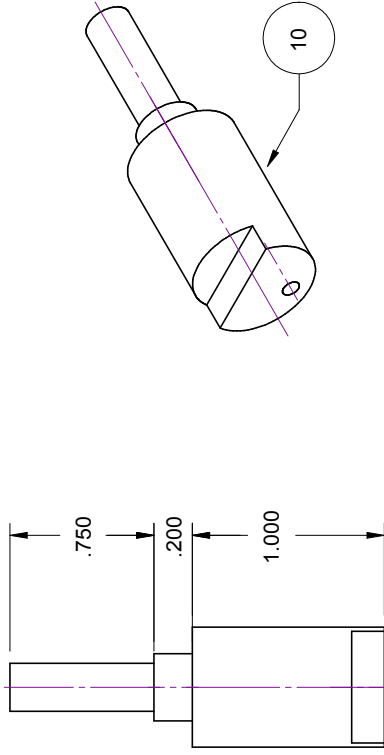
SIZE <b>A</b>	Title CRANKCASE	REV
SCALE 1:1	SHEET	SHEET 4 of 6

# James Engine HEX-2

ZONE REV

15 Jul 06

Mill .250" wide and .090" deep.  
See text for setup.



SIZE  
**A**

Title  
CRANKSHAFT AND CRANKSHAFT END

REV

SCALE  
1:1

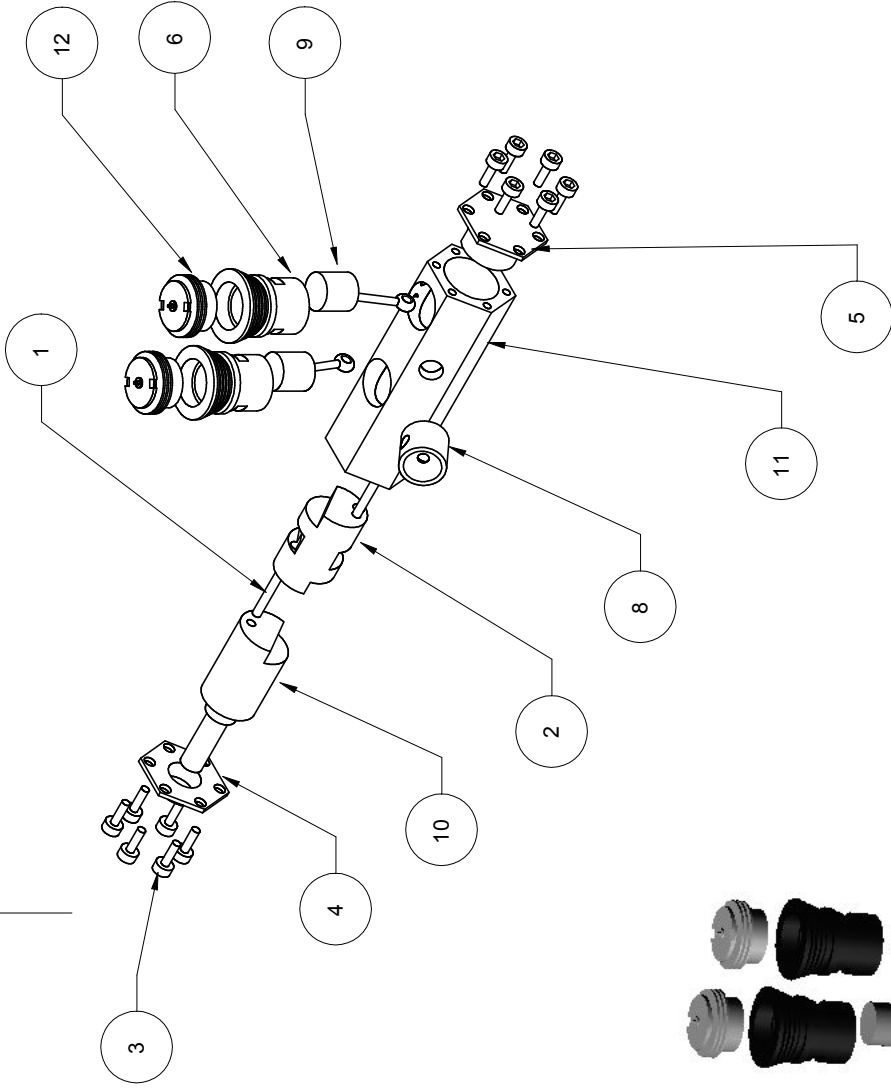
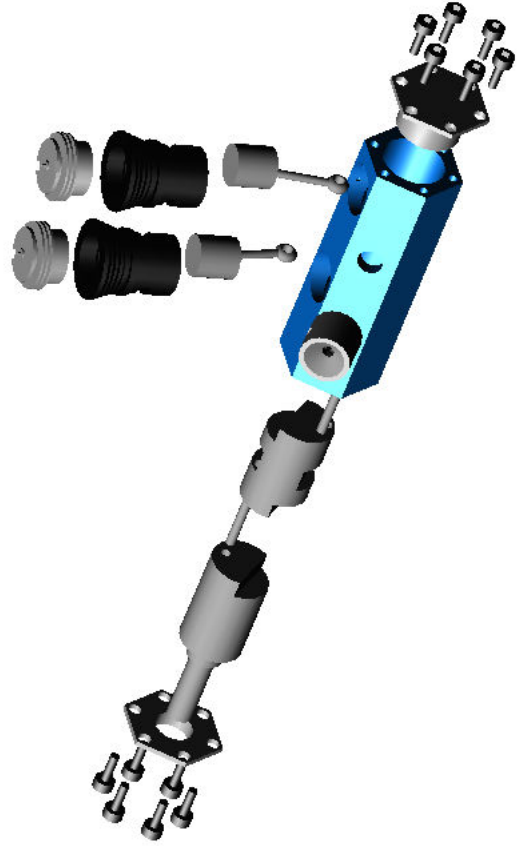
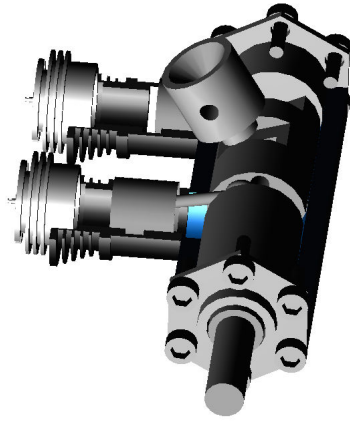
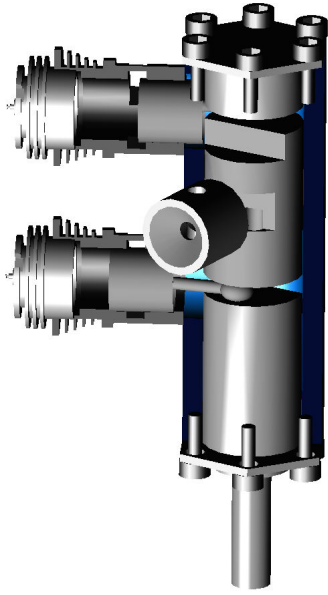
SHEET

SHEET 5 of 6

# James Engine HEX-2

15 Juli 06

ZONE REV



SIZE <b>A</b>	Title ASSEMBLY DRAWING	REV
SCALE 1:1	SHEET SHEET 6 of 6	