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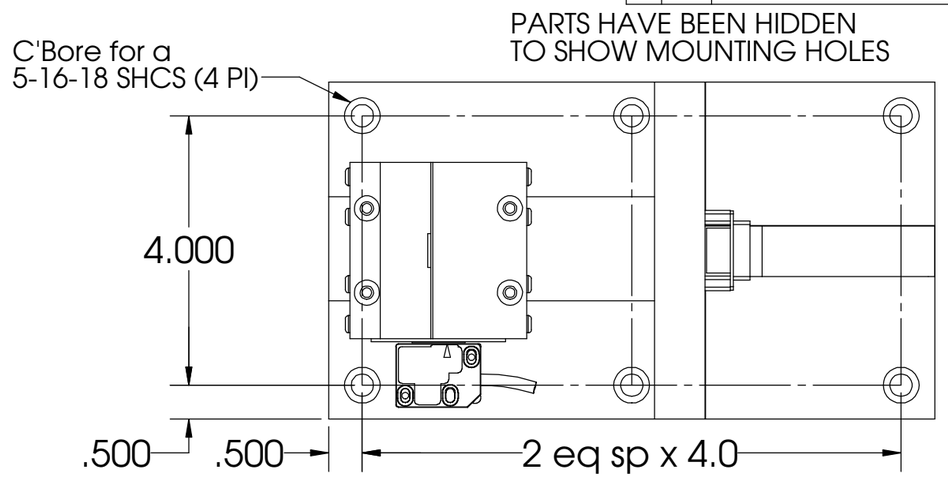
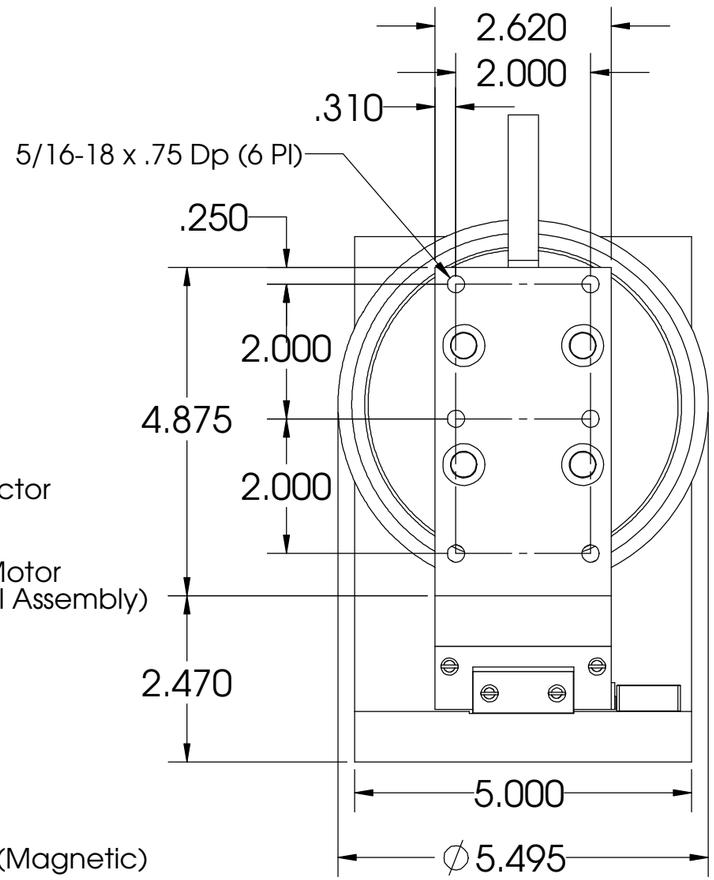
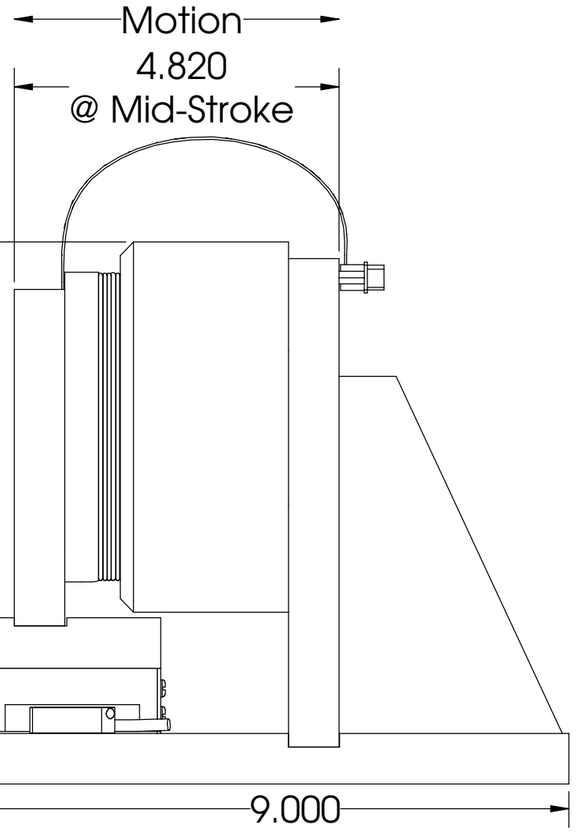
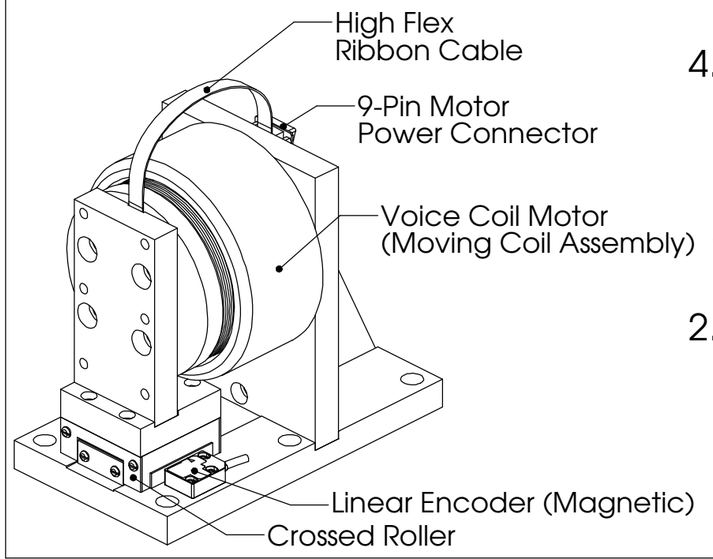
REVISION TABLE

REV	ECN#	DESCRIPTION	REV BY	APPROVED	DATE
---	---	Original Drawing	OOG	MPW	6-4-12
A	1442	Increased hard stop size	OOG	MPW	6-5-12
B	1443	Added gusset to strengthen sssembly. Removed hard stop	OOG	MPW	6-7-12









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UNLESS SPECIFIED OTHERWISE:
All dimensions are in inches
Standard Tolerances are as follows
.XXX ±.005 ANGLES ±1°
.XX ±.010 FILLETS AND
.X ±.020 CORNERS .010
Remove All Burrs and Sharp Edges

MATERIAL
FINISH

DRAWN	DATE	APPROVED	DATE
OOG	6-4-12	MPW	6-4-12

TITLE
Voice Coil Positioning Stage
Model #VCS06-500-CR-01-MC

DWG #	REV	SHEET
31-0353	**B**	1 of 2

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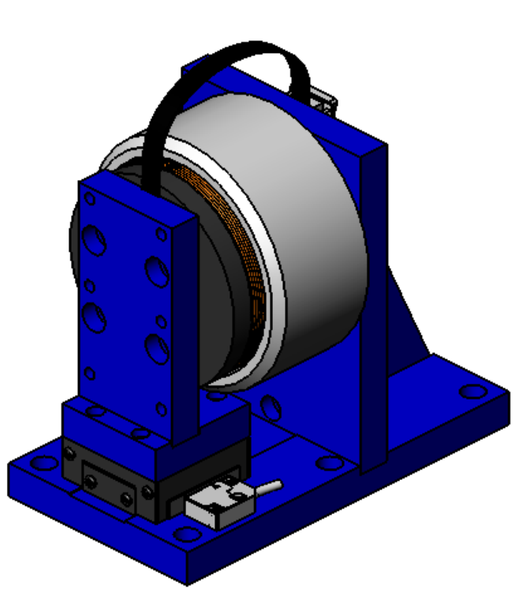
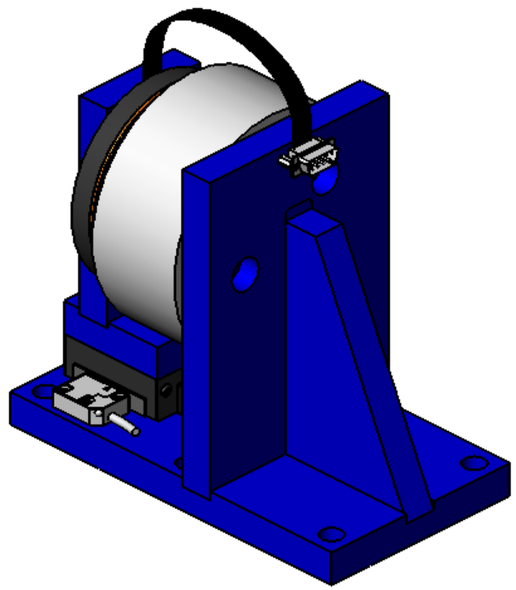
VOICE COIL POSITIONING STAGE SPECIFICATIONS		
Motor P/N	NCC06-60-500-1X	
Stroke	0.64"	16.3 mm
Encoder Resolution	1 micron	
Bearing Type	Crossed Roller	
Moving Mass	3.0 lbs	1.4 Kg
Total Mass	25 lbs	11.4 Kg
Resistance @ 20C	6.5 ohms	
Inductance @ 20C	4.6 mH	
Electrical Time Constant	0.71 msec	
Motor Constant	5.50 LBS/SQRT(Watt)	24.5 N/SQRT(Watt)
Force Constant	14.0 LBS/Amp	62.3 N/Amp
Back EMF	1.6 V/ips	62.3 V/m/sec
Continuous Force	50 LBS	227 N
Max Power @ 100% Duty	83 Watts	
Peak Force	150 LBS	681 N
Max Power @ 10% Duty	744 Watts	





TITLE
Voice Coil Positioning Stage
Model #VCS06-500-CR-01-MC

DWG #	REV	SHEET
31-0353	B	2 of 2