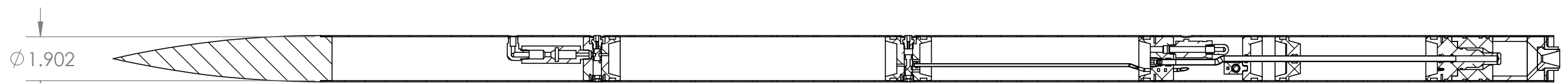
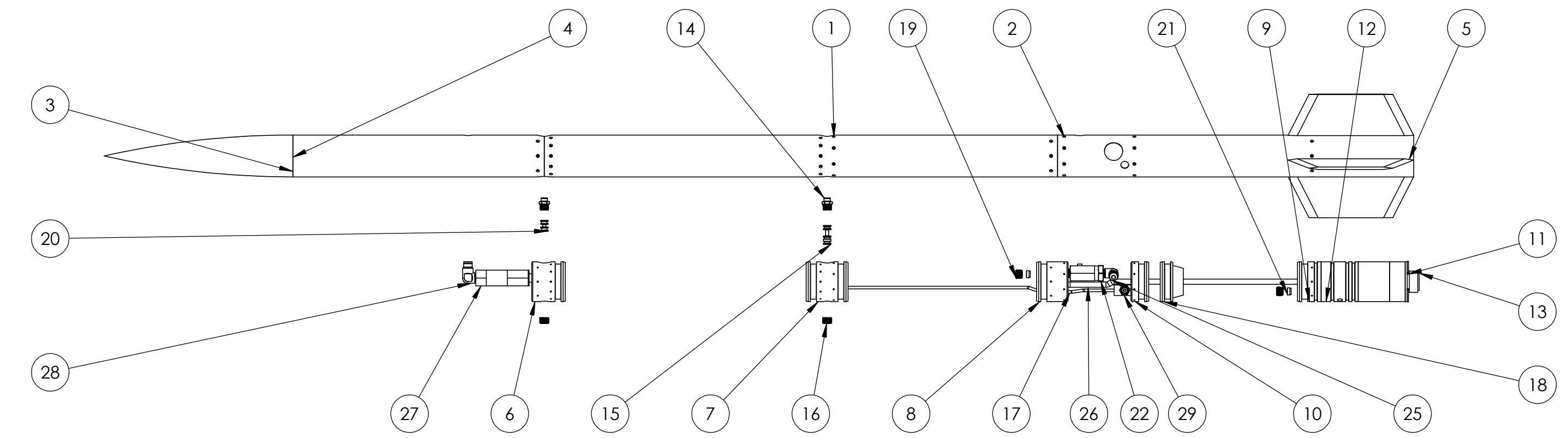
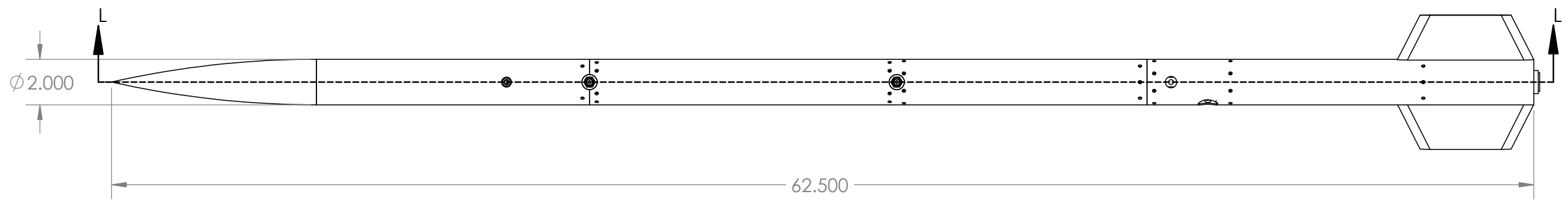


B

B



SECTION L-L

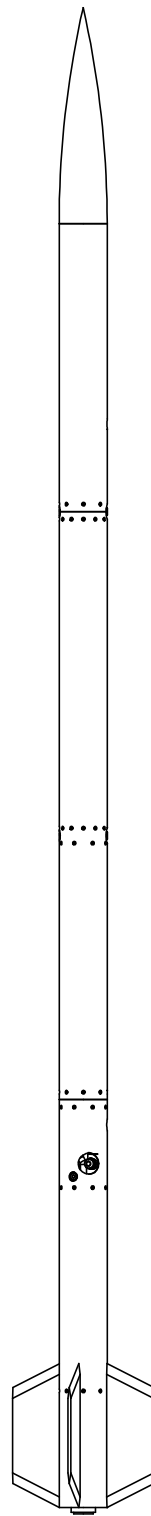


A

A

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		TOLERANCES:	CHECKED				
		FRACTIONAL ±	ENG APPR.				
		ANGULAR: MACH ±    BEND ±	MFG APPR.				
		TWO PLACE DECIMAL   ±	Q.A.			COMMENTS:	
		THREE PLACE DECIMAL   ±					
		INTERPRET GEOMETRIC TOLERANCING PER:					
		MATERIAL					
NEXT ASSY	USED ON	FINISH					
APPLICATION		DO NOT SCALE DRAWING					
			SIZE	DWG. NO.		REV	
			B	Rocket			
			SCALE: 1:5	WEIGHT:		SHEET 1 OF 12	



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	body_tube		1
2	liquid_tube		1
3	fiberglass-avionics-tube		1
4	nosecone		1
5	fin		4
6	spacer		1
7	spacer		1
8	spacer		1
9	spacer		1
10	spacer		1
11	99142A570	Internal Retaining Ring	1
12	annulus		1
13	Engine-Retainer_config		1
	RCS-0.291-Nozzle		1
	retainer-cap^Engine-Retainer_config		1
	converging-ablator-chamber^Engine-Retainer_config		1
	tube-ablator-chamber^Engine-Retainer_config		1
14	51495K181	Nickel-Plated Brass Push-to-Connect Tube Fitting	2
15	pyro-valve-piston		1
16	92311A345	18-8 Stainless Steel Cup-Point Set Screw	2
17	Tube_2-Rocket		1
	Tube .125in OD X .010in Wall		1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
18	fuel_piston		1
19	2712T666	Threaded Flow Control Orifice with Brass Body	2
20	vent-valve-piston		1
21	Burst_Assembly		2
	burst-housing		1
	disk-compressor		1
	disk-proxy		1
		Sheet	-
	AS568-006-O-Ring		1
22	4112T53	Compact High-Pressure Brass Ball Valve	1
23	Tube_4-Rocket		1
24	Auto-Main_LOX-Rocket		1
25	5482K209	Precision AN 37 Degree Flared Fitting	1
26	lox-tube-bent		1
27	check-valve-placeholder		1
28	51495K234	Nickel-Plated Brass Push-to-Connect Tube Fitting	1
29	fuel-press-valve		1
	fuel-press-valve		1
	fuel-press-piston		1
	51495K181	Nickel-Plated Brass Push-to-Connect Tube Fitting	1

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		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ±    BEND ± TWO PLACE DECIMAL    ± THREE PLACE DECIMAL    ±	DRAWN					
			CHECKED					
			ENG APPR.					
			MFG APPR.					
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.			SIZE    DWG. NO.    REV <b>B</b> <b>Rocket</b>		
		MATERIAL	COMMENTS:					
		FINISH						
	NEXT ASSY	USED ON				SCALE: 1:8	WEIGHT:	SHEET 2 OF 12
APPLICATION		DO NOT SCALE DRAWING						

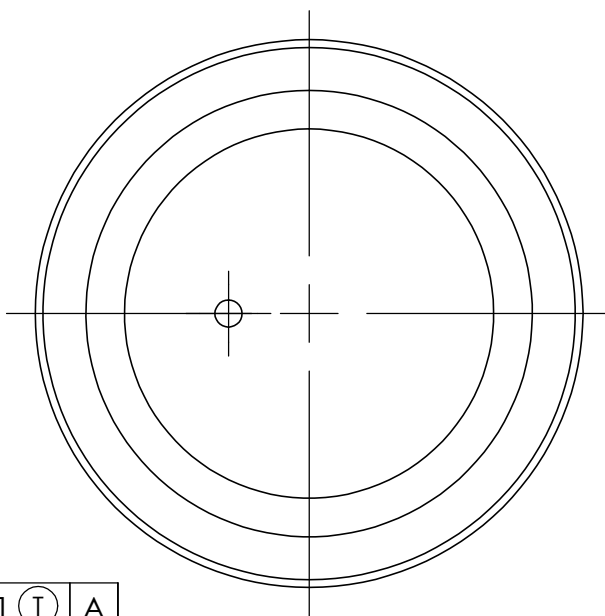
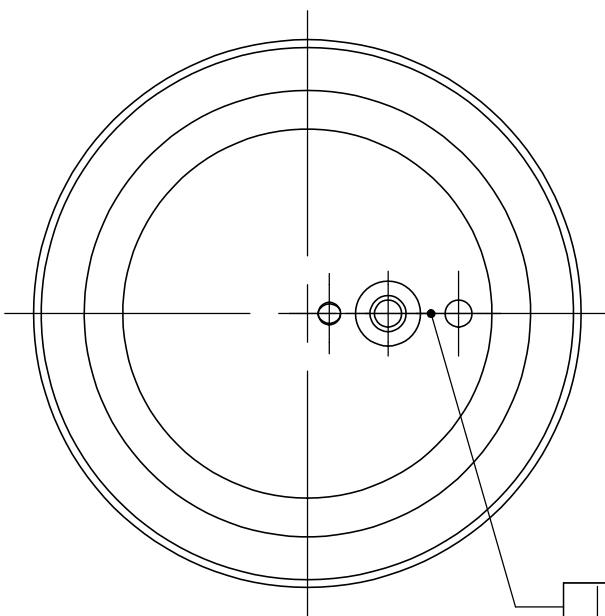
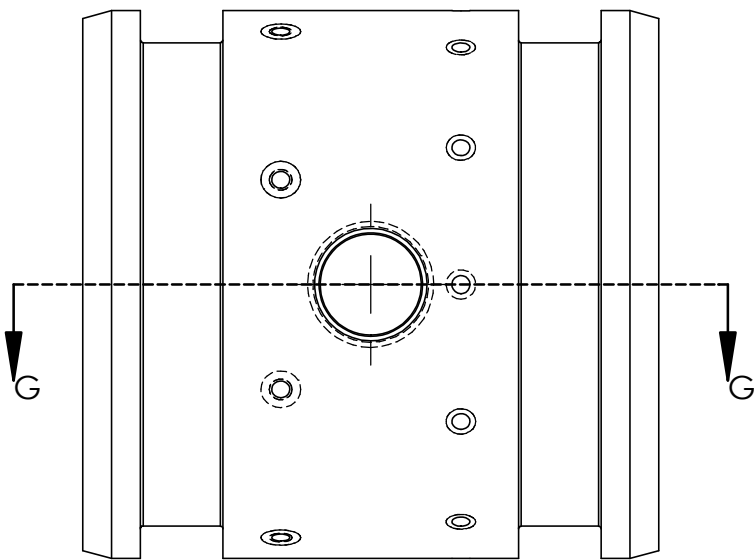


4

3

2

1



0.600 ± .239

0.332  
1/8 NPT .225

0.359 ± THRU

0.078 ± THRU NEXT

0.094 ± THRU NEXT

0.875

0.005 A

0.426

0.005 A

1.000

0.01 B

0.094 ± THRU

0.671

0.005 A

SECTION G-G

0.391 ± .324  
7/16-20 UNF ± .324

0.05 ± 45°

0.125 ± .25

0.050

0.100

DETAIL H  
SCALE 3 : 1

0.094 ± THRU NEXT

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TOLERANCES:  
FRACTIONAL ±  
ANGULAR: MACH ± BEND ±  
TWO PLACE DECIMAL ±  
THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC  
TOLERANCING PER:  
MATERIAL

FINISH

NAME

DATE

DRAWN

CHECKED

ENG APPR.

MFG APPR.

Q.A.

COMMENTS:

TITLE:

SIZE

B

DWG. NO.

Rocket

REV

SCALE: 1.5:1

WEIGHT: SHEET 4 OF 12

3

2

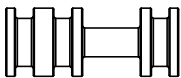
1

4

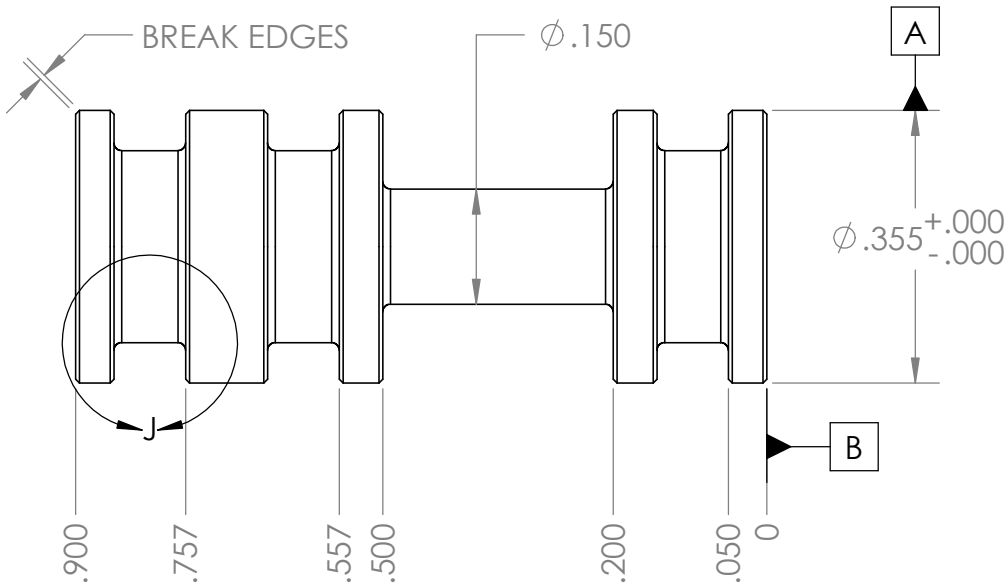
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2

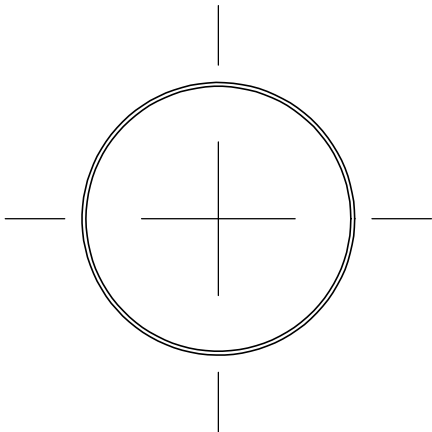
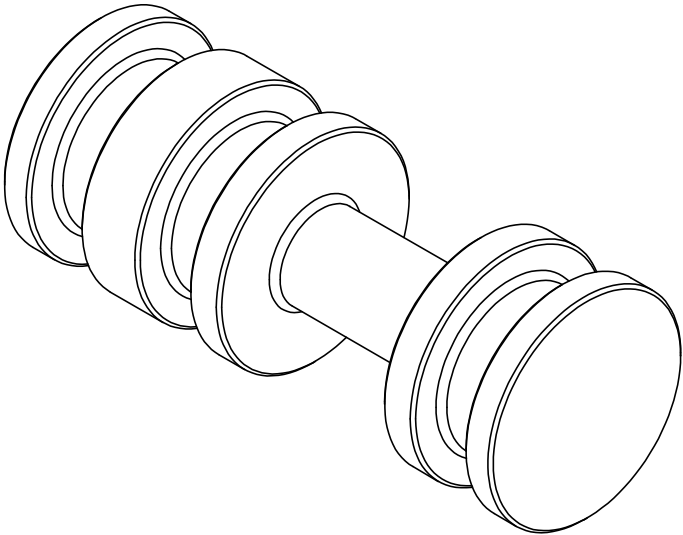
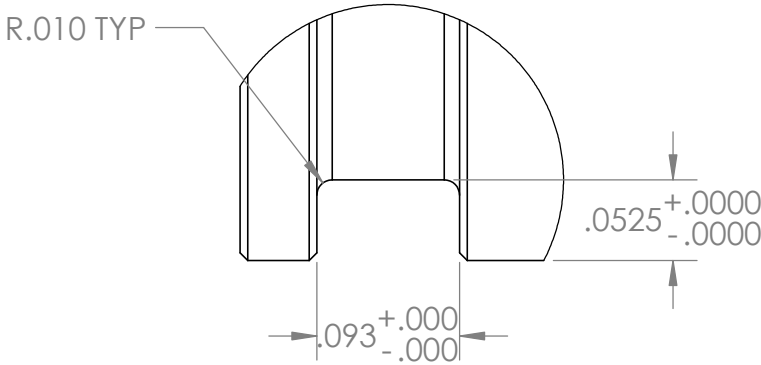
1



SCALE 1 : 1



DETAIL J  
SCALE 8 : 1



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		TOLERANCES: FRACTIONAL ±	CHECKED					
		ANGULAR: MACH ±    BEND ±	ENG APPR.					
		TWO PLACE DECIMAL    ±	MFG APPR.			SIZE   DWG. NO.   REV <b>B</b> Rocket		
		THREE PLACE DECIMAL    ±	Q.A.					
		INTERPRET GEOMETRIC TOLERANCING PER:	COMMENTS:					
		MATERIAL						
		FINISH						
NEXT ASSY	USED ON							
APPLICATION		DO NOT SCALE DRAWING						

3

2

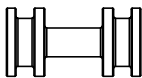
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4

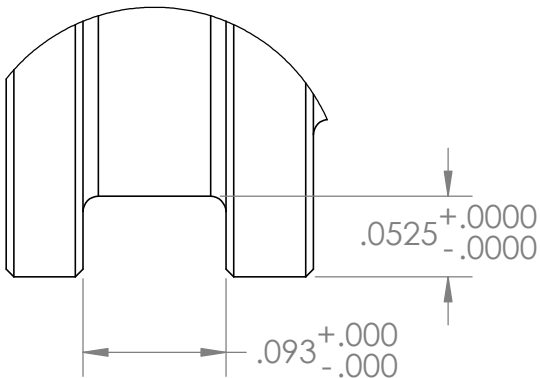
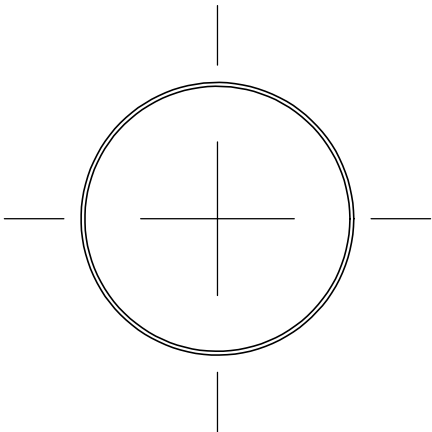
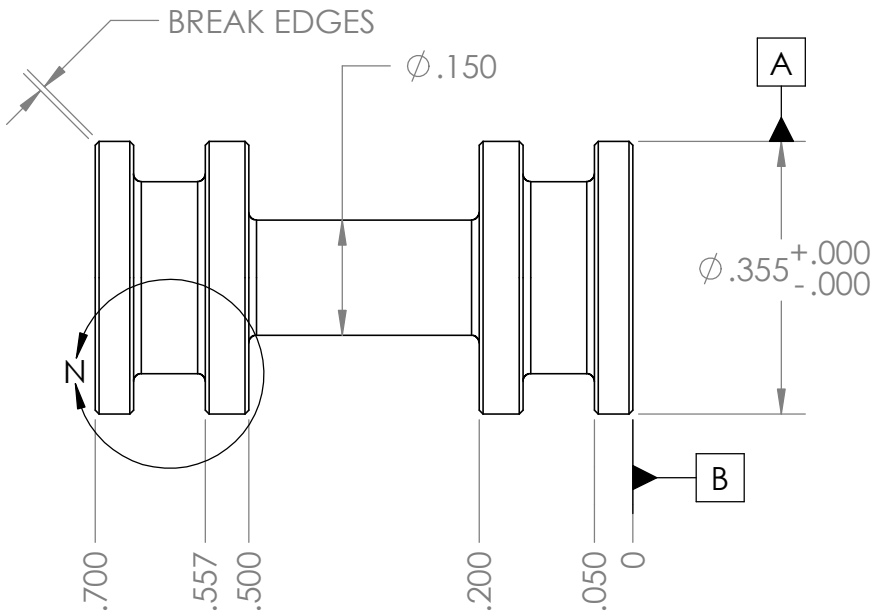
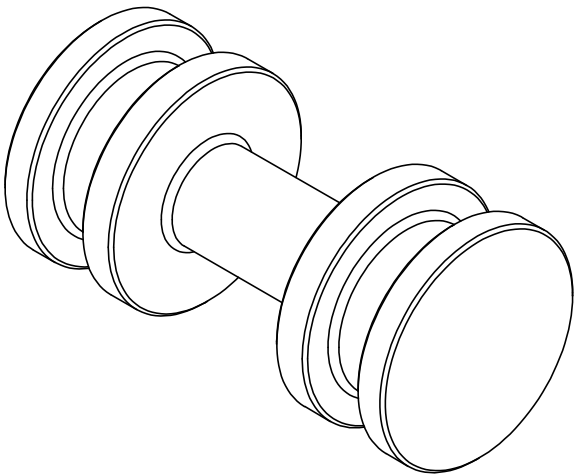
3

2

1



SCALE 1 : 1



DETAIL N  
SCALE 8 : 1

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		TOLERANCES:	CHECKED					
		FRACTIONAL $\pm$	ENG APPR.					
		ANGULAR: MACH $\pm$ BEND $\pm$	MFG APPR.					
		TWO PLACE DECIMAL $\pm$	Q.A.			SIZE DWG. NO. REV		
		THREE PLACE DECIMAL $\pm$	COMMENTS:					
		INTERPRET GEOMETRIC TOLERANCING PER:						
		MATERIAL				SCALE: 4:1 WEIGHT: SHEET 7 OF 12		
		FINISH						
NEXT ASSY	USED ON							
APPLICATION		DO NOT SCALE DRAWING						

3

2

1

4

3

2

1

B

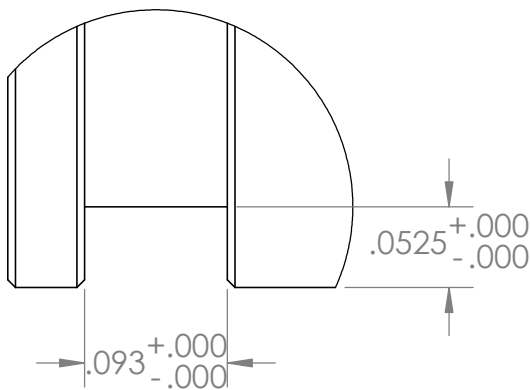
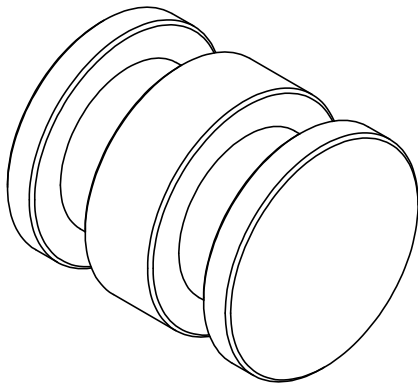
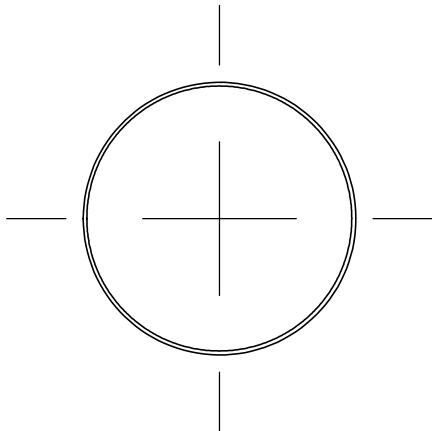
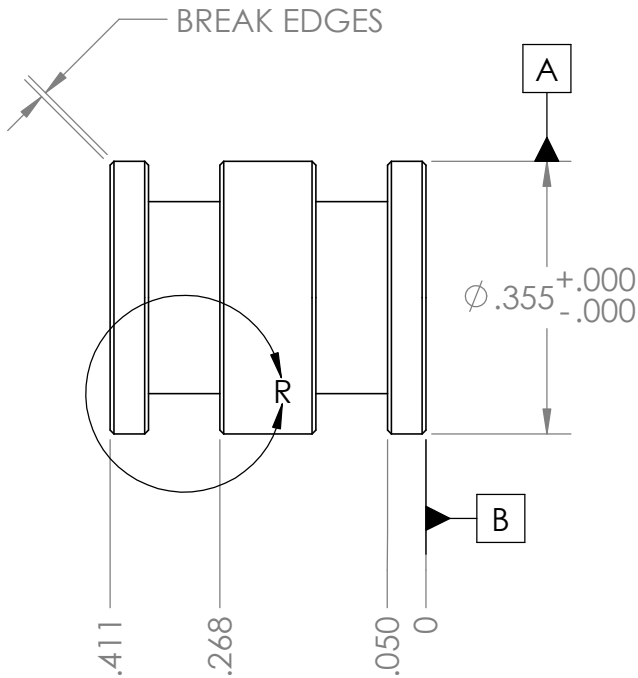
B

A

A



SCALE 1:1



DETAIL R  
SCALE 8 : 1

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		TOLERANCES:	CHECKED					
		FRACTIONAL ±	ENG APPR.					
		ANGULAR: MACH ± BEND ±	MFG APPR.			SIZE DWG. NO. REV		
		TWO PLACE DECIMAL ±	Q.A.					
		THREE PLACE DECIMAL ±	COMMENTS:					
		INTERPRET GEOMETRIC TOLERANCING PER:				SCALE: 4:1 WEIGHT: SHEET 8 OF 12		
		MATERIAL						
		FINISH						
NEXT ASSY	USED ON							
APPLICATION		DO NOT SCALE DRAWING						

3

2

1

B

B

A

A

11X EVERY 30° BEGIN AT 180°, SKIP 6TH  
Ø .063 (Ø 1/16) ∇ THRU  
✓ Ø .149 X 90°, NEAR SIDE  
✓ NOT TO PENETRATE ID  
TYP SKIN FASTENER

UP 0°, +CW  
(+CCW Rotation)

8X, EVERY 45°, BEGIN AT 22.5°

11X EVERY 30° BEGIN AT 180°, SKIP 6TH

43/64 at 0°, 7/16 Socket Clearance

8X, EVERY 45°, BEGIN AT 0°

29/64 at 180°, 7/16"-20 UNF Screw Clearance

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		FRACTIONAL ±	ENG APPR.					
		ANGULAR: MACH ± BEND ±	MFG APPR.					
		TWO PLACE DECIMAL ±	Q.A.			SIZE	DWG. NO.	REV
		THREE PLACE DECIMAL ±	COMMENTS:				<b>B</b>	Rocket
NEXT ASSY	USED ON	MATERIAL				SCALE: 1:2	WEIGHT:	SHEET 11 OF 12
APPLICATION		FINISH						
		DO NOT SCALE DRAWING						