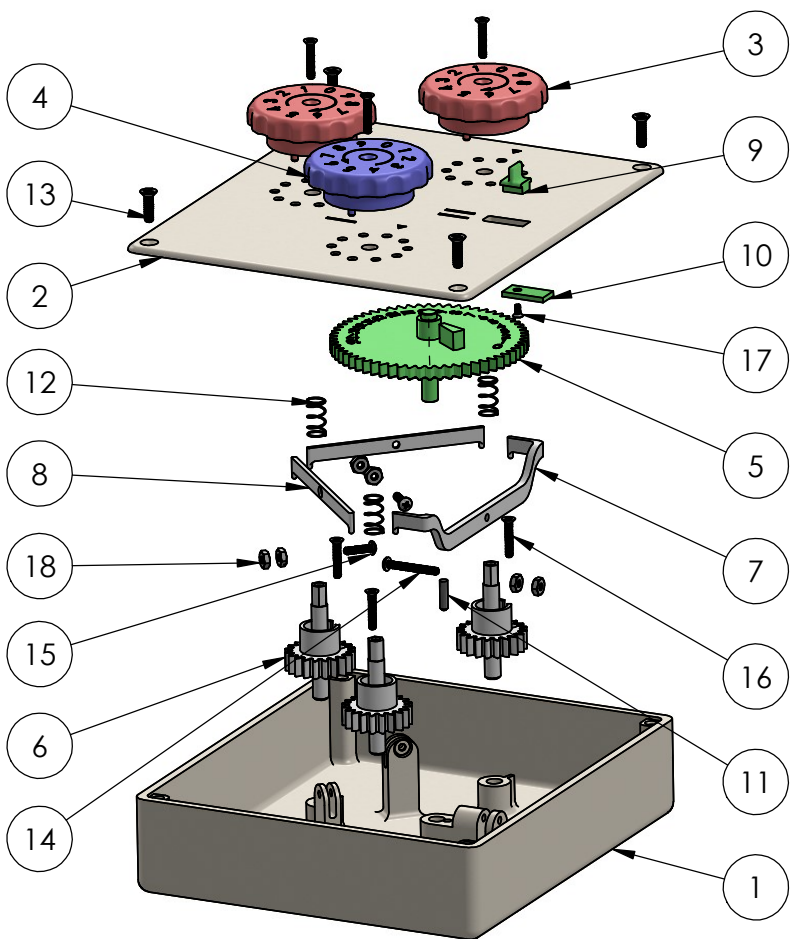


B



PART NO.	PART NAME	QTY.	MATERIAL
1	ENCLOSURE BODY	1	ABS
2	ENCLOSURE TOP	1	ABS
3	ADDITION KNOB	2	ABS
4	SUBTRACTION KNOB	1	ABS
5	OUTPUT GEAR	1	ABS
6	KNOB GEAR	3	ABS
7	LOCK BAR LONG	1	ABS
8	LOCK BAR SHORT	2	ABS
9	ANSWER COVER UPPER	1	ABS
10	ANSWER COVER LOWER	1	ABS
11	FRICTION PIN	1	POM
12	.3 OD .256 ID .5 LENGTH COMPRESSION SPRING	3	STEEL
13	6-32 X .5 FLAT HEAD SCREW	4	STEEL
14	4-40 X .875 PAN HEAD SCREW	1	STEEL
15	4-40 x .4375 PAN HEAD SCREW	2	STEEL
16	4-40 X .625 FLAT HEAD SCREW	6	STEEL
17	4-40 X .1875 FLAT HEAD SCREW	1	STEEL
18	4-40 HEX NUT	6	STEEL

B

A



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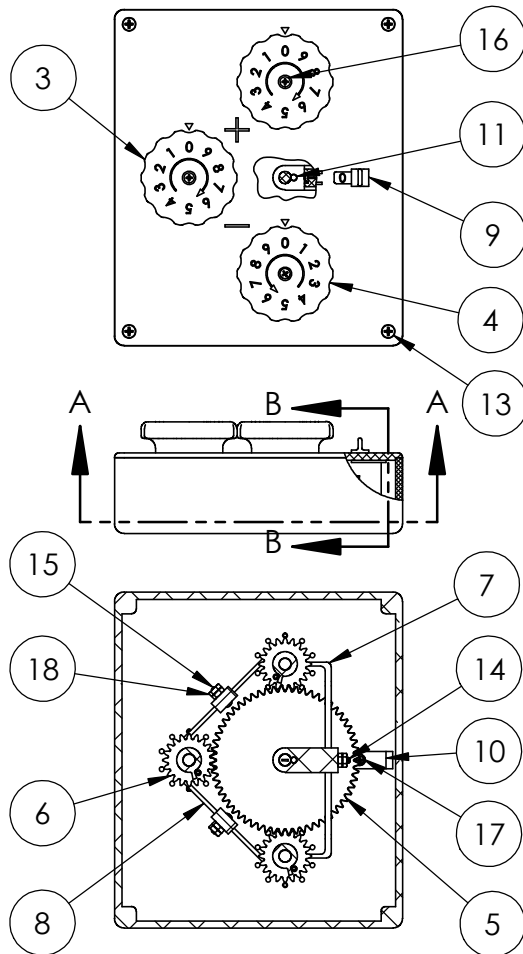
		UNLESS OTHERWISE SPECIFIED:
		DIMENSIONS ARE IN INCHES TOLERANCES: ANGULAR: MACH ± 0°30' TWO PLACE DECIMAL ± 0.01 THREE PLACE DECIMAL ± 0.005
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.5
		MATERIAL -
		FINISH -
NEXT ASSY	USED ON	
APPLICATION		DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	st3442. ey2319	05/02/2023
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

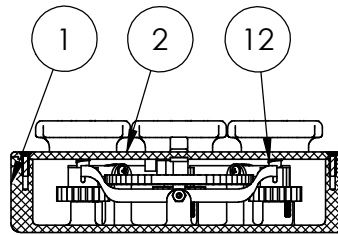
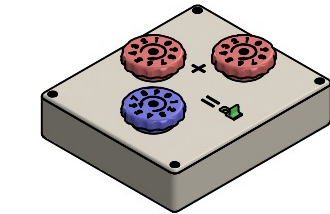
Columbia SEAS				
TITLE: ASSEMBLED TOY EXP.				
SIZE	DWG. NO.		REV	
A	ARITHMETIC TOY			
SCALE: 1:3		WEIGHT: -		SHEET 1 OF 14

A

B



SECTION A-A



SECTION B-B

PART NO.	PART NAME	QTY.	MATERIAL
1	ENCLOSURE BODY	1	ABS
2	ENCLOSURE TOP	1	ABS
3	ADDITION KNOB	2	ABS
4	SUBTRACTION KNOB	1	ABS
5	OUTPUT GEAR	1	ABS
6	KNOB GEAR	3	ABS
7	LOCK BAR LONG	1	ABS
8	LOCK BAR SHORT	2	ABS
9	ANSWER COVER UPPER	1	ABS
11	FRICTION PIN	1	POM
12	.3 OD .256 ID .5 LENGTH COMPRESSION SPRING	3	STEEL
13	6-32 x .5 FLAT HEAD SCREW	4	STEEL
13	ANSWER COVER LOWER	1	ABS
14	4-40 X .875 PAN HEAD SCREW	1	STEEL
15	4-40 x .4375 PAN HEAD SCREW	2	STEEL
16	4-40 X .625 FLAT HEAD SCREW	6	STEEL
17	4-40 X .1875 FLAT HEAD SCREW	1	STEEL
18	4-40 HEX NUT	6	STEEL

HIDDEN AND CENTER LINES EXCLUDED FOR CLARITY

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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES		DRAWN	st3442. ey2319 05/02/2023
		TOLERANCES:		CHECKED	
		ANGULAR: MACH ± 0°30'		ENG APPR.	
		TWO PLACE DECIMAL ± 0.01		MFG APPR.	
		THREE PLACE DECIMAL ± 0.005		Q.A.	
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.5		COMMENTS:	
		MATERIAL	-		
		FINISH	-		
NEXT ASSY	USED ON				
APPLICATION		DO NOT SCALE DRAWING			

Columbia SEAS			
TITLE:			
ASSEMBLED TOY BOM			
SIZE	DWG. NO.	REV	
A	ARITHMETIC TOY		
SCALE: 1:4	WEIGHT: -	SHEET 2 OF 14	

B

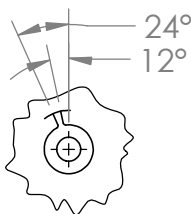
A

B

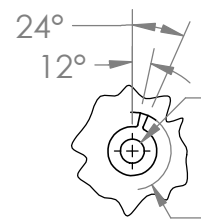
B

A

A



DETAIL F  
SCALE 1 : 2



DETAIL E  
SCALE 1 : 2



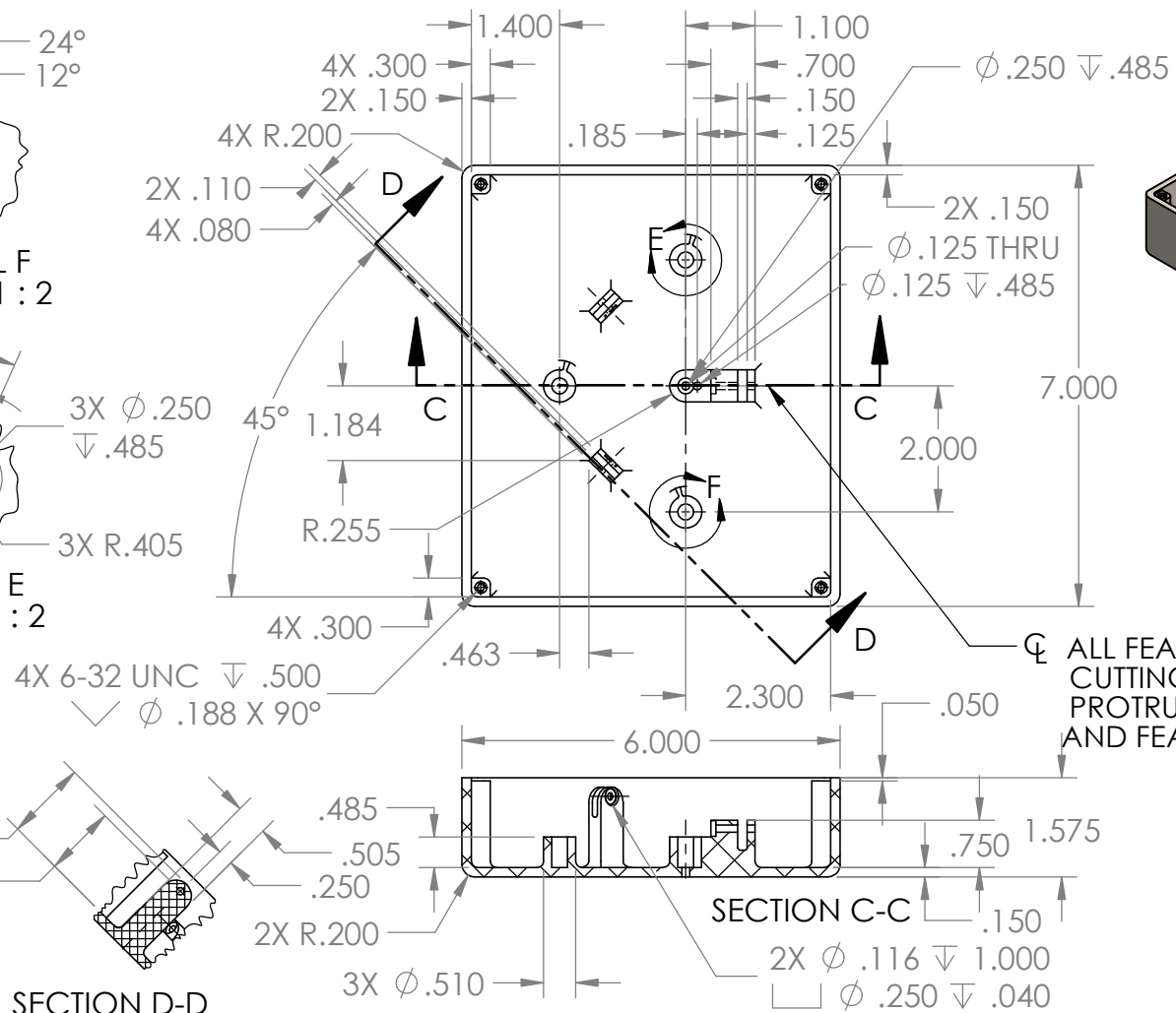
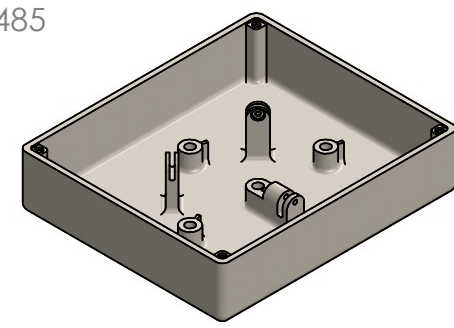
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2

1

2

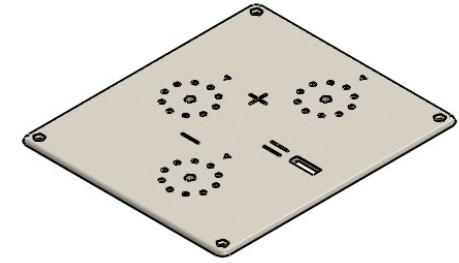
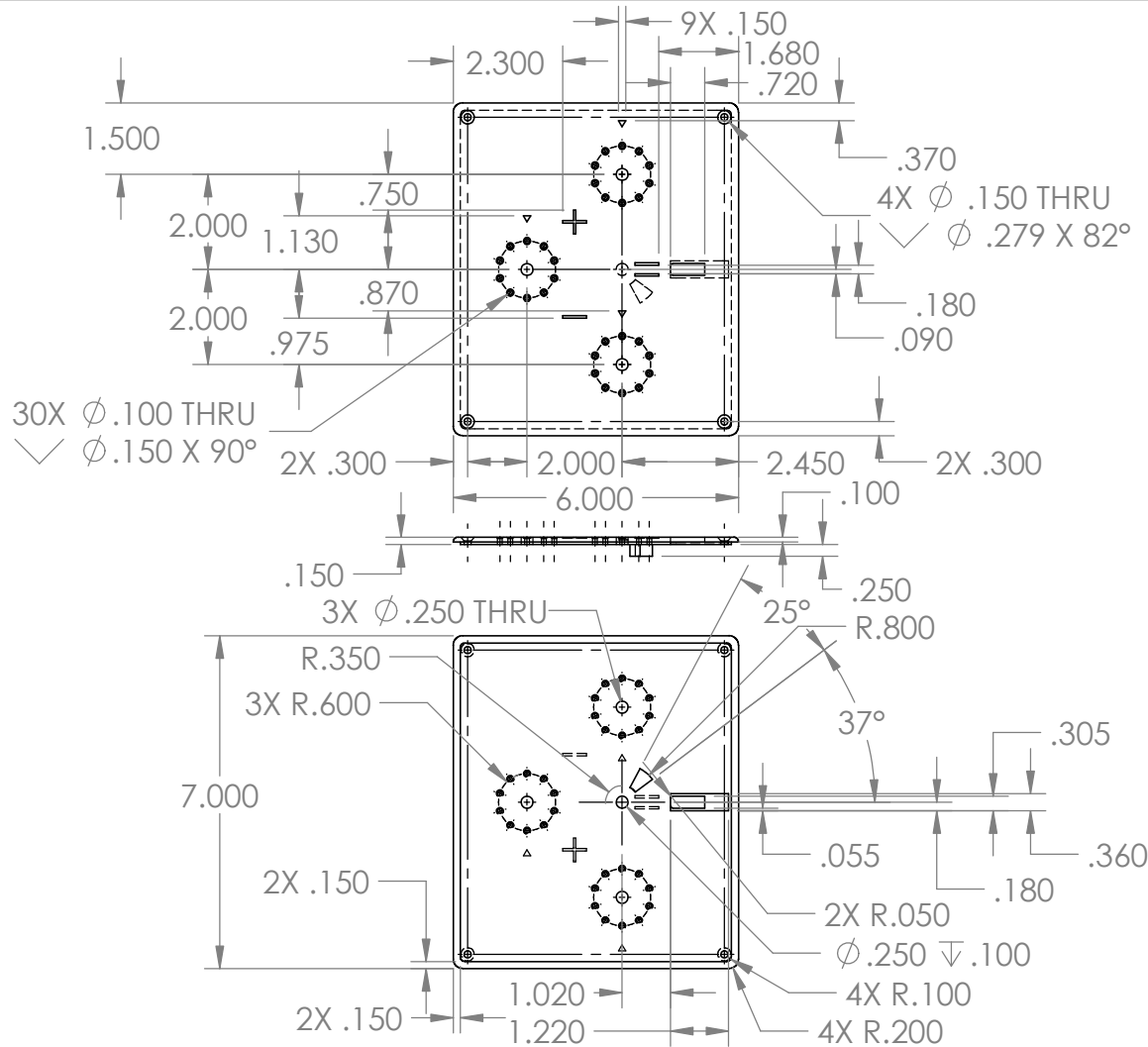
1



		UNLESS OTHERWISE SPECIFIED:	NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	st3442. ey2319 05/02/2023
		TOLERANCES:	CHECKED	
		ANGULAR: MACH ± 0°30'	ENG APPR.	
		TWO PLACE DECIMAL ± 0.01	MFG APPR.	
		THREE PLACE DECIMAL ± 0.005	Q.A.	
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.5	COMMENTS:	
		MATERIAL		
		ABS		
		FINISH		
		SATIN CREAM		
NEXT ASSY	USED ON	APPLICATION	DO NOT SCALE DRAWING	

Columbia SEAS			
TITLE: ENCLOSURE BODY			
SIZE	DWG. NO.	REV	
A	ARITHMETIC TOY		
SCALE: 1:3	WEIGHT: -	SHEET 3 OF 14	

B



B

FOR ALL DEBOSSED FEATURES  
UNLESS OTHERWISE SPECIFIED:  
LINE WIDTH: .050  
OUTER LENGTH: .500  
DEBOSS DEPTH: .020  
SURFACE FINISH: HIGH GLOSS

A

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		UNLESS OTHERWISE SPECIFIED:
		DIMENSIONS ARE IN INCHES
		TOLERANCES:
		ANGULAR: MACH $\pm$ 0°30'
		TWO PLACE DECIMAL $\pm$ 0.01
		THREE PLACE DECIMAL $\pm$ 0.005
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.5
		MATERIAL
		ABS
		FINISH
		SATIN CREAM, HIGH GLOSS
NEXT ASSY	USED ON	
APPLICATION		DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	st3442. ey2319	05/02/2023
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

Columbia SEAS		
TITLE:		
ENCLOSURE TOP		
SIZE	DWG. NO.	REV
A	ARITHMETIC TOY	
SCALE: 1:4	WEIGHT: -	SHEET 4 OF 14

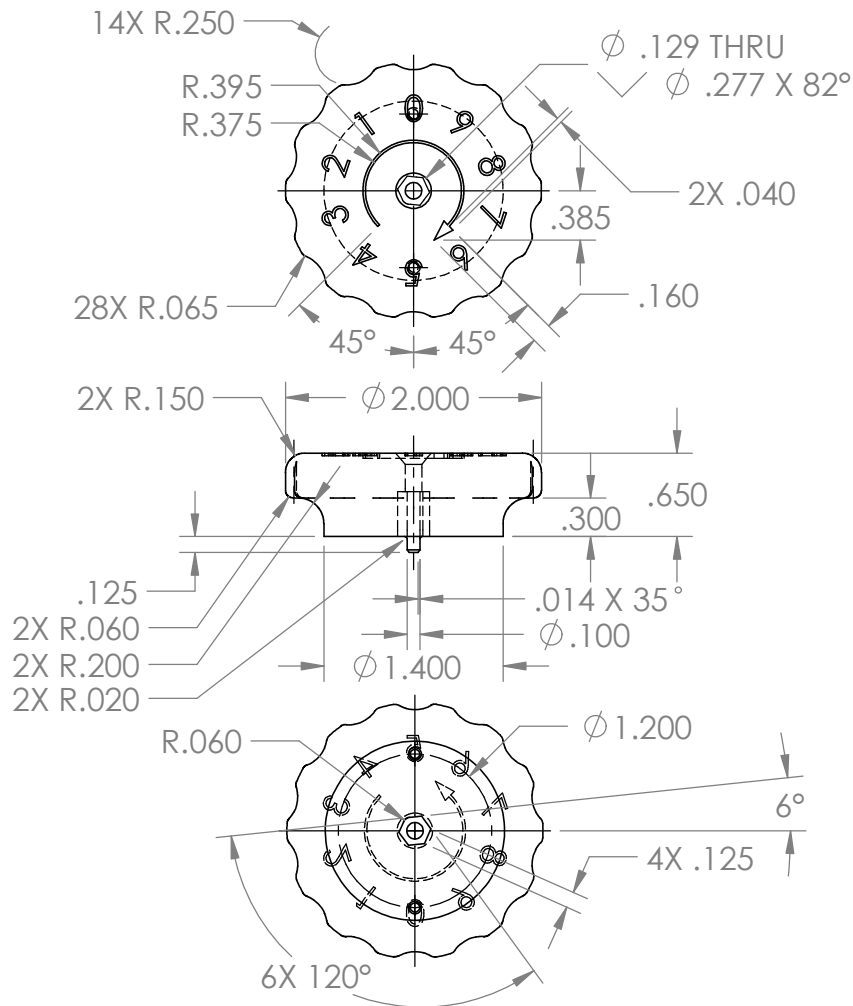
A

2

1

B

B



FOR ALL DEBOSSED NUMBERS:  
FONT: CENTURY GOTHIC  
FONT HEIGHT: .200  
DEBOSS DEPTH: .020  
DISTANCE TO NUMBER BASE FROM KNOB CENTER: R .550  
ANGULAR SPACING: 36°  
SURFACE FINISH: HIGH GLOSS

DEBOSS ARROW TO SAME DEPTH



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		UNLESS OTHERWISE SPECIFIED:	NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	st3442. ey2319 05/02/2023
		TOLERANCES:	CHECKED	
		ANGULAR: MACH $\pm 0^\circ 30'$	ENG APPR.	
		TWO PLACE DECIMAL $\pm 0.01$	MFG APPR.	
		THREE PLACE DECIMAL $\pm 0.005$	Q.A.	
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.5	COMMENTS:	
		MATERIAL		
		ABS		
NEXT ASSY	USED ON	FINISH		
		SATIN RED, HIGH GLOSS		
APPLICATION		DO NOT SCALE DRAWING		

Columbia SEAS

TITLE:

ADDITION KNOB

SIZE	DWG. NO.	REV
<b>A</b>	ARITHMETIC TOY	
SCALE: 2:3	WEIGHT: -	SHEET 5 OF 14

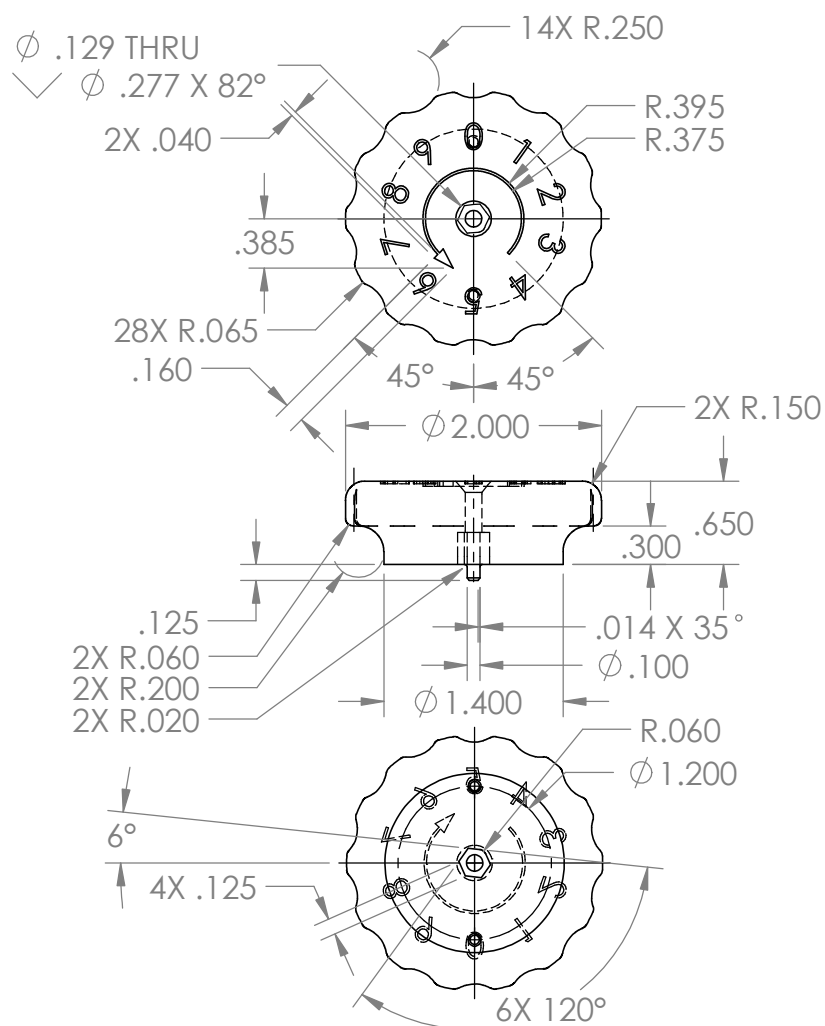
A

2

1

B

B



FOR ALL DEBOSSED NUMBERS:  
FONT: CENTURY GOTHIC  
FONT HEIGHT: .200  
DEBOSS DEPTH: .020  
DISTANCE TO NUMBER BASE FROM KNOB CENTER: R .550  
ANGULAR SPACING: 36°  
SURFACE FINISH: HIGH GLOSS  
DEBOSS ARROW TO SAME DEPTH



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UNLESS OTHERWISE SPECIFIED:	
DIMENSIONS ARE IN INCHES	
TOLERANCES:	
ANGULAR: MACH $\pm 0^\circ 30'$	
TWO PLACE DECIMAL $\pm 0.01$	
THREE PLACE DECIMAL $\pm 0.005$	
INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.5	
MATERIAL	
ABS	
FINISH	
SATIN BLUE, HIGH GLOSS	
NEXT ASSY	USED ON
APPLICATION	
DO NOT SCALE DRAWING	

NAME	DATE
DRAWN	st3442. ey2319 05/02/2023
CHECKED	
ENG APPR.	
MFG APPR.	
Q.A.	
COMMENTS:	

Columbia SEAS			
TITLE:			
ADDITION KNOB			
SIZE	DWG. NO.	REV	
A	ARITHMETIC TOY		
SCALE: 2:3	WEIGHT: -	SHEET 6 OF 14	

A

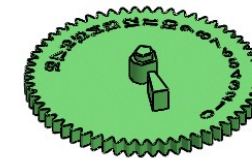
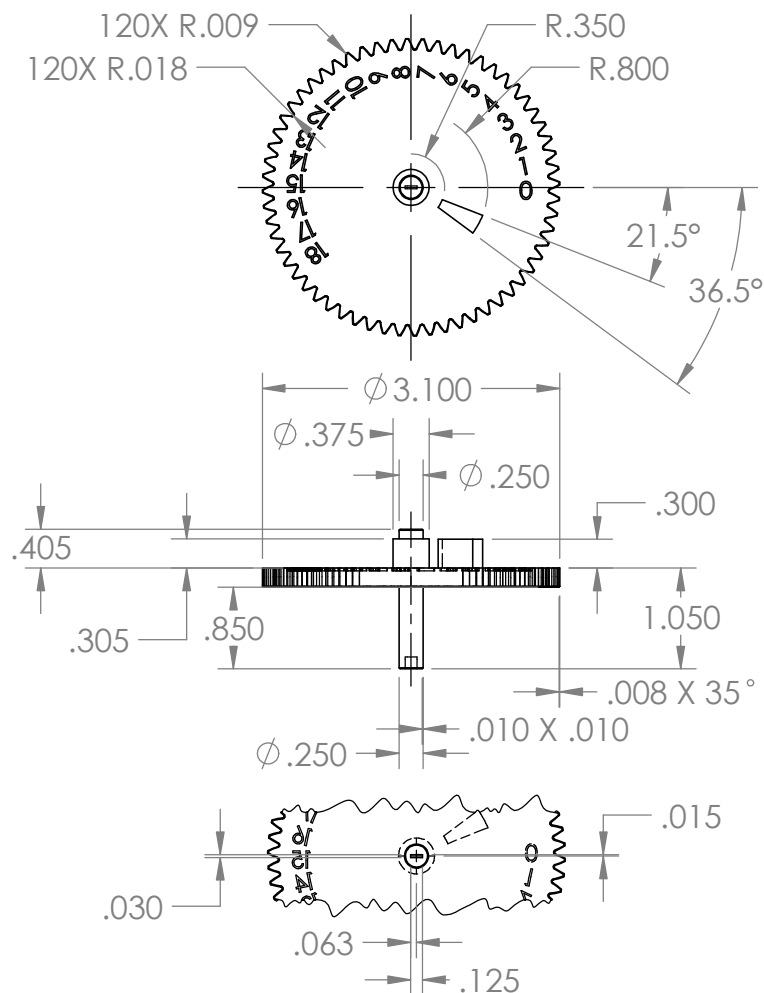
A

2

1

B

B



FOR ALL DEBOSSED NUMBERS:  
FONT: CENTURY GOTHIC  
FONT HEIGHT: .180  
DEBOSS DEPTH: .030  
DISTANCE TO NUMBER CENTER FROM CENTRAL AXIS: R 1.200  
ANGULAR SPACING: 12°  
FIRST NUMBER (0) OFFSET 1.5° CW FROM HORIZONTAL  
SURFACE FINISH: HIGH GLOSS

GEAR TEETH (ALL DIM BEFORE FILLET):  
INVOLUTE SPUR  
60 TOOTH  
DIAMETRAL PITCH: 20 TEETH/INCH  
CLEARANCE: .013  
PRESSURE ANGLE: 25°  
ADDENDUM: .050  
DEDENDUM: .063  
PITCH CIRCLE: 3.000  
FIRST TROUGH (CLOSEST TO "0") OFFSET 1.5° FROM HORIZONTAL



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		UNLESS OTHERWISE SPECIFIED:
		DIMENSIONS ARE IN INCHES TOLERANCES: ANGULAR: MACH ± 0°30' TWO PLACE DECIMAL ± 0.01 THREE PLACE DECIMAL ± 0.005
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.5
		MATERIAL ABS
NEXT ASSY	USED ON	FINISH SATIN GREEN, HIGH GLOSS
APPLICATION		DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	st3442. ey2319	05/02/2023
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

Columbia SEAS		
TITLE:		
OUTPUT GEAR		
SIZE	DWG. NO.	REV
A	ARITHMETIC TOY	
SCALE: 1:2	WEIGHT: -	SHEET 7 OF 14

A

A

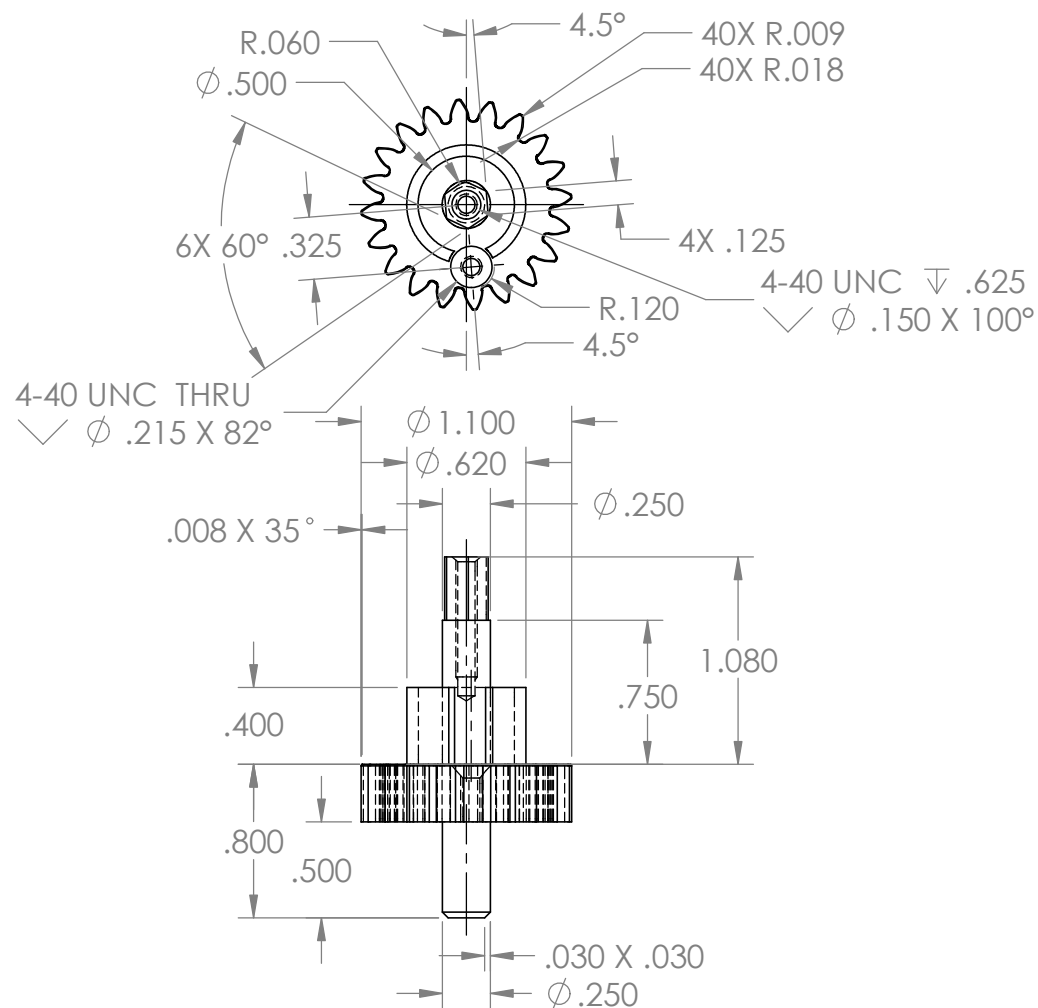
2

1



B

B



GEAR TEETH (ALL DIM BEFORE FILLET):  
INVOLUTE SPUR  
20 TOOTH  
DIAMETRAL PITCH: 20 TEETH/INCH  
CLEARANCE: .013  
PRESSURE ANGLE: 25°  
ADDENDUM: .050  
DEDENDUM: .063  
PITCH CIRCLE: 1.000  
FIRST TROUGH OFFSET 5.06° CW FROM HORIZONTAL



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		UNLESS OTHERWISE SPECIFIED:
		DIMENSIONS ARE IN INCHES
		TOLERANCES:
		ANGULAR: MACH ± 0°30'
		TWO PLACE DECIMAL ± 0.01
		THREE PLACE DECIMAL ± 0.005
		INTERPRET GEOMETRIC
		TOLERANCING PER: ASME Y14.5
		MATERIAL
		ABS
		FINISH
		SATIN
NEXT ASSY	USED ON	
APPLICATION		DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	st3442. ey2319	05/02/2023
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

Columbia SEAS

TITLE:

KNOB GEAR

SIZE	DWG. NO.	REV
A	ARITHMETIC TOY	
SCALE: 1:1	WEIGHT: -	SHEET 8 OF 14

A

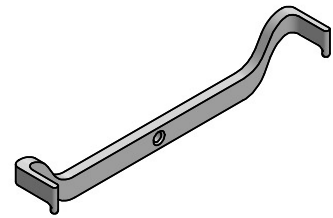
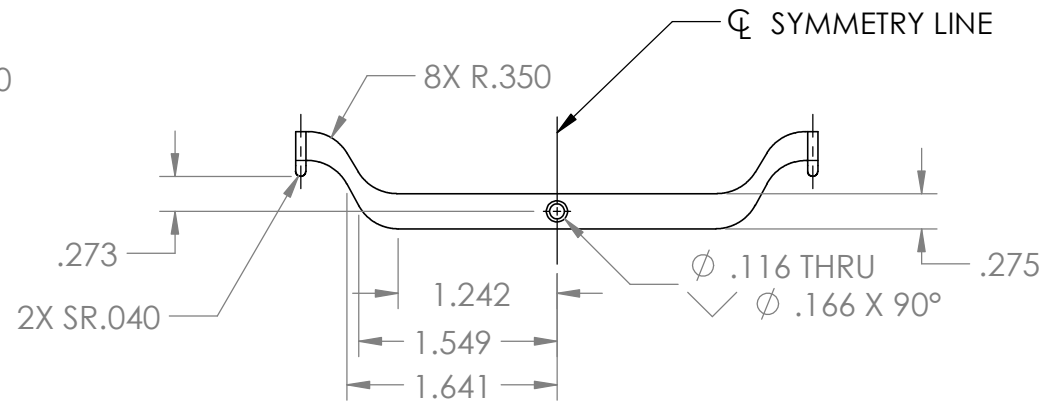
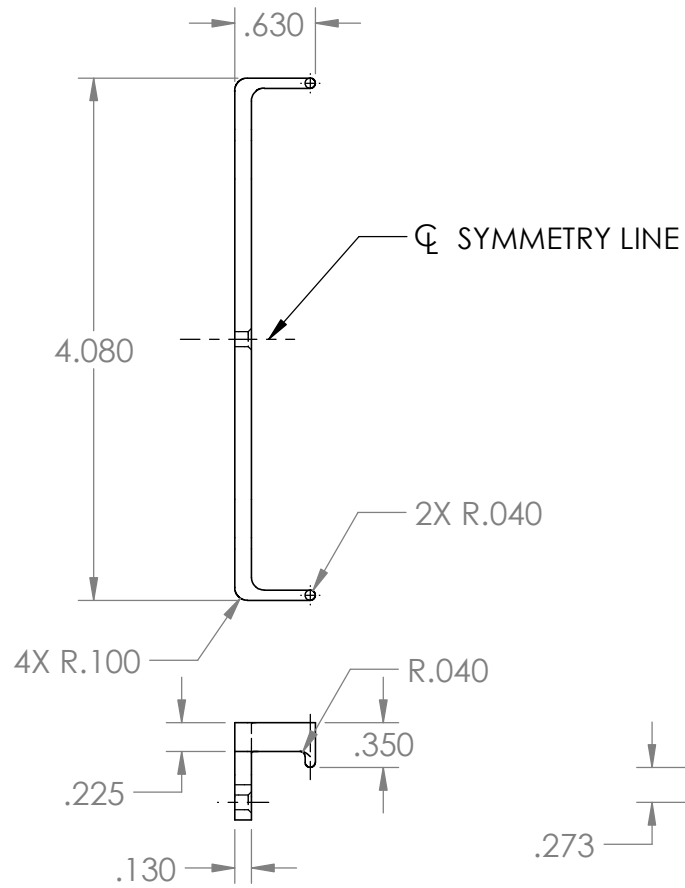
2

1



B

B

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		UNLESS OTHERWISE SPECIFIED:
		DIMENSIONS ARE IN INCHES
		TOLERANCES:
		ANGULAR: MACH $\pm 0^{\circ}30'$
		TWO PLACE DECIMAL $\pm 0.01$
		THREE PLACE DECIMAL $\pm 0.005$
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.5
		MATERIAL
		ABS
		FINISH
		-
NEXT ASSY	USED ON	
APPLICATION		DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	st3442. ey2319	05/02/2023
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

Columbia SEAS

TITLE:

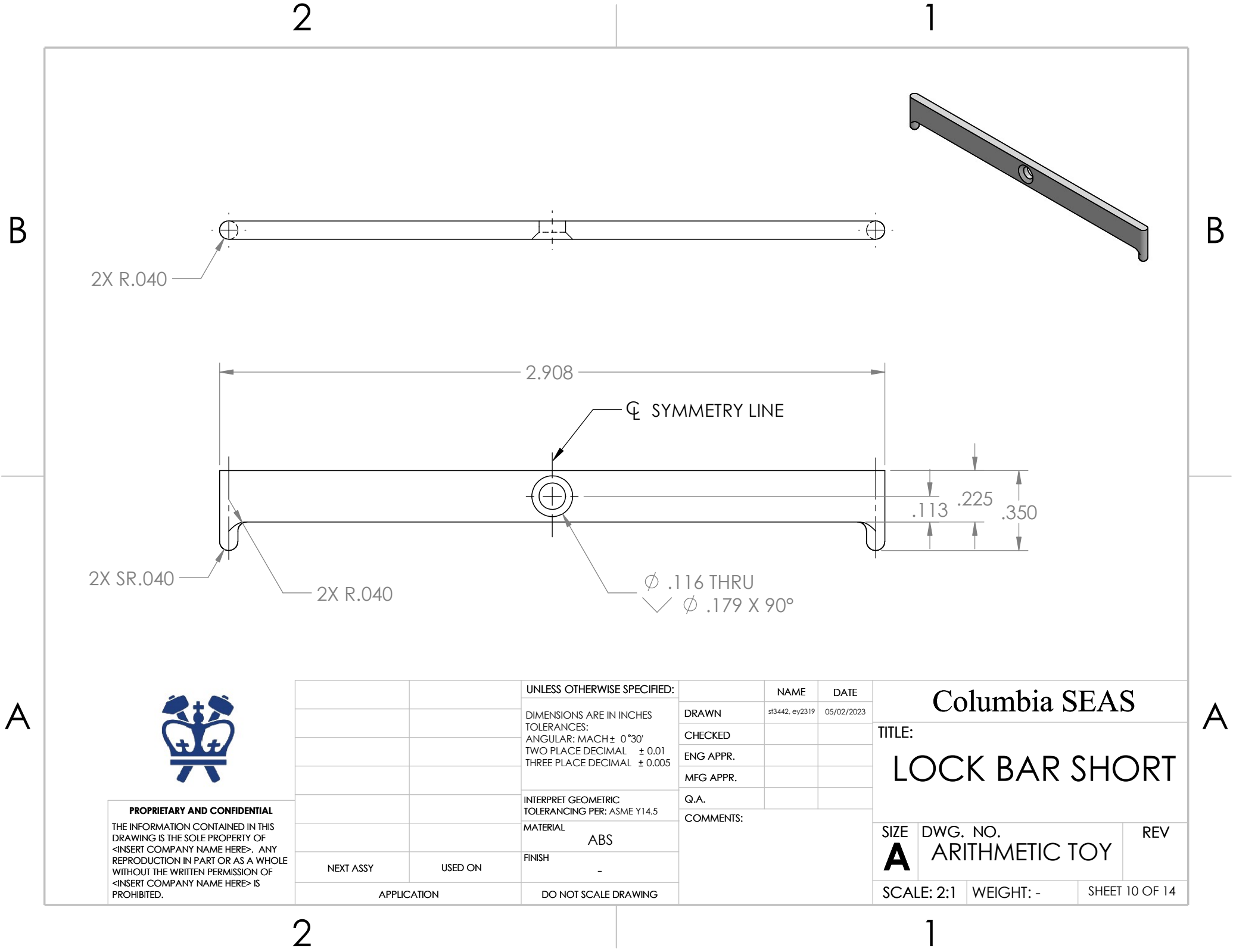
LOCK BAR LONG

SIZE	DWG. NO.	REV
<b>A</b>	ARITHMETIC TOY	
SCALE: 2:3	WEIGHT: -	SHEET 9 OF 14

A

2

1



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		UNLESS OTHERWISE SPECIFIED:
		DIMENSIONS ARE IN INCHES
		TOLERANCES:
		ANGULAR: MACH ± 0°30'
		TWO PLACE DECIMAL ± 0.01
		THREE PLACE DECIMAL ± 0.005
		INTERPRET GEOMETRIC
		TOLERANCING PER: ASME Y14.5
		MATERIAL
		ABS
		FINISH
		-
NEXT ASSY	USED ON	
APPLICATION		DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	st3442. ey2319	05/02/2023
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

Columbia SEAS		
TITLE:		
LOCK BAR SHORT		
SIZE	DWG. NO.	REV
A	ARITHMETIC TOY	
SCALE: 2:1	WEIGHT: -	SHEET 10 OF 14

B

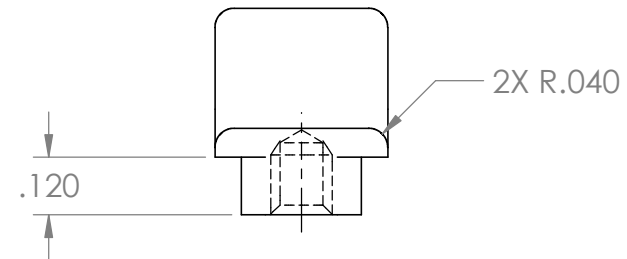
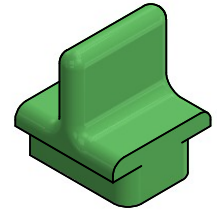
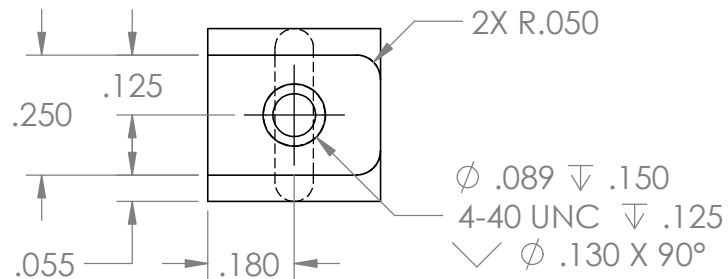
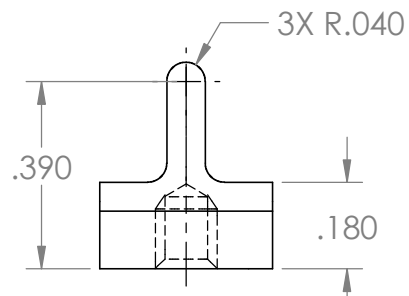
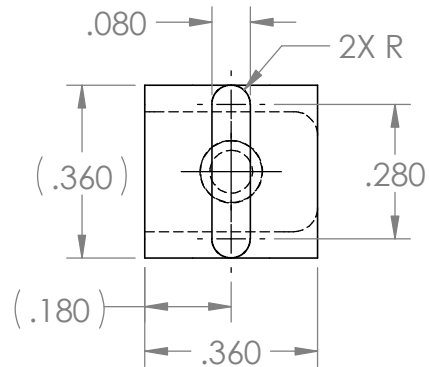
B

A

A

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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	Columbia SEAS					
		DIMENSIONS ARE IN INCHES TOLERANCES: ANGULAR: MACH ± 0°30' TWO PLACE DECIMAL ± 0.01 THREE PLACE DECIMAL ± 0.005	DRAWN	st3442. ey2319	05/02/2023	TITLE: <b>ANSWER COVER UPPER</b>					
			CHECKED								
			ENG APPR.								
			MFG APPR.								
			Q.A.								
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.5	COMMENTS:			SIZE <b>A</b>					
		MATERIAL ABS									
		FINISH MEDIUM GLOSS GREEN									
NEXT ASSY	USED ON					DWG. NO. ARITHMETIC TOY		REV			
APPLICATION		DO NOT SCALE DRAWING				SCALE: 5:2		WEIGHT: -		SHEET 11 OF 14	

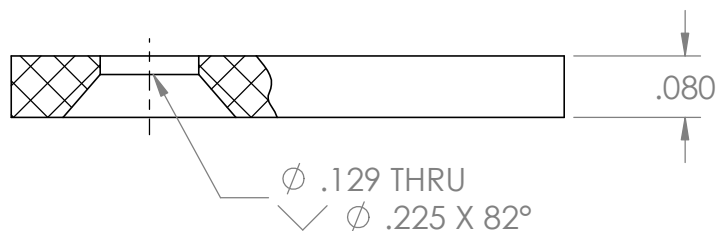
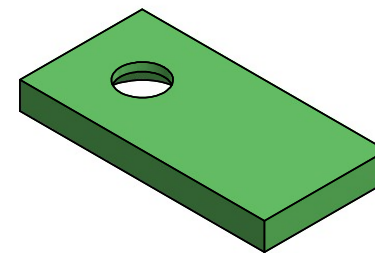
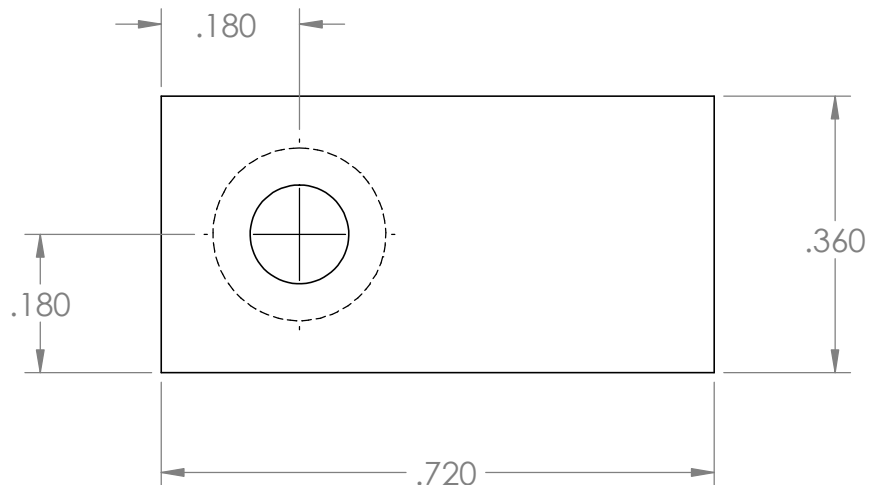
SCALE: 5:2 WEIGHT: - SHEET 11 OF 14

2

1

B

B



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		UNLESS OTHERWISE SPECIFIED:
		DIMENSIONS ARE IN INCHES
		TOLERANCES:
		ANGULAR: MACH ± 0°30'
		TWO PLACE DECIMAL ± 0.01
		THREE PLACE DECIMAL ± 0.005
		INTERPRET GEOMETRIC
		TOLERANCING PER: ASME Y14.5
		MATERIAL
		ABS
		FINISH
		MEDIUM GLOSS GREEN
NEXT ASSY	USED ON	
APPLICATION		DO NOT SCALE DRAWING

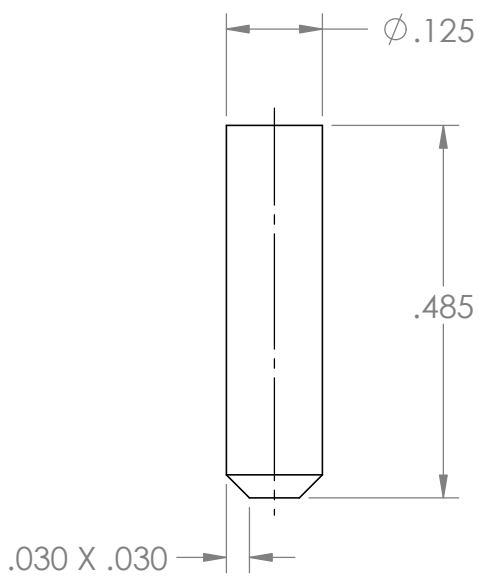
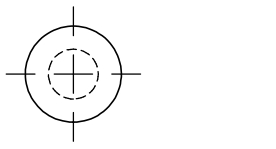
	NAME	DATE
DRAWN	st3442. ey2319	05/02/2023
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

Columbia SEAS		
TITLE:		
ANSWER COVER LOWER		
SIZE	DWG. NO.	REV
A	ARITHMETIC TOY	
SCALE: 4:1	WEIGHT: -	SHEET 12 OF 14

A

2

1



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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	st3442. ey2319	05/02/2023
		TOLERANCES:	CHECKED		
		ANGULAR: MACH $\pm 0^{\circ}30'$	ENG APPR.		
		TWO PLACE DECIMAL $\pm 0.01$	MFG APPR.		
		THREE PLACE DECIMAL $\pm 0.005$	Q.A.		
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.5	COMMENTS: MATERIAL CHOICE DEPENDENT ON ON DESIRED KNOB RESISTANCE		
		MATERIAL Rubber, POM, UHMWPE			
		FINISH -			
NEXT ASSY	USED ON				
APPLICATION		DO NOT SCALE DRAWING			

Columbia SEAS		
TITLE:		
FRICTION PIN		
SIZE <b>A</b>	DWG. NO. ARITHMETIC TOY	REV
SCALE: 4:1	WEIGHT: -	SHEET 13 OF 14

B

A

12 COMPRESSION SPRING  
ZINC-PLATED STEEL MUSIC-WIRE  
OD =  $\phi$ .300  
ID =  $\phi$ .256  
LENGTH = .500 UNSTRETCHED  
SPRING RATE = 6.5 LB/IN  
QTY = 3

13 FLAT HEAD PHILLIPS SCREW  
6-32 UNC  
ZINC-PLATED STEEL  
LENGTH = .500  
QTY = 4

14 PAN HEAD PHILLIPS SCREW  
4-40 UNC  
ZINC-PLATED STEEL  
LENGTH = .875  
QTY = 1

15 PAN HEAD PHILLIPS SCREW  
4-40 UNC  
ZINC-PLATED STEEL  
LENGTH = .4375  
QTY = 2

16 FLAT HEAD PHILLIPS SCREW  
4-40 UNC  
ZINC-PLATED STEEL  
LENGTH = .625  
QTY = 6

17 FLAT HEAD PHILLIPS SCREW  
4-40 UNC  
ZINC-PLATED STEEL  
LENGTH = .1875  
QTY = 1

18 HEX NUT  
4-40 UNC  
ZINC-PLATED STEEL  
QTY = 6



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WITHOUT THE WRITTEN PERMISSION OF  
<INSERT COMPANY NAME HERE> IS  
PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	Columbia SEAS TITLE: STANDARD PARTS SHEET		
		DIMENSIONS ARE IN INCHES TOLERANCES: ANGULAR: MACH ± 0°30' TWO PLACE DECIMAL ± 0.01 THREE PLACE DECIMAL ± 0.005	DRAWN	st3442. ey2319	05/02/2023			
			CHECKED					
			ENG APPR.					
			MFG APPR.					
		INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.5	Q.A.			SIZE DWG. NO. REV A ARITHMETIC TOY		
		MATERIAL	COMMENTS:					
		FINISH						
NEXT ASSY	USED ON							
APPLICATION		DO NOT SCALE DRAWING				SCALE: -	WEIGHT: -	SHEET 14 OF 14

B

A