

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	A-01	Ball Bearing	1
2	A-02	Inverted External Retaining Rings	1
3	A-03	Side-Mount External Retaining Rings	1
4	A-04	TERMINATION BLOCK	1
5	A-05	TUBE CAP	1

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		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±		NAME	DATE
		MATERIAL		DRAWN	
		FINISH		CHECKED	
NEXT ASSY	USED ON			ENG APPR.	
APPLICATION		DO NOT SCALE DRAWING		MFG APPR.	
				Q.A.	
				COMMENTS:	
				SIZE	DWG. NO.
				A	ASSY_A
				SCALE:1:5	WEIGHT:
				REV.	
				SHEET 1 OF 1	

2

1

B

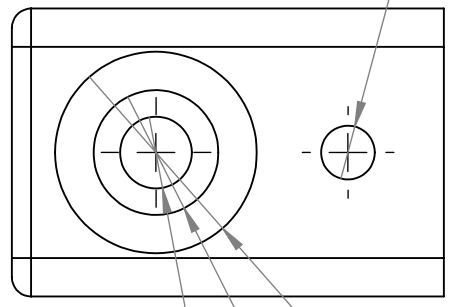
B

R0.20
R0.10

0.10
1.40
1.50
1.70
2.25
2.65
2.68
2.82

$\phi 0.37$
 $\phi 0.65$
1.50

$\phi 0.28$ THRU



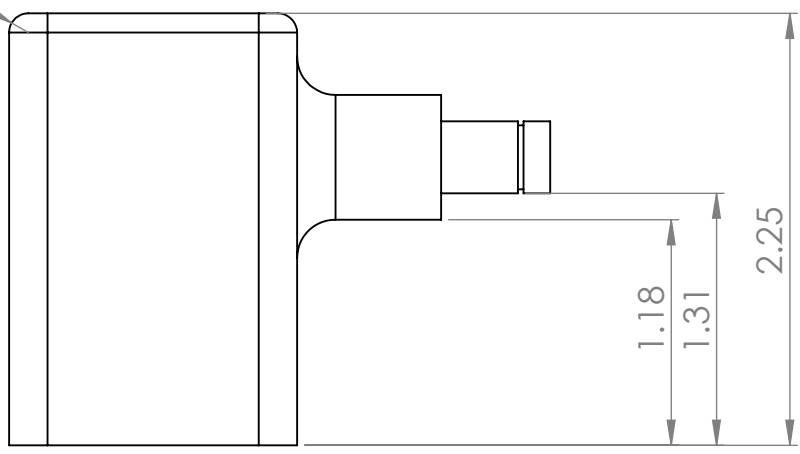
$\phi 1.05$
 $\phi 0.65 \nabla 0.55$
 $\phi 0.33 \nabla 0.17$
 $\phi 0.37 \nabla 0.14$

A

A

R0.10

1.18
1.31
2.25



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			DRAWN		
			CHECKED		
			ENG APPR.		
			MFG APPR.		
			Q.A.		
			COMMENTS:		
NEXT ASSY	USED ON	MATERIAL ONYX WITH CARBON FIBER			
		FINISH			
APPLICATION		DO NOT SCALE DRAWING			

TUBE CAP

SIZE A	DWG. NO. A-05	REV.
SCALE:1:2	WEIGHT:	SHEET 1 OF 1

2

1

2

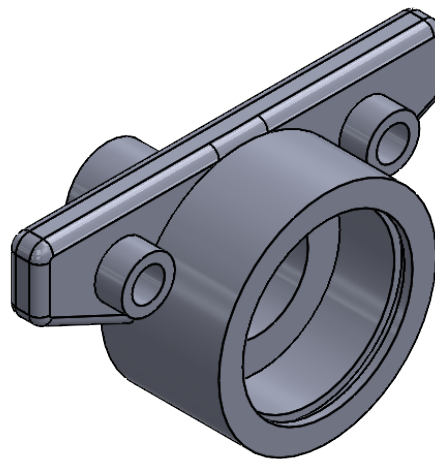
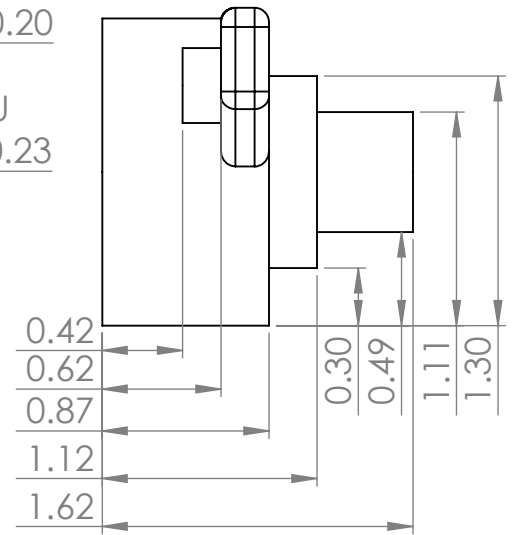
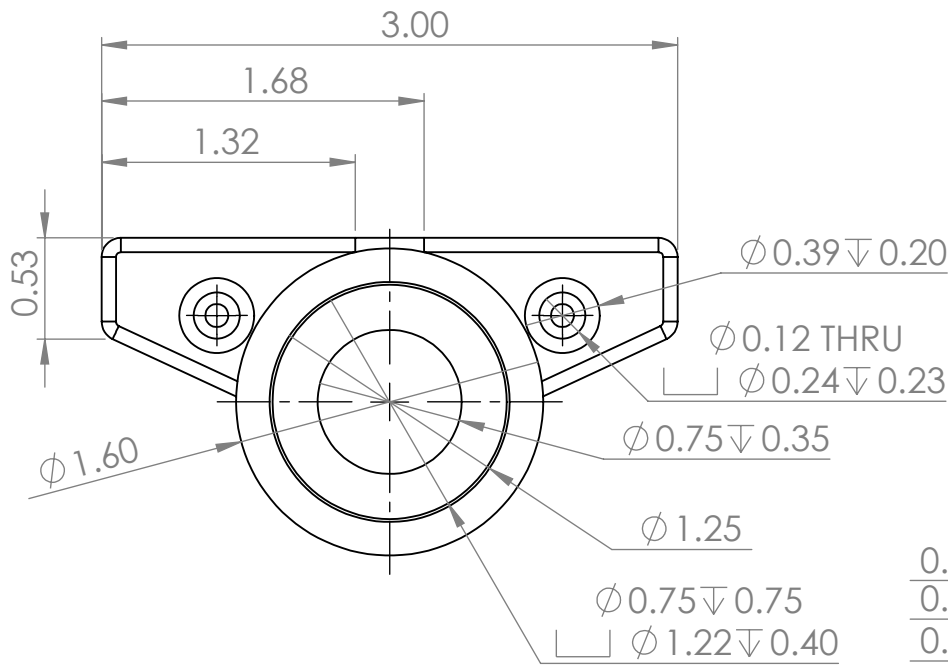
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B

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		MATERIAL ONYX WITH CARBON FIBER		DRAWN	
		FINISH		CHECKED	
NEXT ASSY	USED ON			ENG APPR.	
APPLICATION		DO NOT SCALE DRAWING		MFG APPR.	
				Q.A.	
				COMMENTS:	

TERMINATION BLOCK

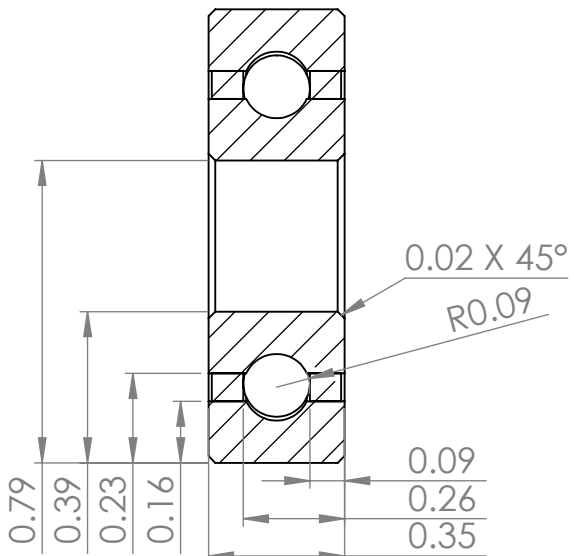
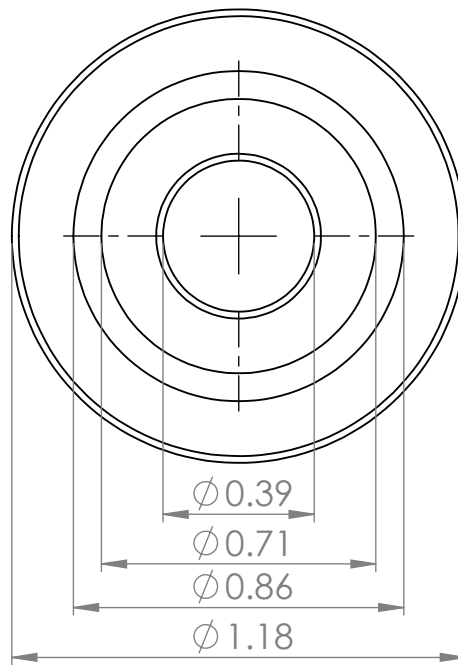
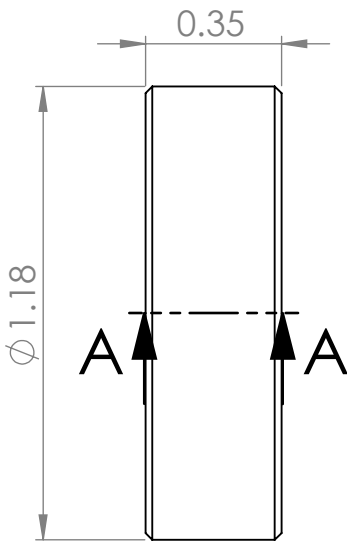
SIZE A	DWG. NO. A-04	REV.
SCALE:1:1	WEIGHT:	SHEET 1 OF 1

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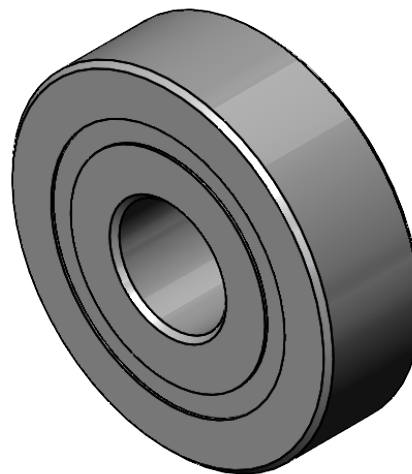
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2

1



SECTION A-A



B

B

A

A

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		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±		NAME	DATE
		MATERIAL N/A		DRAWN	
		FINISH		CHECKED	
NEXT ASSY	USED ON			ENG APPR.	
APPLICATION		DO NOT SCALE DRAWING		MFG APPR.	
				Q.A.	
				COMMENTS:	

Ball Bearing

SIZE	DWG. NO.	REV.
A	A-01	
SCALE:2:1	WEIGHT:	SHEET 1 OF 1

2

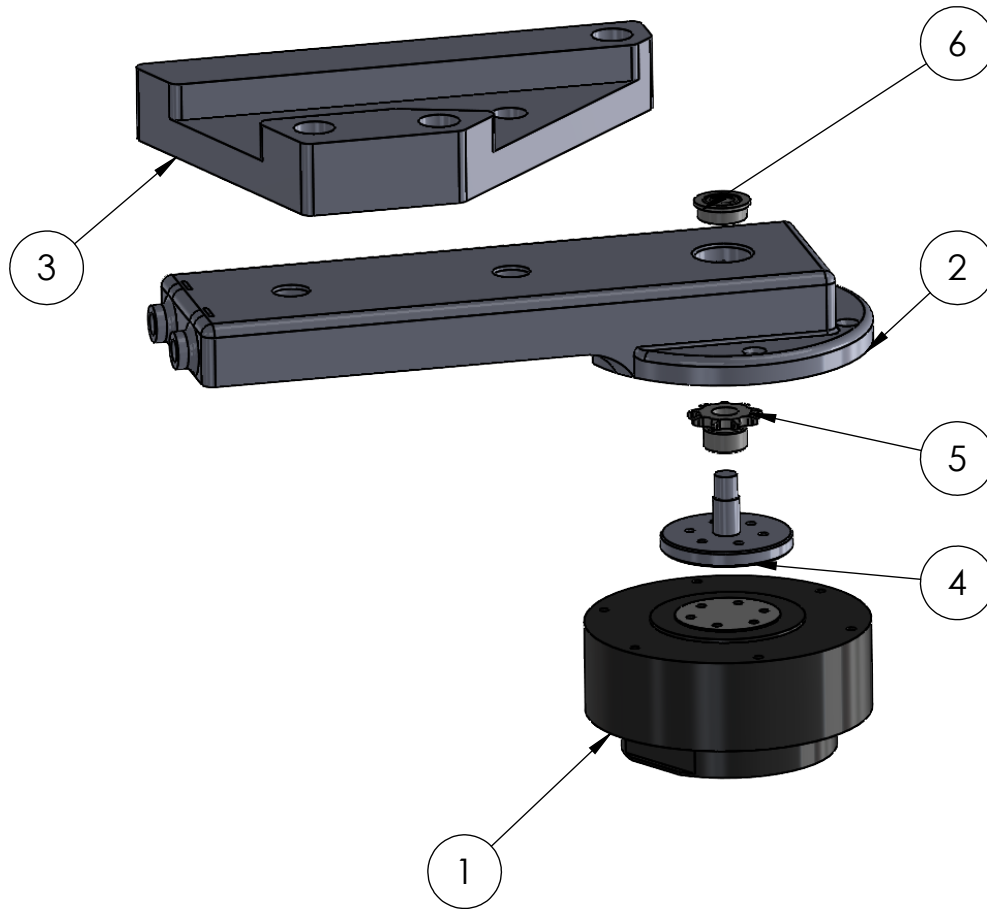
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B

B



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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	B-01	MOTOR AK60-6	1
2	B-02	MOTOR MOUNT	1
3	B-03	MOTOR ADAPTER PLATE	1
4	B-04	SPROCKET PLATE	1
5	B-05	CHAIN SPROCKET 2302K68	1
6	B-06	MOTOR BEARING 780K143	1

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		MATERIAL		DRAWN	
		FINISH		CHECKED	
NEXT ASSY	USED ON			ENG APPR.	
APPLICATION		DO NOT SCALE DRAWING		MFG APPR.	
				Q.A.	
				COMMENTS:	
				SIZE	DWG. NO.
				ASSY_B	
				SCALE:1:2	WEIGHT:
				SHEET 1 OF 1	

2

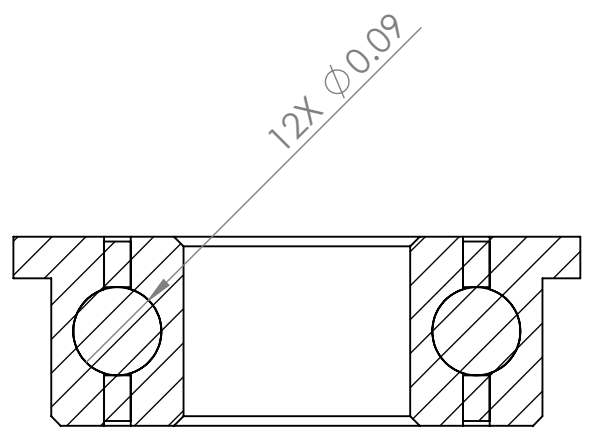
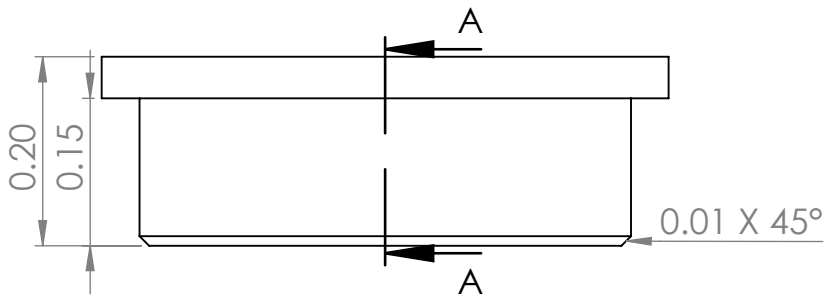
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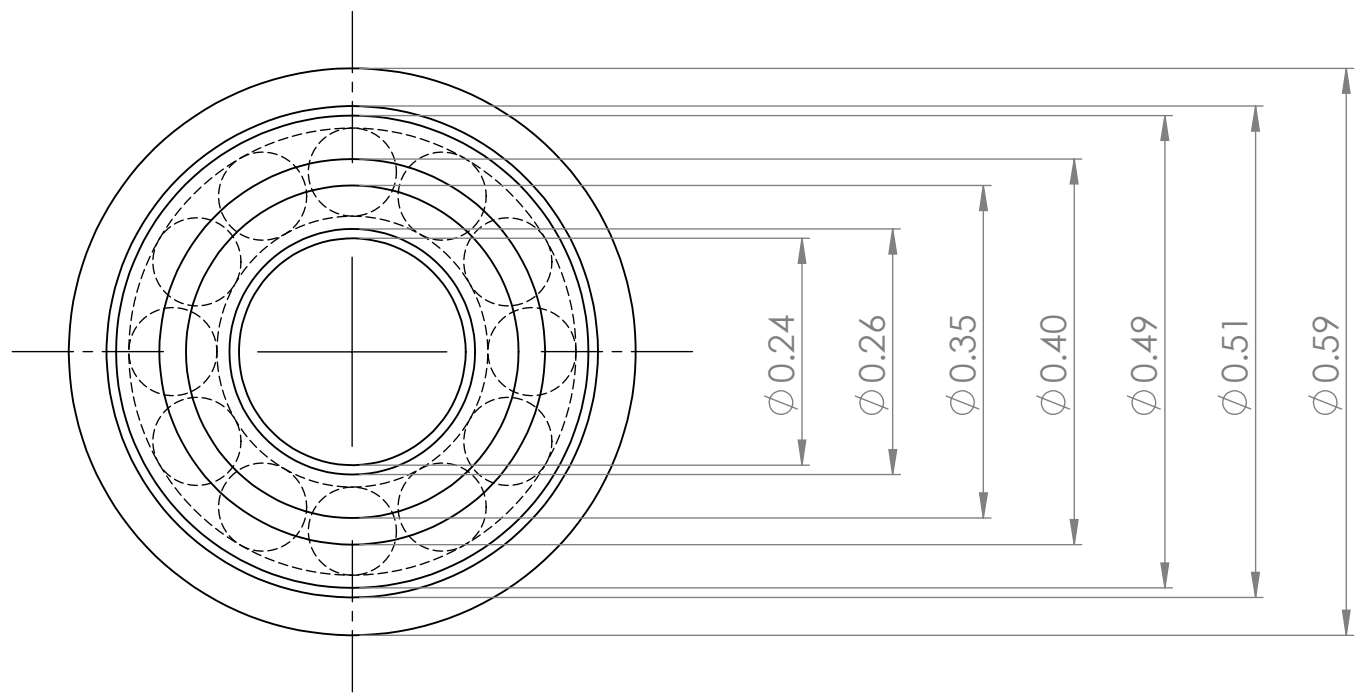
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SECTION A-A

A

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		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±		NAME	DATE
		MATERIAL N/A		DRAWN	
		FINISH		CHECKED	
NEXT ASSY	USED ON			ENG APPR.	
APPLICATION		DO NOT SCALE DRAWING		MFG APPR.	
				Q.A.	
				COMMENTS:	

MOTOR BEARING 780K143

SIZE A	DWG. NO. B-06	REV.
SCALE:5:1	WEIGHT:	SHEET 1 OF 1

2

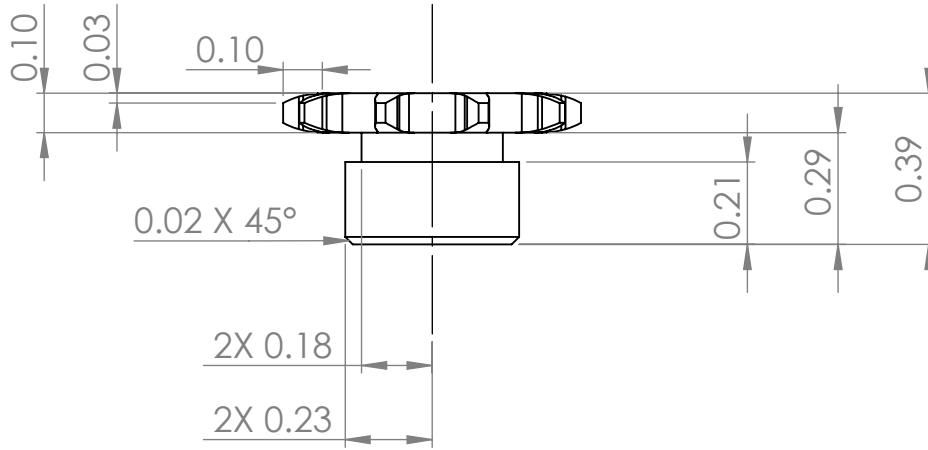
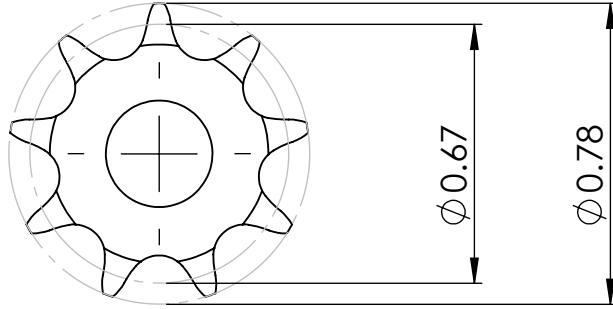
1

2

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B

B



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		DIMENSIONS ARE IN INCHES		NAME	DATE	<h1>CHAIN SPROCKET</h1> <h2>2302k68</h2>
		TOLERANCES:		DRAWN		
		FRACTIONAL ±		CHECKED		
		ANGULAR: MACH ± BEND ±		ENG APPR.		
		TWO PLACE DECIMAL ±		MFG APPR.		
		THREE PLACE DECIMAL ±		Q.A.		
		MATERIAL		COMMENTS:		
		Steel				
NEXT ASSY	USED ON	FINISH				
APPLICATION		DO NOT SCALE DRAWING				
				SIZE	DWG. NO.	REV.
				A	B-05	
				SCALE:2:1	WEIGHT:	SHEET 1 OF 1

2

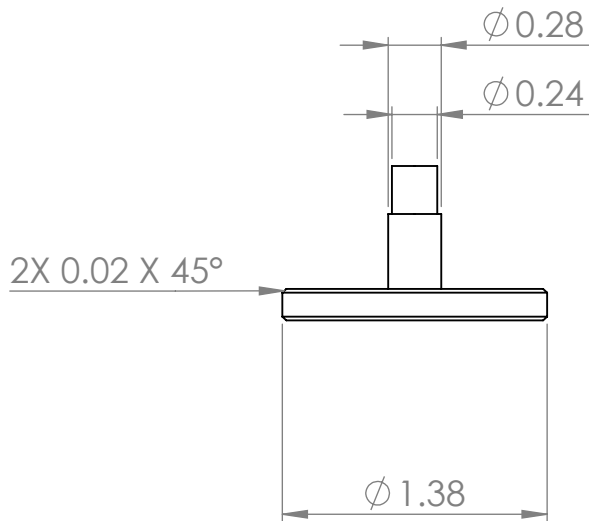
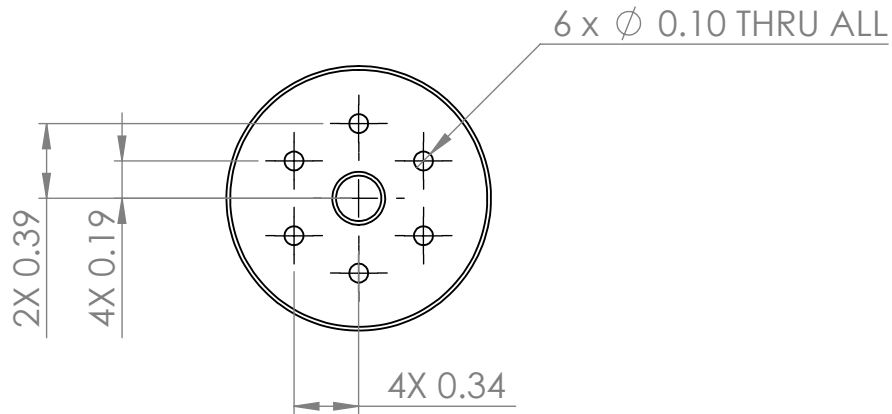
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		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±		NAME	DATE
			DRAWN		
			CHECKED		
			ENG APPR.		
			MFG APPR.		
			Q.A.		
			COMMENTS:		
NEXT ASSY	USED ON	MATERIAL 12114 CARBON STEEL			
		FINISH			
APPLICATION		DO NOT SCALE DRAWING			

SPROCKET PLATE

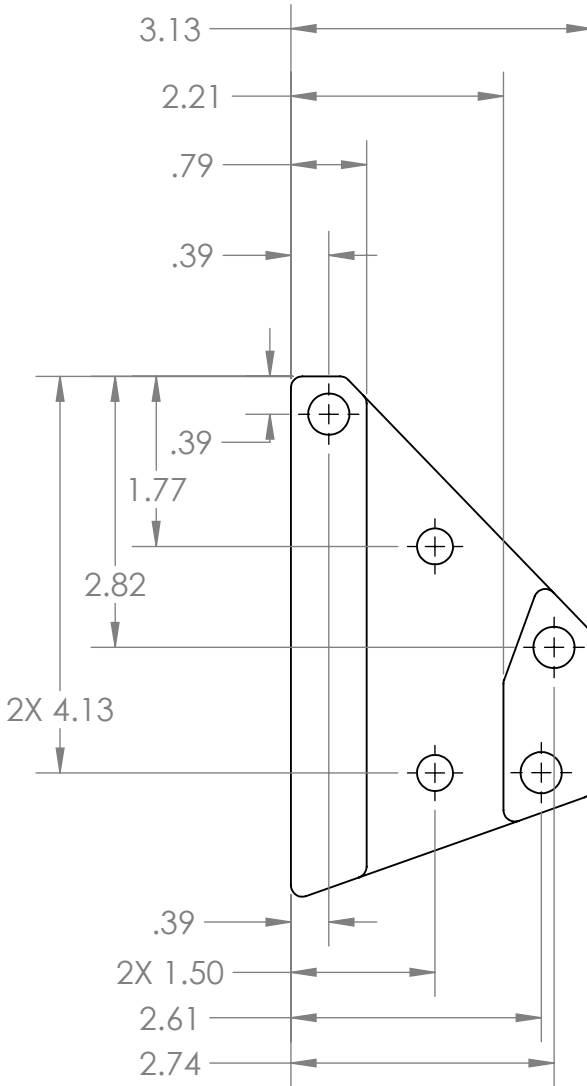
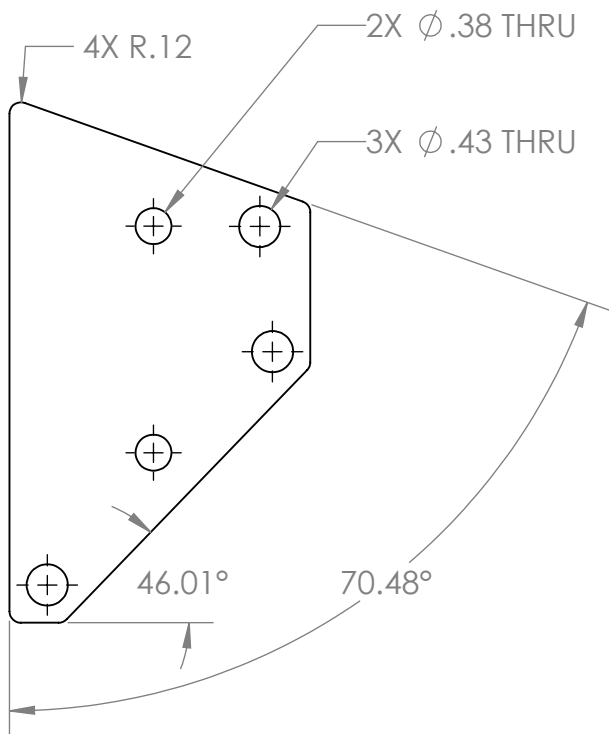
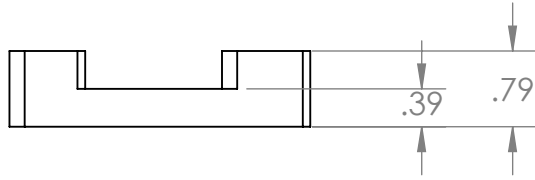
SIZE A	DWG. NO. B-04	REV.
SCALE:1:1	WEIGHT:	SHEET 1 OF 1

2

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1



B

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		DIMENSIONS ARE IN INCHES		NAME	DATE
		TOLERANCES:		DRAWN	
		FRACTIONAL ±		CHECKED	
		ANGULAR: MACH ± BEND ±		ENG APPR.	
		TWO PLACE DECIMAL ±		MFG APPR.	
		THREE PLACE DECIMAL ±		Q.A.	
		MATERIAL		COMMENTS:	
		PLA			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

MOTOR ADAPTER PLATE

SIZE	DWG. NO.	REV.
A	B-03	
SCALE:1:2	WEIGHT:	SHEET 1 OF 1

2

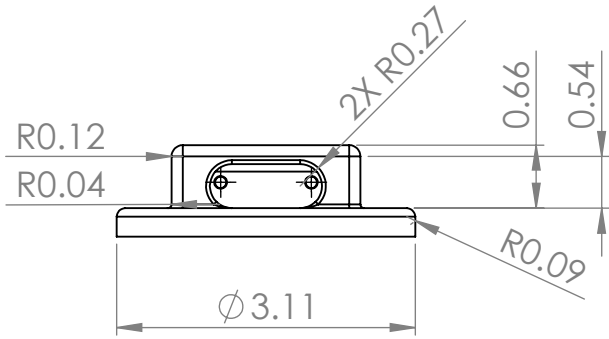
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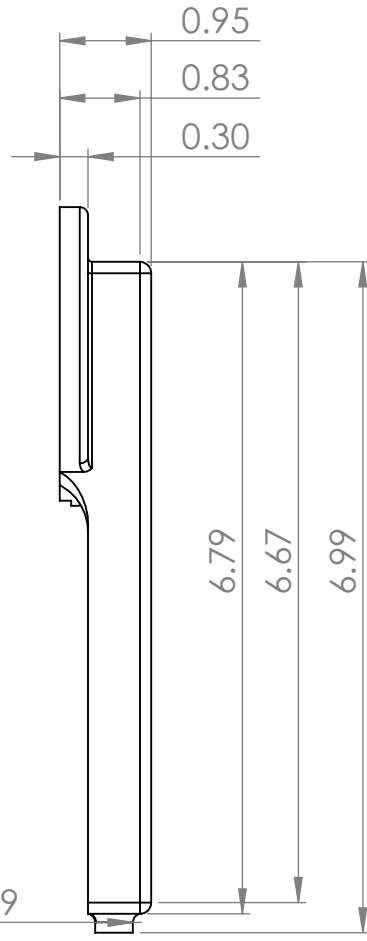
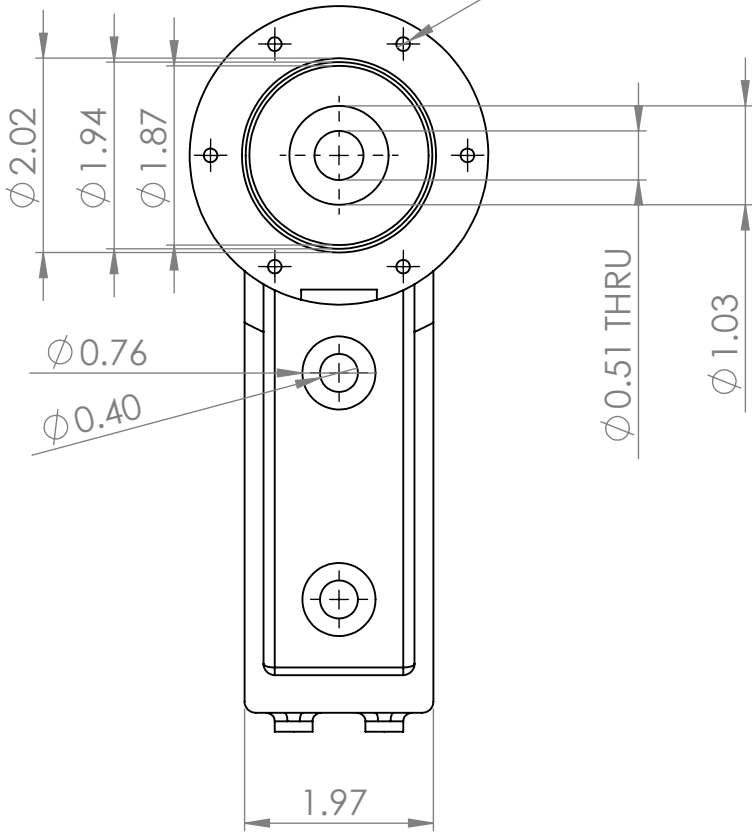
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B

B



6 x ϕ 0.14 THRU
 \surd ϕ 0.25 X 90°



A

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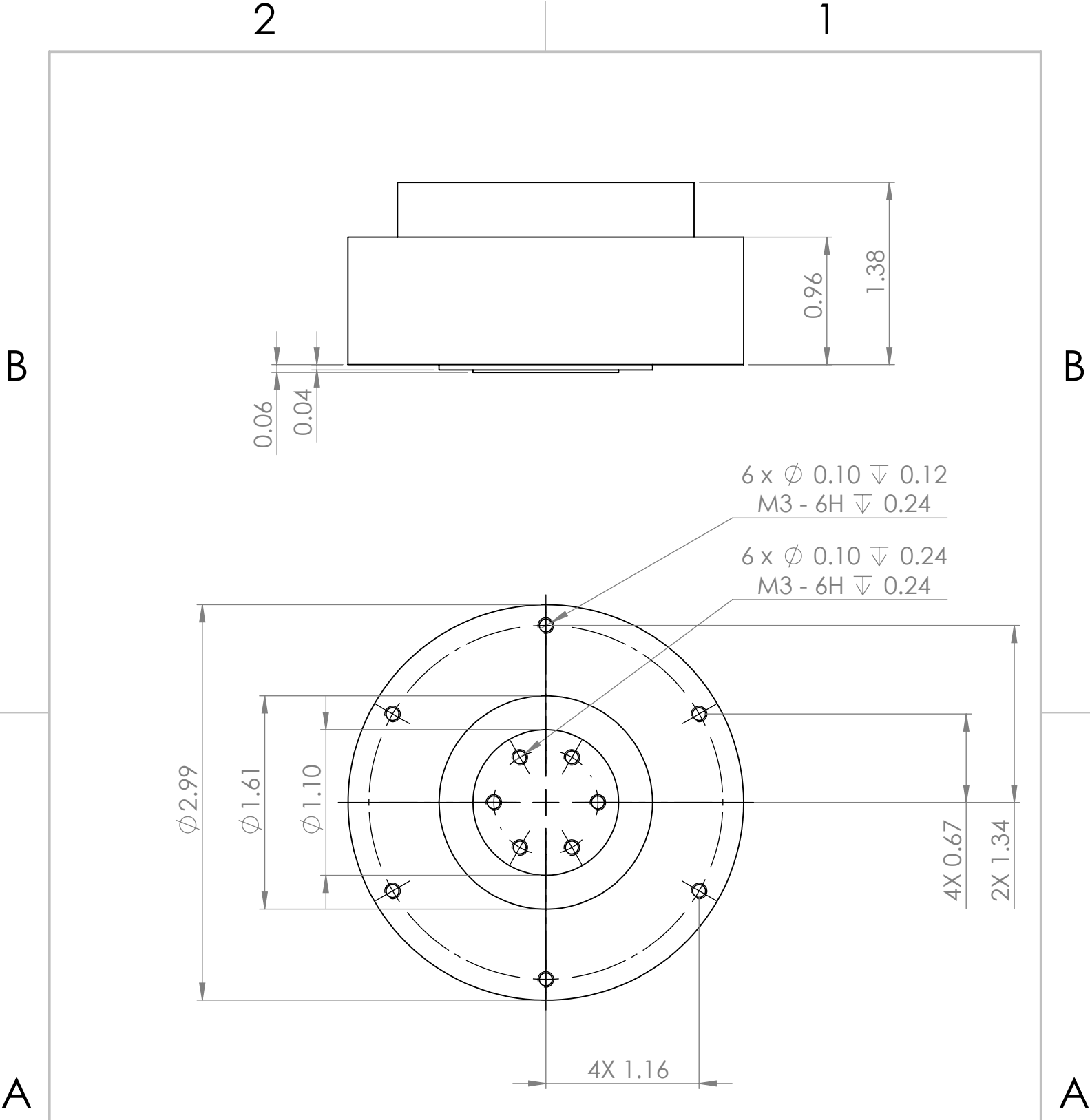
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		FRACTIONAL \pm		CHECKED	
		ANGULAR: MACH \pm BEND \pm		ENG APPR.	
		TWO PLACE DECIMAL \pm		MFG APPR.	
		THREE PLACE DECIMAL \pm		Q.A.	
NEXT ASSY	USED ON	MATERIAL		COMMENTS:	
		PLA			
		FINISH			
APPLICATION		DO NOT SCALE DRAWING			

MOTOR MOUNT

SIZE	DWG. NO.	REV.
A	B-02	
SCALE:1:2	WEIGHT:	SHEET 1 OF 1

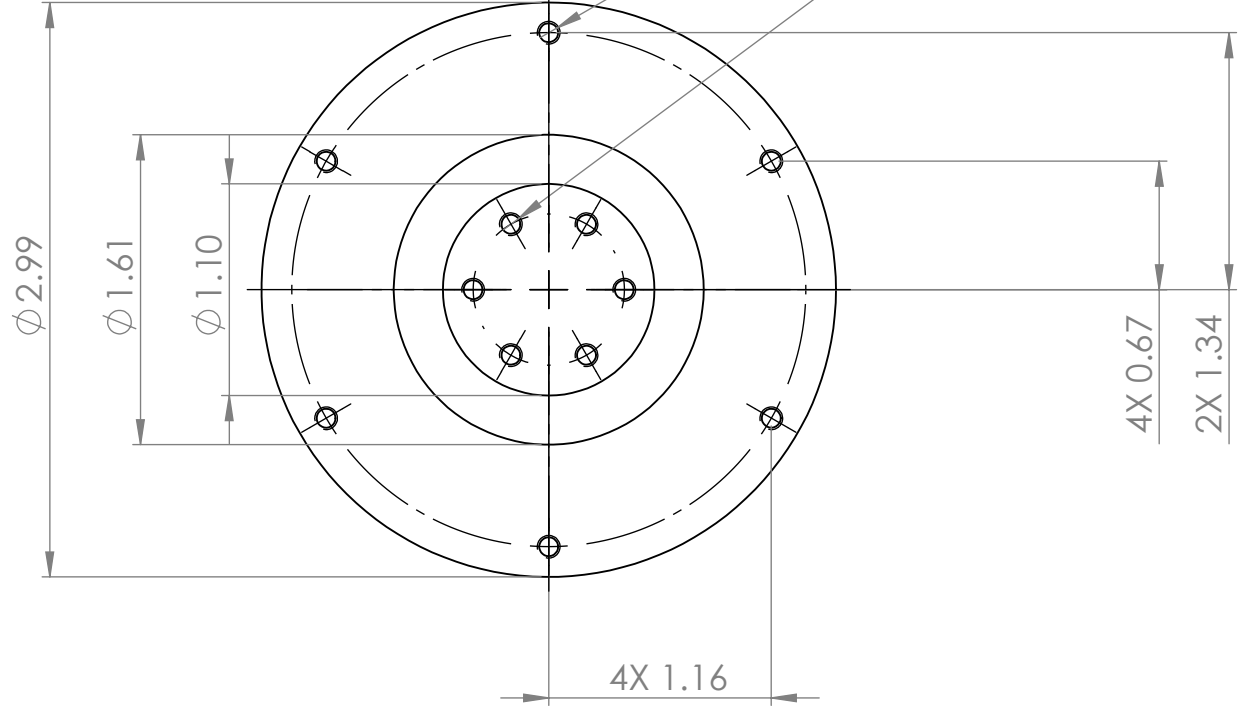
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1



6 x $\phi 0.10 \nabla 0.12$
M3 - 6H $\nabla 0.24$

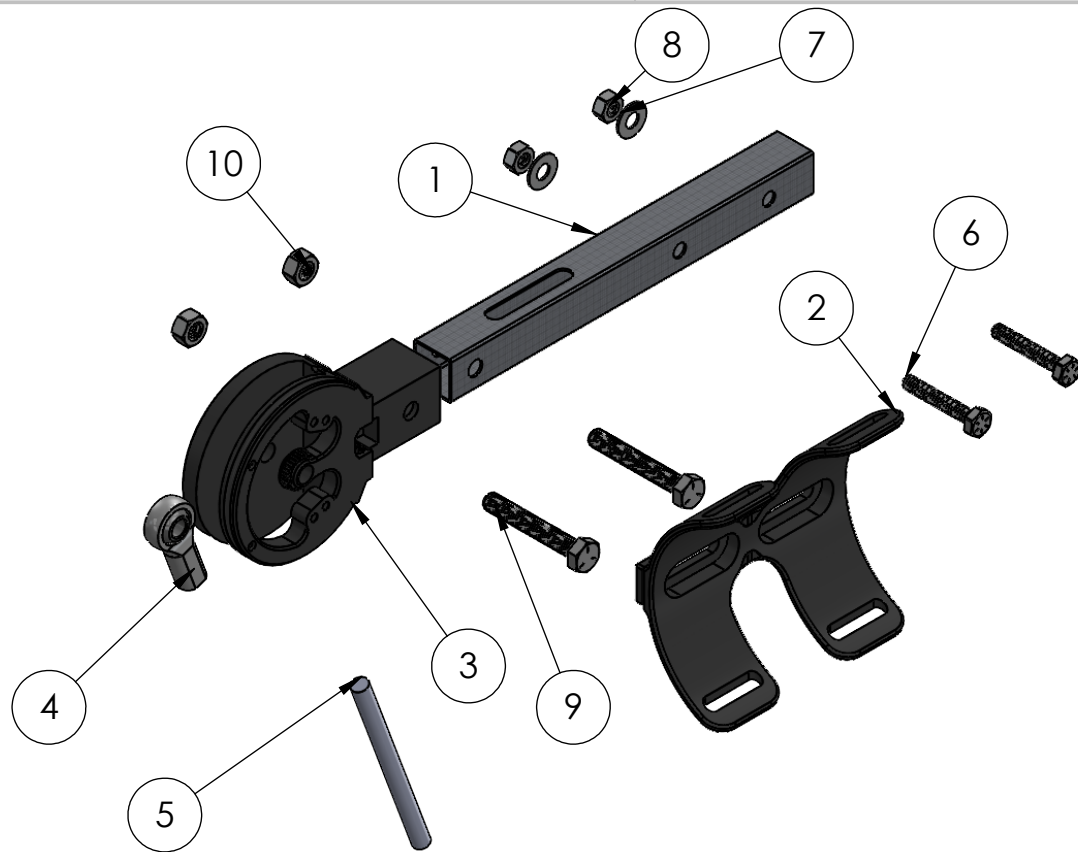
6 x $\phi 0.10 \nabla 0.24$
M3 - 6H $\nabla 0.24$



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		MATERIAL N/A		DRAWN	
		FINISH		CHECKED	
NEXT ASSY	USED ON			ENG APPR.	
APPLICATION		DO NOT SCALE DRAWING		MFG APPR.	
				Q.A.	
				COMMENTS:	

MOTOR_AK60-6			
SIZE A	DWG. NO. B-01	REV.	
SCALE:1:1	WEIGHT:	SHEET 1 OF 1	



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	C-01	Ultra-Strength Lightweight Carbon Fiber Tube	1
2	C-02	ARM CUFF	1
3	C-03	PULLEY	1
4	C-04	ROD END	1
5	C-05	ALLTHREAD	1
6	C-06	HEX BOLT 1/4-20	2
7	C-07	1/4in Steel Washer	2
8	C-08	1/4-20 NUT	2
9	C-09	5/16-20 HEX BOLT	2
10	C-10	5/16-20 HEX BOLT	2

		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±		NAME	DATE
		MATERIAL		DRAWN	
		FINISH		CHECKED	
NEXT ASSY	USED ON			ENG APPR.	
APPLICATION		DO NOT SCALE DRAWING		MFG APPR.	
				Q.A.	
				COMMENTS:	
				SIZE	DWG. NO.
				A	ASSY_C
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				REV.	
				SHEET 1 OF 1	

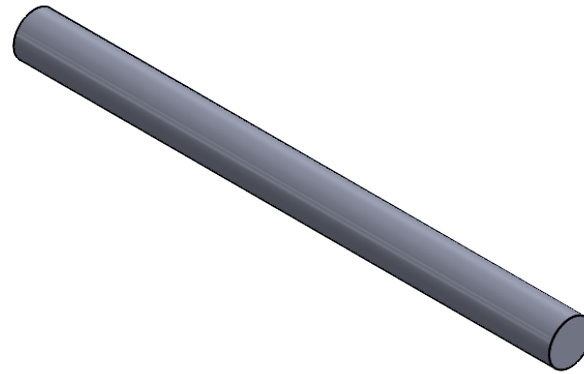
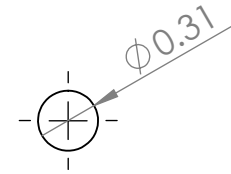
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2

1

B

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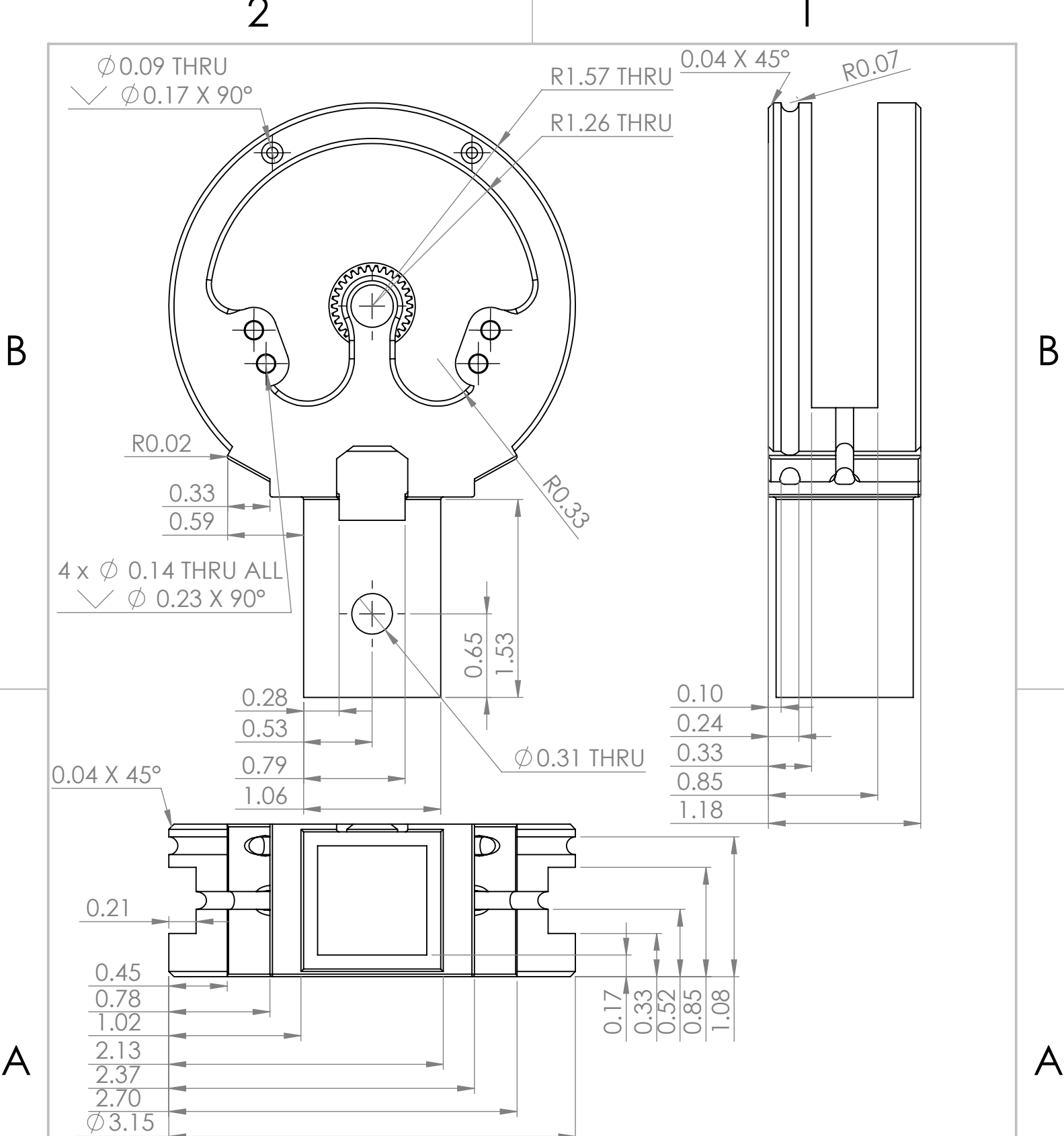
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		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL \pm ANGULAR: MACH \pm BEND \pm TWO PLACE DECIMAL \pm THREE PLACE DECIMAL \pm		NAME	DATE	ALLTHREAD
		MATERIAL		DRAWN		
		STEEL		CHECKED		
		FINISH		ENG APPR.		
				MFG APPR.		
NEXT ASSY	USED ON			Q.A.		
APPLICATION		DO NOT SCALE DRAWING		COMMENTS:		
				SIZE	DWG. NO.	REV.
				A	C-05	
				SCALE:1:1	WEIGHT:	SHEET 1 OF 1

2

1



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		MATERIAL ONYX WITH CARBON FIBER	
NEXT ASSY	USED ON	FINISH	
APPLICATION		DO NOT SCALE DRAWING	

NAME	DATE
DRAWN	
CHECKED	
ENG APPR.	
MFG APPR.	
Q.A.	
COMMENTS:	

PULLEY		
SIZE A	DWG. NO. C-03	REV.
SCALE:1:1	WEIGHT:	SHEET 1 OF 1

2

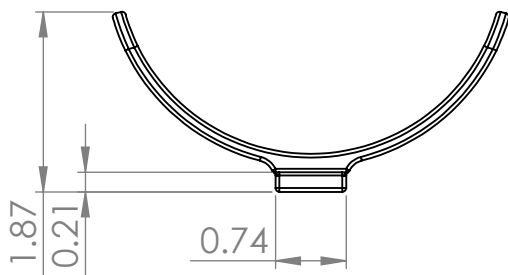
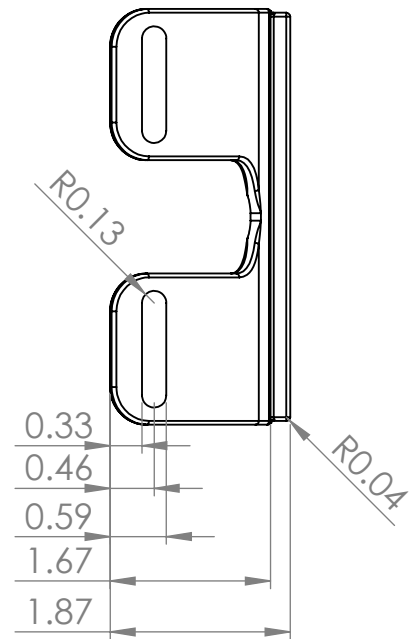
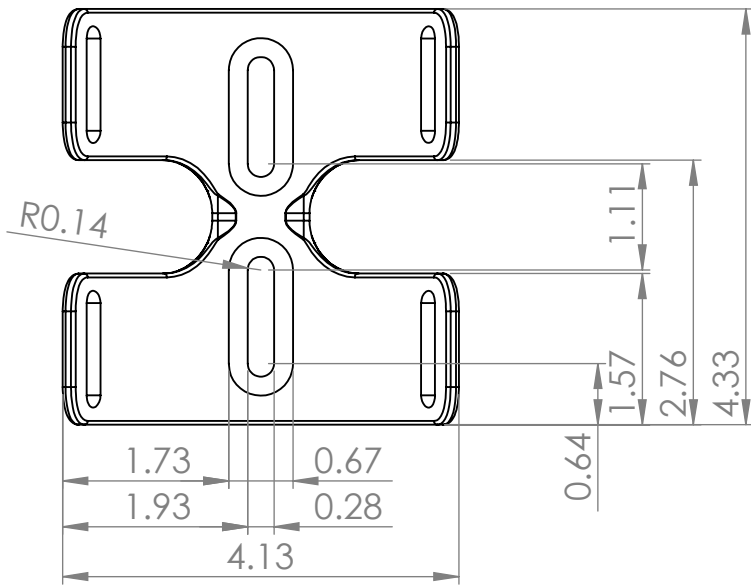
1

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		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±		NAME	DATE
		MATERIAL PLA FILAMENT		DRAWN	
		FINISH		CHECKED	
NEXT ASSY	USED ON			ENG APPR.	
APPLICATION		DO NOT SCALE DRAWING		MFG APPR.	
				Q.A.	
				COMMENTS:	

**ARM
CUFFARM CUFF**

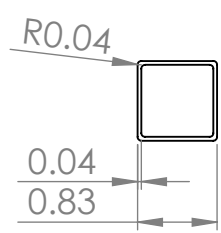
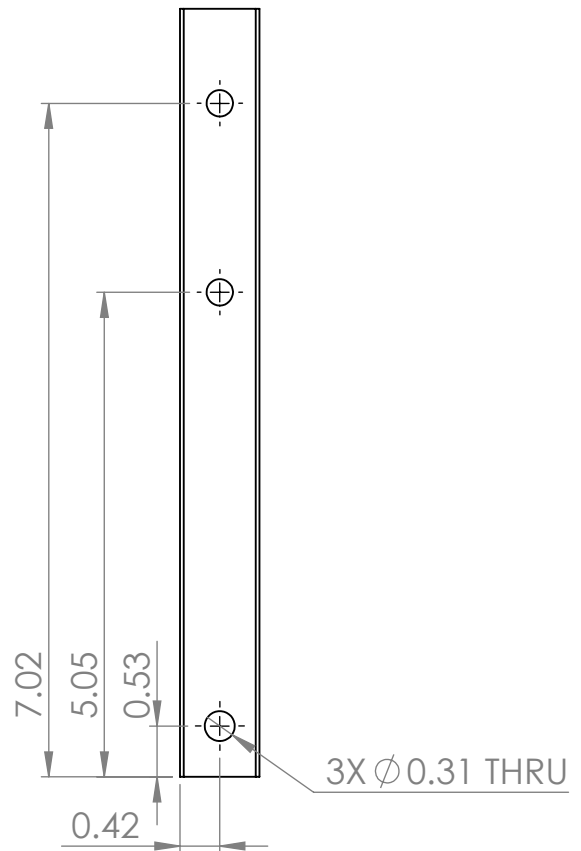
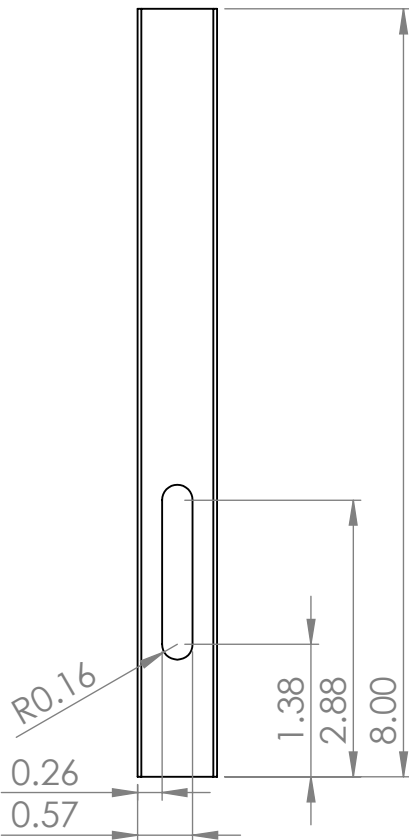
SIZE A	DWG. NO. C-02	REV.
SCALE:1:2	WEIGHT:	SHEET 1 OF 1

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		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL \pm ANGULAR: MACH \pm BEND \pm TWO PLACE DECIMAL \pm THREE PLACE DECIMAL \pm	NAME	DATE
		MATERIAL Carbon Fiber	DRAWN	
		FINISH	CHECKED	
NEXT ASSY	USED ON		ENG APPR.	
			MFG APPR.	
			Q.A.	
APPLICATION	DO NOT SCALE DRAWING		COMMENTS:	

Ultra-Strength Lightweight Carbon Fiber Tube		
SIZE A	DWG. NO. C-01	REV.
SCALE:1:2	WEIGHT:	SHEET 1 OF 1

2

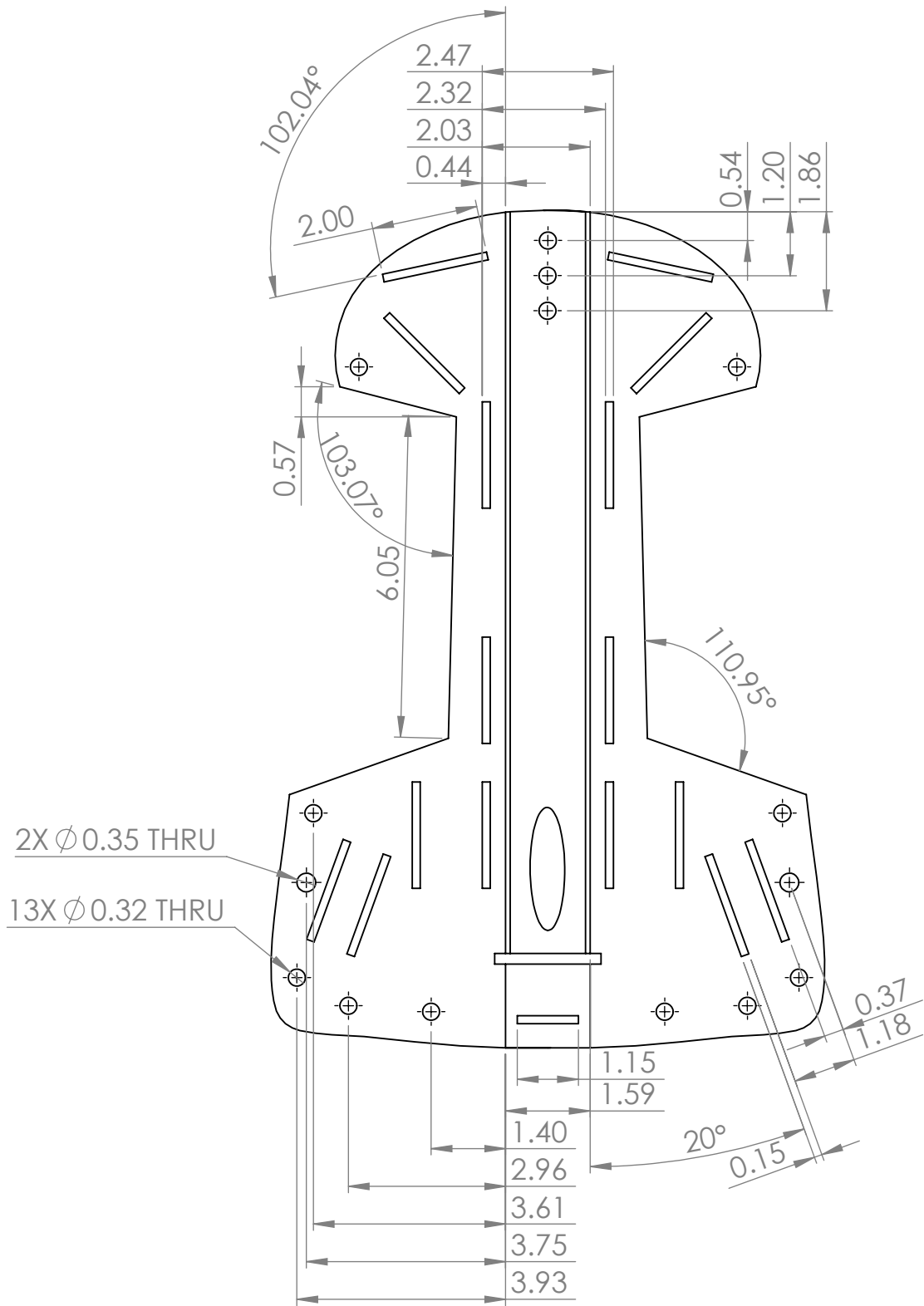
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		DIMENSIONS ARE IN INCHES		NAME	DATE
		TOLERANCES:		DRAWN	
		FRACTIONAL ±		CHECKED	
		ANGULAR: MACH ± BEND ±		ENG APPR.	
		TWO PLACE DECIMAL ±		MFG APPR.	
		THREE PLACE DECIMAL ±		Q.A.	
		MATERIAL		COMMENTS:	
		ALUMINUM			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			
		SIZE	DWG. NO.	REV.	
		A	ScubaPlate		
		SCALE:1:5	WEIGHT:	SHEET 1 OF 1	

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2

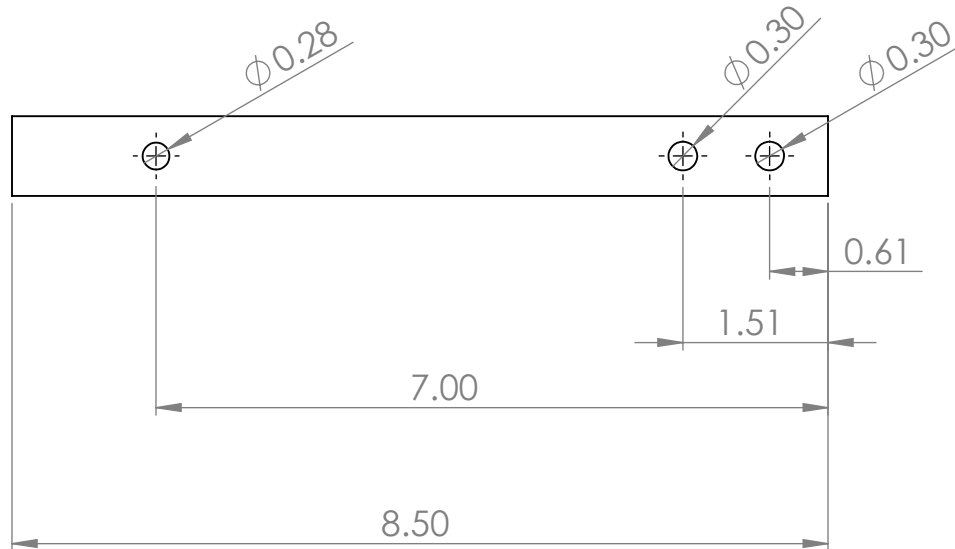
1

2

1

B

B



A

A

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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN		
		TOLERANCES:	CHECKED		
		FRACTIONAL ±	ENG APPR.		
		ANGULAR: MACH ± BEND ±	MFG APPR.		
		TWO PLACE DECIMAL ±	Q.A.		
		THREE PLACE DECIMAL ±	COMMENTS:		
		INTERPRET GEOMETRIC TOLERANCING PER:			
		MATERIAL			
		CARBON FIBER			
		FINISH			
NEXT ASSY	USED ON				
APPLICATION		DO NOT SCALE DRAWING			

TITLE: SHOULDER CARBON FIBER TUBE		
SIZE A	DWG. NO.	REV
SCALE: 1:2	WEIGHT:	SHEET 1 OF 1

2

1