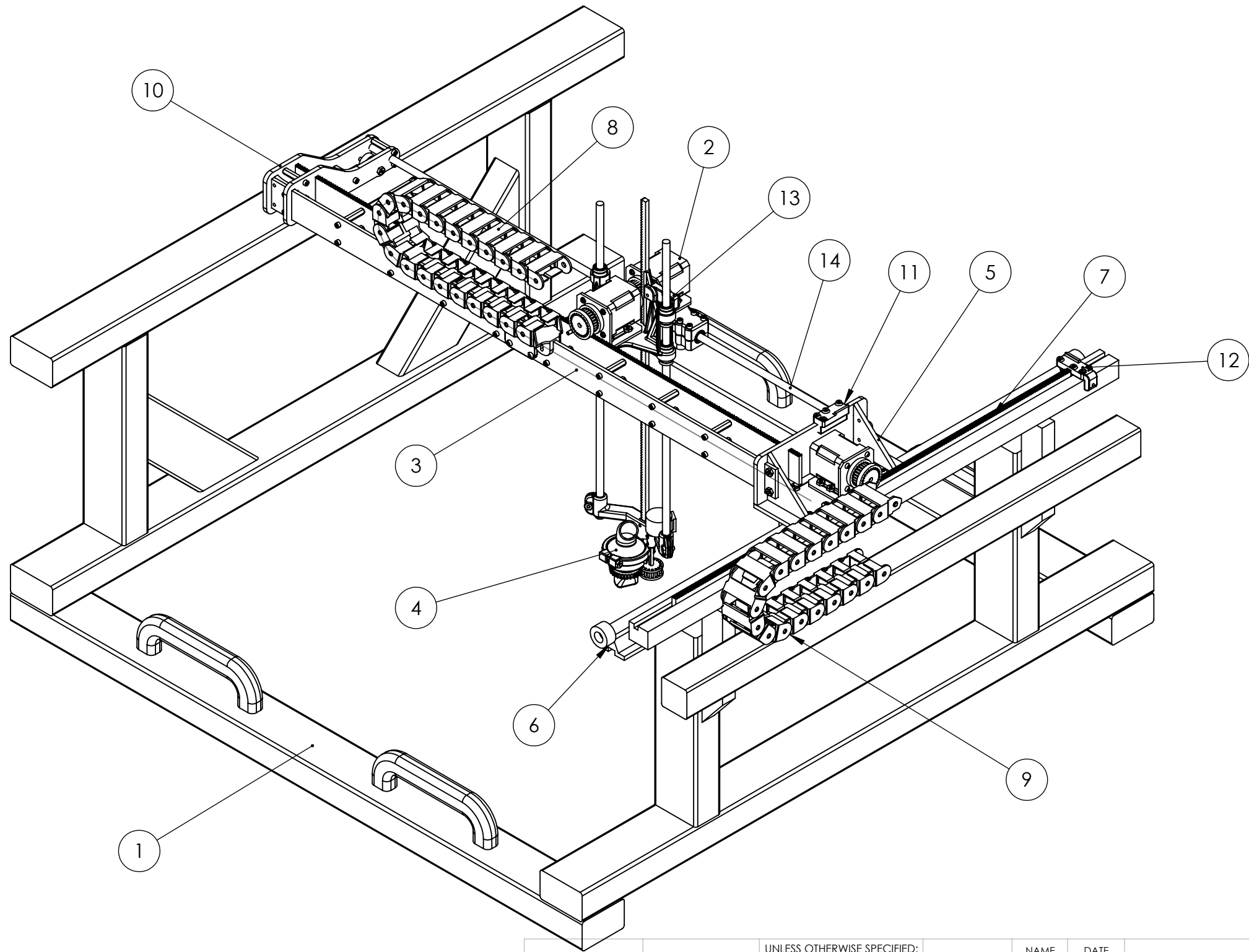


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ITEM NO.	PART NUMBER	QTY.
1	Base Sub Assembly	1
2	Gantry Rider Sub Assembly	1
3	Gantry rack sub asemb	1
4	Nozzel Sub Assembly	1
5	Pillow Block Bracket Sub Assembly	1
6	Danaher Rail Sub Assembly	1
7	Laser cut rack red	1
8	Lobster Chain Top Sub Assembly	1
9	Lobster Chain Botom Sub Assembly	1
10	Free Roller Sub Assembly	1
11	Limit switch x	1
12	Limit switch y	1
13	Limit switch z	1
14	30 in Chrome Plated rod	1

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UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: <b>WMC Drawings</b>	
DIMENSIONS ARE IN INCHES		DRAWN	JEE		3/24
TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±		CHECKED			
INTERPRET GEOMETRIC TOLERANCING PER:		ENG APPR.			
MATERIAL		MFG APPR.			
FINISH		Q.A.			
NEXT ASSY	USED ON	COMMENTS:			
APPLICATION		DO NOT SCALE DRAWING			
SIZE	DWG. NO.	REV			
<b>B</b>	<b>1</b>				
SCALE: 1:12 WEIGHT:			SHEET 1 OF 20		

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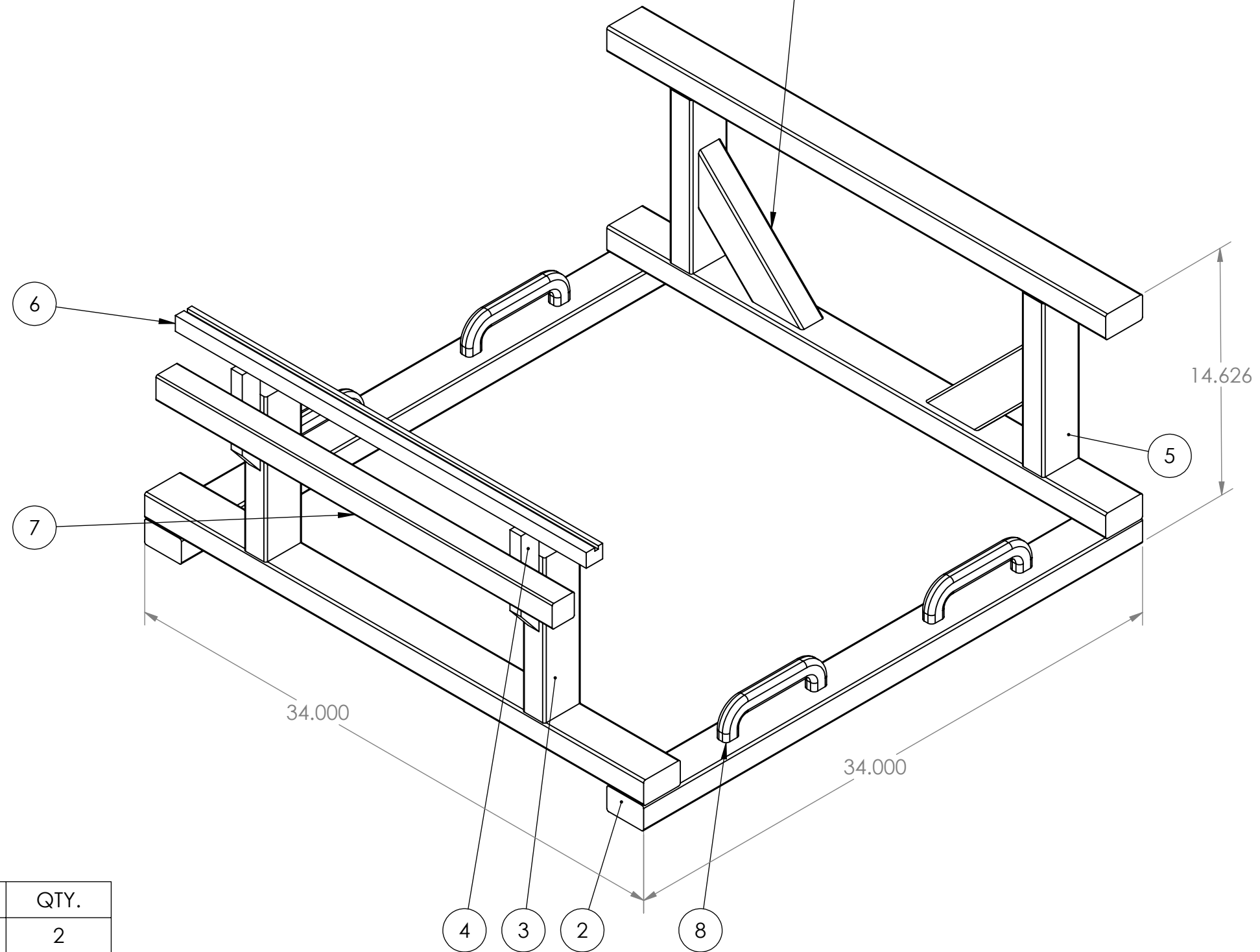
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ITEM NO.	PART NUMBER	QTY.
1	2x4 brace	2
2	Just a 2x4	5
3	smol 2x4	2
4	angle support	2
5	Medium 2x4	2
6	small pine board	1
7	Lobster tail beam	1
8	handle	4

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		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	TITLE: <b>Base Sub Assmb</b>
		DIMENSIONS ARE IN INCHES	DRAWN		
		TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	CHECKED		
		INTERPRET GEOMETRIC TOLERANCING PER:	ENG APPR.		
		MATERIAL	MFG APPR.		SIZE DWG. NO. REV
NEXT ASSY	USED ON	FINISH	COMMENTS:		<b>B</b> <b>2</b>
APPLICATION		DO NOT SCALE DRAWING			SCALE: 1:12 WEIGHT: SHEET 2 OF 20

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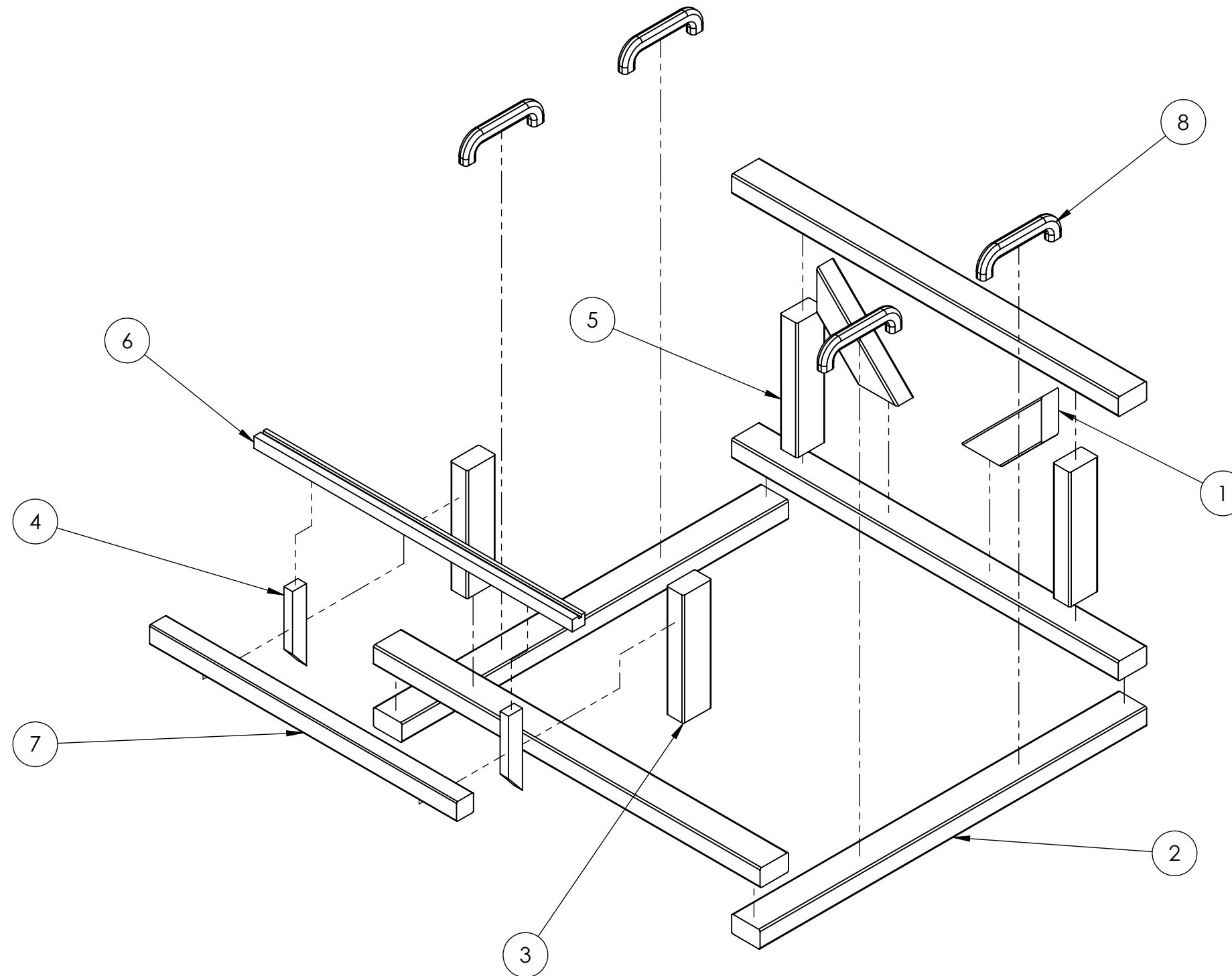
3

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ITEM NO.	PART NUMBER	QTY.
1	2x4 brace	2
2	Just a 2x4	5
3	smol 2x4	2
4	angle support	2
5	Medium 2x4	2
6	small pine board	1
7	Lobster tail beam	1
8	handle	4

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		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	TITLE: <b>Base Sub Assmb</b>
		DIMENSIONS ARE IN INCHES	DRAWN		
		TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	CHECKED		
		INTERPRET GEOMETRIC TOLERANCING PER:	ENG APPR.		
NEXT ASSY	USED ON	MATERIAL	MFG APPR.		Q.A.
APPLICATION		FINISH	COMMENTS:		SIZE <b>B</b>
		DO NOT SCALE DRAWING			DWG. NO. <b>3</b>
					REV
					SCALE: 1:12 WEIGHT:
					SHEET 3 OF 20

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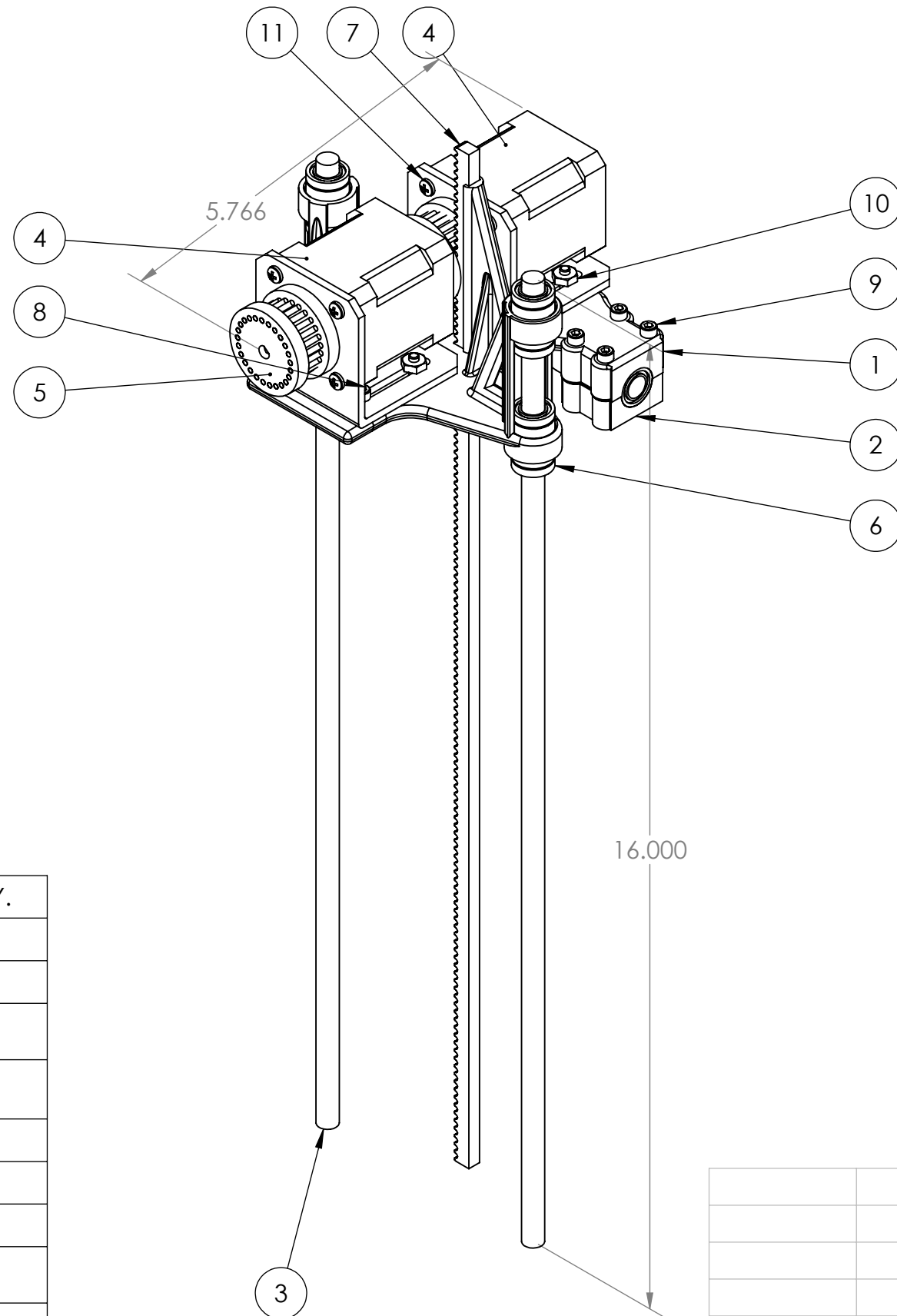
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ITEM NO.	PART NUMBER	QTY.
1	Plate test 2	1
2	Bearing Lock Plate	2
3	406 mm Chrome Plated rod	2
4	Nema 17 Stepper motor	2
5	Pinion Sub Assembly	2
6	8 mm Linear bearing	6
7	Z Axis Rack	1
8	HX-SHCS 0.138-40x0.5x0.5-N	8
9	HX-SHCS 0.138-40x1x1-N	8
10	MSHXNUT 0.138-40-S-N	8
11	CR-PHMS 0.125-44x0.125x0.125-N	8

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		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	TITLE: <h1>Gantry Rider Sub Assmebly</h1>
		DIMENSIONS ARE IN INCHES	DRAWN		
		TOLERANCES:	CHECKED		
		FRACTIONAL ±	ENG APPR.		
		ANGULAR: MACH ± BEND ±	MFG APPR.		
		TWO PLACE DECIMAL ±	Q.A.		SIZE DWG. NO. REV
		THREE PLACE DECIMAL ±	COMMENTS:		<b>B</b> <b>4</b>
		INTERPRET GEOMETRIC TOLERANCING PER:			SCALE: 1:4 WEIGHT: SHEET 4 OF 20
		MATERIAL			
		FINISH			
NEXT ASSY	USED ON	APPLICATION			
		DO NOT SCALE DRAWING			

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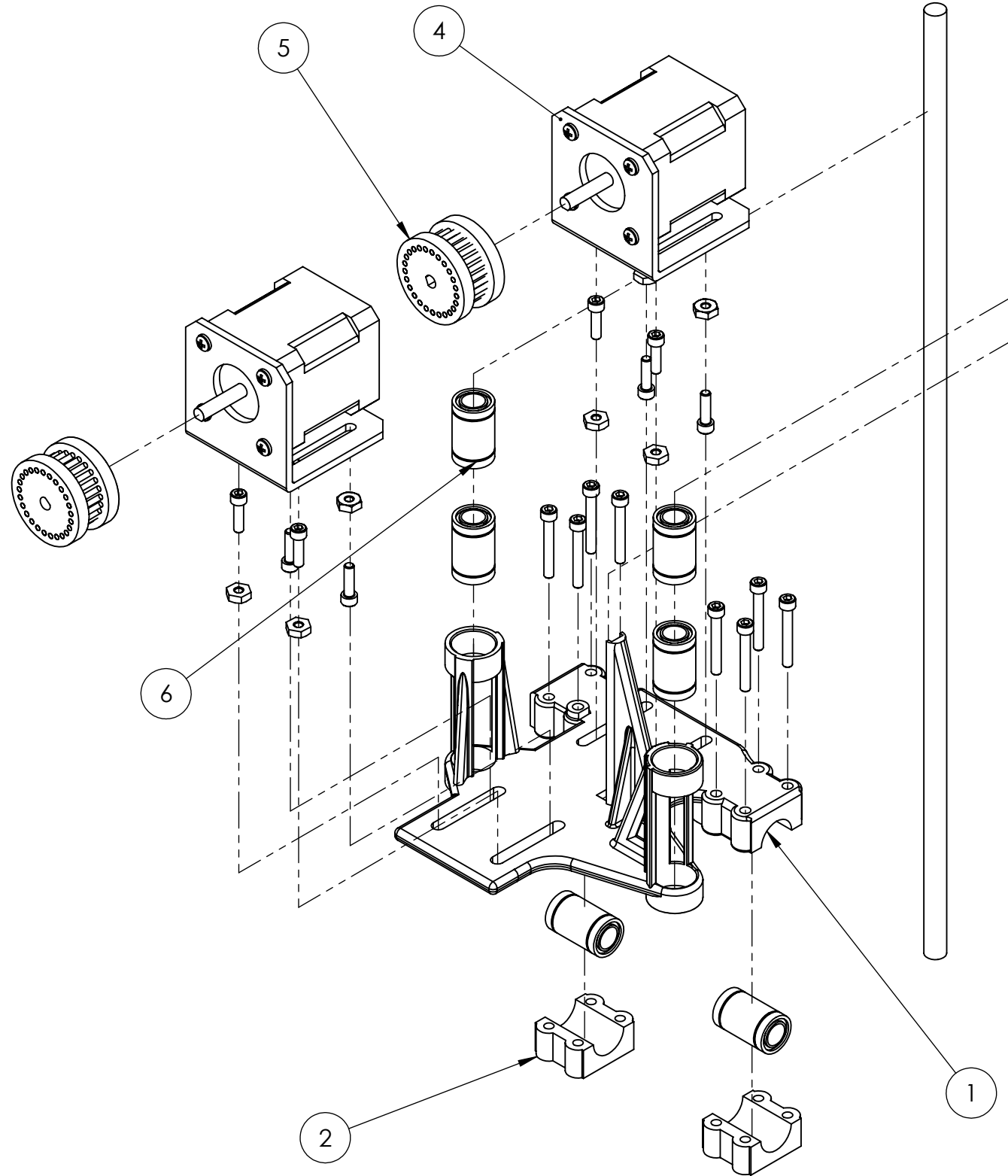
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ITEM NO.	PART NUMBER	QTY.
1	Plate test 2	1
2	Bearing Lock Plate	2
3	406 mm Chrome Plated rod	2
4	Nema 17 Stepper motor	2
5	Pinion Sub Assembly	2
6	8 mm Linear bearing	6
7	Z Axis Rack	1
8	HX-SHCS 0.138-40x0.5x0.5-N	8
9	HX-SHCS 0.138-40x1x1-N	8
10	MSHXNUT 0.138-40-S-N	8
11	CR-PHMS 0.125-44x0.125x0.125-N	8

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		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	TITLE: <b>Gantry Rider Sub Assmably</b>
		DIMENSIONS ARE IN INCHES	DRAWN		
		TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	CHECKED		
		INTERPRET GEOMETRIC TOLERANCING PER:	ENG APPR.		
		MATERIAL	MFG APPR.		Q.A.
		FINISH	COMMENTS:		
NEXT ASSY	USED ON	APPLICATION			SIZE <b>B</b> DWG. NO. <b>5</b> REV
		DO NOT SCALE DRAWING	SCALE: 1:8 WEIGHT:		SHEET 5 OF 20

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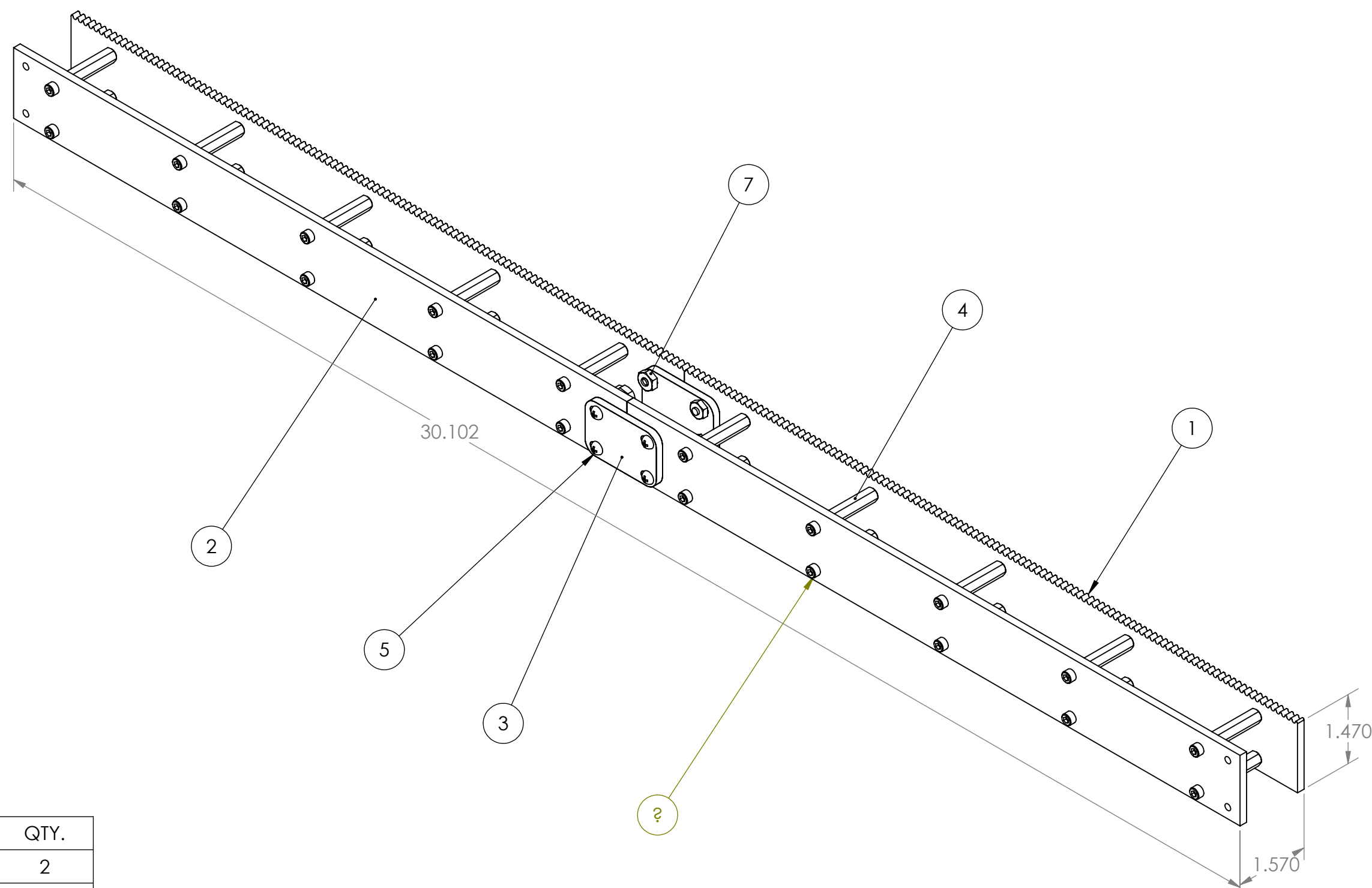
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ITEM NO.	PART NUMBER	QTY.
1	Rack for x axis	2
2	support plate	2
3	pastic affixment	4
4	Aluminum Standoff	20
5	CR-RHMS 0.138-40x0.625x0.625-N	8
6	MSHXNUT 0.138-40-S-N	4
7	MSHXNUT 0.164-32-S-N	4
8	HX-SHCS 0.138-40x0.375x0.375-N	40

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		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	<b>TITLE:</b> <h1>Gantry Rack Sub Assembly</h1>
		DIMENSIONS ARE IN INCHES	DRAWN		
		TOLERANCES:	CHECKED		
		FRACTIONAL ±	ENG APPR.		
		ANGULAR: MACH ± BEND ±	MFG APPR.		
		TWO PLACE DECIMAL ±	Q.A.		<b>SIZE</b> DWG. NO. <b>REV</b> <b>B</b> <b>6</b>
		THREE PLACE DECIMAL ±	COMMENTS:		
		INTERPRET GEOMETRIC TOLERANCING PER:			SCALE: 1:4
		MATERIAL			WEIGHT:
NEXT ASSY	USED ON	FINISH			SHEET 6 OF 20
APPLICATION		DO NOT SCALE DRAWING			

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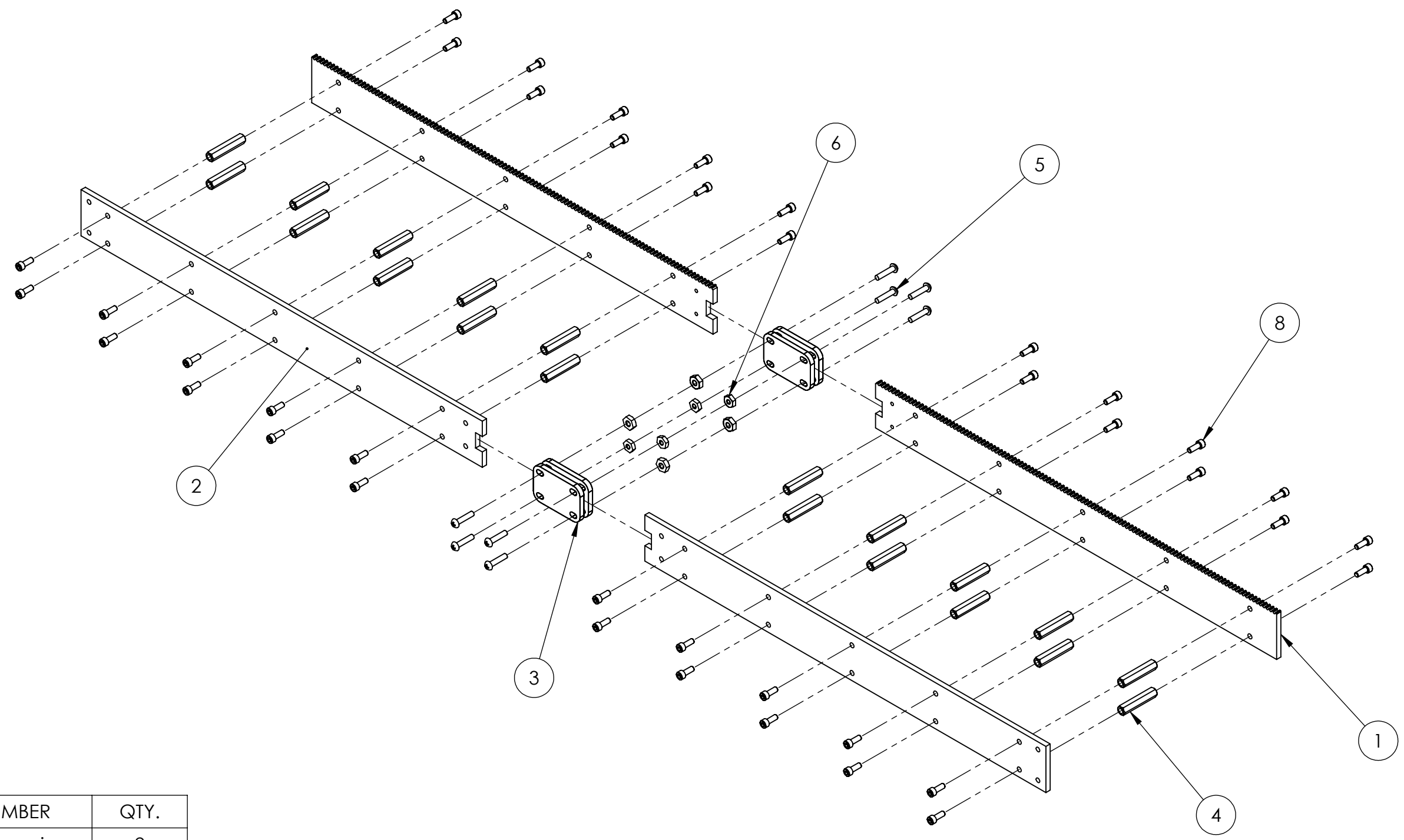
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ITEM NO.	PART NUMBER	QTY.
1	Rack for x axis	2
2	support plate	2
3	pastic affixment	4
4	Aluminum Standoff	20
5	CR-RHMS 0.138-40x0.625x0.625-N	8
6	MSHXNUT 0.138-40-S-N	4
7	MSHXNUT 0.164-32-S-N	4
8	HX-SHCS 0.138-40x0.375x0.375-N	40

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		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	TITLE: <h1>Gantry Rack Sub Assembly</h1>
		DIMENSIONS ARE IN INCHES	DRAWN		
		TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	CHECKED		
		INTERPRET GEOMETRIC TOLERANCING PER:	ENG APPR.		
		MATERIAL	MFG APPR.		
NEXT ASSY	USED ON	FINISH	Q.A.		SIZE
APPLICATION		DO NOT SCALE DRAWING	COMMENTS:		DWG. NO.
					7
					REV
					SCALE: 1:8
					WEIGHT:
					SHEET 7 OF 20

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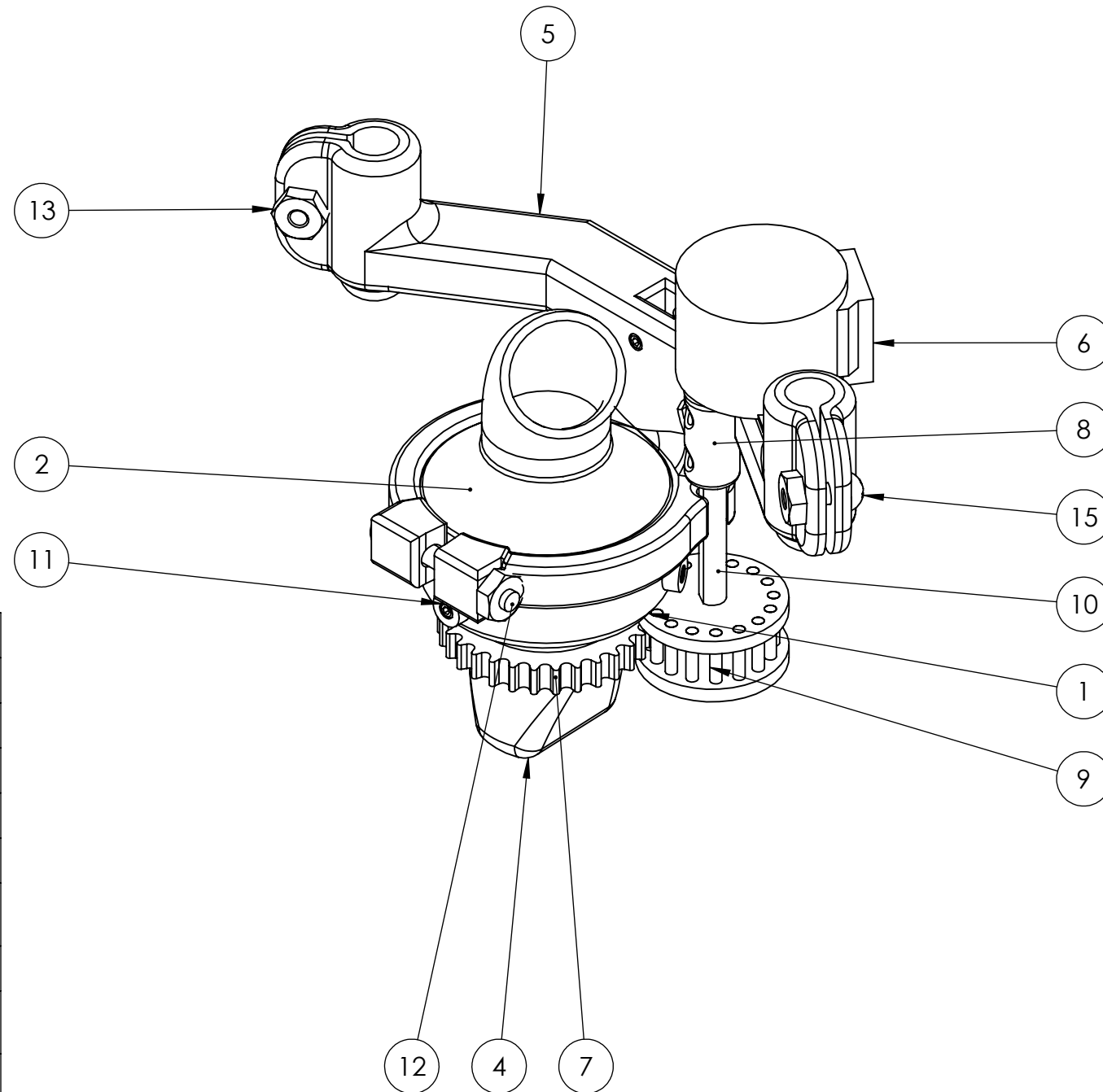
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ITEM NO.	PART NUMBER	QTY.
1	Half Inch Bearing	1
2	Bearing Sheild	1
3	Bearing Insert	1
4	Rectangular Nozzel	1
5	Z axis holder	1
6	28BYJ-48 Stepper Motor	1
7	4th Axis Gear	1
8	4th Axis Motor Adapter	1
9	4th Axis Pinion Sub Assembly	1
10	short tetrix axel	1
11	SSFLATSKT 0.112-48x0.125-HX-N	5
12	CR-RHMS 0.138-40x1.125x1.125-N	1
13	MSHXNUT 0.138-40-S-N	5
14	CR-RHMS 0.138-40x0.625x0.625-N	2
15	CR-RHMS 0.138-40x0.375x0.375-N	2

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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±		DRAWN	
		INTERPRET GEOMETRIC TOLERANCING PER:		CHECKED	
		MATERIAL		ENG APPR.	
		FINISH		MFG APPR.	
NEXT ASSY	USED ON			Q.A.	
APPLICATION		DO NOT SCALE DRAWING		COMMENTS:	
				TITLE: <b>Nozzel Sub Assembly</b>	
		SIZE <b>B</b>	DWG. NO. <b>8</b>	REV	
		SCALE: 1:2 WEIGHT:		SHEET 8 OF 20	

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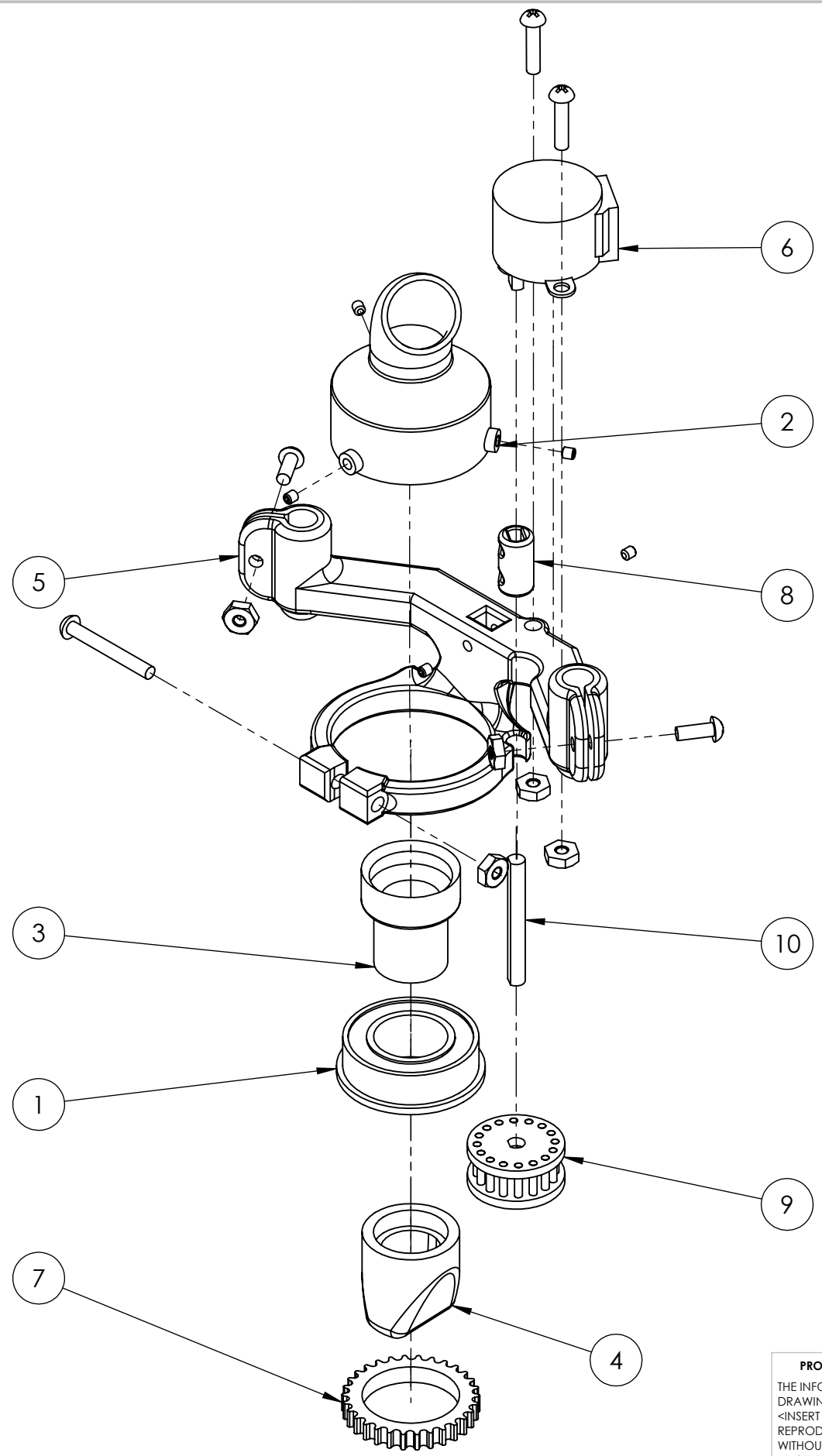
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ITEM NO.	PART NUMBER	QTY.
1	Half Inch Bearing	1
2	Bearing Sheild	1
3	Bearing Insert	1
4	Rectangular Nozzel	1
5	Z axis holder	1
6	28BYJ-48 Stepper Motor	1
7	4th Axis Gear	1
8	4th Axis Motor Adapter	1
9	4th Axis Pinion Sub Assembly	1
10	short tetrix axel	1
11	SSFLATSKT 0.112-48x0.125-HX-N	5
12	CR-RHMS 0.138-40x1.125x1.125-N	1
13	MSHXNUT 0.138-40-S-N	5
14	CR-RHMS 0.138-40x0.625x0.625-N	2
15	CR-RHMS 0.138-40x0.375x0.375-N	2

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		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	TITLE: <h1>Nozzel Sub Assembly</h1>
		DIMENSIONS ARE IN INCHES	DRAWN		
		TOLERANCES:	CHECKED		
		FRACTIONAL ±	ENG APPR.		
		ANGULAR: MACH ± BEND ±	MFG APPR.		
		TWO PLACE DECIMAL ±	Q.A.		SIZE DWG. NO. REV
		THREE PLACE DECIMAL ±	COMMENTS:		<b>B</b> <b>9</b>
NEXT ASSY	USED ON	MATERIAL			SCALE: 1:4 WEIGHT: SHEET 9 OF 20
		FINISH			
APPLICATION		DO NOT SCALE DRAWING			

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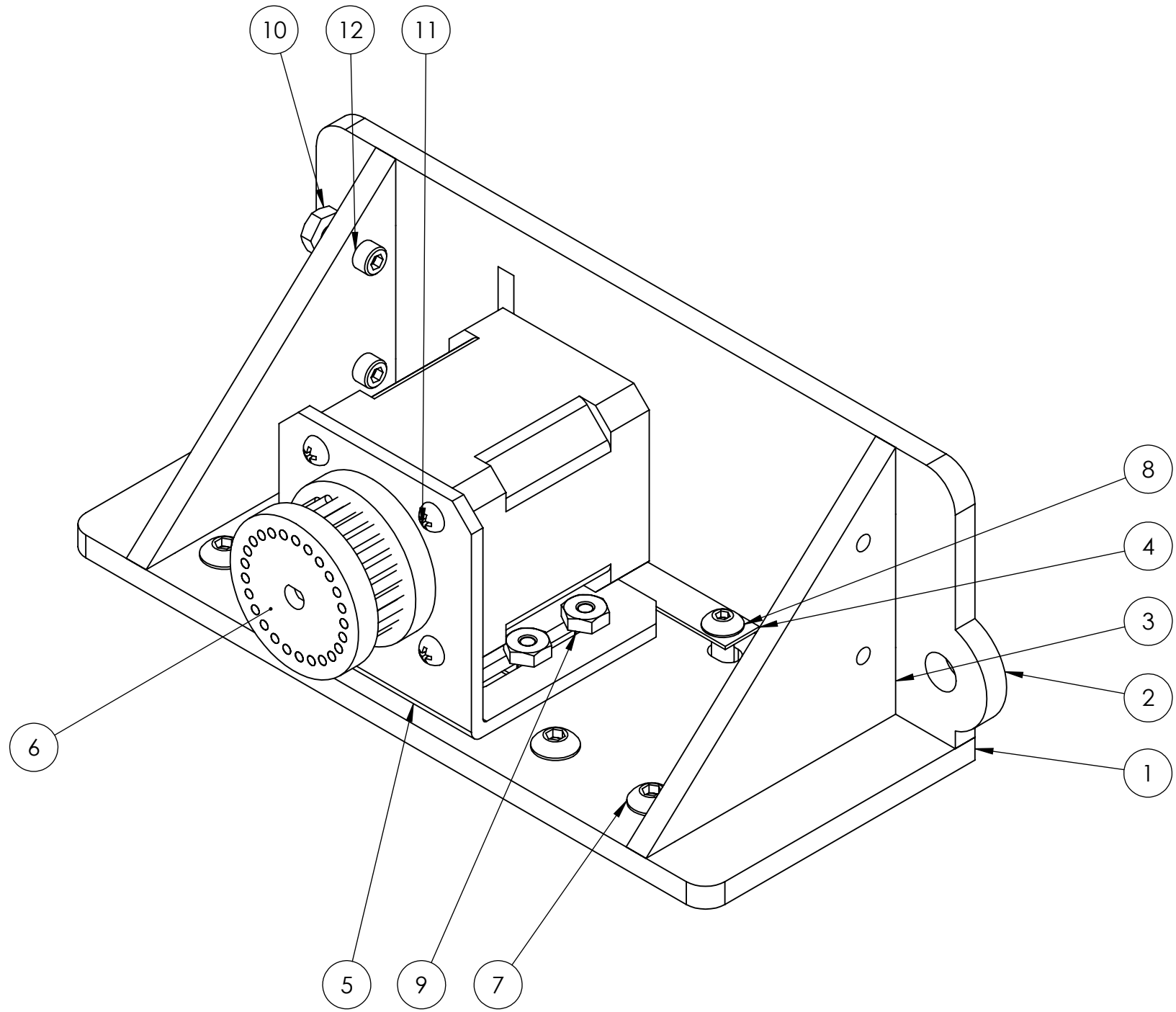
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ITEM NO.	PART NUMBER	QTY.
1	Base plate on pillow	1
2	Front plate on pillow	1
3	Pillow Block Base	2
4	Bendable plate	1
5	Nema 17 Stepper motor	1
6	Pinion Sub Assembly	1
7	SBHCSCREW 0.19-32x0.5-HX-N	6
8	SBHCSCREW 0.164-36x0.625-HX-N	2
9	HX-SHCS 0.138-40x0.25x0.25-N	4
10	MSHXNUT 0.138-40-S-N	6
11	CR-RHMS 0.125-44x0.125x0.125-N	4
12	HX-SHCS 0.138-40x0.5x0.5-N	2

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		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	TITLE: <b>Pillow Block Bracket Sub</b>
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN		
		INTERPRET GEOMETRIC TOLERANCING PER:	CHECKED		
		MATERIAL	ENG APPR.		
NEXT ASSY	USED ON	FINISH	MFG APPR.		Q.A.
APPLICATION		DO NOT SCALE DRAWING	COMMENTS:		SIZE DWG. NO. REV
					<b>B</b> 10
					SCALE: 1:2 WEIGHT: SHEET 10 OF 20

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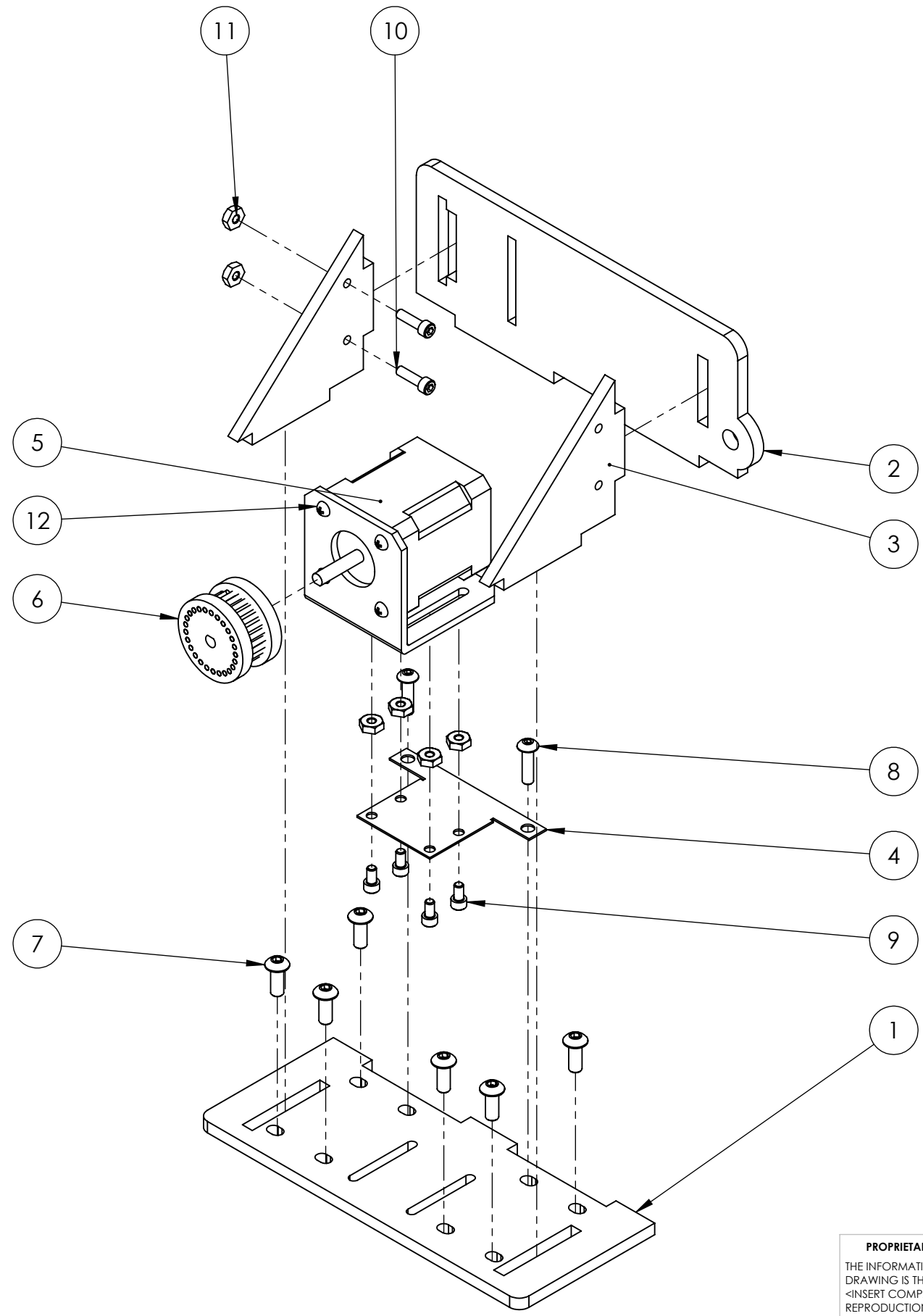
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ITEM NO.	PART NUMBER	QTY.
1	Base plate on pillow	1
2	Front plate on pillow	1
3	Pillow Block Base	2
4	Bendable plate	1
5	Nema 17 Stepper motor	1
6	Pinion Sub Assembly	1
7	SBHCSCREW 0.19-32x0.5-HX-N	6
8	SBHCSCREW 0.164-36x0.625-HX-N	2
9	HX-SHCS 0.138-40x0.25x0.25-N	4
10	HX-SHCS 0.138-40x0.5x0.5-N	2
11	MSHXNUT 0.138-40-S-N	6
12	CR-RHMS 0.125-44x0.125x0.125-N	4

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		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	TITLE: <b>Pillow Block Bracket Sub</b>
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN		
		INTERPRET GEOMETRIC TOLERANCING PER:	CHECKED		
		MATERIAL	ENG APPR.		
NEXT ASSY	USED ON	FINISH	MFG APPR.		Q.A.
APPLICATION		DO NOT SCALE DRAWING	COMMENTS:		SIZE DWG. NO. REV
					<b>B</b> 11
			SCALE: 1:2 WEIGHT:		SHEET 11 OF 20

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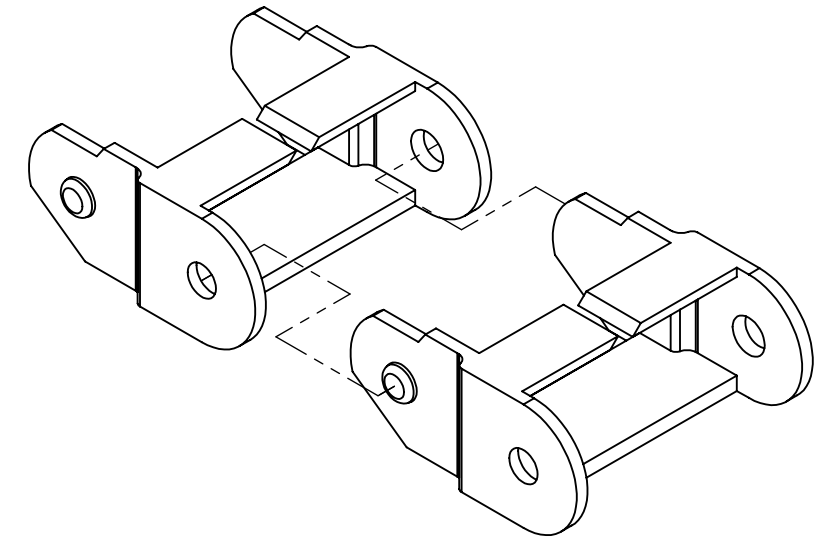
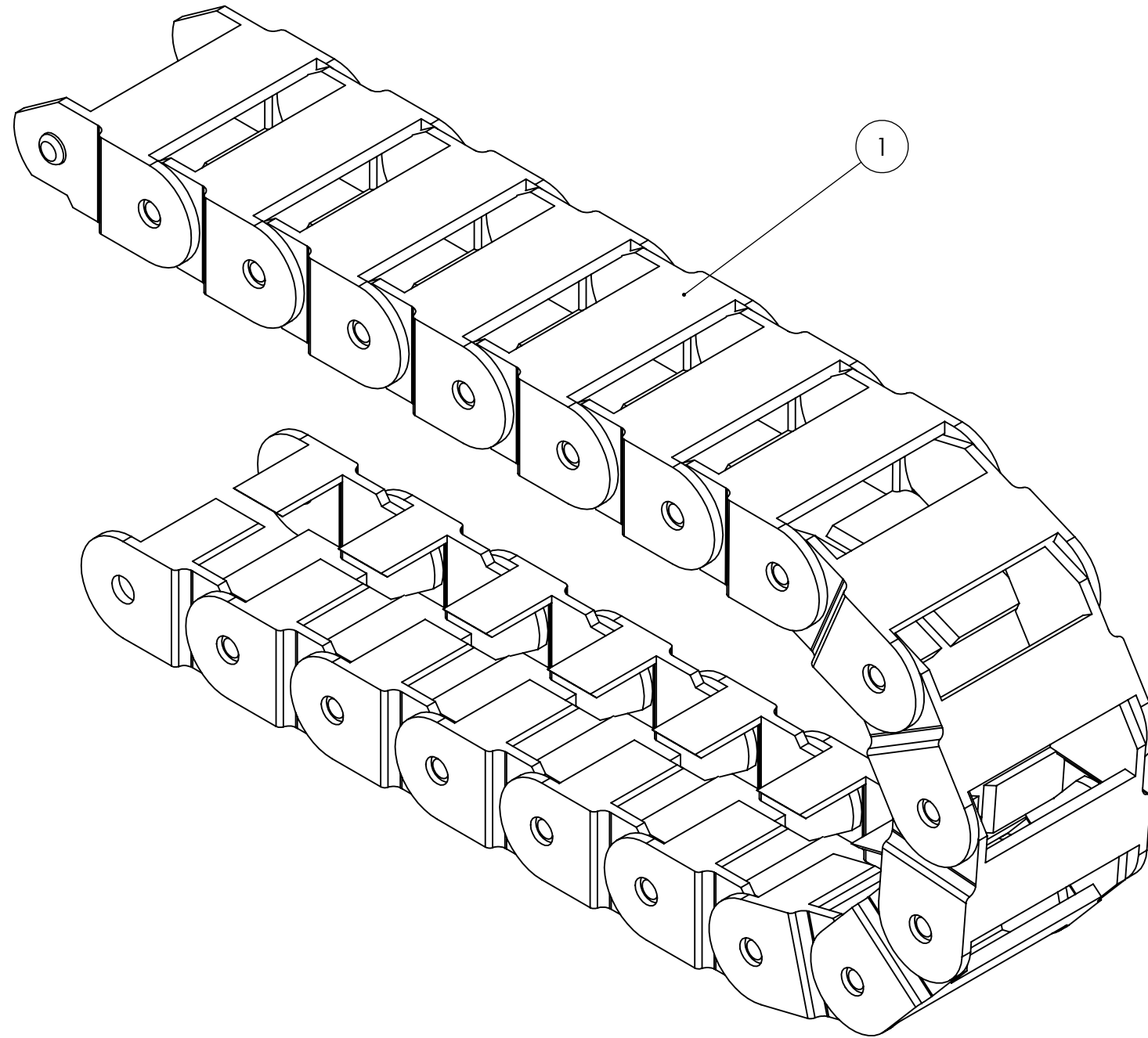
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ITEM NO.	PART NUMBER	QTY.
1	test chain	18



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		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	TITLE: <h1>Lobster Chain Top Sub</h1>
		DIMENSIONS ARE IN INCHES	DRAWN		
		TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	CHECKED		
		INTERPRET GEOMETRIC TOLERANCING PER:	ENG APPR.		
		MATERIAL	MFG APPR.		SIZE DWG. NO. REV
NEXT ASSY	USED ON	FINISH	Q.A.		<b>B</b> 12
APPLICATION		DO NOT SCALE DRAWING	COMMENTS:		SCALE: 1:2 WEIGHT: SHEET 12 OF 20

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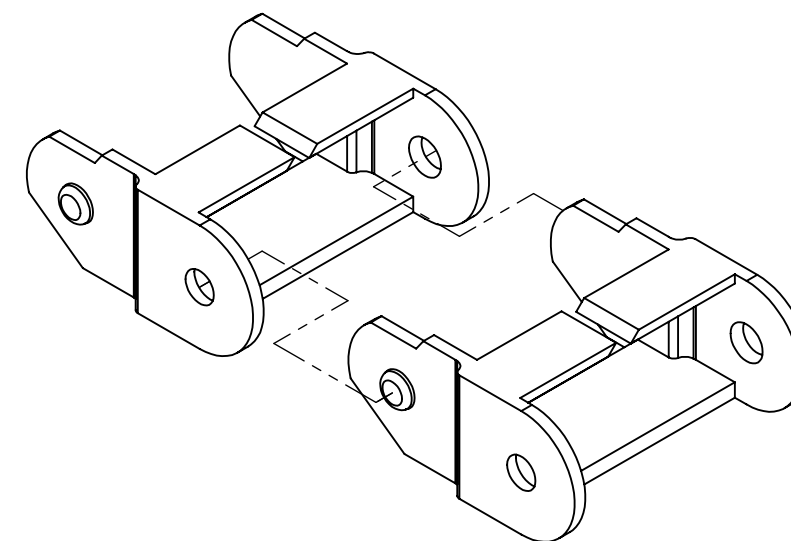
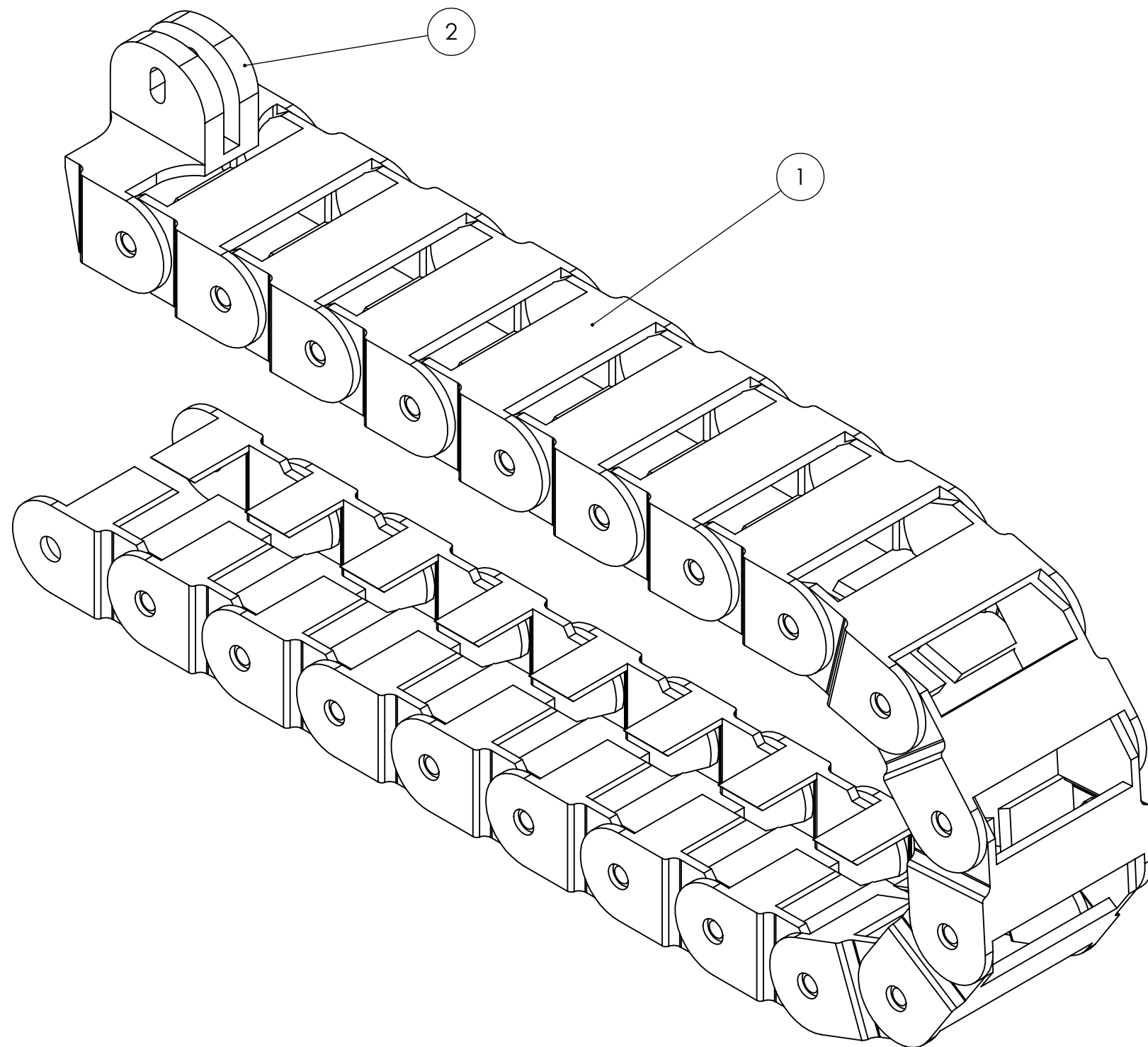
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ITEM NO.	PART NUMBER	QTY.
1	test chain	20
2	Chain latch botom	1



NOTE: LINKS LOCK AT RELITIVE 0 AND 30 DEGREES

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		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	TITLE: <h1>Lobster Chain Top Sub</h1>
		DIMENSIONS ARE IN INCHES	DRAWN		
		TOLERANCES:	CHECKED		
		FRACTIONAL ±	ENG APPR.		
		ANGULAR: MACH ± BEND ±	MFG APPR.		
		TWO PLACE DECIMAL ±	Q.A.		SIZE DWG. NO. REV
		THREE PLACE DECIMAL ±	COMMENTS:		<b>B</b> 13
		INTERPRET GEOMETRIC TOLERANCING PER:			SCALE: 1:2 WEIGHT: SHEET 13 OF 20
		MATERIAL			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

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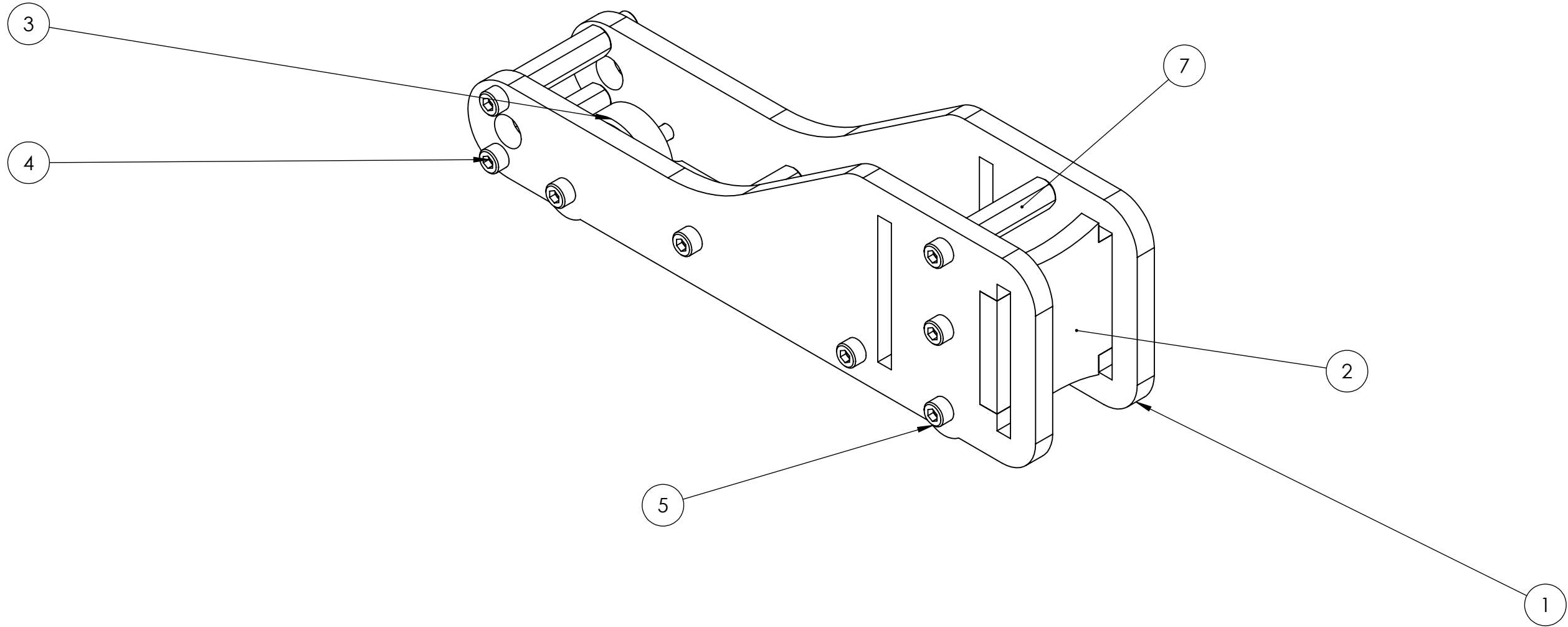
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ITEM NO.	PART NUMBER	QTY.
1	Free Roller Plate	2
2	Free Roller Plate Divider	1
3	22 mm Bearing	2
4	HX-SHCS 0.138-40x0.375x0.375-N	12
5	HX-SHCS 0.138-40x1.5x1-N	2
6	MSHXNUT 0.138-40-S-N	2
7	Short Aluminum Standoff	6

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		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	TITLE: <h1>Free Roller Sub Assembly</h1>
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN		
		INTERPRET GEOMETRIC TOLERANCING PER:	CHECKED		
		MATERIAL	ENG APPR.		
NEXT ASSY	USED ON	FINISH	MFG APPR.		Q.A.
APPLICATION		DO NOT SCALE DRAWING	COMMENTS:		SIZE DWG. NO. REV
					<b>B</b> 14
					SCALE: 1:4 WEIGHT: SHEET 14 OF 20

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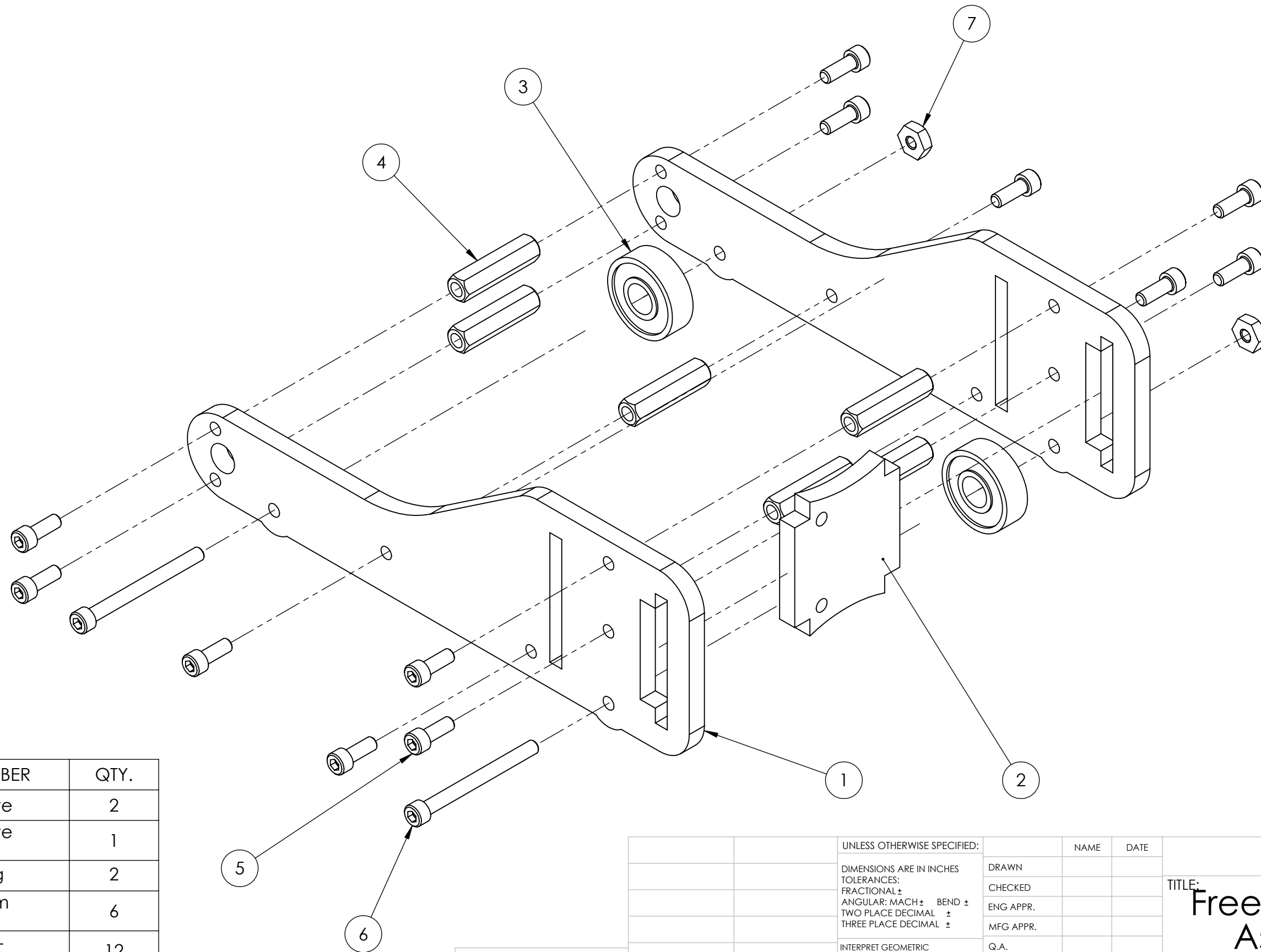
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ITEM NO.	PART NUMBER	QTY.
1	Free Roller Plate	2
2	Free Roller Plate Divider	1
3	22 mm Bearing	2
4	Short Aluminum Standoff	6
5	HX-SHCS 0.138-40x0.375x0.375-N	12
6	HX-SHCS 0.138-40x1.5x1-N	2
7	MSHXNUT 0.138-40-S-N	2

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		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	TITLE: <h1>Free Roller Sub Assembly</h1>
		DIMENSIONS ARE IN INCHES	DRAWN		
		TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	CHECKED		
		INTERPRET GEOMETRIC TOLERANCING PER:	ENG APPR.		
		MATERIAL	MFG APPR.		SIZE DWG. NO. REV
NEXT ASSY	USED ON	FINISH	COMMENTS:		<b>B</b> 15
APPLICATION		DO NOT SCALE DRAWING		SCALE: 1:4 WEIGHT:	SHEET 15 OF 20

4

3

2

1

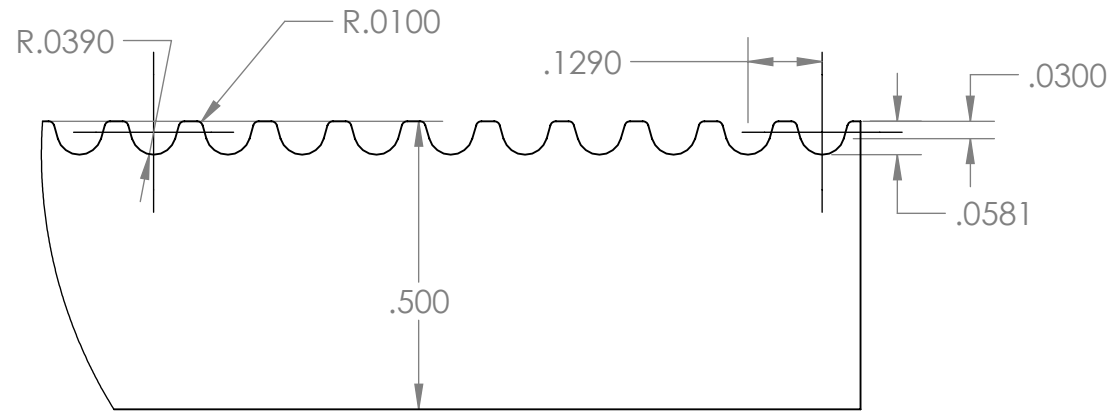
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3

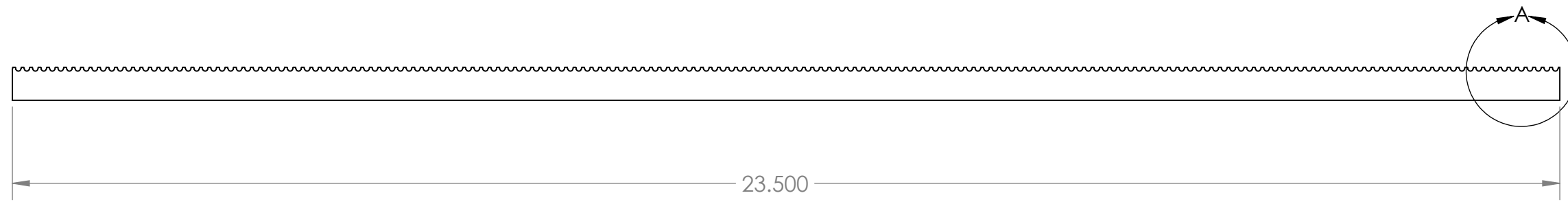
2

1

NOTE: PART THICKNESS 0.23 IN



DETAIL A  
SCALE 3 : 1



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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			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

TITLE:  
**Laser Cut Rack**

SIZE **B** DWG. NO. **16** REV

SCALE: 1:4 WEIGHT: SHEET 16 OF 20

4

3

2

1

B

B

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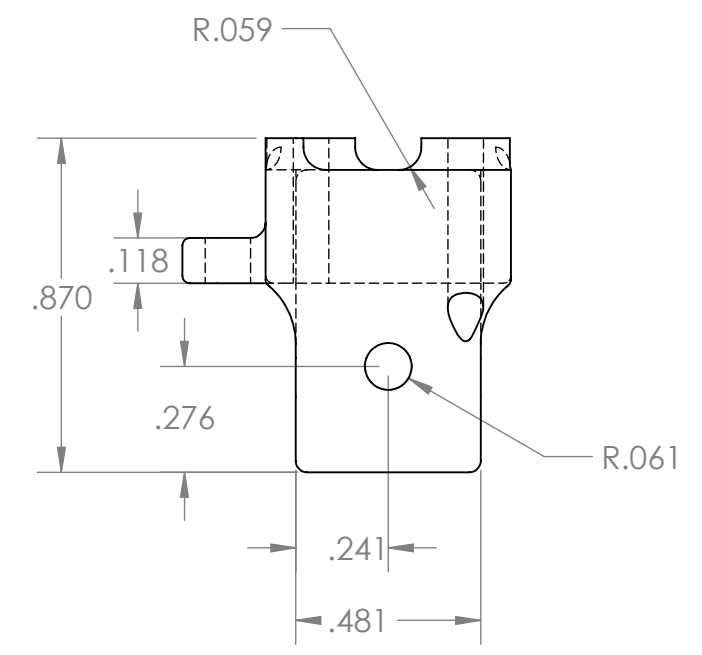
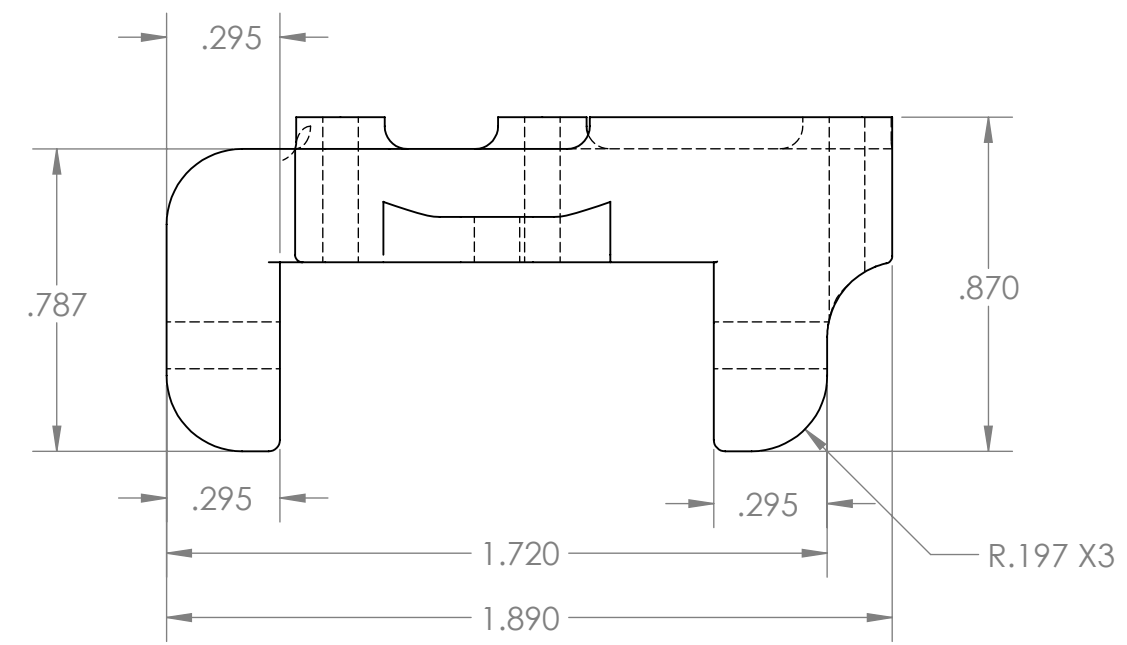
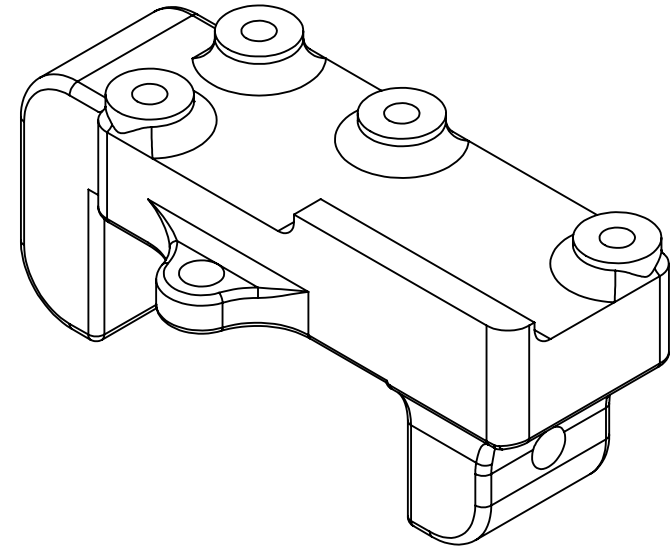
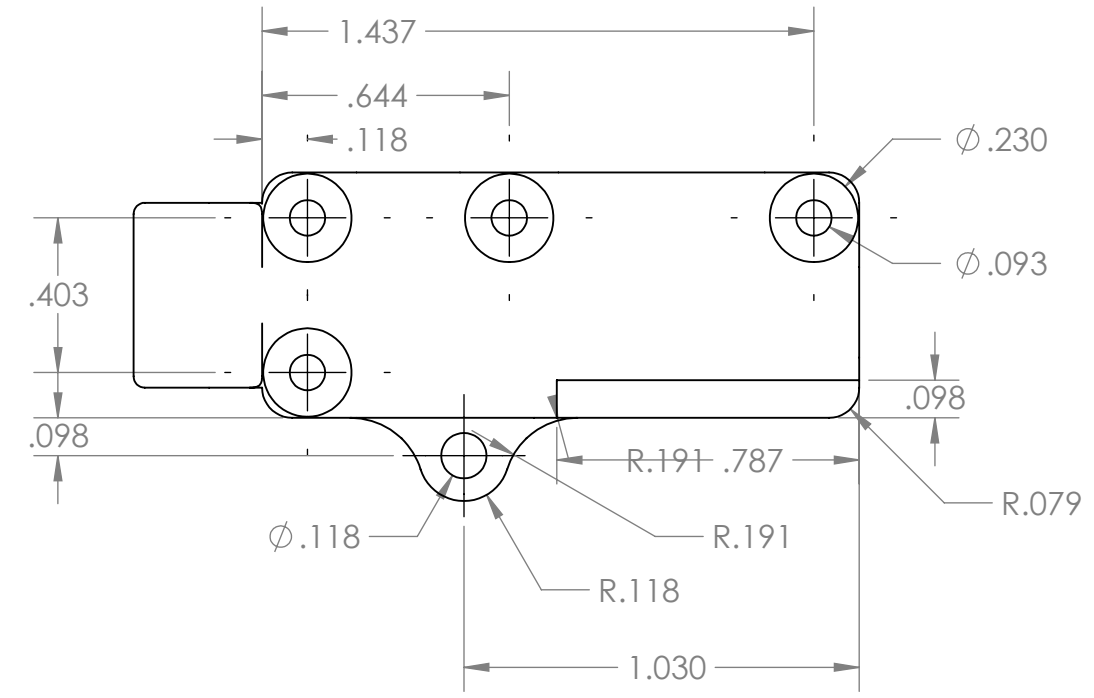
A

4

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B

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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			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			
TITLE: <b>Limit Switch X</b>					
SIZE	DWG. NO.	REV			
<b>B</b>	<b>17</b>				
SCALE: 2:1		WEIGHT:		SHEET 17 OF 20	

4

3

2

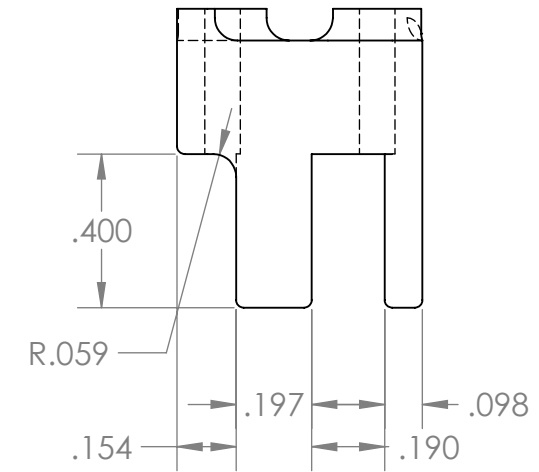
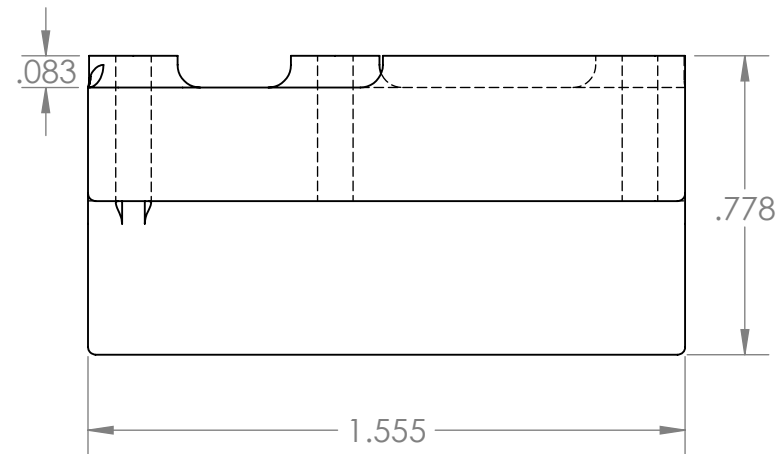
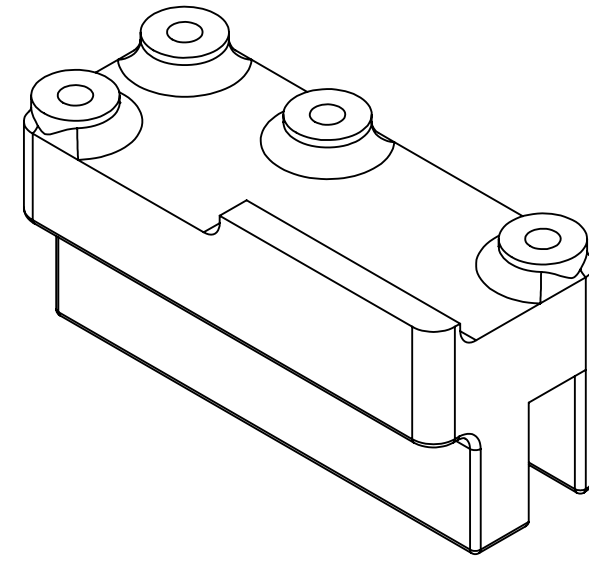
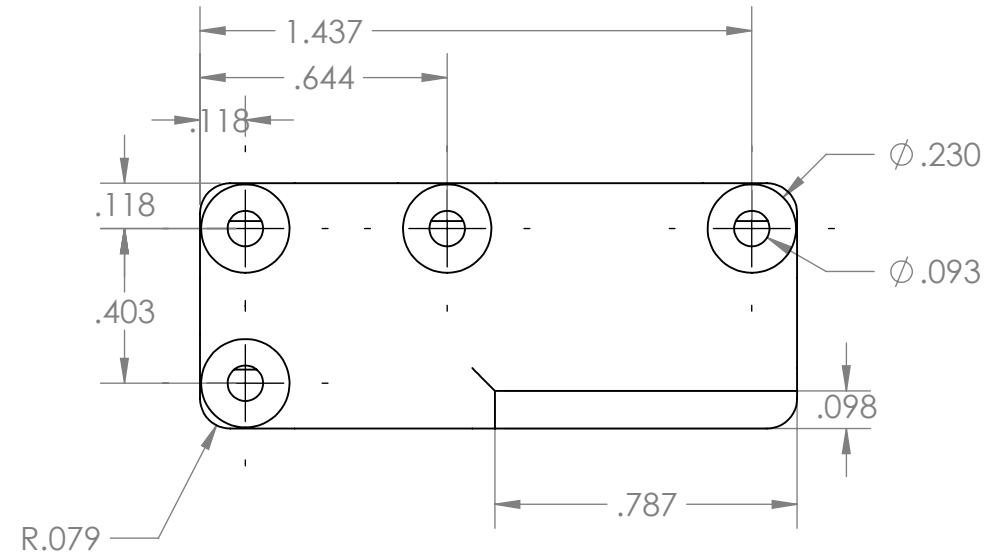
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4

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1



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		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	TITLE: <b>Limit Switch Y</b>
		DIMENSIONS ARE IN INCHES	DRAWN		
		TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	CHECKED		
		INTERPRET GEOMETRIC TOLERANCING PER:	ENG APPR.		
		MATERIAL	MFG APPR.		SIZE DWG. NO. REV
NEXT ASSY	USED ON	FINISH	COMMENTS:		<b>B</b> 18
APPLICATION		DO NOT SCALE DRAWING			SCALE: 4:1 WEIGHT: SHEET 18 OF 20

4

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2

1

B

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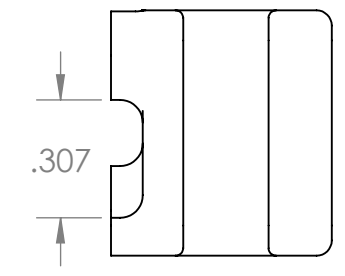
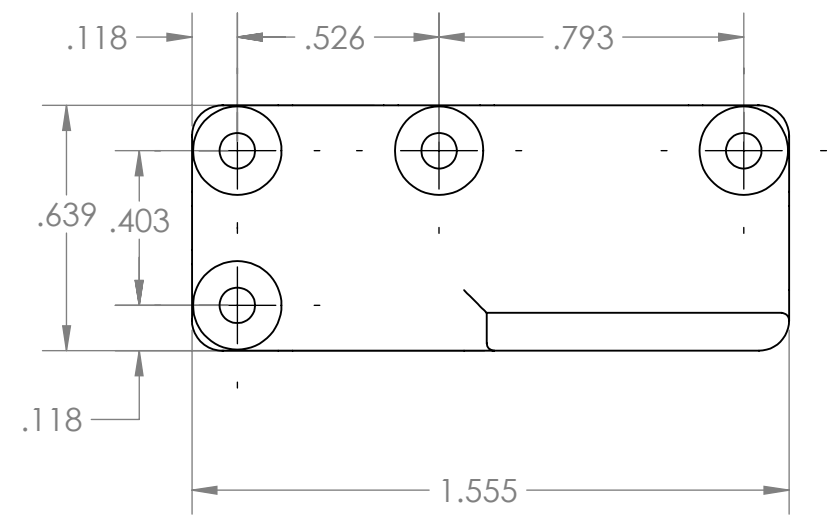
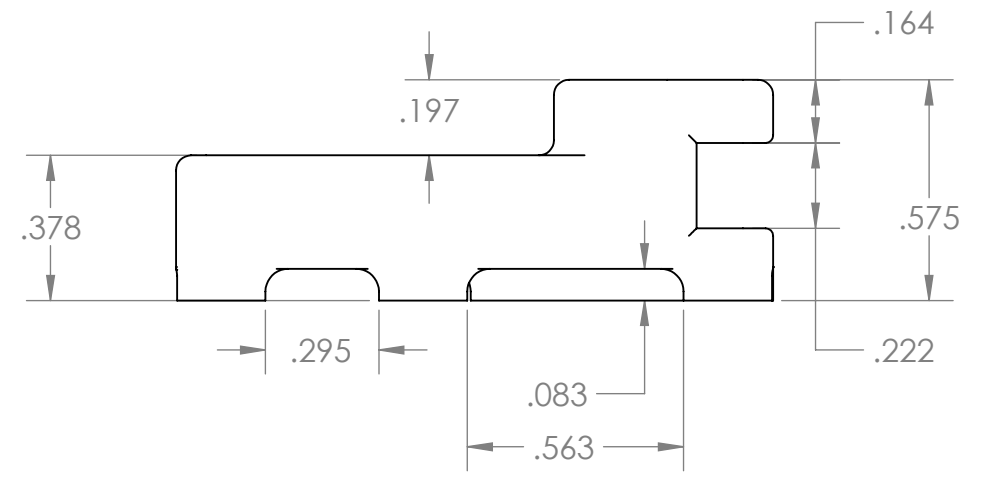
A

4

3

2

1



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		UNLESS OTHERWISE SPECIFIED:	NAME	DATE		
		DIMENSIONS ARE IN INCHES	DRAWN		TITLE: <b>Limit Switch Z</b>	
		TOLERANCES:	CHECKED			
		FRACTIONAL ±	ENG APPR.			
		ANGULAR: MACH ± BEND ±	MFG APPR.			
		TWO PLACE DECIMAL ±	Q.A.		SIZE	DWG. NO.
		THREE PLACE DECIMAL ±	COMMENTS:		<b>B</b>	<b>19</b>
NEXT ASSY	USED ON	MATERIAL			SCALE: 4:1	WEIGHT:
APPLICATION		FINISH			SHEET 19 OF 20	
		DO NOT SCALE DRAWING				

4

3

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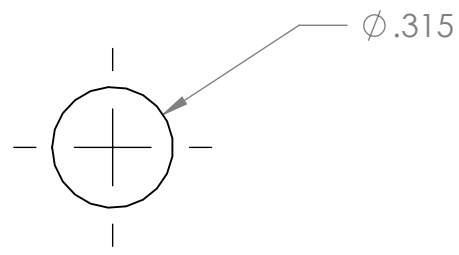
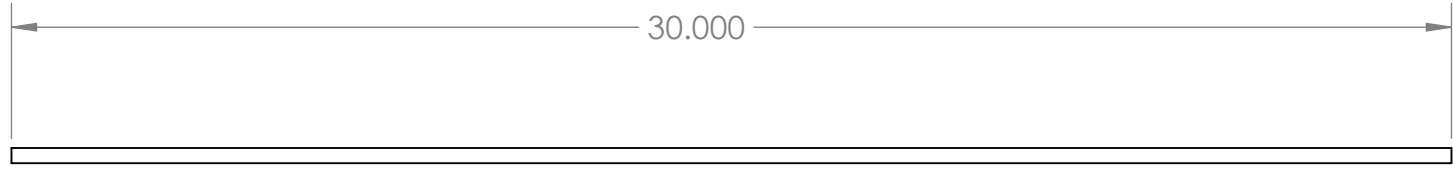
3

2

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

TITLE:		
30 in Chrome Plated Rod		
SIZE	DWG. NO.	REV
<b>B</b>	20	
SCALE: 1:8	WEIGHT:	SHEET 20 OF 20

4

3

2

1