

4

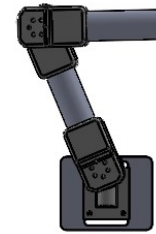
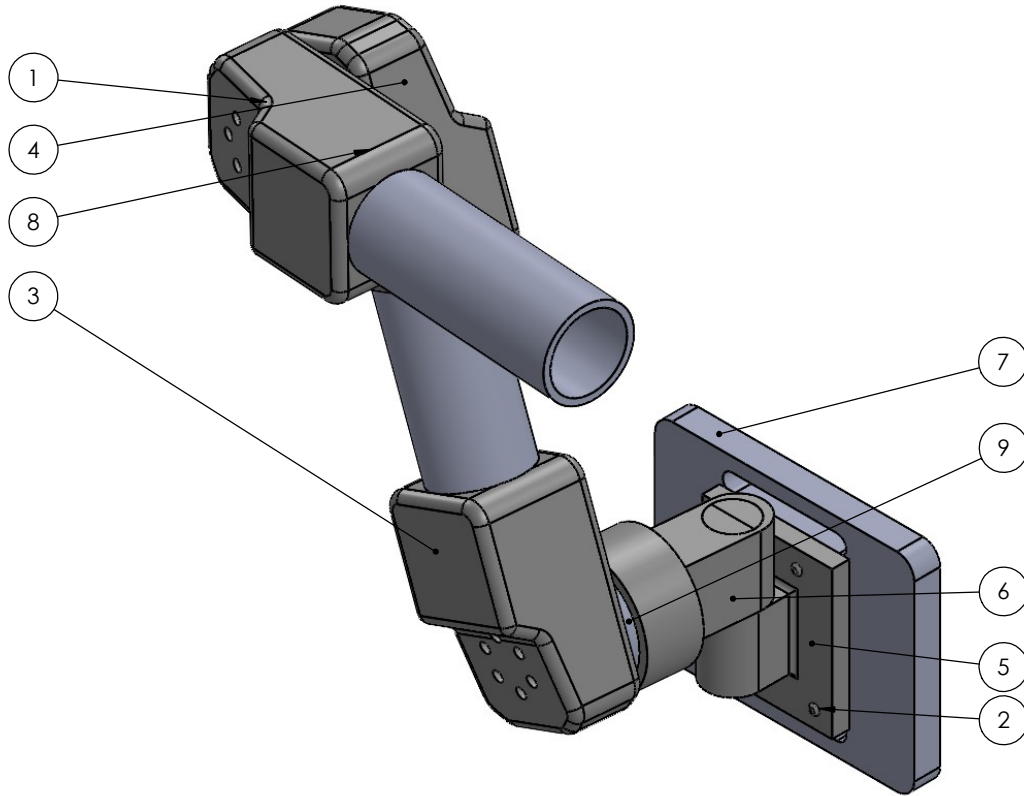
3

2

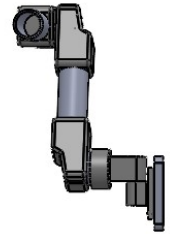
1

Drawing conforms to ASME Y14.1-2020, Y14.100-2017 and Y14.5-2018 (GD&T)
UNITS IN mm
UNSPECIFIED FILLETS ARE 5mm
BREAK ALL SHARP CORNERS AND EDGES WITH 0.05mm CHAMFER
MATERIAL: PLA FILAMENT

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	91239A113	Button Head Hex Drive Screw	22
2	91239A811	Button Head Hex Drive Screw	4
3	DET001-REV02 (Front Mount)		2
4	DET002-REV02 (Rear Mount)		1
5	DET003 (Hinge Bottom)	HINGE BOTTOM	1
6	DET004 (Hinge Top)	HINGE TOP WITH MOTOR MOUNT	1
7	DET005 (Hip Mount)		1
8	DET006 (LINK)	PRINTED LINK OF VARIABLE LENGTH	2
9	SUB03-DET001 (ETERNAL)	CubeMars AK45-36	2
10	SUB03-DET002 (INTERNAL)		2



RIGHT VIEW



TOP VIEW

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS
DRAWING IS THE SOLE PROPERTY OF
<INSERT COMPANY NAME HERE>. ANY
REPRODUCTION IN PART OR AS A WHOLE
WITHOUT THE WRITTEN PERMISSION OF
<INSERT COMPANY NAME HERE> IS
PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME		DATE	
		DIMENSIONS ARE IN INCHES	DRAWN	C. Lamca		TITLE: Top Level Design
		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	SIZE B			
			DWG. NO.		REV	
			REV02			
SCALE: 1:8		WEIGHT:	SHEET 1 OF 8			

4

3

2

1

4

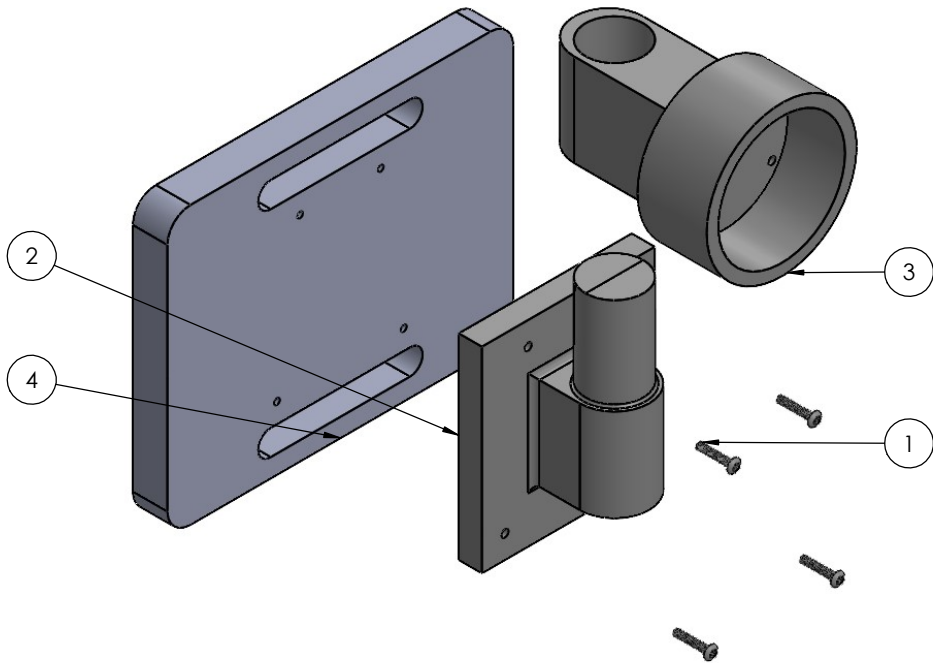
3

2

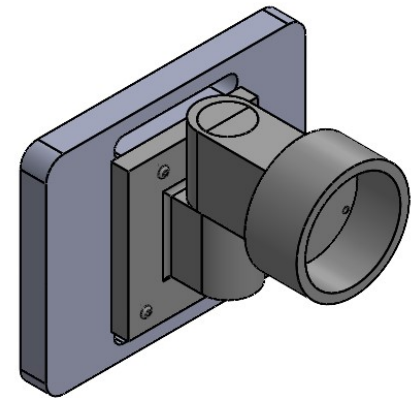
1

Drawing conforms to ASME Y14.1-2020, Y14.100-2017 and Y14.5-2018 (GD&T)
UNITS IN mm
UNSPECIFIED FILLETS ARE 5mm
BREAK ALL SHARP CORNERS AND EDGES WITH 0.05mm CHAMFER
MATERIAL: PLA FILAMENT

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	91239A811	Button Head Hex Drive Screw	4
2	DET003 (Hinge Bottom)	HINGE BOTTOM	1
3	DET004 (Hinge Top)	HINGE TOP WITH MOTOR MOUNT	1
4	DET005 (Hip Mount)		1



ISOMETRIC EXPLODED VIEW
SCALE: 3:2



ISOMETRIC VIEW
SCALE: 1:2

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS
DRAWING IS THE SOLE PROPERTY OF
<INSERT COMPANY NAME HERE>. ANY
REPRODUCTION IN PART OR AS A WHOLE
WITHOUT THE WRITTEN PERMISSION OF
<INSERT COMPANY NAME HERE> IS
PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME		DATE		
		DIMENSIONS ARE IN mm	DRAWN		C. LAMCA		
		TOLERANCES:	CHECKED		TITLE: SUB01-HINGE		
		FRACTIONAL ±	ENG APPR.				
		ANGULAR: MACH ± BEND ±	MFG APPR.				
		TWO PLACE DECIMAL ±	Q.A.				
		THREE PLACE DECIMAL ±	COMMENTS:		SIZE DWG. NO. REV B REV02		
		INTERPRET GEOMETRIC TOLERANCING PER:					
		MATERIAL					
		FINISH					
NEXT ASSY	USED ON						
APPLICATION		DO NOT SCALE DRAWING		SCALE: 1:2 WEIGHT: SHEET 2 OF 8			

4

3

2

1



		UNLESS OTHERWISE SPECIFIED:	DRAWN	C. LAMCA		TITLE: SUB02-JOINT
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	CHECKED			
			ENG APPR.			
			MFG APPR.			
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.			
		MATERIAL	COMMENTS:			
NEXT ASSY	USED ON	FINISH				SIZE DWG. NO. REV
APPLICATION		DO NOT SCALE DRAWING				B REV02
						SCALE: 1:8 WEIGHT: SHEET 3 OF 8



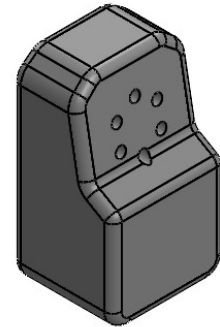
4

3

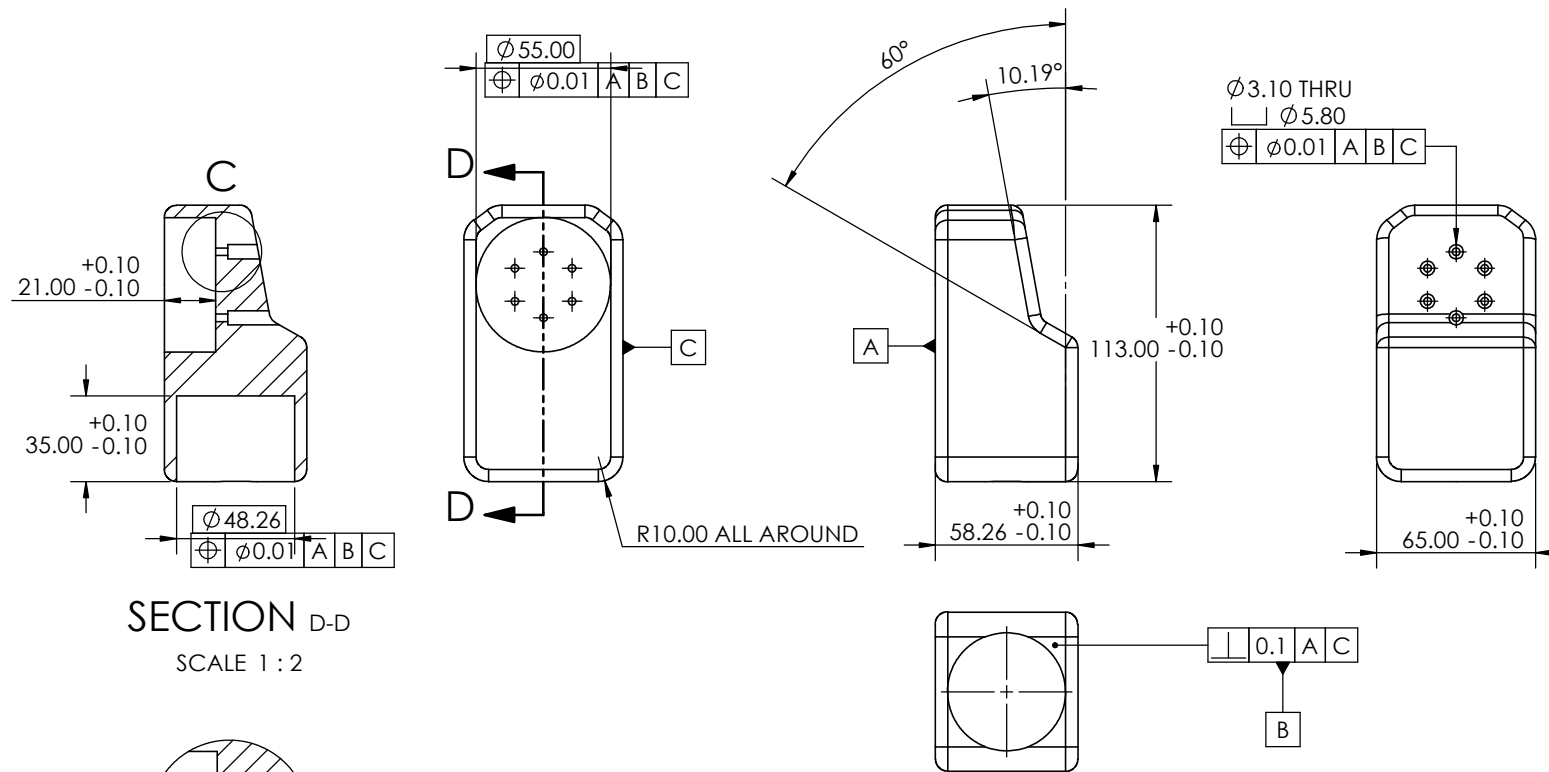
2

1

Drawing conforms to ASME Y14.1-2020, Y14.100-2017 and Y14.5-2018 (GD&T)
UNITS IN mm
UNSPECIFIED FILLETS ARE 5mm
BREAK ALL SHARP CORNERS AND EDGES WITH 0.05mm CHAMFER
MATERIAL: PLA FILAMENT



ISOMETRIC VIEW
SCALE: 1:2



SECTION D-D
SCALE 1:2

DETAIL C
SCALE 1:1

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <INSERT COMPANY NAME HERE>. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <INSERT COMPANY NAME HERE> IS PROHIBITED.

UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN INCHES		DRAWN	C. LAMCA
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:			
DET001 FRONT MOUNT			
SIZE B	DWG. NO. REV02	REV	
SCALE: 1:4		WEIGHT:	SHEET 4 OF 8

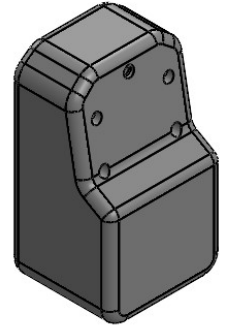
4

3

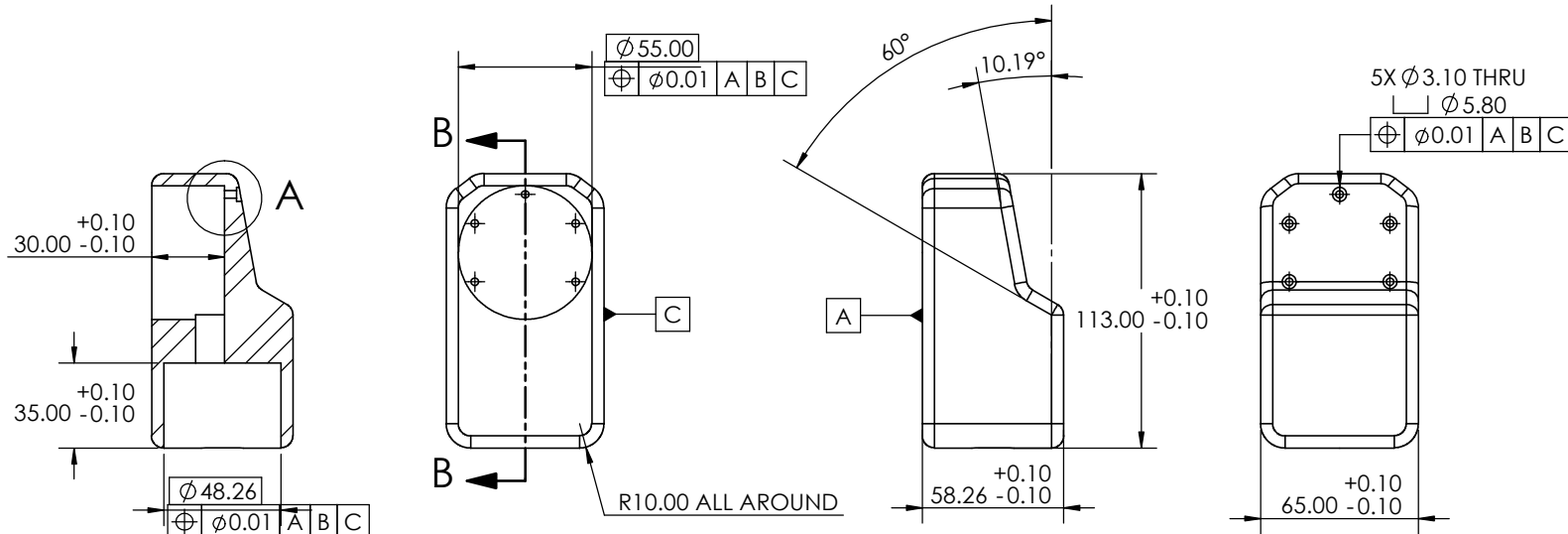
2

1

Drawing conforms to ASME Y14.1-2020, Y14.100-2017 and Y14.5-2018 (GD&T)
 UNITS IN mm
 UNSPECIFIED FILLETS ARE 5mm
 BREAK ALL SHARP CORNERS AND EDGES WITH 0.05mm CHAMFER
 MATERIAL: PLA FILAMENT

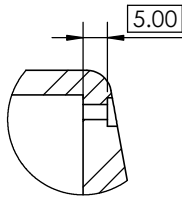


ISOMETRIC VIEW
 SCALE 1:2



SECTION B-B
 SCALE 1:2

DETAIL A
 SCALE 1:1



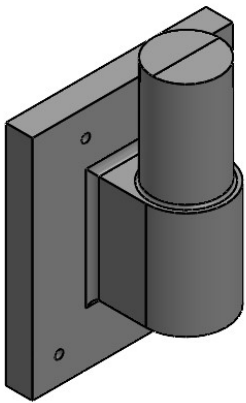
PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <INSERT COMPANY NAME HERE>. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <INSERT COMPANY NAME HERE> IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME		DATE		TITLE: DET002 REAR MOUNT			
		DIMENSIONS ARE IN INCHES		DRAWN		C. LAMCA					
		TOLERANCES:		CHECKED							
		FRACTIONAL ±		ENG APPR.							
		ANGULAR: MACH ± BEND ±		MFG APPR.							
		TWO PLACE DECIMAL ±		Q.A.							
		THREE PLACE DECIMAL ±		COMMENTS:		SIZE		DWG. NO.		REV	
		INTERPRET GEOMETRIC TOLERANCING PER:				B		REV02			
		MATERIAL									
		FINISH									
NEXT ASSY		USED ON									
APPLICATION		DO NOT SCALE DRAWING						SCALE: 1:4		WEIGHT:	
										SHEET 5 OF 8	

2

1

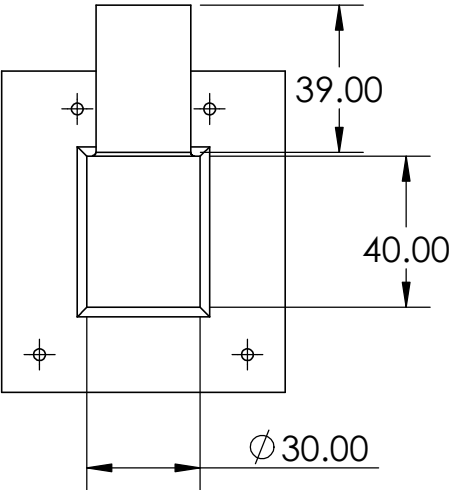
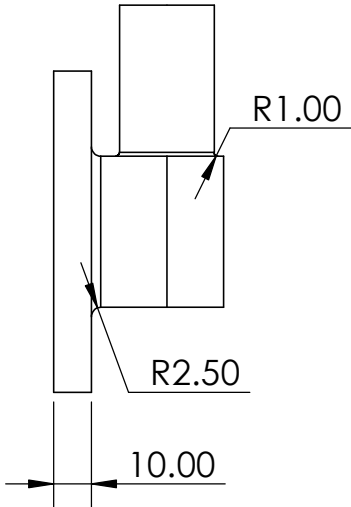
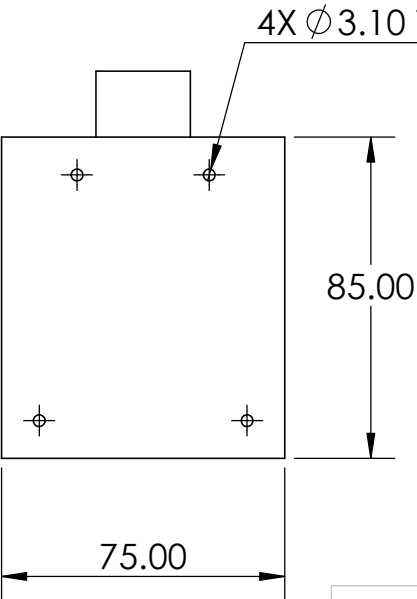
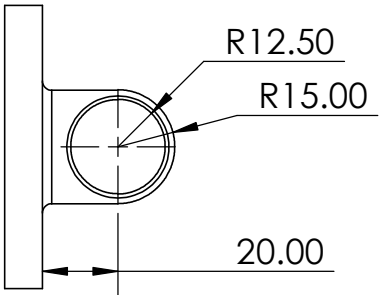
Drawing conforms to ASME Y14.1-2020, Y14.100-2017 and Y14.5-2018 (GD&T)
UNITS IN mm
UNSPECIFIED FILLETS ARE 5mm
BREAK ALL SHARP CORNERS AND EDGES WITH 0.05mm CHAMFER
MATERIAL: PLA FILAMENT



ISOMETRIC VIEW
SCALE: 1:2

B

B



A

A

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS
DRAWING IS THE SOLE PROPERTY OF
<INSERT COMPANY NAME HERE>. ANY
REPRODUCTION IN PART OR AS A WHOLE
WITHOUT THE WRITTEN PERMISSION OF
<INSERT COMPANY NAME HERE> IS
PROHIBITED.

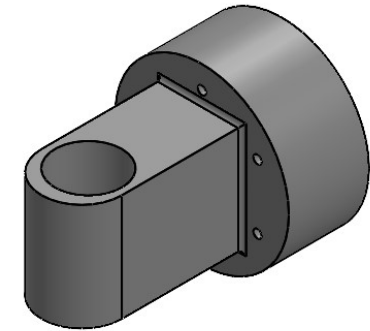
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	C. LAMCA	
		TOLERANCES:	CHECKED		
		FRACTIONAL ±	ENG APPR.		
		ANGULAR: MACH ± BEND ±	MFG APPR.		
		TWO PLACE DECIMAL ±	Q.A.		
		THREE PLACE DECIMAL ±	COMMENTS:		
		INTERPRET GEOMETRIC			
		TOLERANCING PER:			
		MATERIAL			
		FINISH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

TITLE:
**DET003
HINGE BOTTOM**

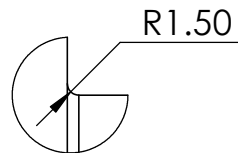
SIZE	DWG. NO.	REV
A	REV02	
SCALE: 1:2	WEIGHT:	SHEET 6 OF 8

1

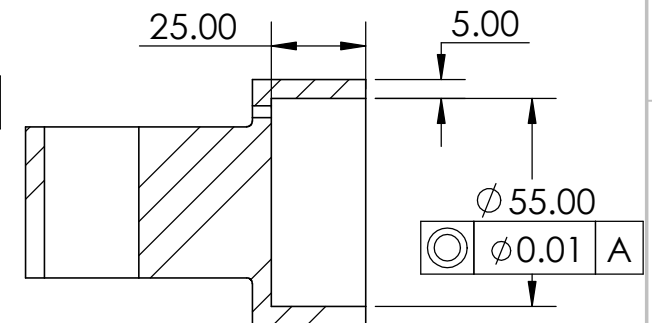
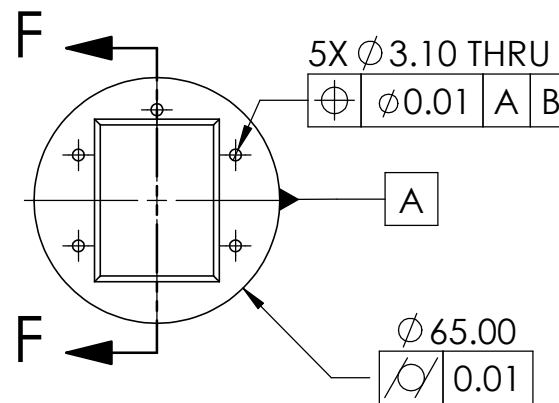
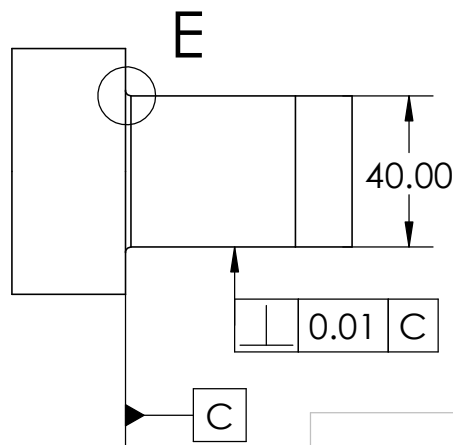
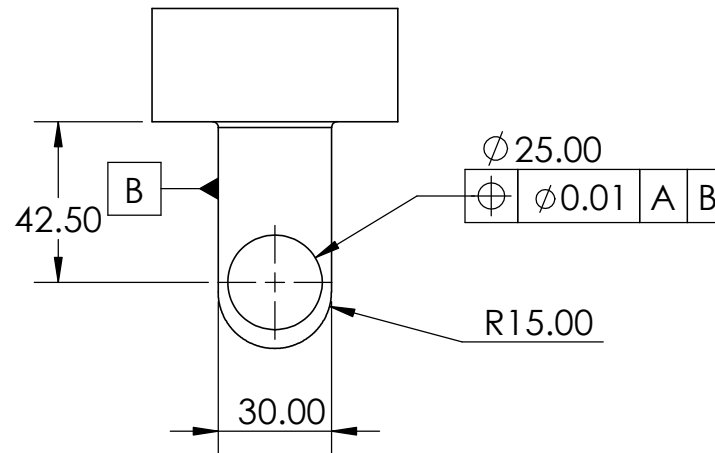
Drawing conforms to ASME Y14.1-2020, Y14.100-2017 and Y14.5-2018 (GD&T)
 UNITS IN mm
 UNSPECIFIED FILLETS ARE 5mm
 BREAK ALL SHARP CORNERS AND EDGES WITH 0.05mm CHAMFER
 MATERIAL: PLA FILAMENT



ISOMETRIC VIEW
 SCALE: 1:2



DETAIL E
 SCALE 1:1



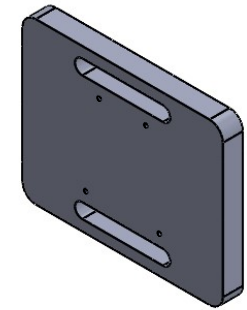
SECTION F-F
 SCALE 1:2

PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <INSERT COMPANY NAME HERE>. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <INSERT COMPANY NAME HERE> IS PROHIBITED.

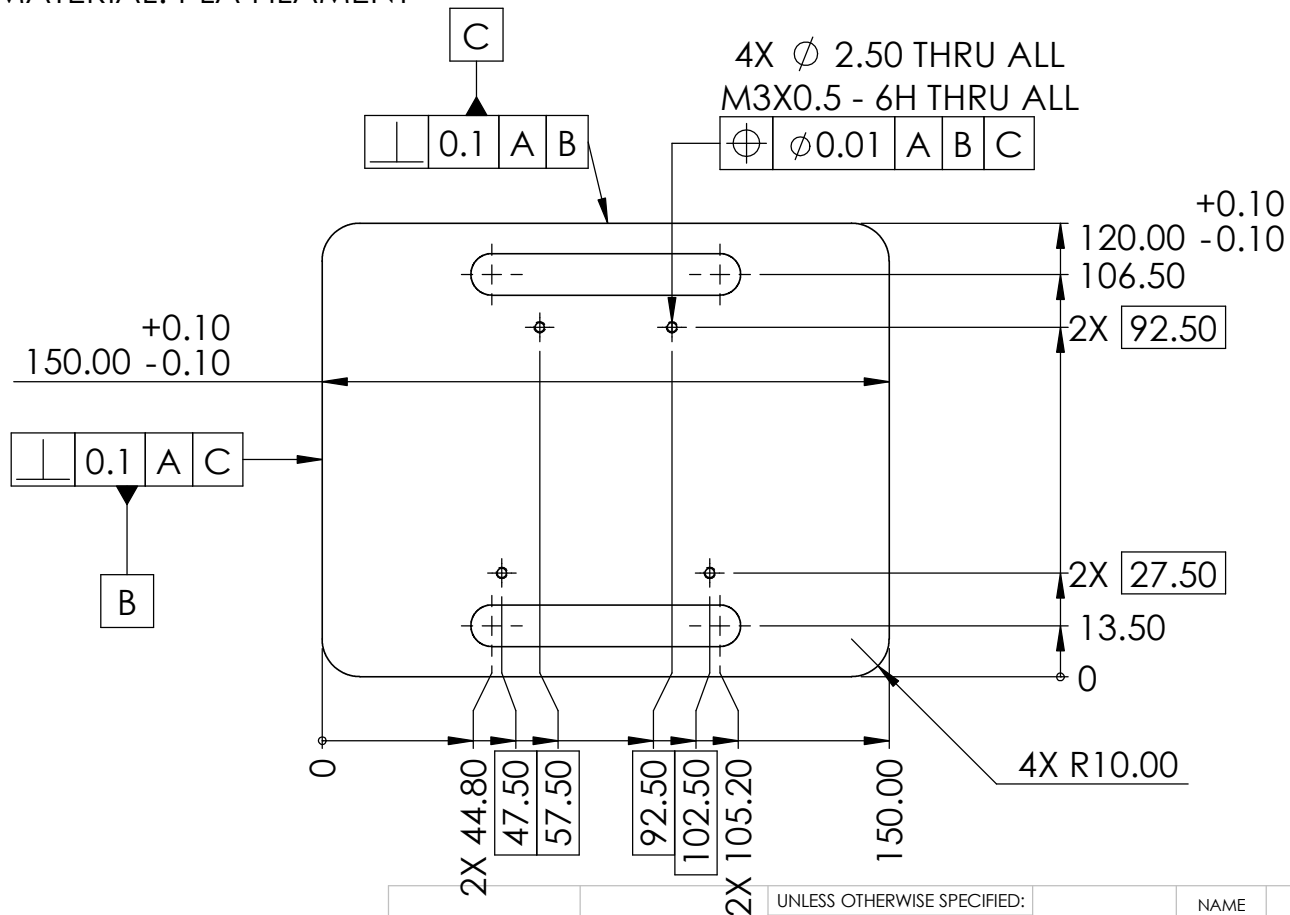
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES		DRAWN	C. LAMCA
		TOLERANCES:		CHECKED	
		FRACTIONAL ±		ENG APPR.	
		ANGULAR: MACH ± BEND ±		MFG APPR.	
		TWO PLACE DECIMAL ±		Q.A.	
		THREE PLACE DECIMAL ±		COMMENTS:	
		INTERPRET GEOMETRIC TOLERANCING PER:			
		MATERIAL			
		FINISH	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

TITLE: DET004 HINGE & MOTOR MOUNT			
SIZE A	DWG. NO. DET004	REV	
SCALE: 1:4	WEIGHT:	SHEET 7 OF 8	

Drawing conforms to ASME Y14.1-2020, Y14.100-2017 and Y14.5-2018 (GD&T)
UNITS IN mm
UNSPECIFIED FILLETS ARE 5mm
BREAK ALL SHARP CORNERS AND EDGES WITH 0.05mm CHAMFER
MATERIAL: PLA FILAMENT



ISOMETRIC VIEW
SCALE: 1:4



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <INSERT COMPANY NAME HERE>. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF <INSERT COMPANY NAME HERE> IS PROHIBITED.

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

TITLE:

DET005
HIP MOUNT

SIZE

A

DWG. NO.

REV02

REV

SCALE: 1:4

WEIGHT:

SHEET 8 OF 8