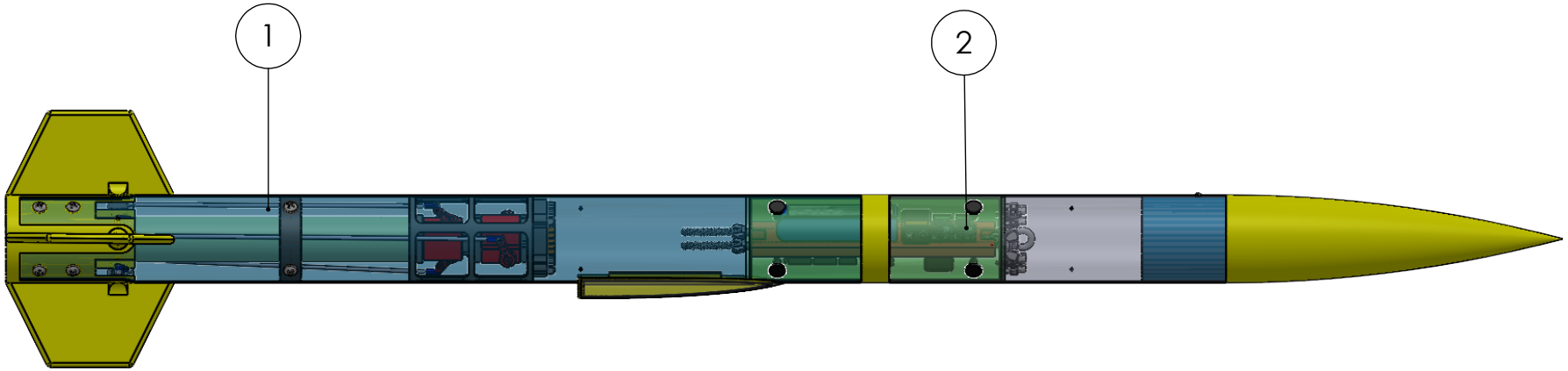
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Final Aft End Assembly	Physical Control Mechanism to Change Orentation of the rocket.	1
2	Enclosed Coupler with Nose Cone Assembly	Holds Eletronics to Control the Rocket and to Eject Parachute.	1



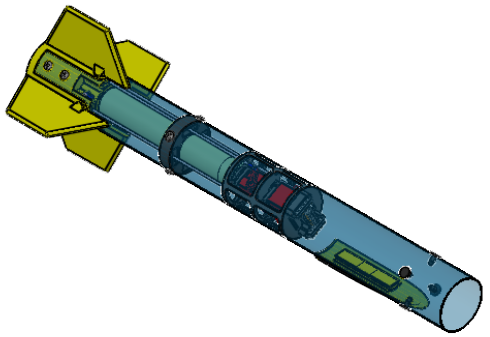
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN	Henry B	3/26/26
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
		MATERIAL	COMMENTS:		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

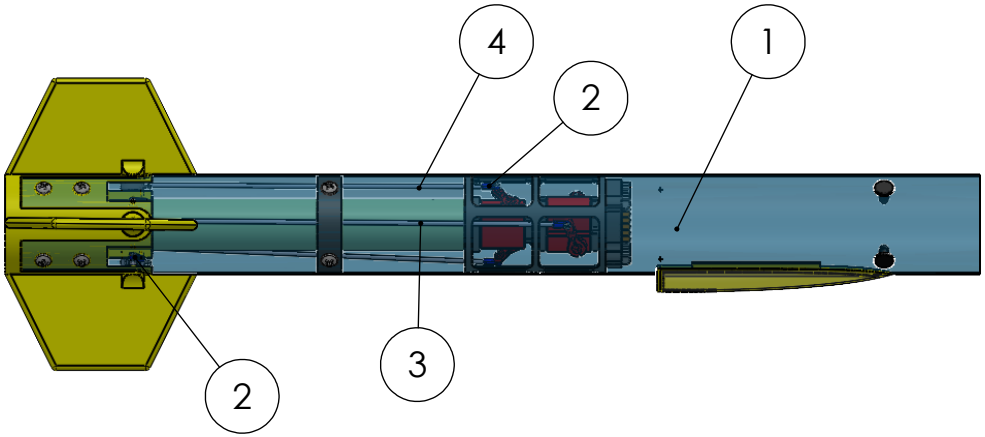
TITLE:

Final ARC Assembly

SIZE	DWG. NO.	REV
A	Final Assembly	
SCALE: 1:6	WEIGHT:	SHEET 1 OF 1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Aft Assembly Without Push Rods		1
2	Tie Rod and Screw Assembly	Connects Tie Rod to Servos and Push Arms	8
3	13 in Push Rod	Transfers movement from upper servo to fins.	2
4	11 in Push Rod	Transfers movement from lower servo to fins.	2





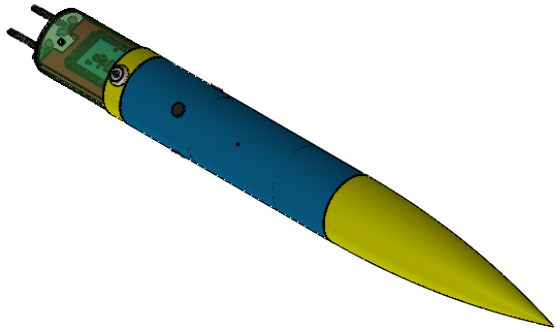
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN	Henry B	3/26/26
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
ARC	ARC	MATERIAL	COMMENTS:		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

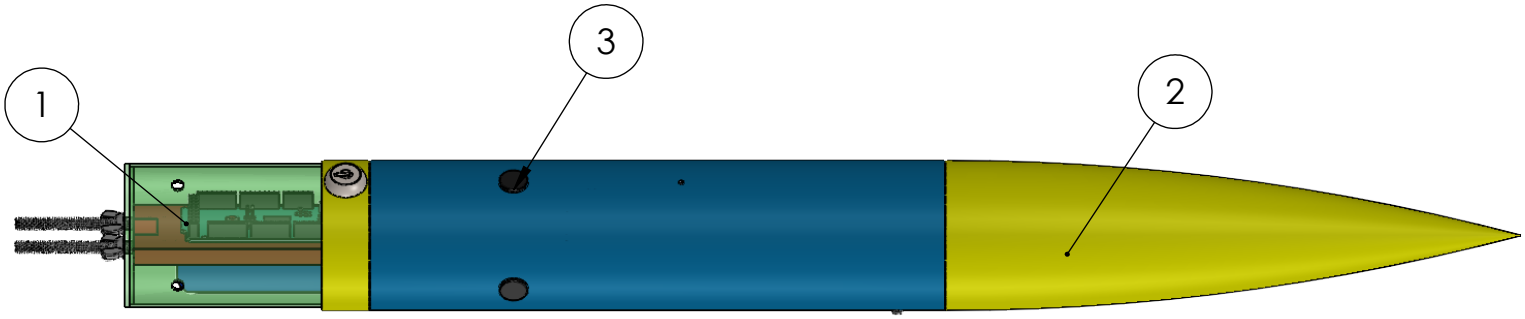
TITLE:

Final Aft End Assembly

SIZE	DWG. NO.	REV
A	Final Aft End Assembly	
SCALE: 1:6	WEIGHT:	SHEET 1 OF 1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Enclosed Coupler with AV Bay Componenets	Controls Fins and Ejection Charges.	1
2	Nose Cone and Upper Body Assembly	Encloses the Parachute.	1
3	90136A483	Car Rivits that Secure Coupler with Upper Half.	4





ARC	ARC	
NEXT ASSY	USED ON	
APPLICATION		DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ±
ANGULAR: MACH ± BEND ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

	NAME	DATE
DRAWN	Henry B	3/26/26
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

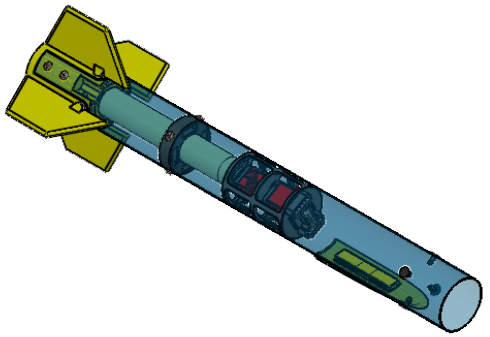
COMMENTS: Car rivits come from McMaster-Carr.

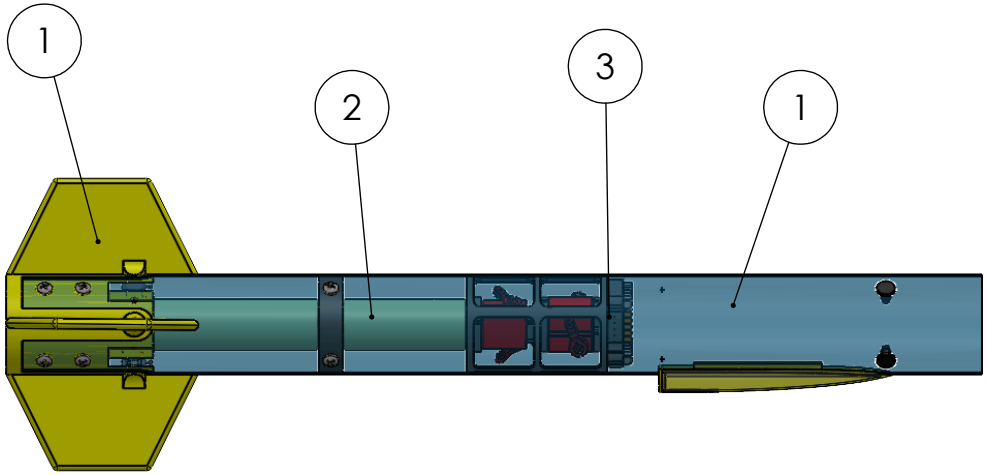
TITLE:

Enclosed Coupler with Upper Half

SIZE	DWG. NO.	REV
A	Enclosed Coupler with Nose Cone Assembly	
SCALE: 1:4	WEIGHT:	SHEET 1 OF 1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Fusaloge with Fin Insert Assembly	Holds Fins.	1
2	38 mm Motor Tube	Holds the I-500 Motor	1
3	Servo and Servo Holder Assembly	Holds Servos.	1





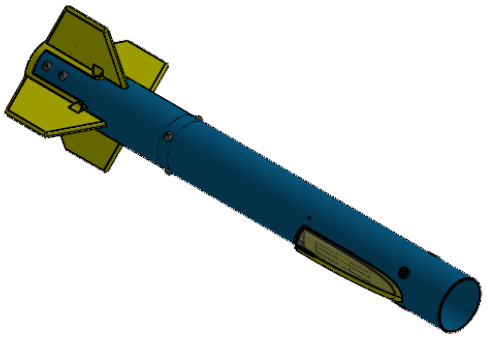
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN	Henry B	3/26/26
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
Aft with Push Rods	ARC	MATERIAL	COMMENTS:		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

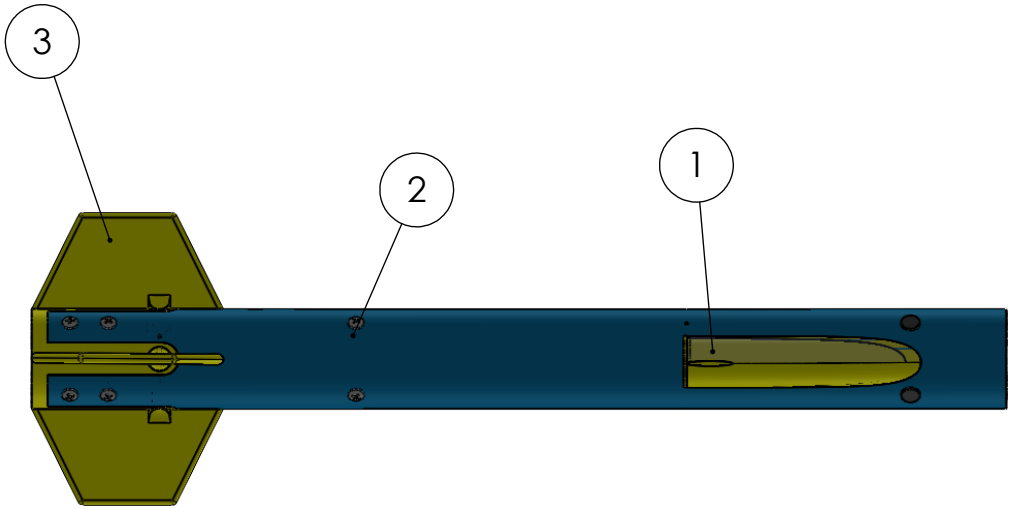
TITLE:

Aft Assebly Without Push Rods

SIZE	DWG. NO.	REV
A	Aft Assembly Without Push Rods	
SCALE: 1:6	WEIGHT:	SHEET 1 OF 1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Fusaloge Assembly	Parts are Housed and Connected to Fusaloge.	1
2	Motor Rod Assembly	Guide and Further Security to Frame.	1
3	Fin Insert Assembly with Fins and Set Screw	Assembly to Control Fins.	1





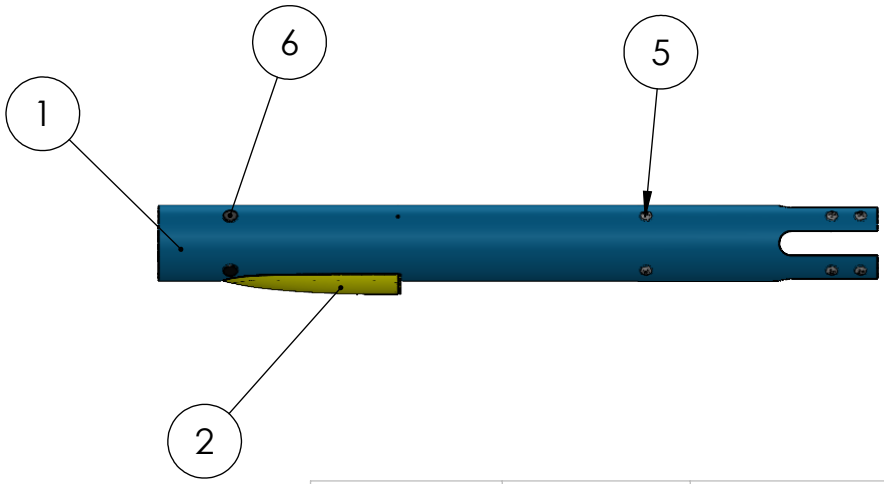
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN	Henry B	3/26/26
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
Aft Assy	ARC	MATERIAL	COMMENTS:		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

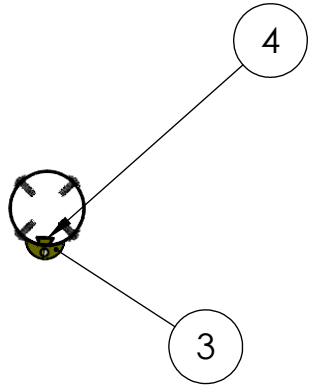
TITLE:

Fusaloge with Fin Insert Assembly

SIZE	DWG. NO.	REV
A	Fusaloge with Fin Insert Assembly	
SCALE: 1:12	WEIGHT:	SHEET 1 OF 1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	3.0 in Air Aft Frame	Parts are secured in the air frame.	1
2	camera shroud p3	Holds Camera.	1
3	camera lid p3	Encloses the Camera into the Shroud.	1
4	camera slide holder	Secures Camera Shroud to Air Frame. Slide On to Secure.	1
5	91772A540	1/4" Screws that Secures the Fin Insert and Motor Ring to Air Frame.	12
6	90136A483	Car Rivits that Secure Coupler with Upper Half.	4





		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
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			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
Aft Assy	ARC	MATERIAL	COMMENTS: 1/4" Screws and Car Rivits come from McMaster-Carr.		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

TITLE:

Fusaloge Assembly

SIZE	DWG. NO.	REV
A	Fusaloge Assembly	
SCALE: 1:8	WEIGHT:	SHEET 1 OF 1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Motor Rings	Sesures motor tube air frame.	1
2	94459A812	Heat Insert: Connects Aft Inserts to Fusaloge.	4

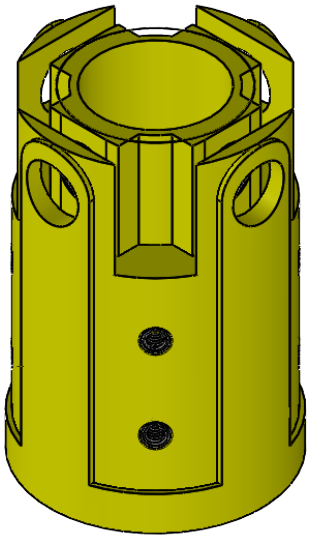
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN	Henry B	3/26/26
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
AFT Assy	ARC	MATERIAL	COMMENTS: Heat Insert comes from McMaster-Carr.		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

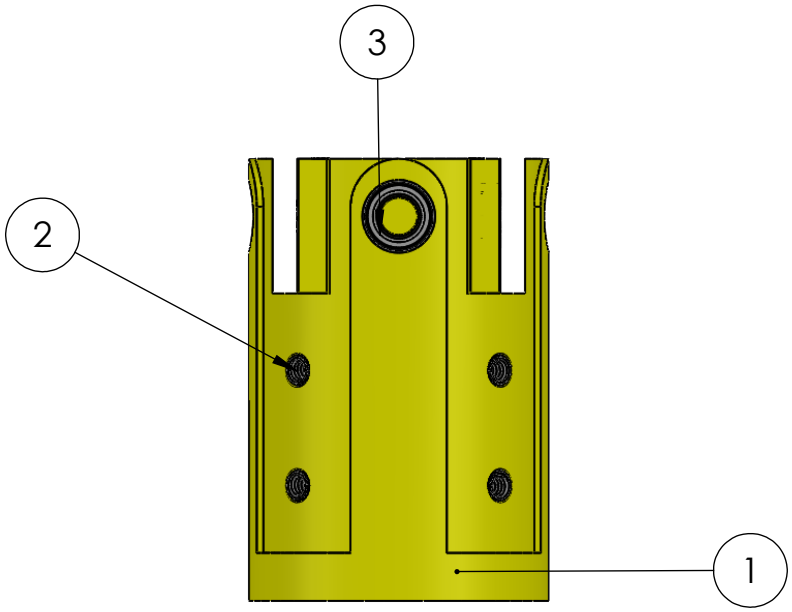
TITLE:

Motor Ring Assembly

SIZE	DWG. NO.	REV
A	Motor Rod Assembly	
SCALE: 1:1	WEIGHT:	SHEET 1 OF 1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Final Aft Insert (with heat insert holes) (1)	Holds Fins and Parts that Enable the Fins to Move,	1
2	94459A812	Connects Aft Inserts to Fusaloge.	8
3	5972K275	Secures the Fins Further, and Helps them Rotate.	4





Aft Assy	ARC	
NEXT ASSY	USED ON	
APPLICATION		DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ±
ANGULAR: MACH ± BEND ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

	NAME	DATE
DRAWN	Henry B	3/26/26
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

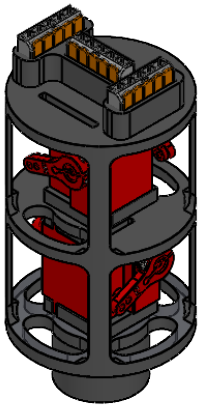
COMMENTS: Heat inserts and bearings are from McMaster-Carr.

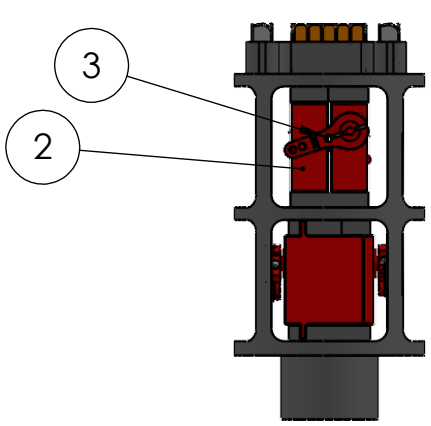
TITLE:

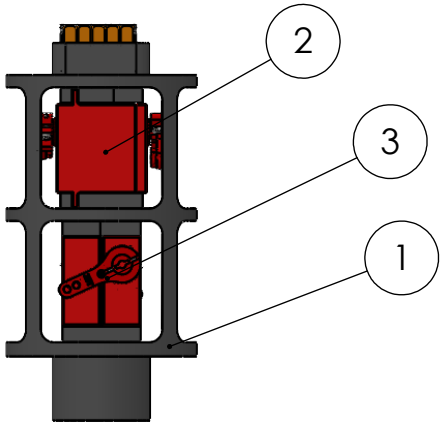
Fin Insert with Bearings and Heat Inserts

SIZE	DWG. NO.	REV
A	Fin Insert with Bearings and Heat Inserts	
SCALE: 1:2	WEIGHT:	SHEET 1 OF 1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Final Servo Holder	Holds the Servos.	1
2	Mechanism Servo	Servos connect to AV bay and controls fins.	4
3	SERVO ARM HORN WITH FASTENERS	Connects the Servo to Tie Rod Assembly.	4
4	Motor and Quick Connect Connector	Converges Servo Wires into One.	1







Aft Assy	ARC
NEXT ASSY	USED ON
APPLICATION	DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ±
ANGULAR: MACH ± BEND ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

	NAME	DATE
DRAWN	Henry B	3/26/26
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

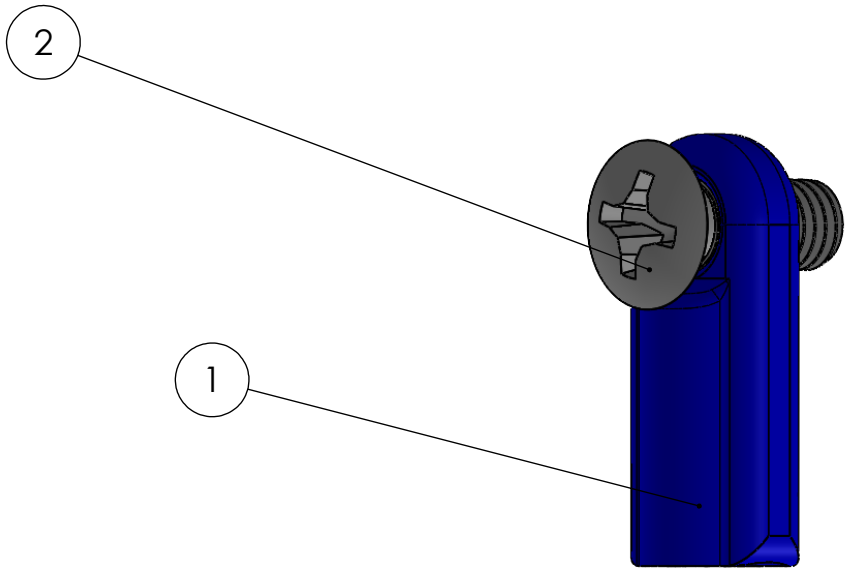
COMMENTS:

TITLE:

Servo and Servo Holder Assembly

SIZE	DWG. NO.	REV
A	Servo and Servo Holder Assembly	
SCALE: 1:3	WEIGHT:	SHEET 1 OF 1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Tie Rod	Connects the push rods to tie rod balls.	1
2	90258A178	Phillips Oval Head Screws; Sets the Fin in Place	1



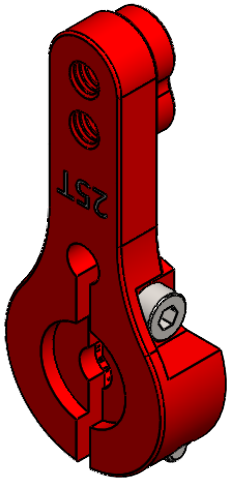
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN	Henry B	3/26/26
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
Aft Assy	ARC	MATERIAL	COMMENTS: Screw is from McMaster-Carr.		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

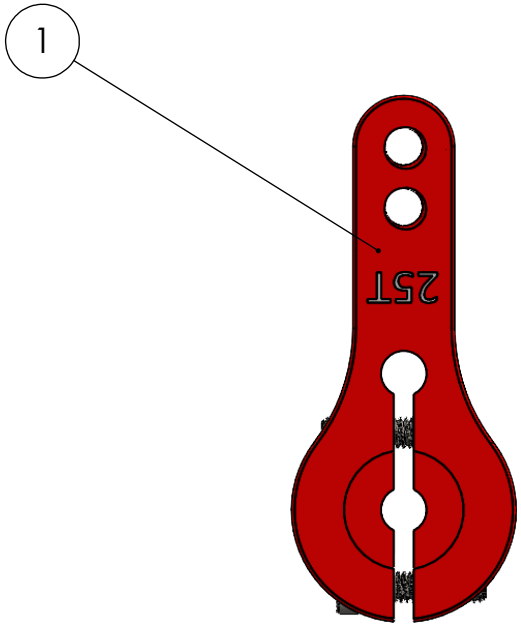
TITLE:

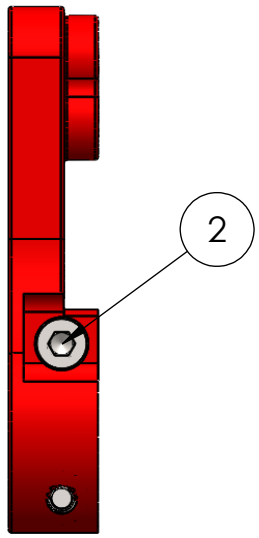
Tie Rod and Screw Assembly

SIZE	DWG. NO.	REV
A	Tie Rod and Screw Assembly	
SCALE: 4:1	WEIGHT:	SHEET 1 OF 1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	SERVO ARM HORN 25T ALUMINIUM	Connects Servo to Push Rod.	1
2	8mm	Secures the Servo Arm to Servo	2







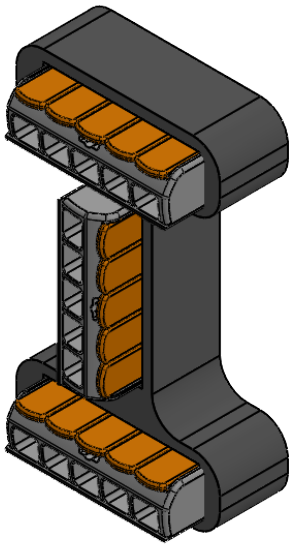
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN	Henry B	3/26/26
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
Servo Holder and Servo Assembly	ARC	MATERIAL	COMMENTS: Got part and assembly from Andrew Lves off of GrabCAD.		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

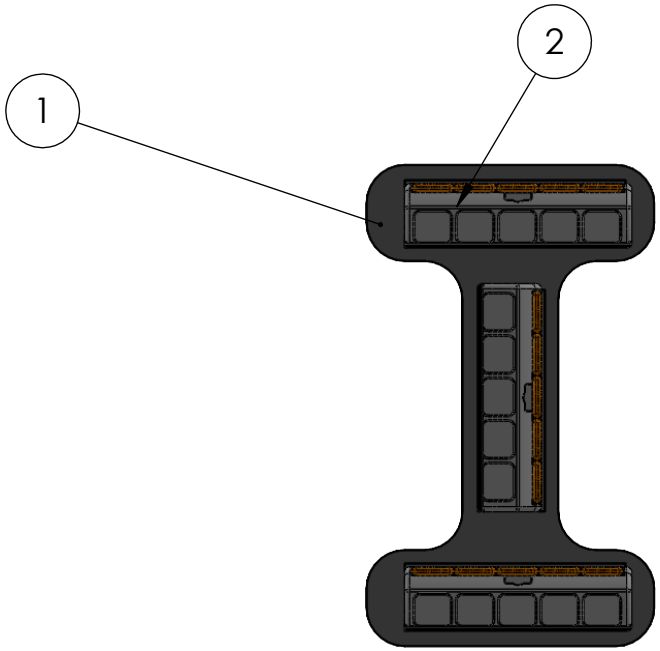
TITLE:

Servo Arm Horn with Fasteners

SIZE	DWG. NO.	REV
A	SERVO ARM HORN WITH FASTENERS	
SCALE: 2:1	WEIGHT:	SHEET 1 OF 1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Motor Connector Updated pt1	Holds the Wire Connectors/	1
2	8904T13	Wuick-Coonect Clamp: Converges the Servos into One Signal.	3





Servo and Servo Holder	ARC
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ±
ANGULAR: MACH ± BEND ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	Henry B	3/26/26
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

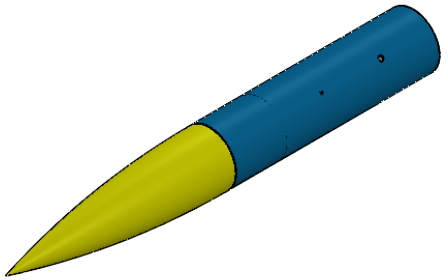
COMMENTS: Quick Connect clamp is from McMaster-Carr.

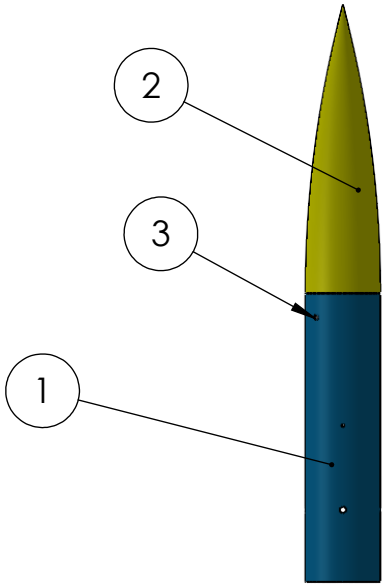
TITLE:

Motor and Quick Connector

SIZE	DWG. NO.	REV
A	Motor and Quick Connect Connector	
SCALE: 1:1	WEIGHT:	SHEET 1 OF 1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	3 in diamter 12 in long tube	Holds Parachute, and Connects to Couple Assembly.	1
2	Plastic 3in Ogive	Nose Cone.	1
3	96367A972	Shear Pin that Secures Nose Cone to Tube.	1





Full Coupler and Upper Body Assembly	ARC	
NEXT ASSY	USED ON	
APPLICATION		DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ±
ANGULAR: MACH ± BEND ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

	NAME	DATE
DRAWN	Henry B	3/26/26
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

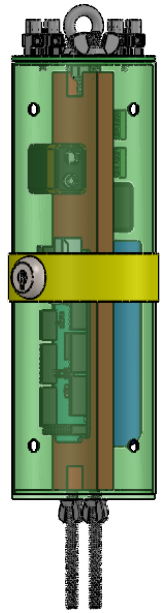
COMMENTS: Shear pin modle comes from McMaster-Carr. Actual shear pin is bought from Apogee Rockets.

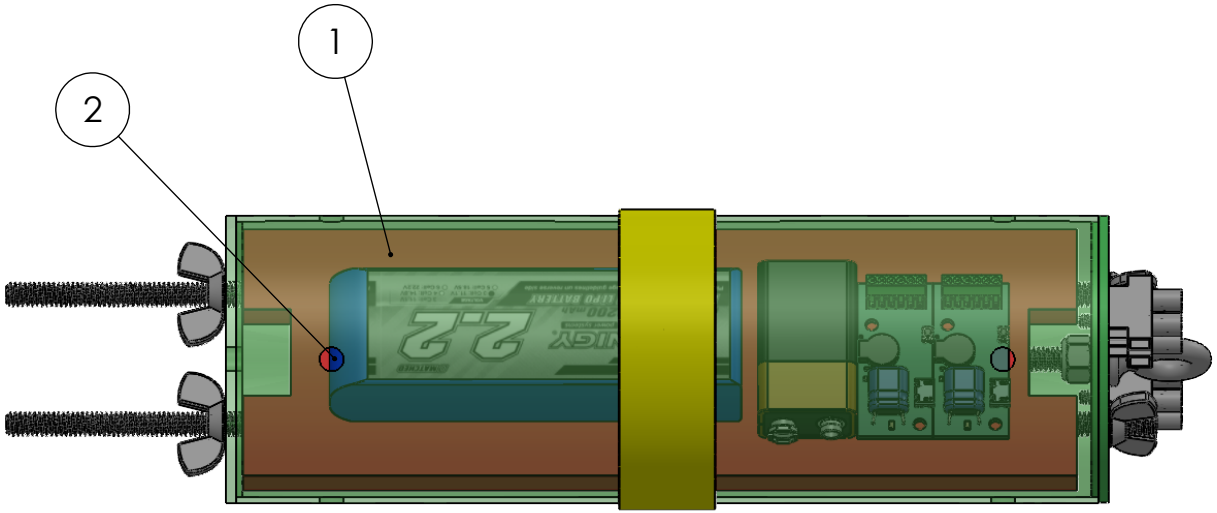
TITLE:

Upper Body Assembly

SIZE	DWG. NO.	REV
A	Nose Cone and Upper Body Assembly	
SCALE: 1:8	WEIGHT:	SHEET 1 OF 1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Enclosed Coupler Assembly	Secures AV Bay Components.	1
2	AV Bay Components Assembly	Controls Rocket Mechanisms and Ejection Charges.	1





		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN	Henry B	3/26/26
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
Enclosed Coupler with Nose Cone	ARC	MATERIAL	COMMENTS:		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

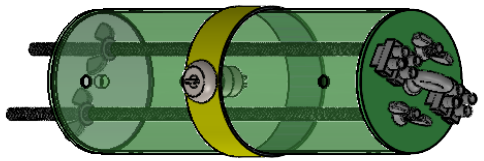
TITLE:

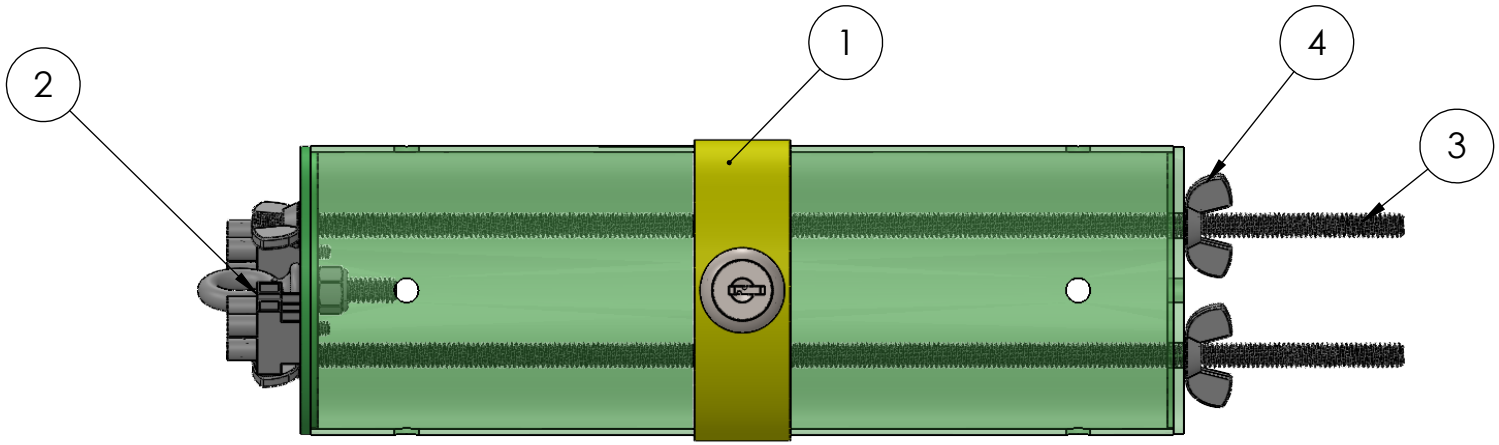
Final Enclosed Coupler

SIZE	DWG. NO.	REV
A	Enclosed Coupler with AV Bay Componenets	

SCALE: 1:2	WEIGHT:	SHEET 1 OF 1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Coupler Assembly	Holds AV Bay Components.	1
2	Bulk Plate Assembly	Encloses the Coupler; Protects from Blast.	1
3	99086A305	1/4" All Thread: Secures Coupler Assembly and Bulk Plate Assembly Together; AV Bay Sled Will Go Between All Threads.	2
4	90866A029	1/4" Zinc-Plated Steel Wing Nut	2





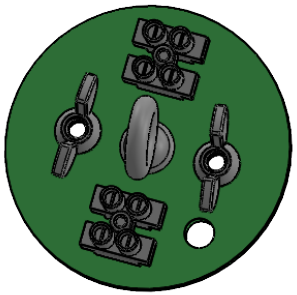
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN	Henry B	3/26/26
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
Complete AV Bay	ARC	MATERIAL	COMMENTS: All thread and wing nuts come from McMaster-Carr.		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

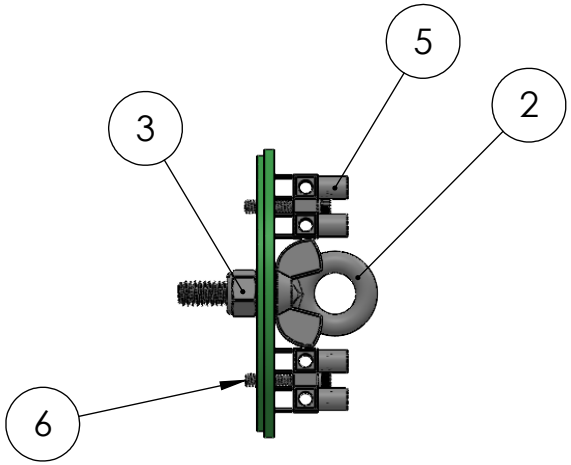
TITLE:

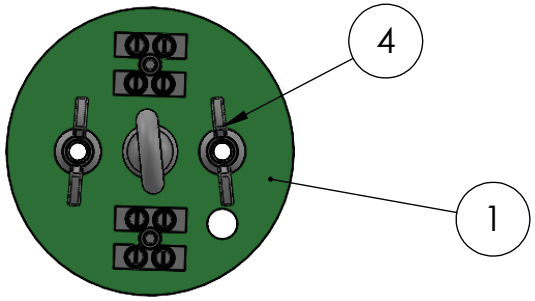
Enclosed Coupler Assembly

SIZE	DWG. NO.	REV
A	Enclosed Coupler Assembly	
SCALE: 1:2	WEIGHT:	SHEET 1 OF 1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Bulk Plate Lid	Goes ontop of Coupler; Protects Electronics from Blast.	1
2	30295T22	1/4" Fiberglass Routing Eyebolt; Connect to Parachute Cord	1
3	97135A210	1/4" Nut: Secures Eyebolt	1
4	90866A029	1/4" Zinc-Plated Steel Wing Nut	2
5	7618K631	Touch-Safe Terminal Block; Connects to Ravens; Ignites Black Powder	2
6	91251A151	0.15" Screw: Secures Terminal Block to Bulk Plate	2







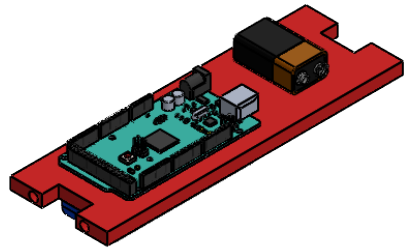
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN	Henry B	3/26/26
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
Coupler Assembly	ARC	MATERIAL	COMMENTS: All other parts come from McMaster-Carr.		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

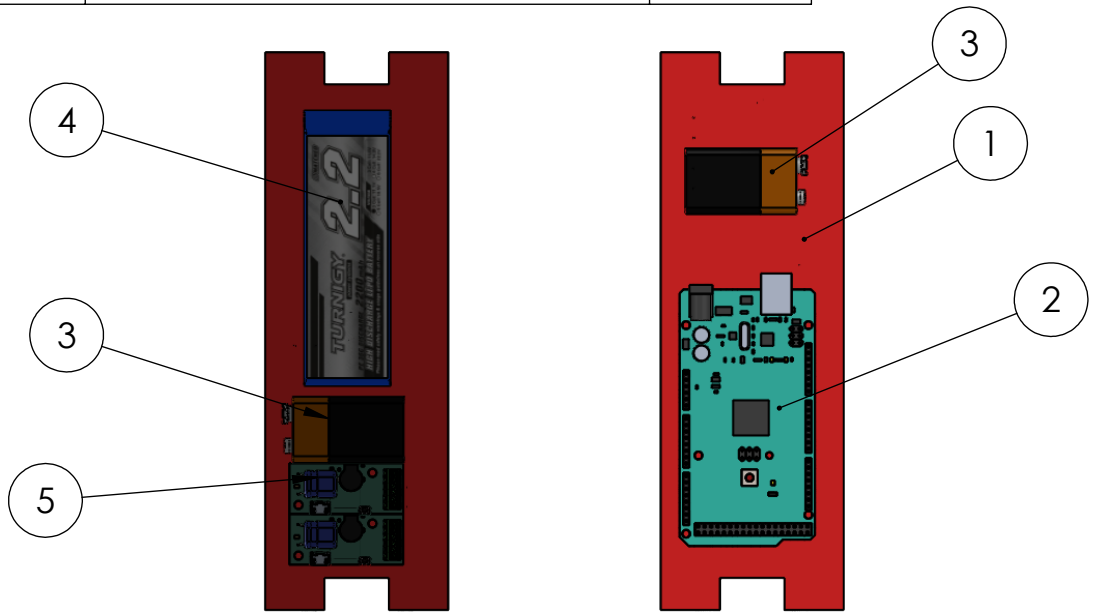
TITLE:

Bulk Plate Assembly

SIZE	DWG. NO.	REV
A	Bulk Plate Assembly	
SCALE: 1:2	WEIGHT:	SHEET 1 OF 1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Updated Sled 3.0	Holds Eletrical Componets of Control System	1
2	ArduinoMega	Control Servo Motors	1
3	9V-battery (1)	Powers Arduino and Ravens	2
4	3s Turnigy Li-Po battery	Powers Servo Motors	1
5	Raven 4 v9	Used for Black Powder Ejection	2





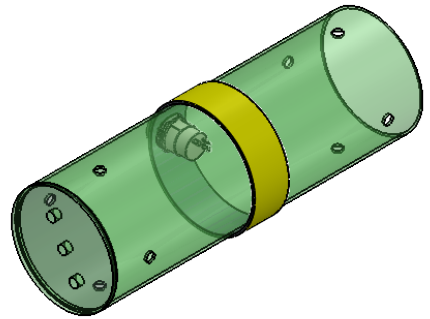
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN	Henry B	3/26/26
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
Coupler Assembly	ARC	MATERIAL	COMMENTS: All other parts other than the sled comes from GrabCad.		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

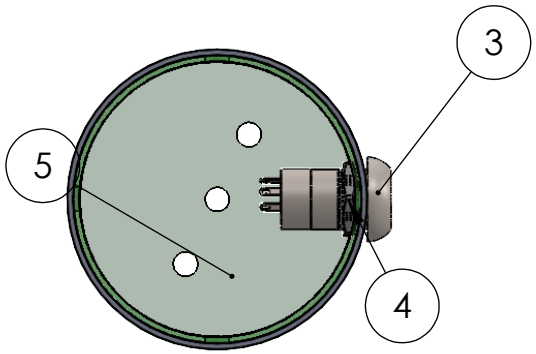
TITLE:

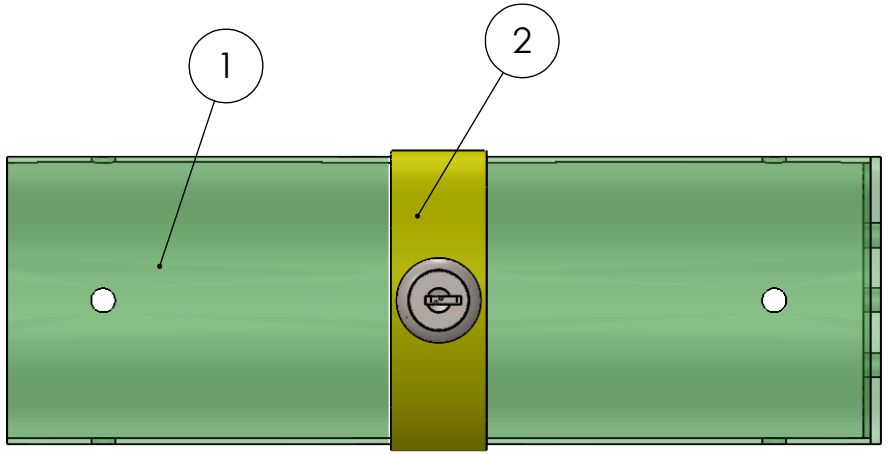
AV Bay Components

SIZE	DWG. NO.	REV
A	AV Bay Components Assembly	
SCALE: 1:4	WEIGHT:	SHEET 1 OF 1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	coupler	Holds AV Bay Components	1
2	3in in diamter 1 in long switch band	Seperates Upper Body and Lower Body.	1
3	7278K19	3/4" Key Switch: Turns Aurdino On and Off.	1
4	91862A338	3/4" Nut: Secures On and Off Switch to Coupler Wall.	1
5	Avionic Lid 3 inch	Encloses Coupler in the Back.	1





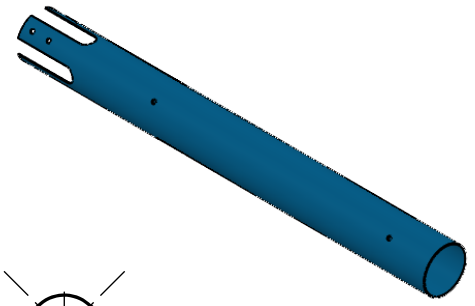


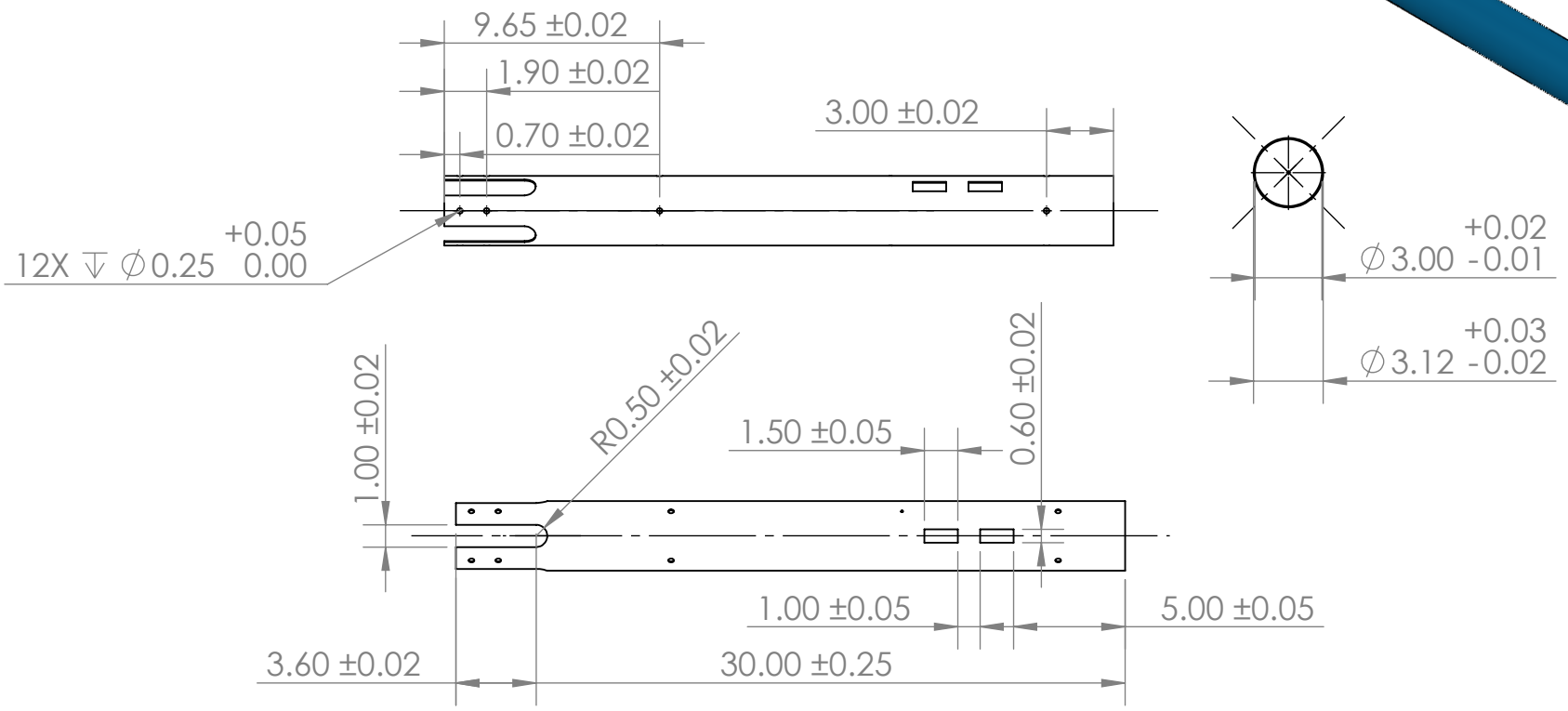
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN		
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
Enclosed Coupler	ARC	MATERIAL	COMMENTS: Key Switch parts are from McMaster-Carr.		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

TITLE:

Coupler Assembly

SIZE	DWG. NO.	REV
A	Coupler Assembly	
SCALE: 1:4	WEIGHT:	SHEET 1 OF 1



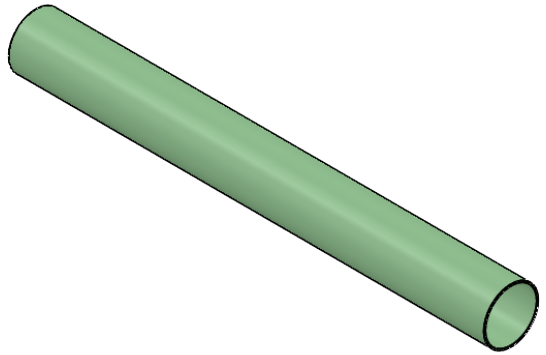


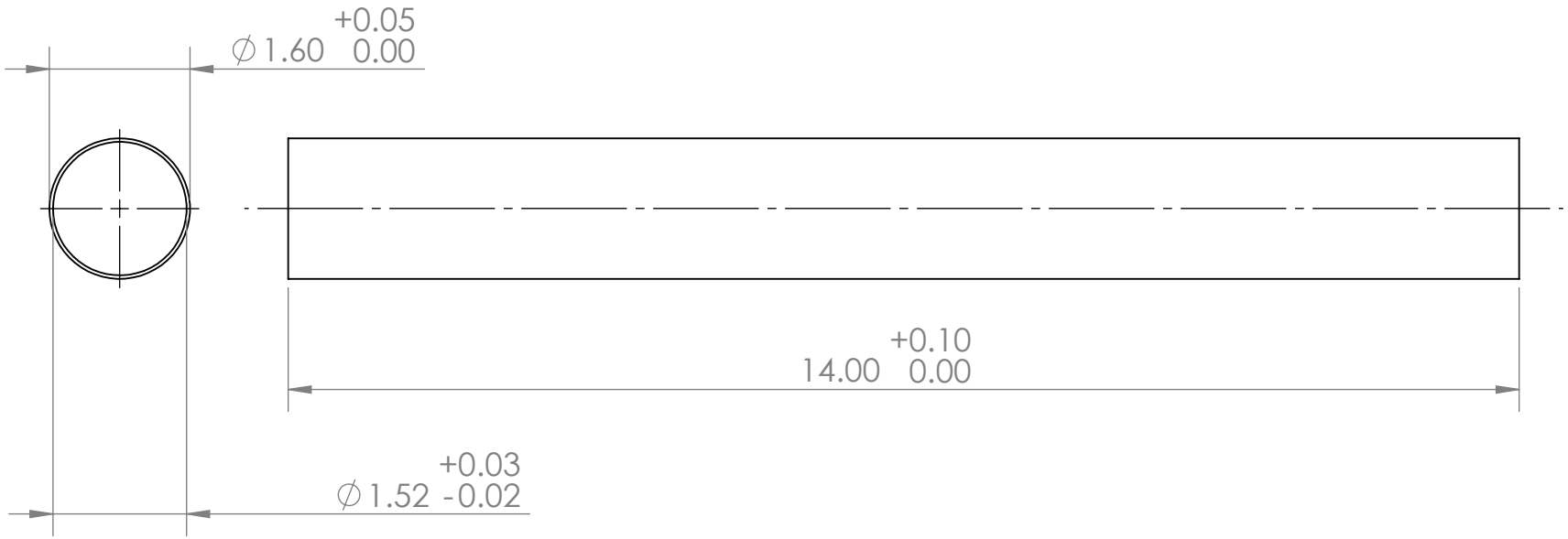
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN	Henry B	3/26/26
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
Control Mech	ARC	MATERIAL: G12 Fiberglass	COMMENTS: Inital 3" Diamter tube bought from Mad Cow Rocketry.		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

TITLE:

3" Aft Air Frame

SIZE	DWG. NO.	REV
A	3.0 in Air Aft Frame with Holes	
SCALE: 1:8	WEIGHT:	SHEET 1 OF 1





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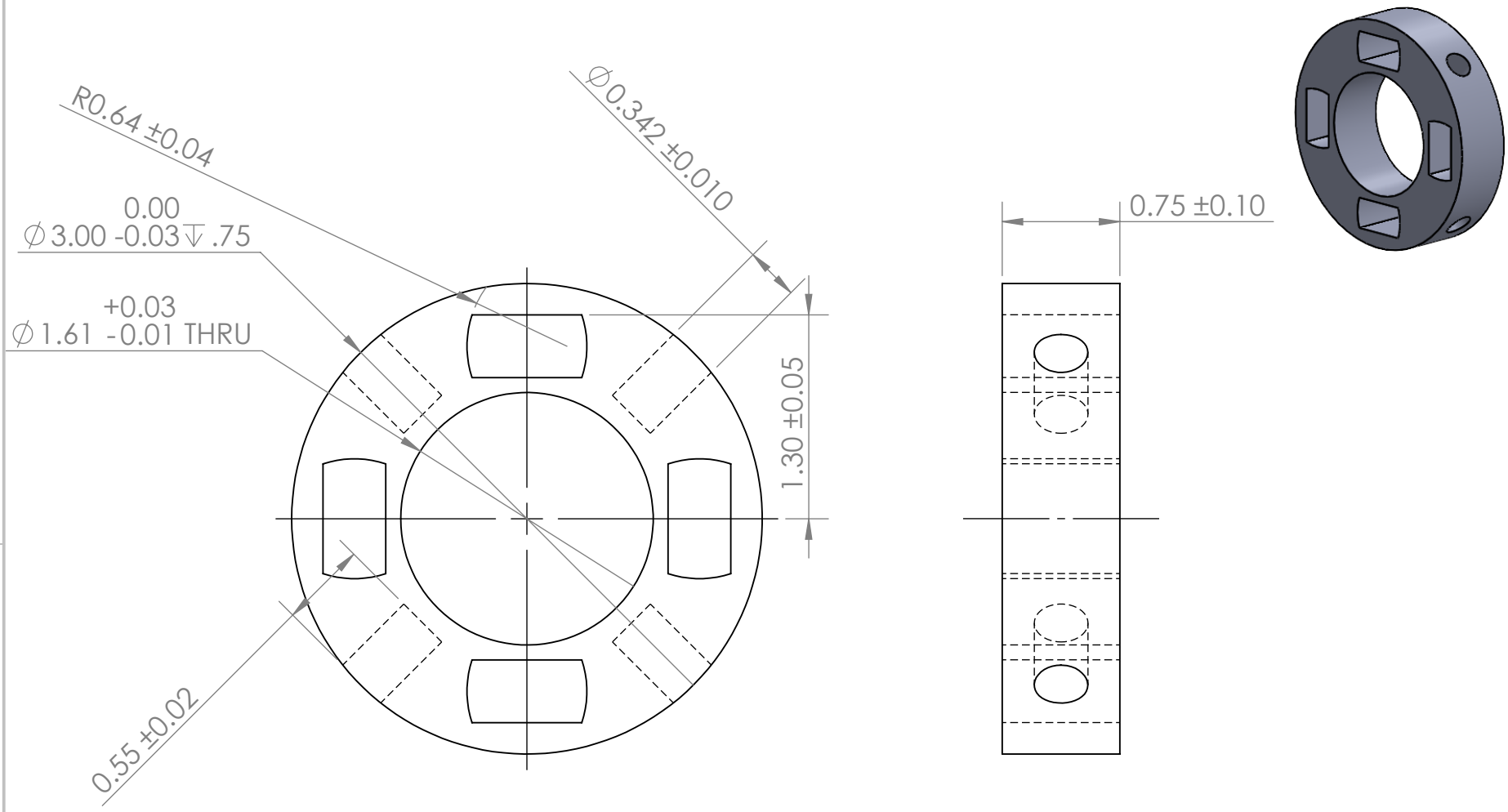
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
Control Mech	ARC	MATERIAL: G12 Fiber Glass	COMMENTS: Holds the I-500 Motor (Friction Fit). Bought from Mad Cow Rocketry.		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

TITLE:

38 mm Motor Tube

SIZE	DWG. NO.	REV
A	38 mm motor tube	
SCALE: 1:2	WEIGHT:	SHEET 1 OF 1

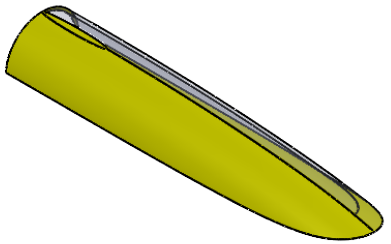


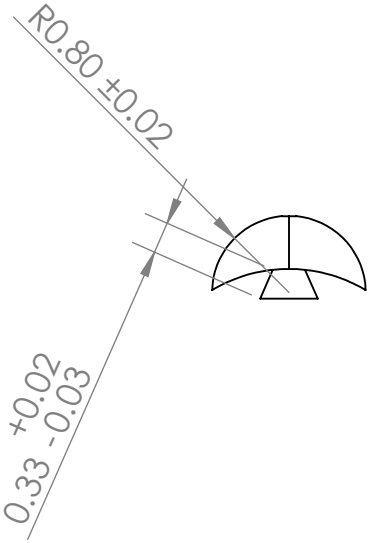
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN	Henry B	3/26/26
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
Fusaloge	ARC	MATERIAL: PLA	COMMENTS:		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

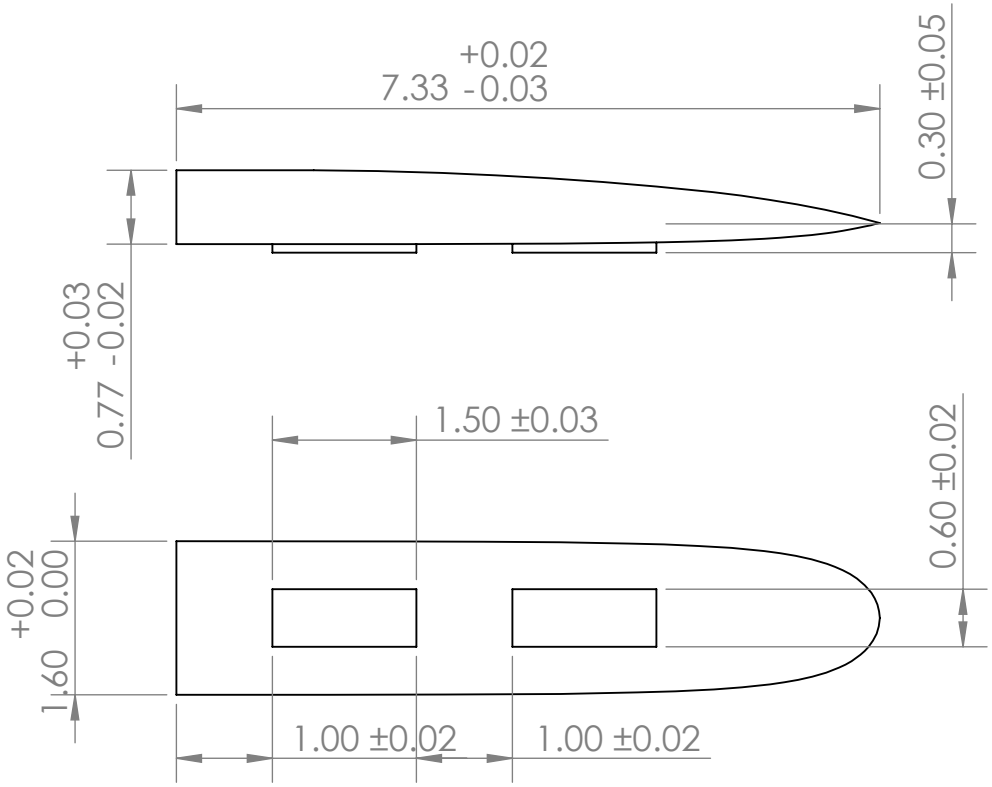
TITLE:

Motor Ring

SIZE	DWG. NO.	REV
A	Updated Motor Rings	
SCALE: 1:1	WEIGHT:	SHEET 1 OF 1



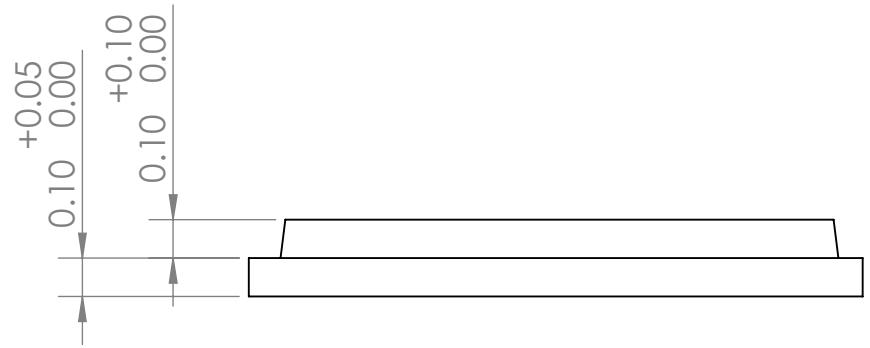


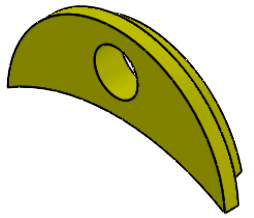


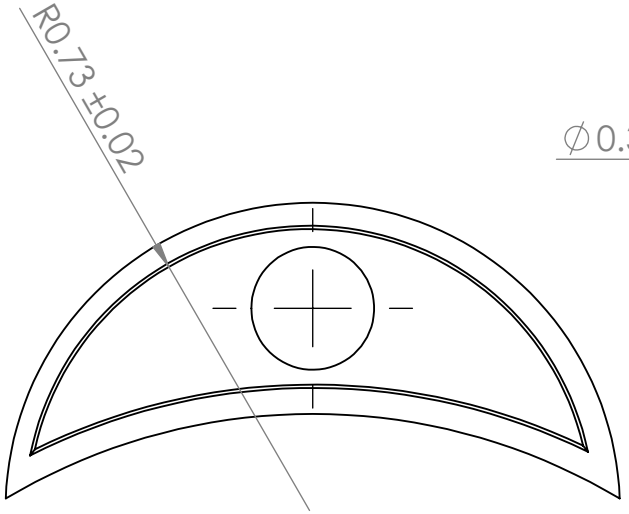
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN	Henry B	3/26/26
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
Fusaloge	ARC	MATERIAL: PLA	COMMENTS:		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

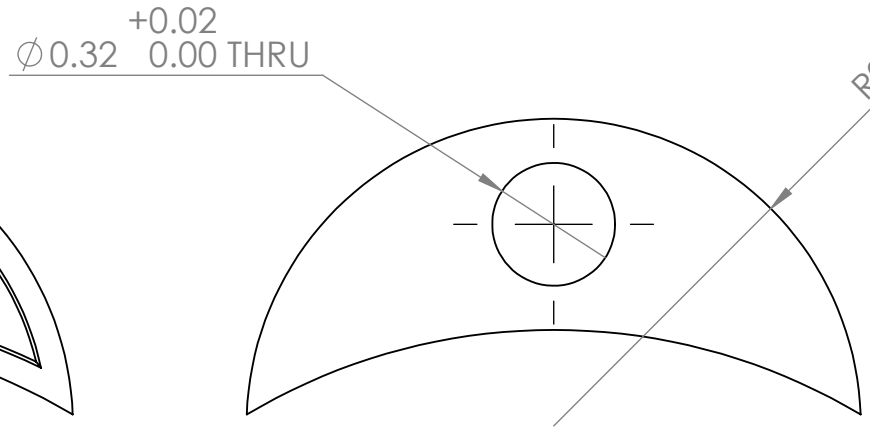
TITLE:
Camera Shroud

SIZE	DWG. NO.	REV
A	camera shroud p3	
SCALE: 1:2	WEIGHT:	SHEET 1 OF 1







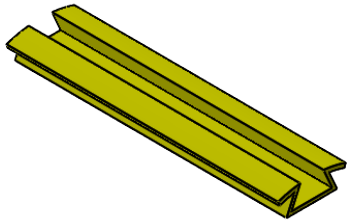


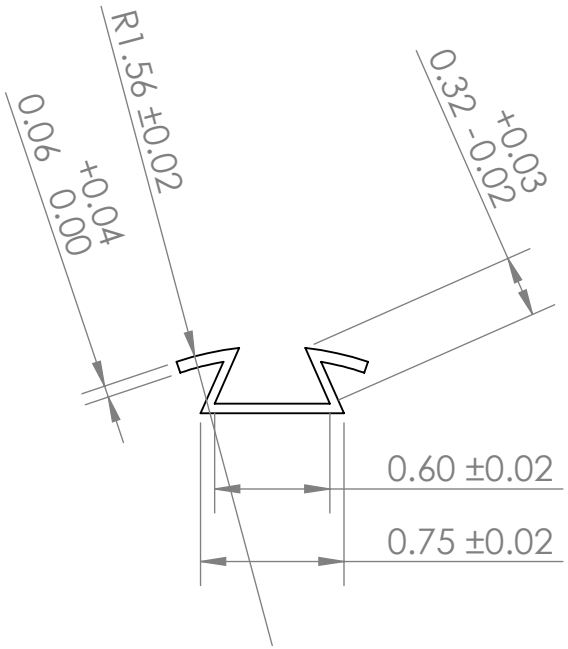
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN	Henry B	3/26/26
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
Fusaloge	ARC	MATERIAL: PLA	COMMENTS:		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

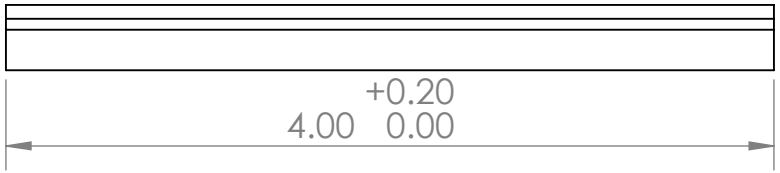
TITLE:

Camera Lid

SIZE	DWG. NO.	REV
A	camera lid p3	
SCALE: 2:1	WEIGHT:	SHEET 1 OF 1







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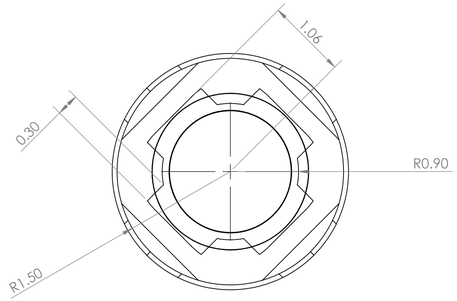
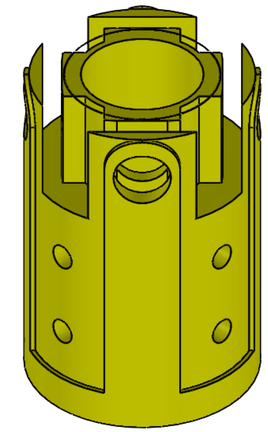
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
Fusaloge	ARC	MATERIAL: PLA	COMMENTS:		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

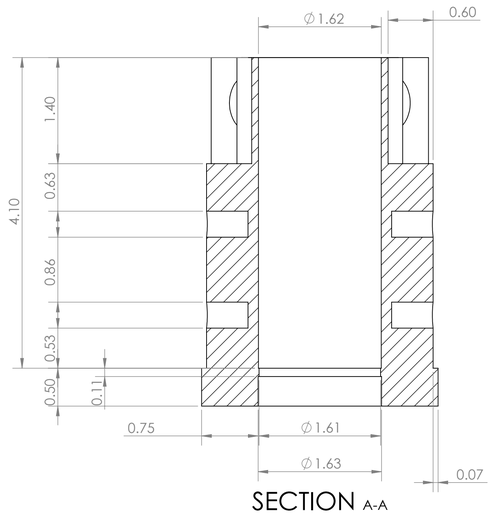
TITLE:

Camera Slide Holder

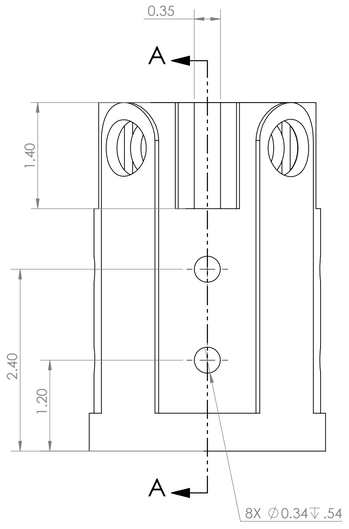
SIZE	DWG. NO.	REV
A	camera slide holder (1)	
SCALE: 1:1	WEIGHT:	SHEET 1 OF 1

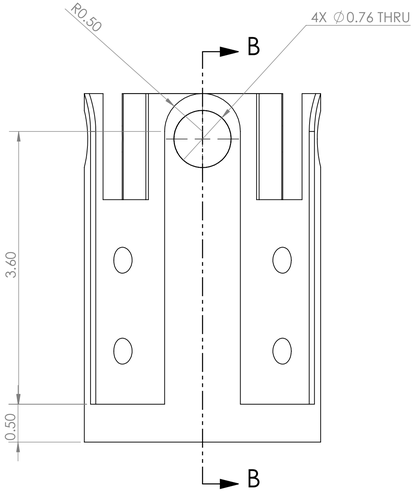


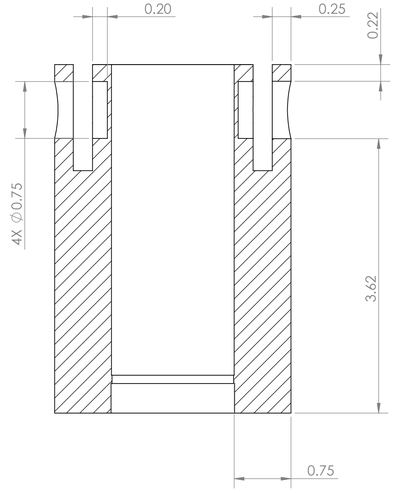




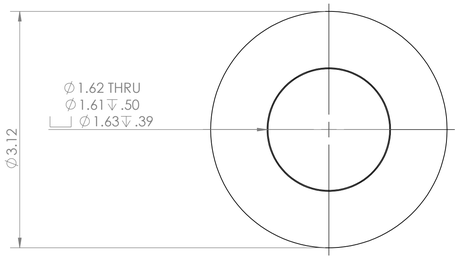
SECTION A-A







SECTION B-B



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.

Control Mech	ARC
NEXT ASSY	USED ON
APPLICATION	DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
TOLERANCES: ±0.02
FRACTIONAL ±
ANGULAR: MACH ± BEND ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL: PLA

FINISH

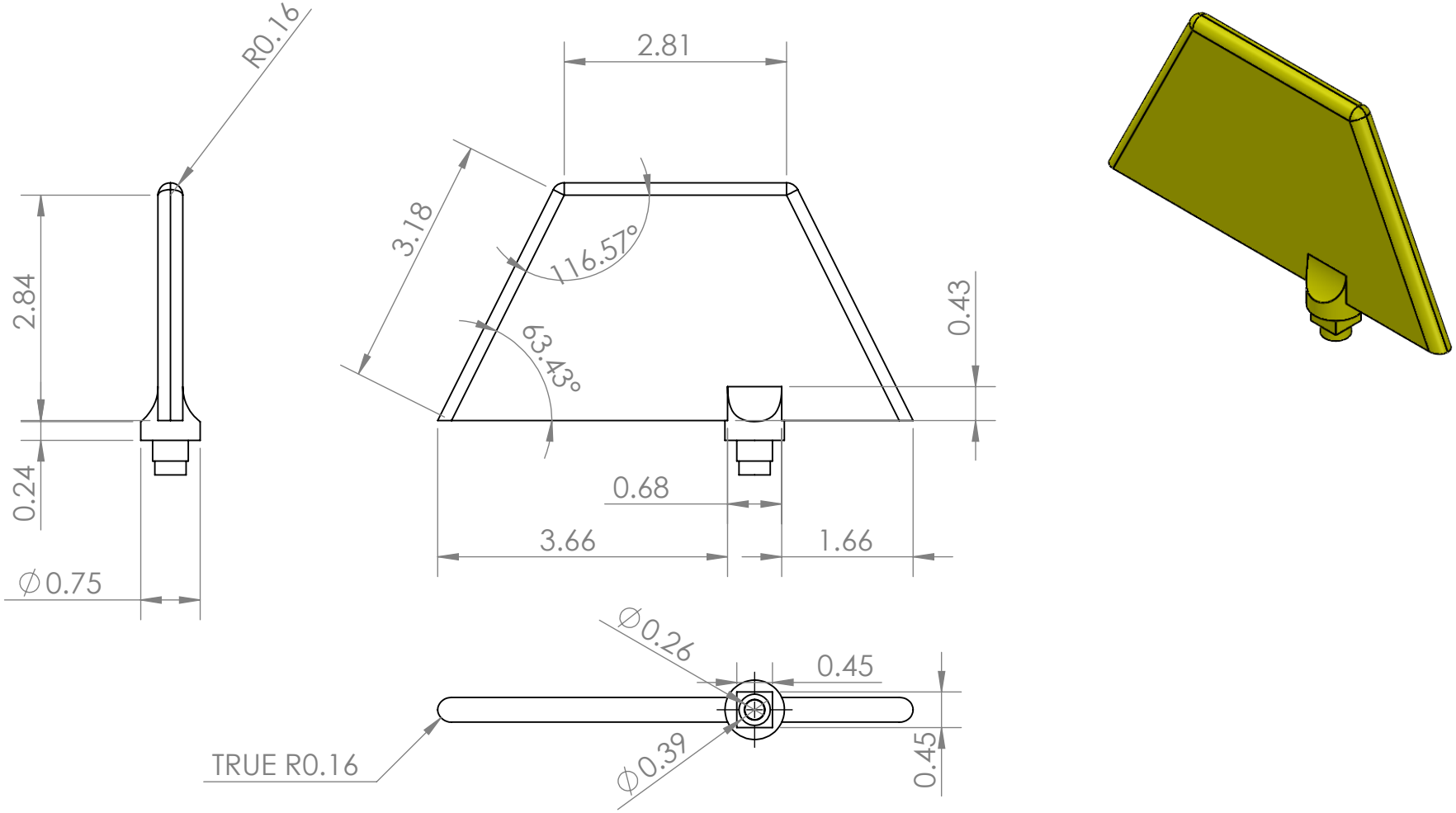
	NAME	DATE
DRAWN	Henry B	3/26/26
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

TITLE: Aft Insert

SIZE	DWG. NO.	REV
D	Final Aft Insert (with heat insert holes) (1)	

SCALE: 1:1 WEIGHT: SHEET 1 OF 1

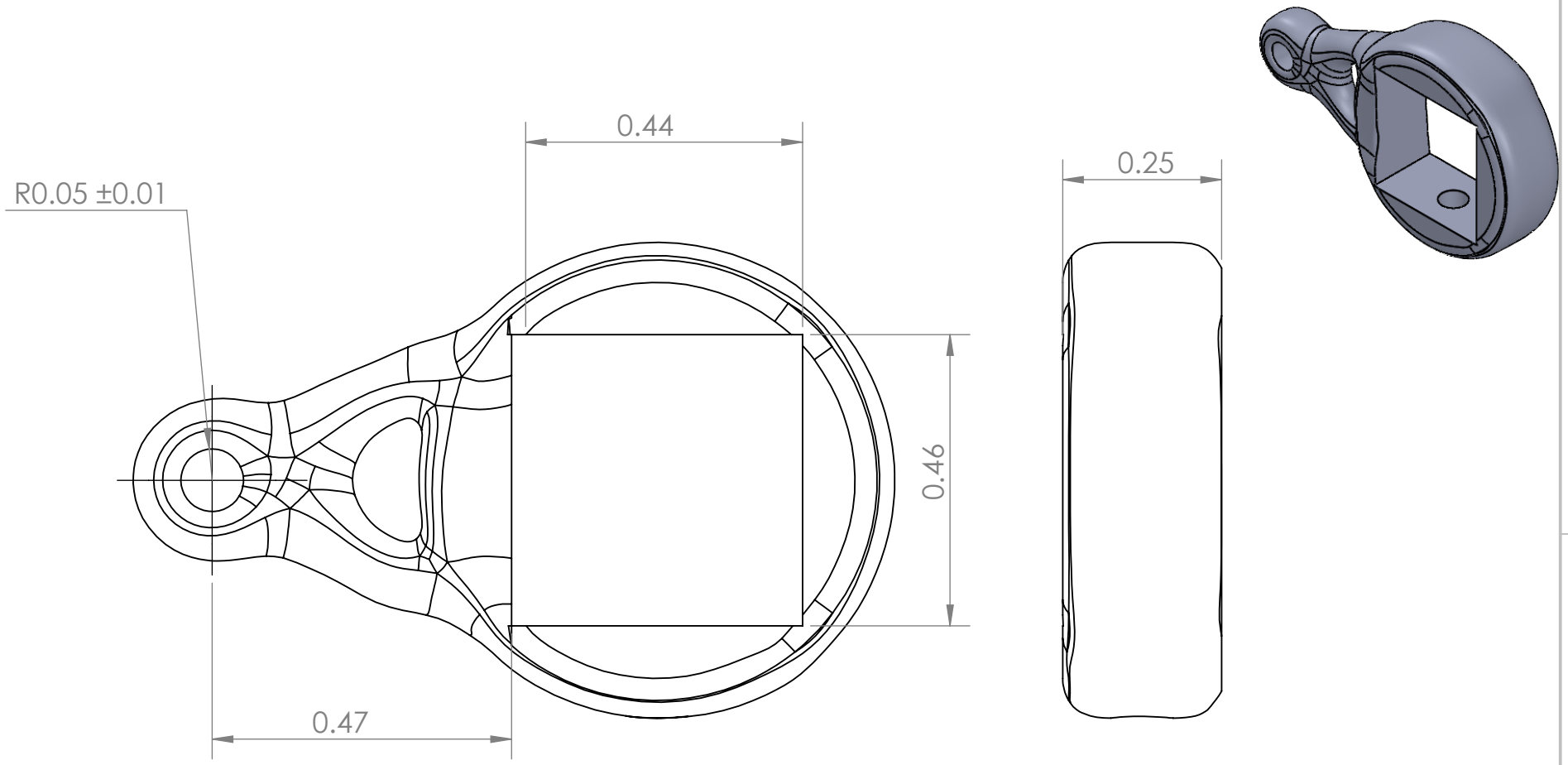


		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: ± 0.02 FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN	Henry B	3/26/26
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
Contrl Mech	ARC	MATERIAL: PLA	COMMENTS:		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

TITLE:

Final Fin

SIZE	DWG. NO.	REV
A	Final Fin	
SCALE: 1:2	WEIGHT:	SHEET 1 OF 1

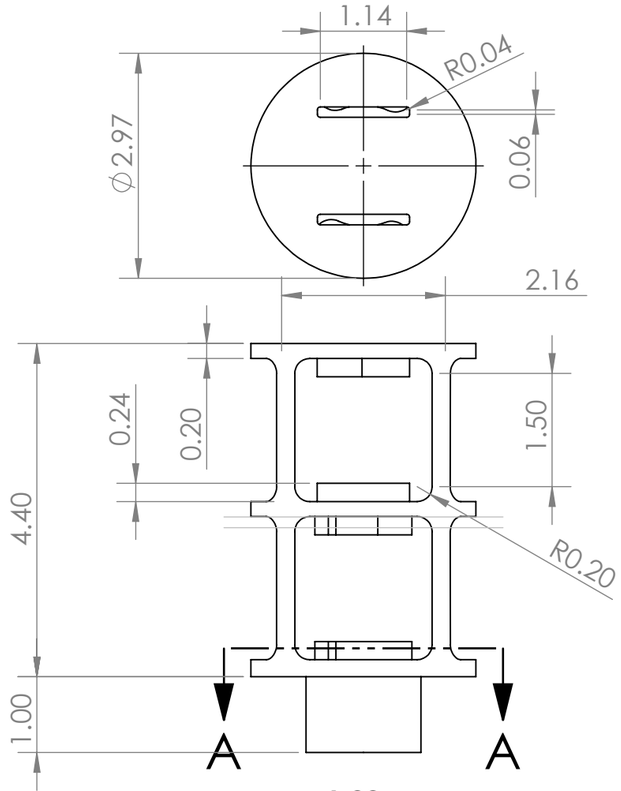


		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: ±0.02 FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN	Henry B	3/26/26
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
Control Mech	ARC	MATERIAL: Steel	COMMENTS: This part was optimized, and is metal 3D printed. The important dimentions were labled.		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

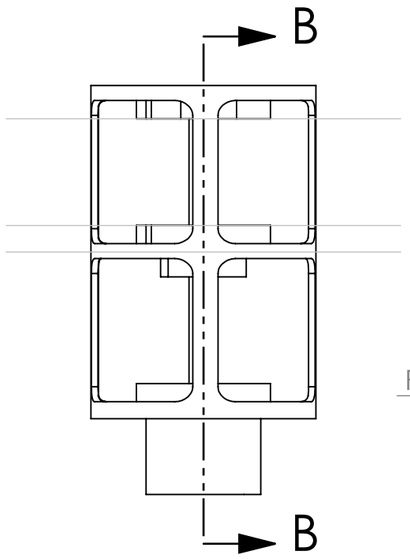
TITLE:

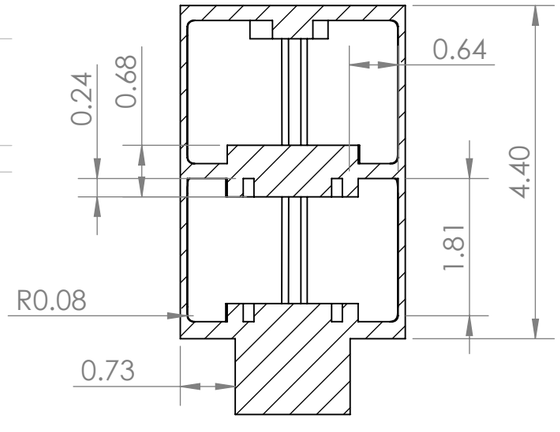
Lower Fin Arm

SIZE	DWG. NO.	REV
A	Active Rocket Lower Fin Arm V4	
SCALE: 4:1	WEIGHT:	SHEET 1 OF 1

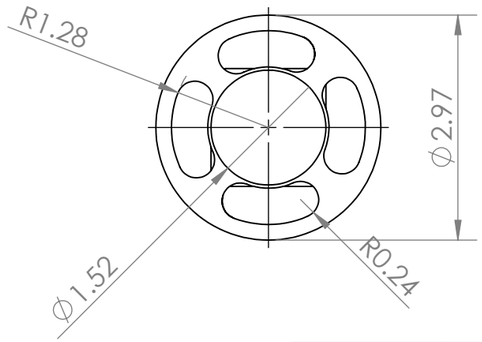


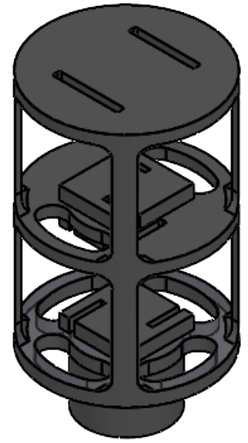
SECTION A-A



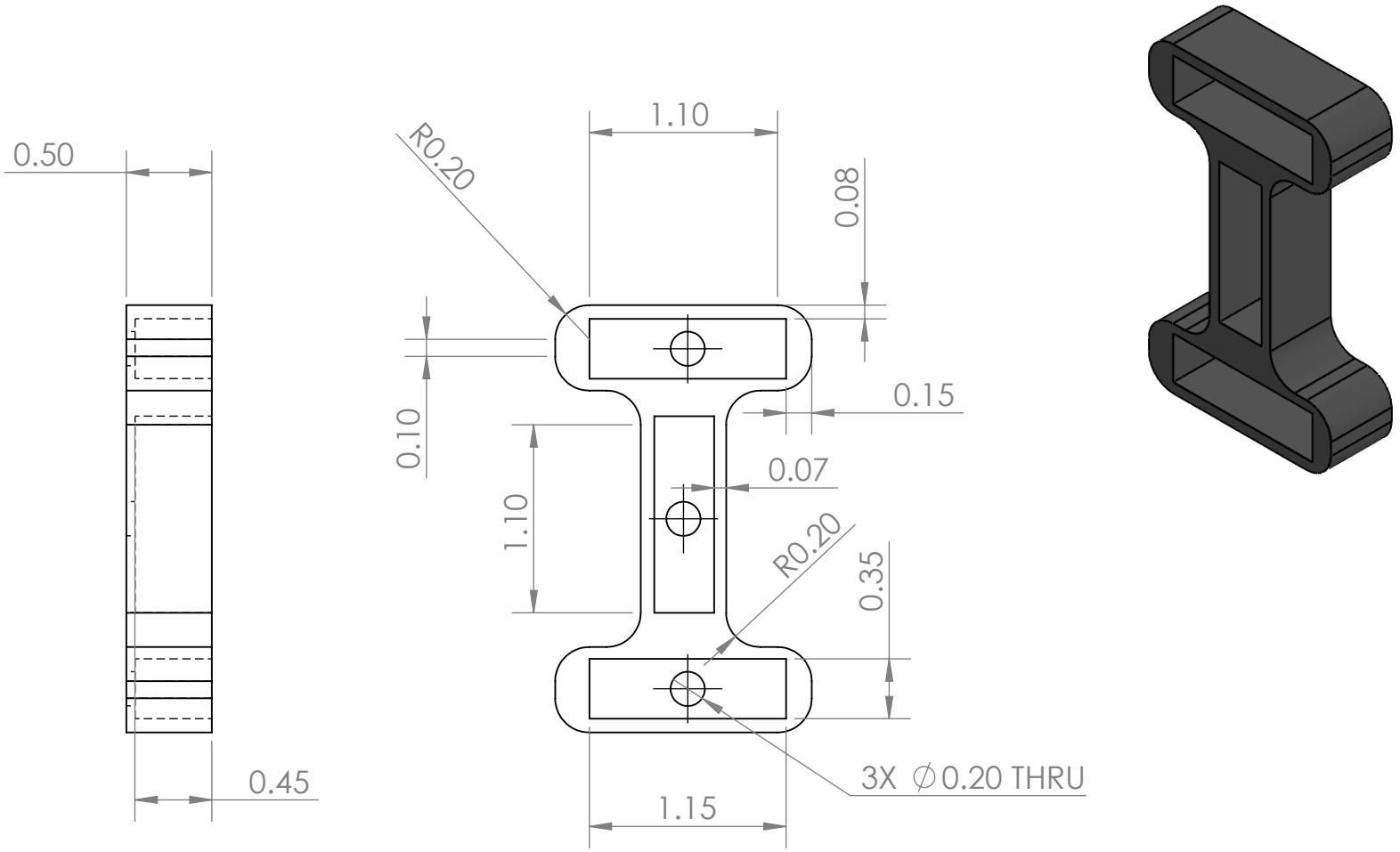


SECTION B-B





		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	
		DIMENSIONS ARE IN INCHES TOLERANCES: ±0.02 FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN	Henry B	3/26/26	TITLE: Servo Holder
			CHECKED			
			ENG APPR.			
			MFG APPR.			
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.			
Control Mech	ARC	MATERIAL: PLA	COMMENTS:			SIZE B / DWG. NO. Final Servo Holder / REV
NEXT ASSY	USED ON	FINISH				
APPLICATION		DO NOT SCALE DRAWING				SCALE: 1:2 / WEIGHT: / SHEET 1 OF 1



		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: ±0.02 FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN	Henry B	3/26/26
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
Control Mech	ARC	MATERIAL: PLA	COMMENTS:		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

TITLE:

Motor Connector

SIZE	DWG. NO.	REV
A	Motor Connector Updated pt1	
SCALE: 1:1	WEIGHT:	SHEET 1 OF 1

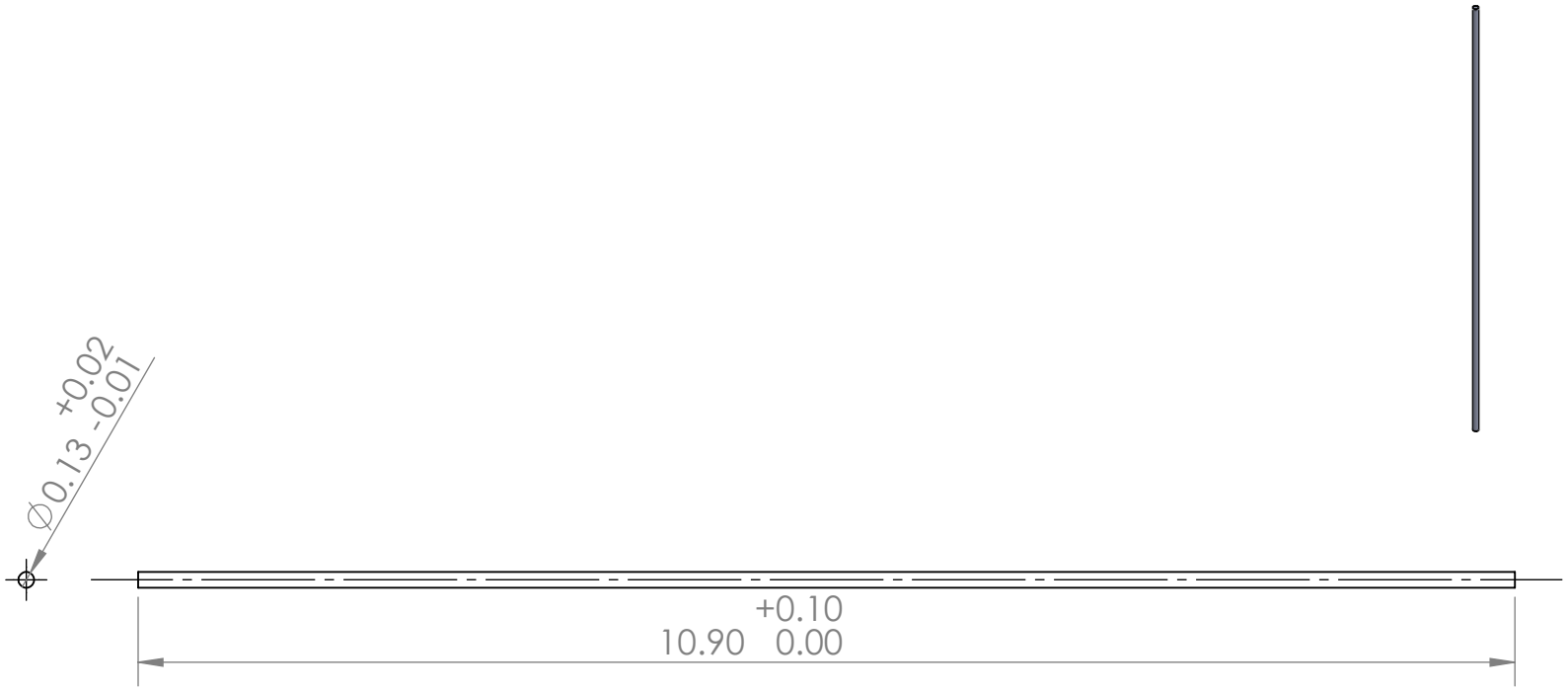
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN	Henry B	2/2/26
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
Control Mech	ARC	MATERIAL: Stainless Steel	COMMENTS:		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

TITLE:

13 in Control Rod

SIZE	DWG. NO.	REV
A	13 inch push rod	

SCALE: 1:4 | WEIGHT: | SHEET 1 OF 1

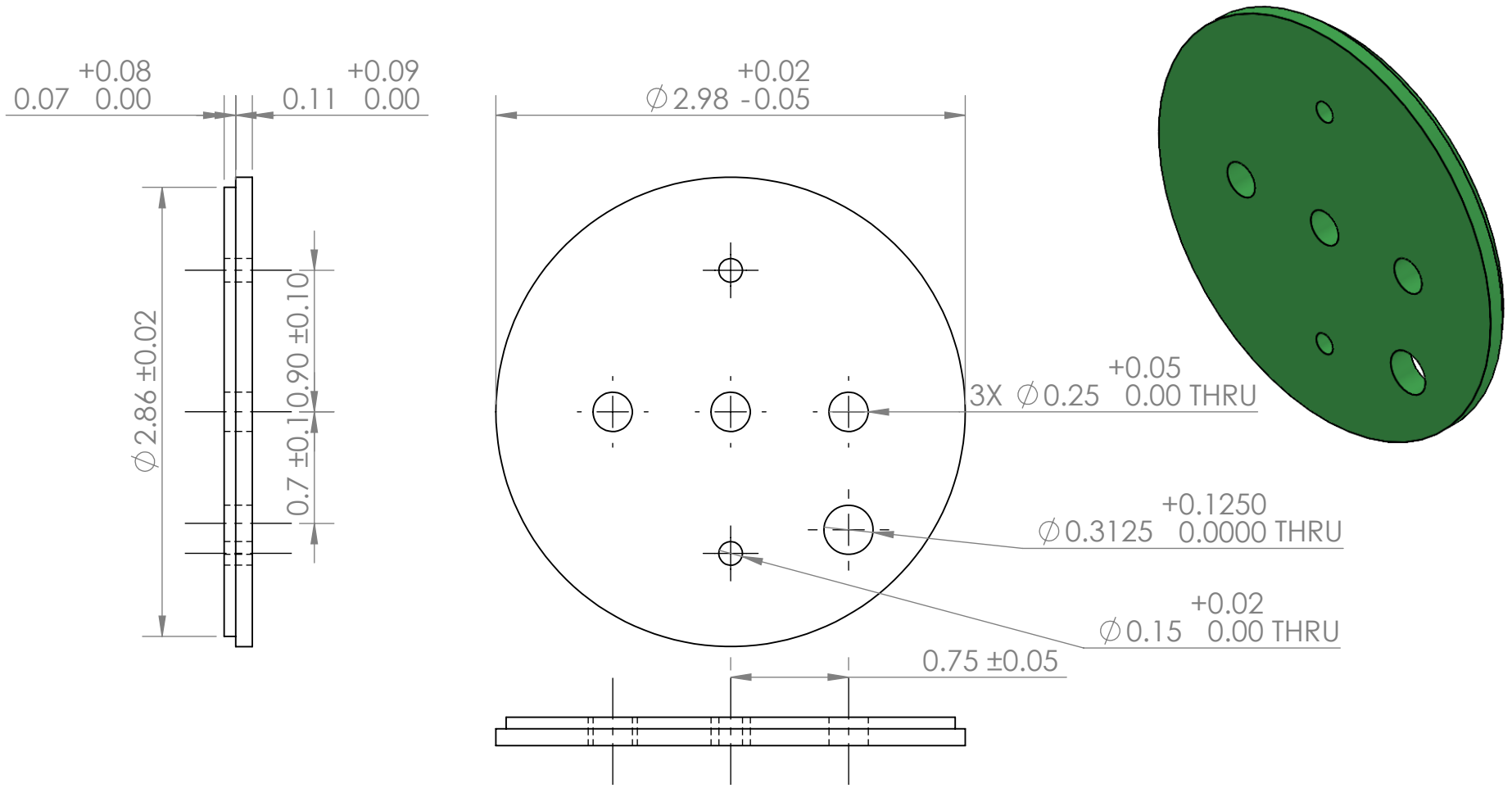


		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN	Henry B	2/2/26
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
Control Mech	ARC	MATERIAL: Stainless Steel	COMMENTS:		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

TITLE:

11in Push Rod

SIZE	DWG. NO.	REV
A	push 11 inc	
SCALE: 1:4	WEIGHT:	SHEET 1 OF 1

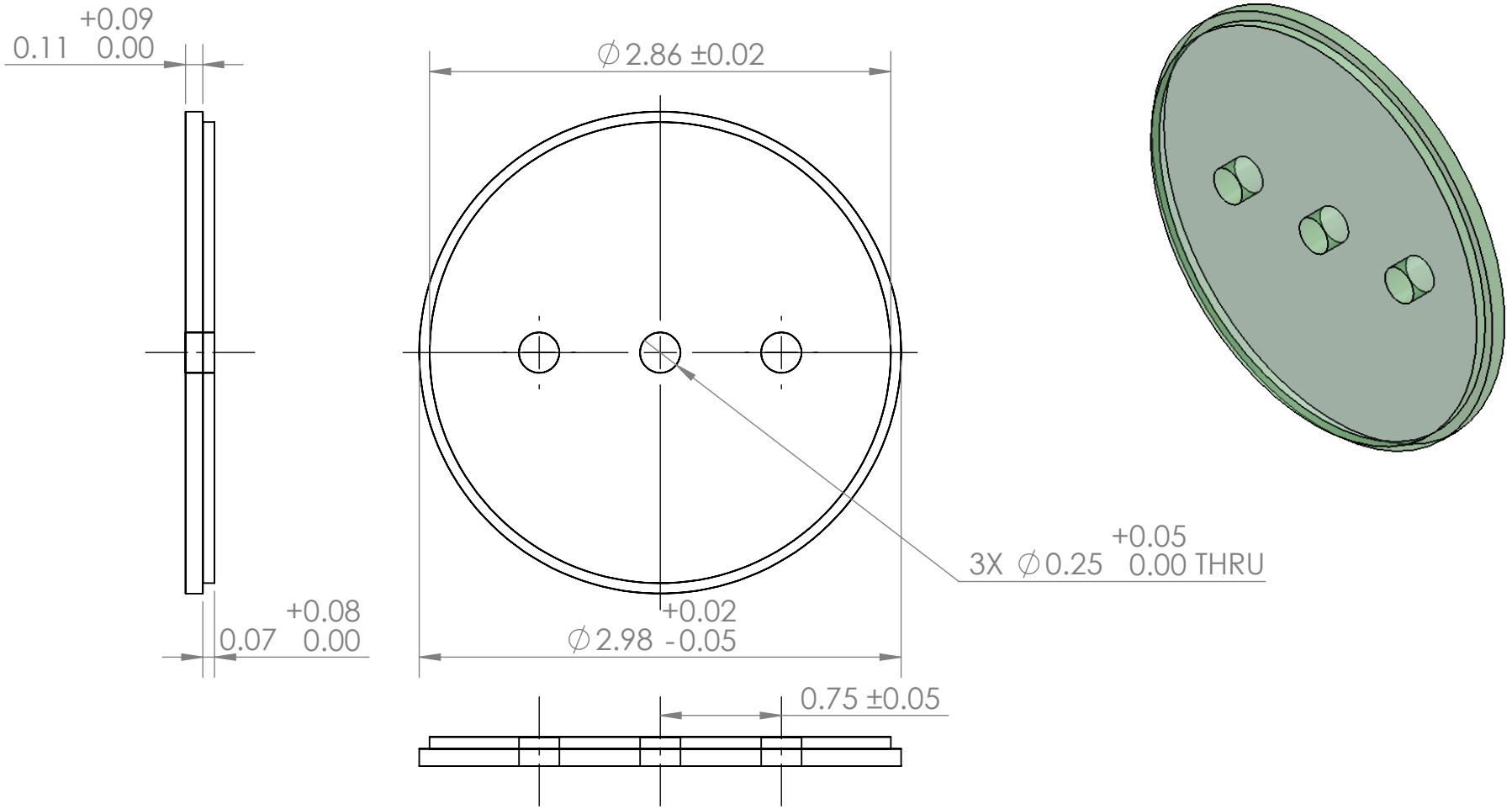


		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN	Henry B	4/14/26
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
Enclosed Coupler	ARC	MATERIAL: Steel	COMMENTS: bought from Mad Cow Rocketry. Drilled Middle hole.		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

TITLE:

Bulk Plate Lid

SIZE	DWG. NO.	REV
A	Bulk Plate Lid	
SCALE: 1:1	WEIGHT:	SHEET 1 OF 1

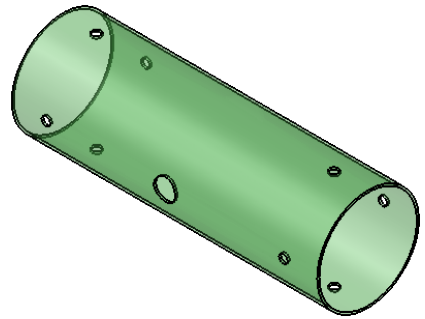


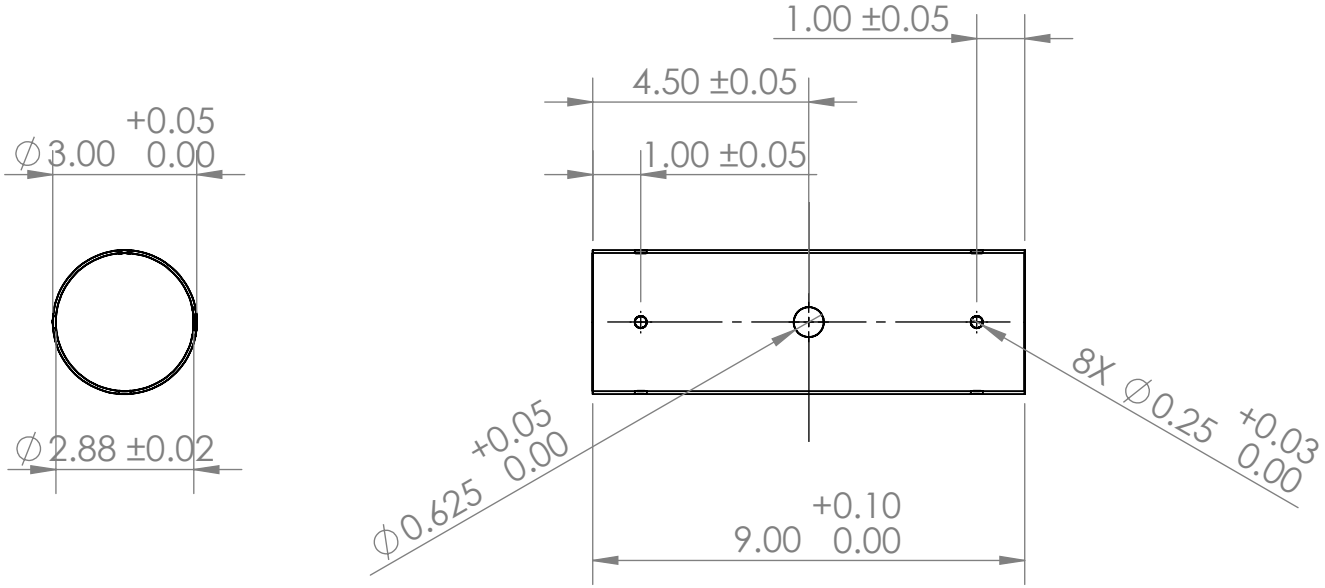
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN	Henry B	4/14/26
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
Coupler	ARC	MATERIAL: G12 Fiberglass	COMMENTS: Bought from Mad Cow Rocketry. Drilled larger hole from inital part.		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

TITLE:

Coupler Lid

SIZE	DWG. NO.	REV
A	Coupler Lid	
SCALE: 1:1	WEIGHT:	SHEET 1 OF 1



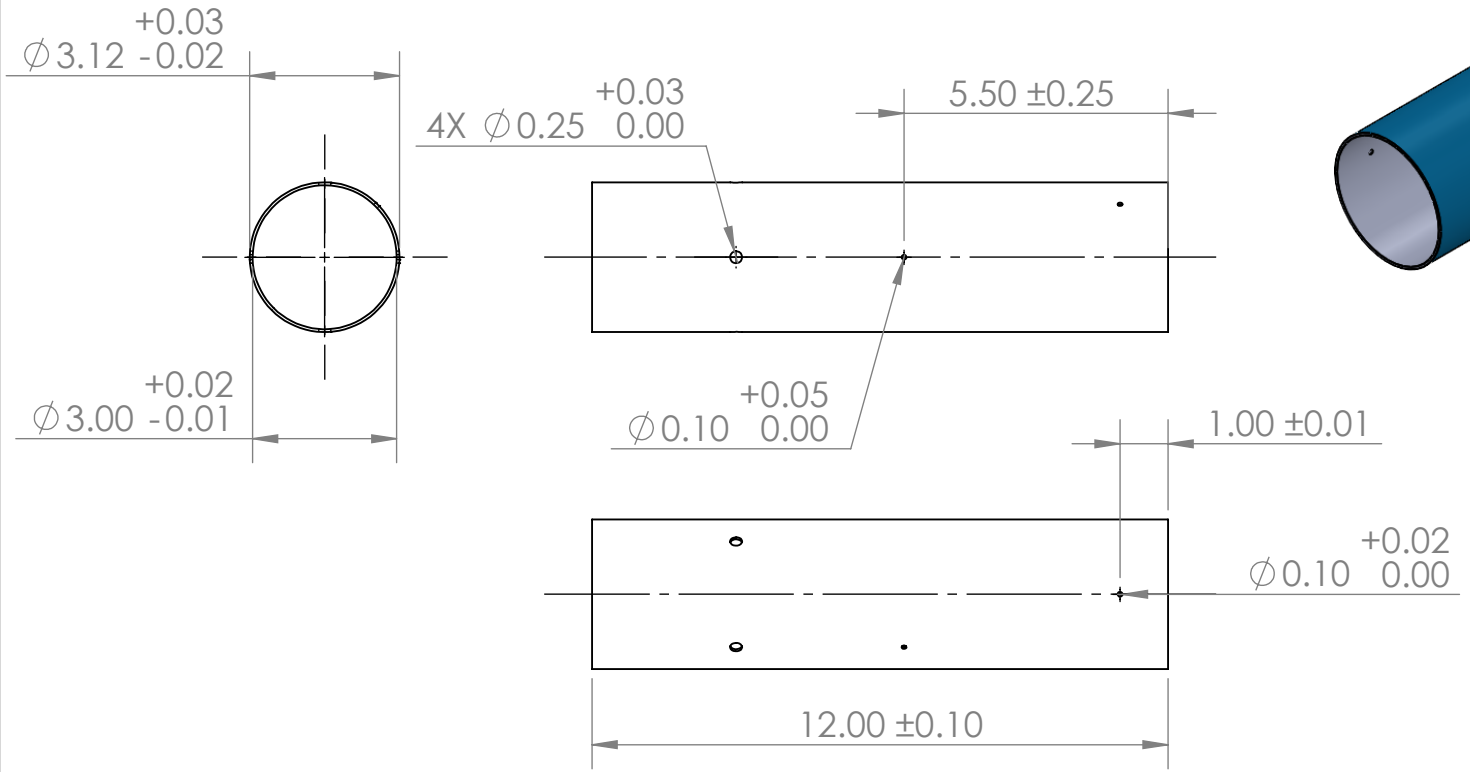


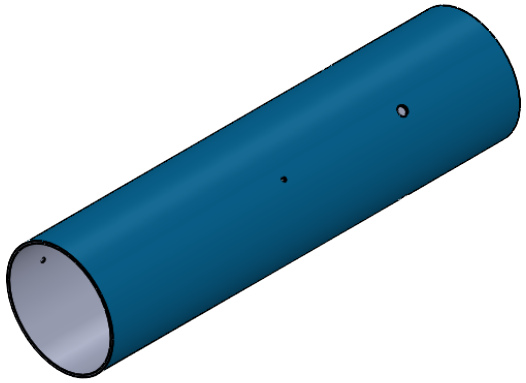
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN	Henry B	3/26/26
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
ARC Coupler	ARC	MATERIAL: G12 Fiberglass	COMMENTS: Inital Coupler bought from Mad Cow Rocketry.		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

TITLE:

Coupler

SIZE	DWG. NO.	REV
A	coupler	
SCALE: 1:4	WEIGHT:	SHEET 1 OF 1



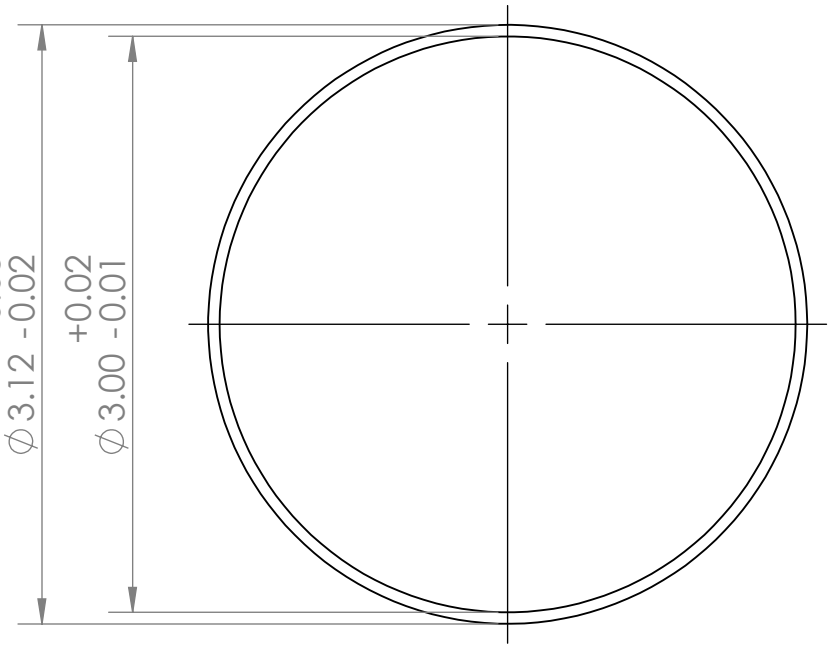


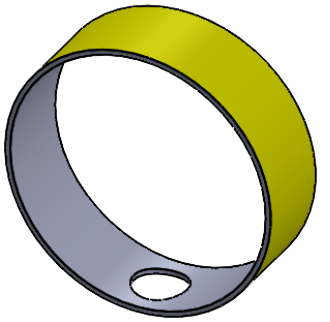
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN	Henry B	3/26/26+
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
Upper Half	ARC	MATERIAL: G12 Fiberglass	COMMENTS: Cut from 3" tubing from Mad Cow Rocketry.		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

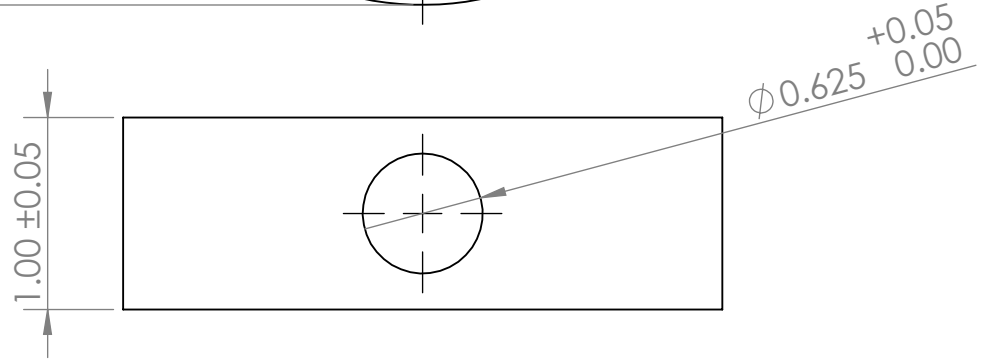
TITLE:

3" D 12" Long Tube

SIZE	DWG. NO.	REV
A	3 in diamter 12 in long tube	
SCALE: 1:4	WEIGHT:	SHEET 1 OF 1





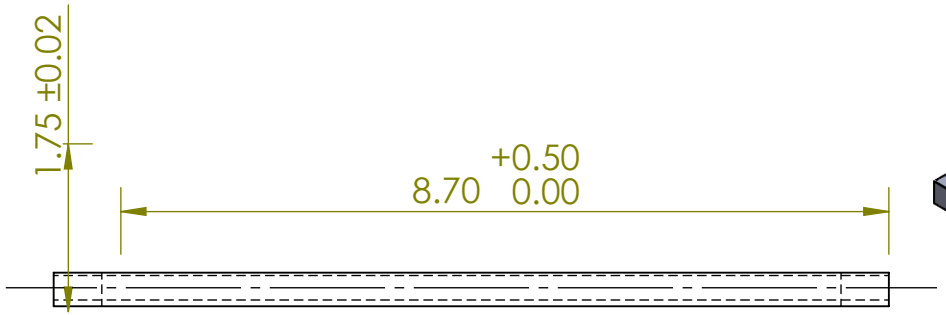


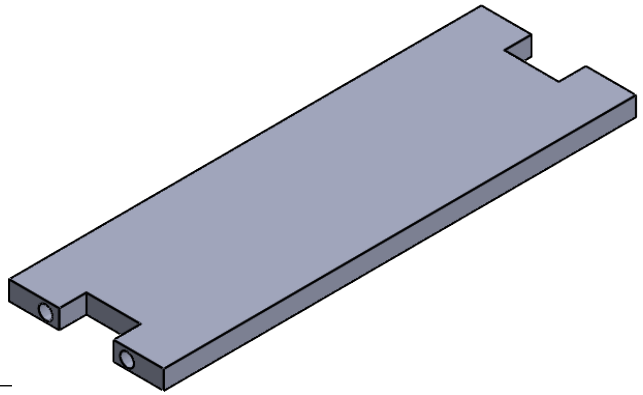
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN	Henry B	3/26/26
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
Coupler Assy	ARC	MATERIAL: G12 Fiberglass	COMMENTS: Cut from 3" tube from Mad Cow Rocketry.		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

TITLE:

3" D 1" Long Switch Band

SIZE	DWG. NO.	REV
A	3in in diamter 1 in long switch band	
SCALE: 1:1	WEIGHT:	SHEET 1 OF 1





		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN	AJ G	2/1/26
			CHECKED	Henry B	2/1/26
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
Sled	ARC	MATERIAL: PLA	COMMENTS:		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

TITLE:

3 in Sled

SIZE	DWG. NO.	REV
A	Updated Sled 3.0	
SCALE: 1:2	WEIGHT:	SHEET 1 OF 1