

	6		5	4	3	2	1			
D	ITEM NO.	PART		QTY.	MATERIAL/VENDOR					
	1	001-101 - Motor Bracket			1	ALUMINUM 6061-T6				
	2	001-102 - Frame Wall			1	ALUMINUM 6061-T6	D			
	3	002-101 - Motor Plate			1	ALUMINUM 6061-T6				
	4	002-102 - Fixed Mold Plate			1	ALUMINUM 6061-T6				
	5	002-103 - Moving Mold Plate			1	ALUMINUM 6061-T6				
	6	002-10)4 - Actuator Plate		1	ALUMINUM 6061-T6				
	7	002-105 - Hopper Bracket			1	ALUMINUM 6061-T6				
	8	002-106 - Extractor Block			1	ALUMINUM 6061-T6				
	9	002-107 - Blank Mold Cavity			1	ALUMINUM 6061-T6				
	10	003-101 - Screw Support			1	ALUMINUM 6061-T6				
	11	003-10	02 - Screw		1	STAINLESS STEEL 3041	L	$\neg C $		
	12	003-10	3 - Extruder Barrel		1	ALUMINUM 6061-T6				
	13	003-10)4 - Nozzle		1	ALUMINUM 6061-T6				
	14	005-10	11 - Blank Core		1	ALUMINUM 6061-T6				
	15	005-10	2 - Blank Ejector Plate		1	STAINLESS STEEL 3041	L			
	16	SP - Be	earing LMK16UU - Phidget	s LMN4219_0	4	Phidgets Inc.				
	17	SP - M3x5 SHCS - McMaster-Carr 91292A110 SP - M3xM3x8 Standoff - McMaster-Carr 98952A106 SP - M4x10 FHCS - McMaster-Carr 91294A190			20	McMaster-Carr		В		
	18				20	McMaster-Carr				
В	19				4	McMaster-Carr				
	20	SP - M4x12 SHCS - McMaster-Carr 91290A148		32	McMaster-Carr					
	21	SP - M4x20 SHCS - McMaster-Carr 91290A168 SP - M4x25 SHCS - McMaster-Carr 91290A176			4	McMaster-Carr				
	22				4	McMaster-Carr				
	23	SP - M4x6 CPSS - McMaster-Carr 91390A112			4	McMaster-Carr		<u> </u>		
	24	SP - M6 TNUT - Phidgets TSL4203_0			33	Phidgets Inc.				
	25	SP - M6 Thermocouple - Amazon DLM-B0711DRCVG		1	Amazon	Amazon				
	26	SP - M6x10 CPSS - McMaster-Carr 91390A128		8	McMaster-Carr	McMaster-Carr				
٨	27	SP - M6x14 BHCS - McMaster-Carr 91239A319		35	McMaster-Carr	McMaster-Carr				
A	28	SP - M6x15 FHCS - McMaster-Carr 92125A111		6	McMaster-Carr		Α			
	29	SP - M6x40 DWL - McMaster-Carr 91585A692		4	McMaster-Carr					
	30	SP - M6x8 SPSS - McMaster-Carr 94085A127		4	McMaster-Carr	©GREG ESAU 2019				
	6		5	4	3	2	1			

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	ITEM NO.	PART	QTY.	MATERIAL/VENDOR	
D	31	SP - N23 Actuator - Haydon-Kerk 57M43-3_25-910	1	Haydon-Kerk	
	32	SP - NEMA34 Motor - Phidgets 3335_0	1	Phidgets Inc.	
	33	SP - Phidgets HUB0000_0	1	Phidgets Inc.	
	34	SP - Phidgets REL1100_0	1	Phidgets Inc.	
	35	SP - Phidgets STC1000_0	2	Phidgets Inc.	
	36	SP - Phidgets TMP1101_0	1	Phidgets Inc.	
	37	SP - 16TxHTD5 Pulley - Phidgets TRM4125_0	1	Phidgets Inc.	
C	38	SP - 16x295mm Rail - Phidgets LMN4002_0	4	Phidgets Inc.	
	39	SP - 18x25x6 Wave Spring - McMaster-Carr 1561T430	1	McMaster-Carr	
	40	SP - 24V PSU - Phidgets PSU4016_0	1	Phidgets Inc.	
	41	SP - 3030 Extrusion Bracket - McMaster-Carr 5537T659	4	McMaster-Carr	
	42	SP - 3030x200mm Extrusion - Phidgets TSL4002_0	2	McMaster-Carr	
	43	SP - 3030x225mm Extrusion - Phidgets TSL4002_0	2	McMaster-Carr	
	44	SP - 3030x265mm Extrusion - Phidgets TSL4002_0	1	McMaster-Carr	
В	45	SP - 3030x295mm Extrusion - Phidgets TSL4002_0	1	McMaster-Carr	
	46	SP - 34TxHTD5 Pulley - Phidgets TRM4122_0	1	Phidgets Inc.	
	47	SP - 3_4 Bearing - McMaster-Carr 5709K770	2	McMaster-Carr	
	48	SP - 3_4-16 NUTT - McMaster Carr 91847A555	1	McMaster-Carr	
	49	SP - 6x20 Heater - Amazon 258RK-3-U5	3	Amazon	
	NOTE:				

-VENDOR PART NUMBERS ARE INCLUDED AT THE END OF THE PART NAME -THIS PACKAGE DEALS MOSTLY WITH MECHANICAL COMPONENTS. I MAY PUBLISH WIRING DIAGRAMS SEPARATELY, HOWEVER I WILL NOT SPEC SPECIFIC WIRING COMPONENTS.

ITEM	PART NUMBER	VENDOR	QUANTITY
VINT CABLE	3004_0	PHIDGETS INC	4
ASSORTED WIRE	-	-	-
POWER ENTRY CONNECTOR*	-	-	-
POWER CABLE*	-	-	-

^{*} I PURPOSELY OMITTED POWER COMPONENTS DUE TO VARYING REGIONAL STANDARDS AND LIABILITY

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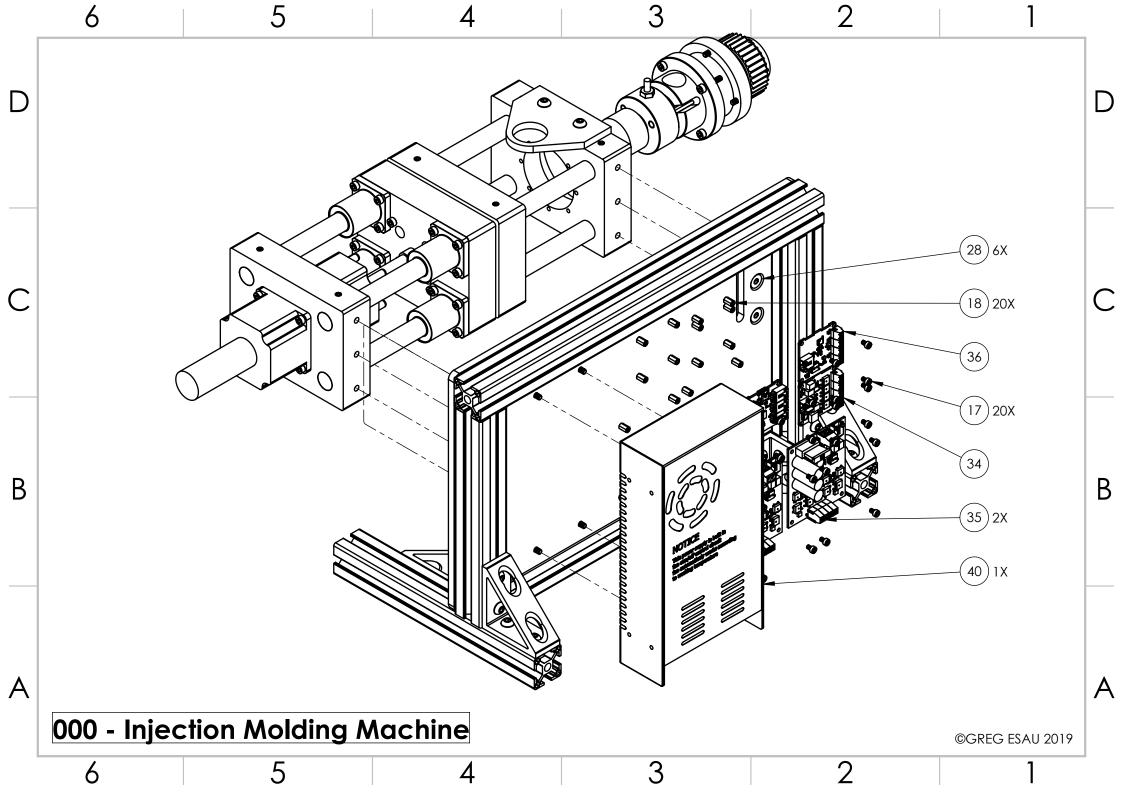
6

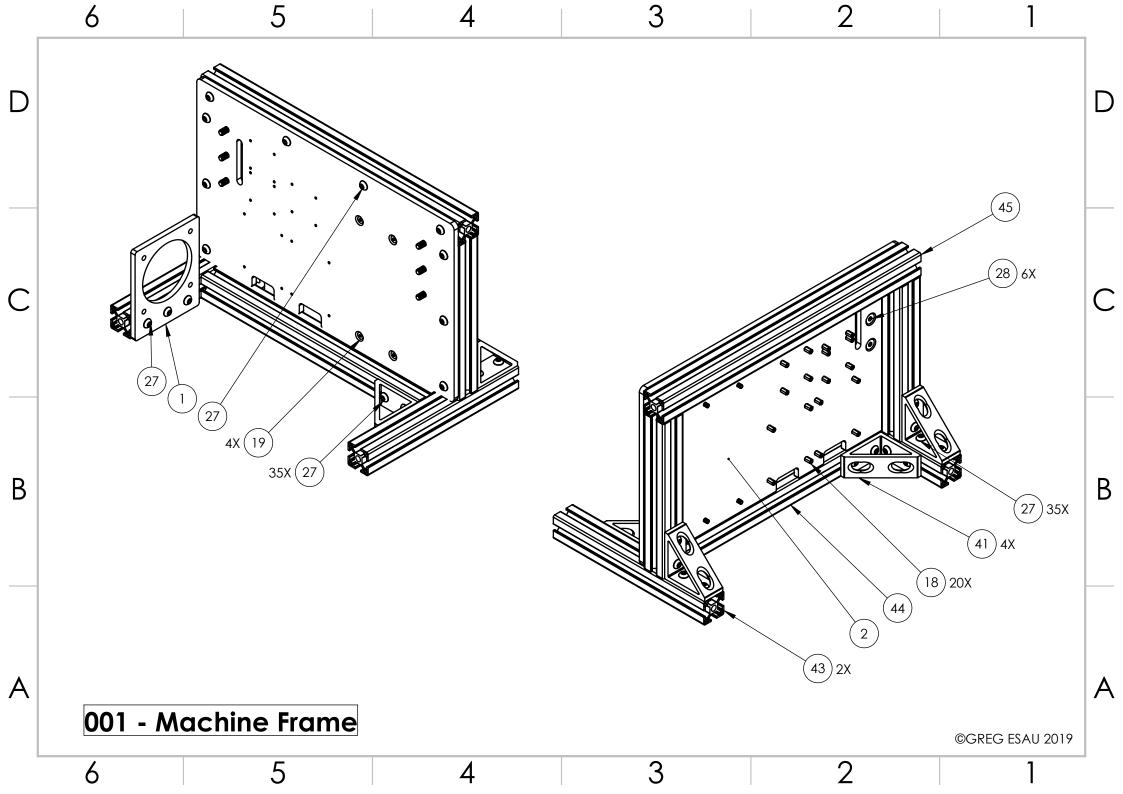
5

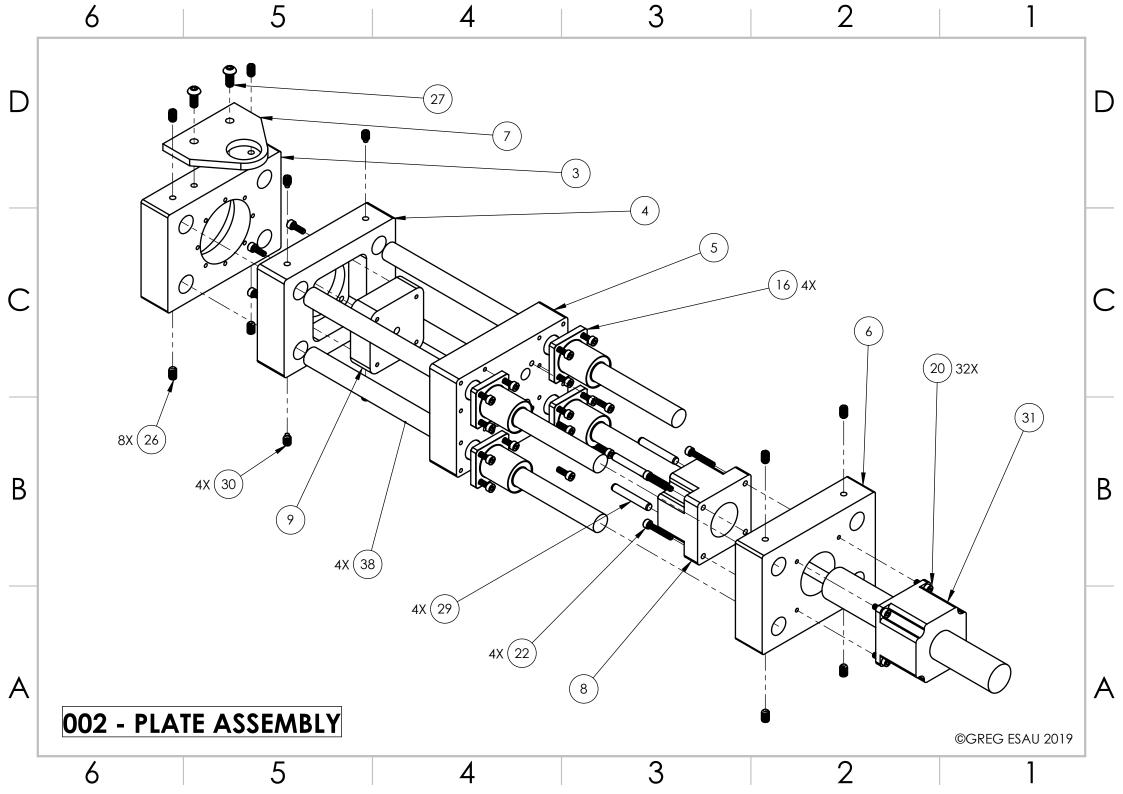
4

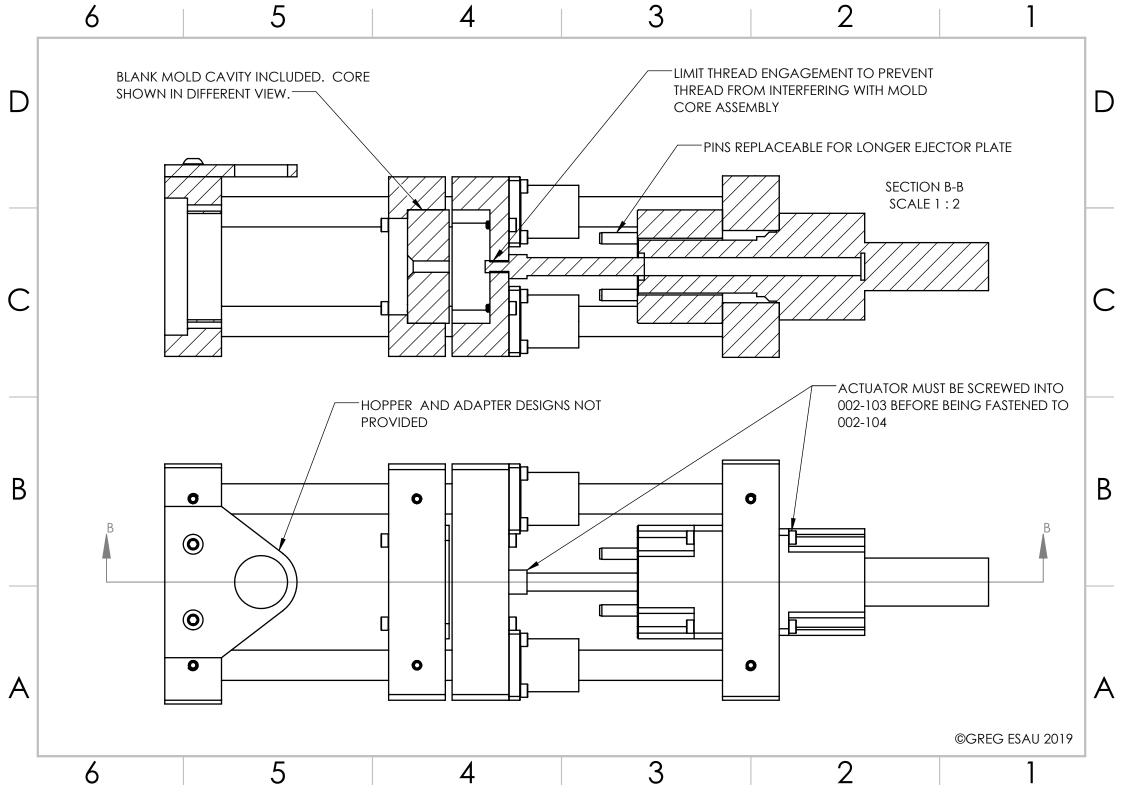
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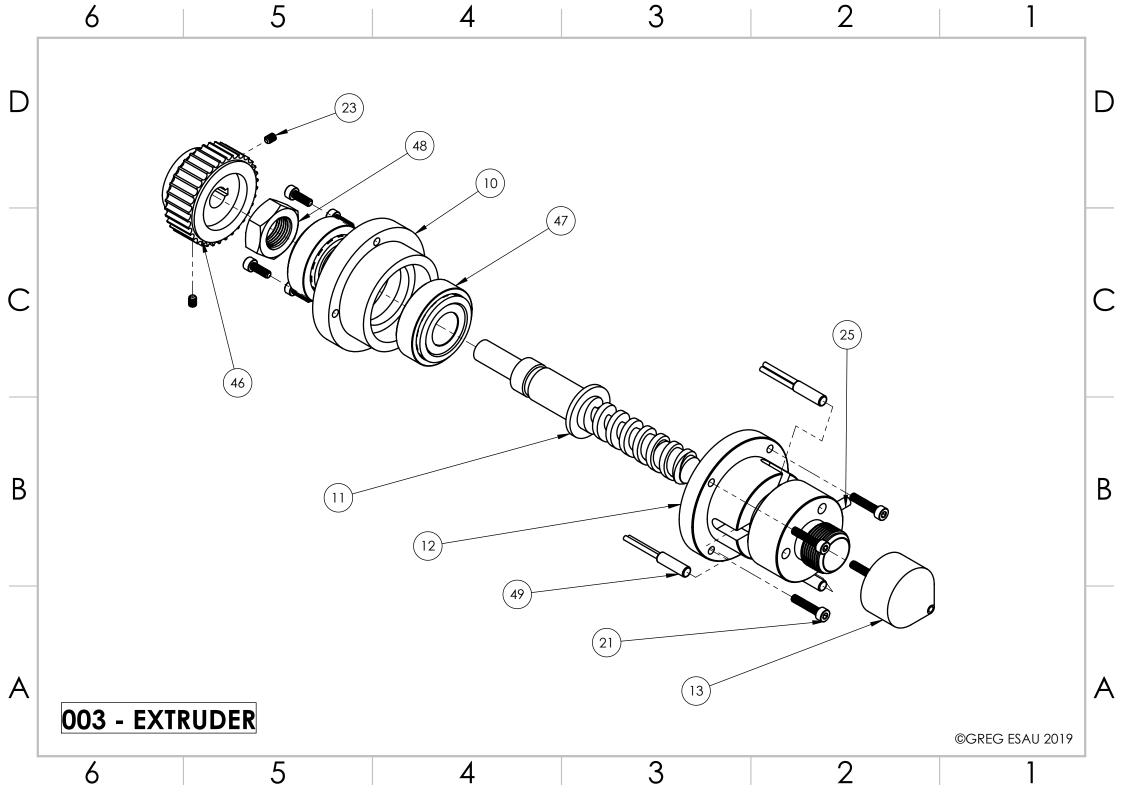
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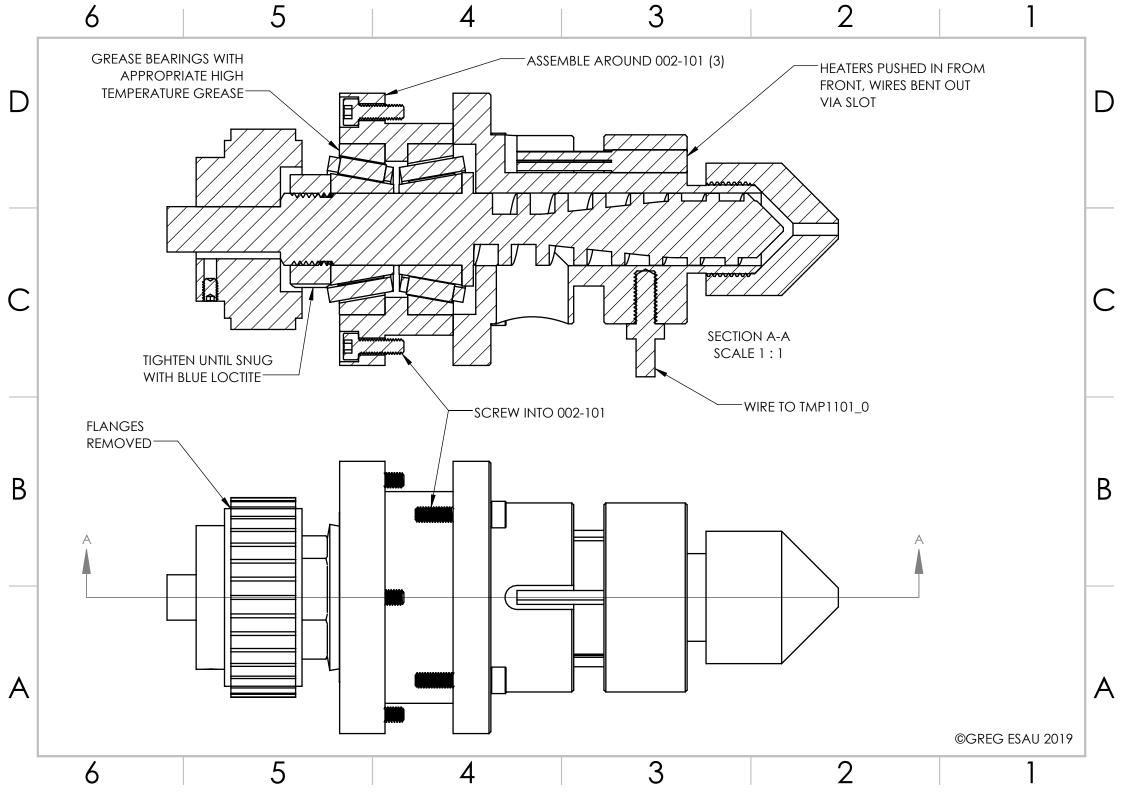


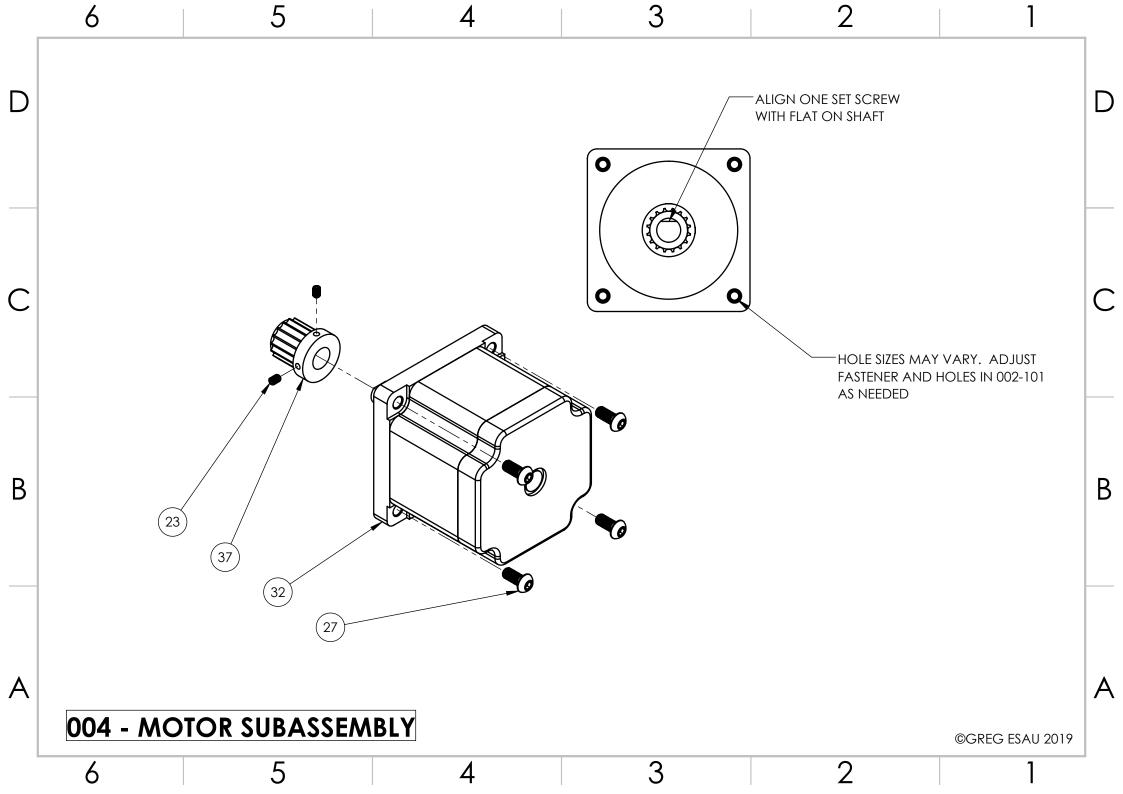


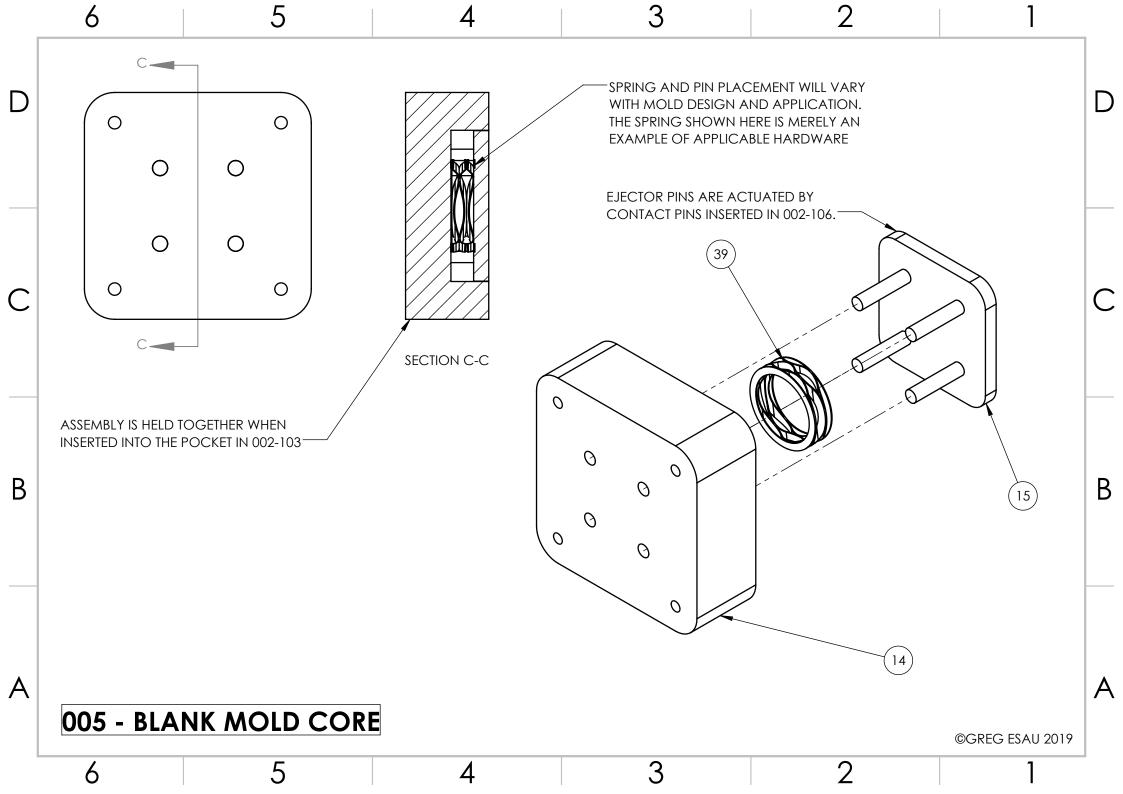


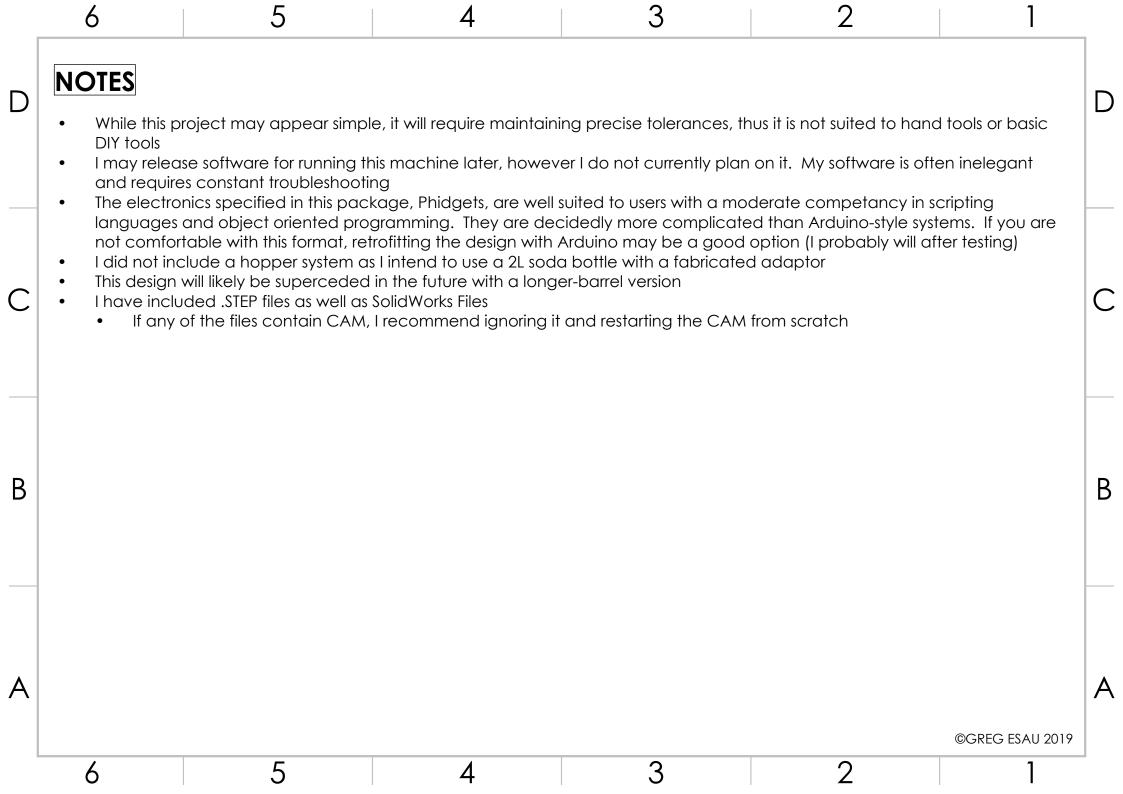












	6	5	4	3	2	1	
D	-This project for me to mo -I have done design	ake projects like these e NO calculations or sim	ulations about the streng	atreon backers who make th, failure modes, or long	evity of this		
С	-These will all depend on the materials used, hardening condition, and cut parameters INTELLECTUAL PROPERTY AND COPYRIGHT -This device was designed and produced entirely by me -There are no active patents in this device -Some CAD files were acquired legally from the McMaster-Carr website and included in this model as a demonstration of compatible hardware offered by McMaster-Carr -This model and drawing package were created on a legal copy of SolidWorks						C
В	6) While I will try my best to help where possible, I reserve the right to discontinue maintenance on this drawing and to provide no further assistance 7) I reserve the right to withdraw the availability of this drawing package or the models 8) I reserve the right to make this drawing package or models available on other platforms 9) You, the donator, are entitled to modify this design as you see fit, however modifications						В
Α	based on th	nis original document or r	nodels remain subject to	terms 1, 2, 3 and 4.	2	©GREG ESAU 2019	A