

Group 1025

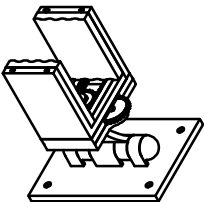
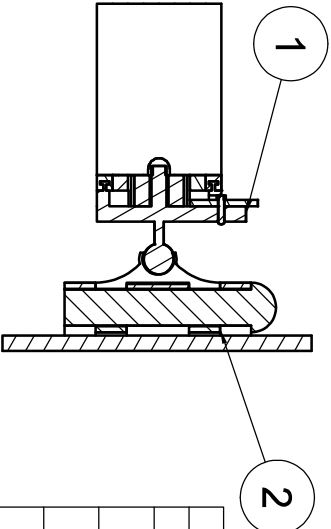
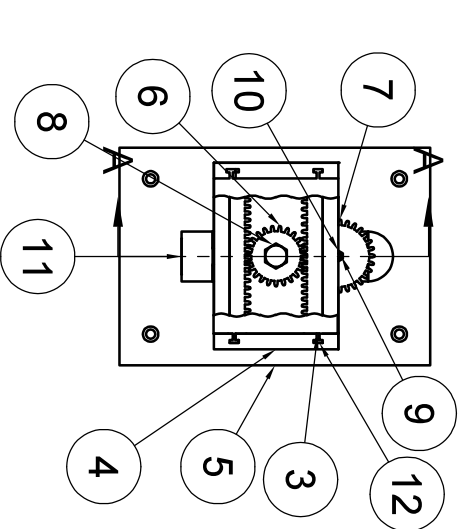
PROJECT

E27-Final Project

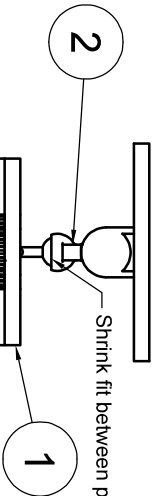
TITLE

Exploded Assembly

APPROVED	SIZE	CODE	DWG NO	REV
CHECKED	B			
DRAWN	Noah Shermis	12/7/2020	SCALE 1:2	WEIGHT
				SHEET 1/1



SECTION A-A
SCALE 1:2



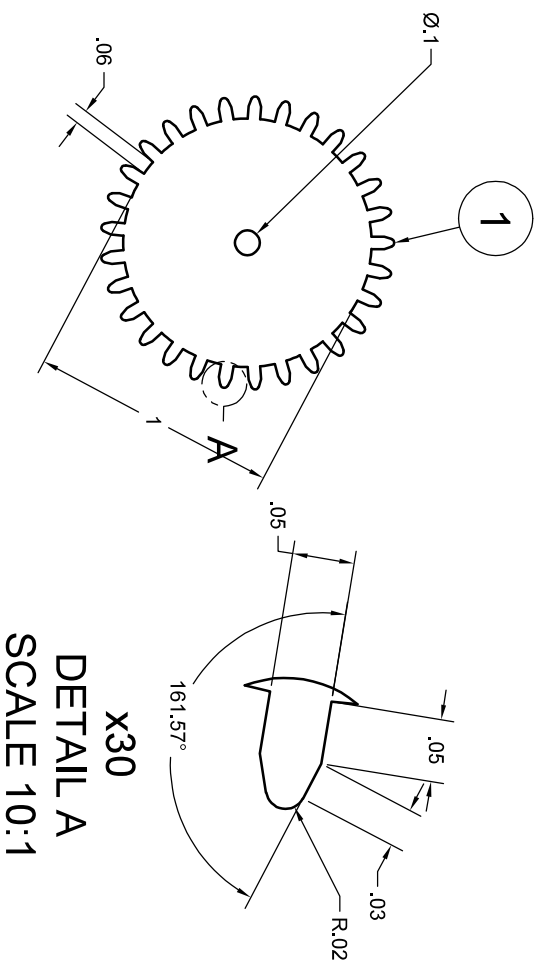
12	2	RUBBER INSERT	RUBBER, BLACK
11	1	HINGE PIN	STEEL
10	1	DIAL PIN NUT	ALUMINUM 6061 T6 80 HOT FORMED
9	1	DIAL PIN	ALUMINUM 6061 T6 80 HOT FORMED
8	1	CENTRAL GEAR NUT	ALUMINUM 6061 T6 80 HOT FORMED
7	1	DIAL GEAR	ALUMINUM 6061 T6 80 HOT FORMED
6	1	CLAMP GEAR	ALUMINUM 6061 T6 80 HOT FORMED
5	1	BASE PLATE	STEEL AISI 4130 366 QT
4	1	CLAMP-RIGHT	ALUMINUM 6061 T6 80 HOT FORMED
3	1	CLAMP-LEFT	ALUMINUM 6061 T6 80 HOT FORMED
2	1	SOCKET	ALUMINUM 6061 T6 80 HOT FORMED
1	1	BALL AND PLATE	ALUMINUM 6061 T6 80 HOT FORMED
ITEM	QTY	PART NUMBER	MATERIAL

PARTS LIST

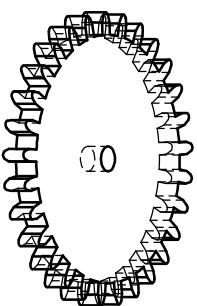
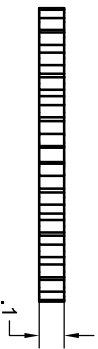
PROJECT
E27-Final Project

TITLE
Assembly

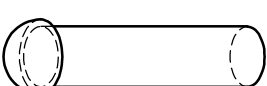
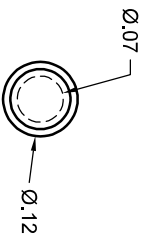
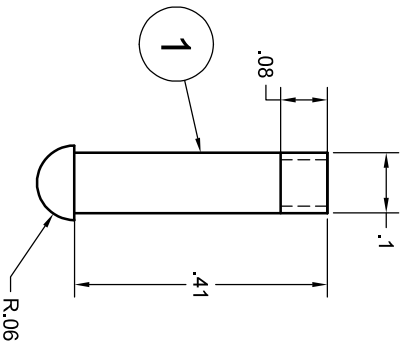
APPROVED	SIZE	CODE	DWG NO	REV	
CHECKED	B				
DRAWN	Noah Shermis	11/3/2020	SCALE 1:2	WEIGHT	SHEET 1/1



x30
DETAIL A
SCALE 10:1

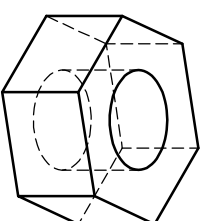
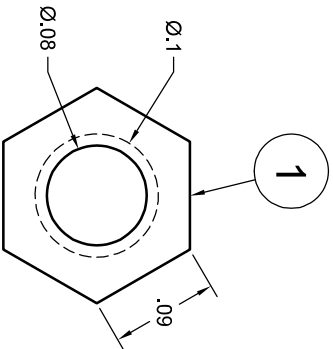


DIAL GEAR V3		ALUMINUM 6061 T6		80 HOT FORMED	
PART NAME		MATERIAL			
PARTS LIST		DRAWN		NOAH SHERMIS	
APPROVED J.C.		12/8/2020		SIZE	
CHECKED K.C.		12/8/2020		B	
SCALE 2:1		WEIGHT		SHEET 1/1	
PROJECT		E27-Final Project		TITLE	
Dial Gear V3		Interpret Geometric Tolerances per ASME Y14.5M-1994		Dimensions are in inches Tolerances: Fractional +.005-.006 Angular +.005-.006	
Unless Otherwise Specified		Group 1025		REV	

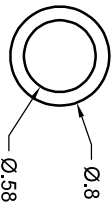
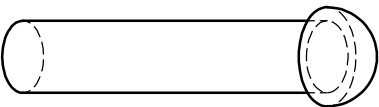
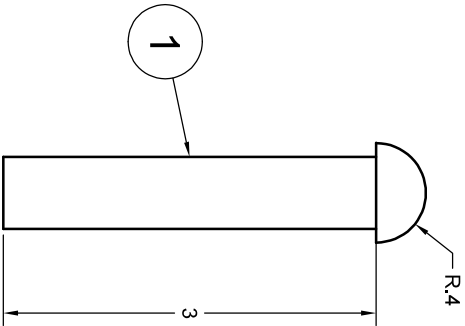


DIAL PIN V2	ALUMINUM 6061 T6
PART NAME	80 HOT FORMED
	MATERIAL
PARTS LIST	

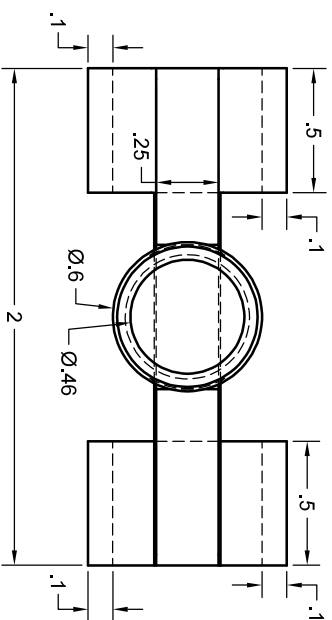
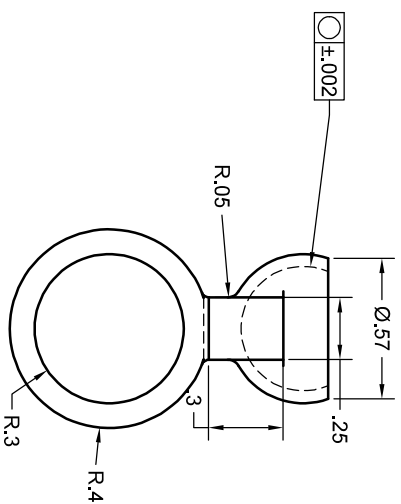
Unless Otherwise Specified		PROJECT		Group 1025	
Dimensions are in inches. Tolerances: Fractional $\pm .005$ -.006 Angular $\pm .006$ -.006		TITLE		E27-Final Project	
Interpolate Geometric Tolerances per ASME Y14.5M-1994		Dial Pin V2			
APPROVED J.A.	12/8/2020	SIZE	CODE	DWG NO	REV
CHECKED A.L.	12/8/2020	B		Dial Pin	
DRAWN	Noah Shermis	12/7/2020	SCALE 5:1	WEIGHT	SHEET 1/1



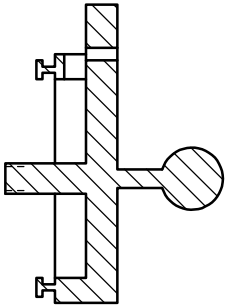
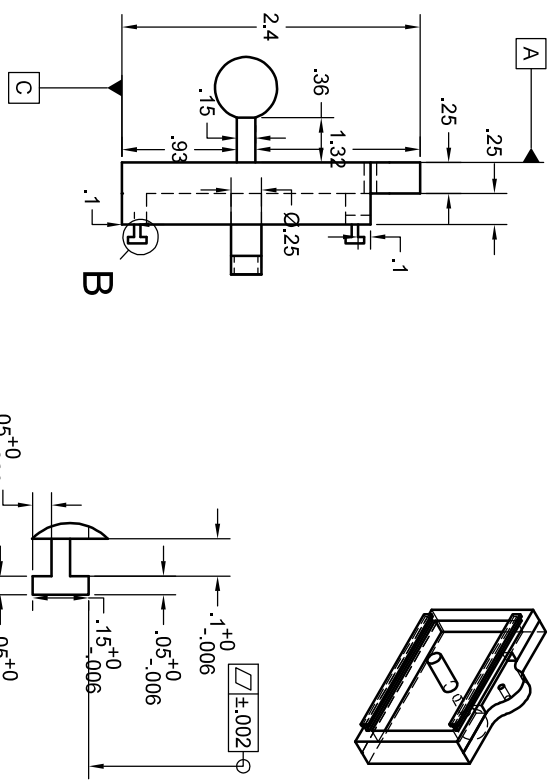
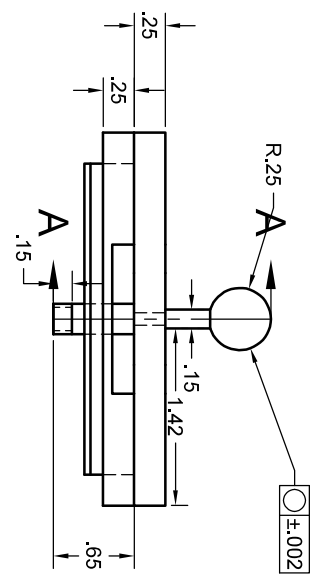
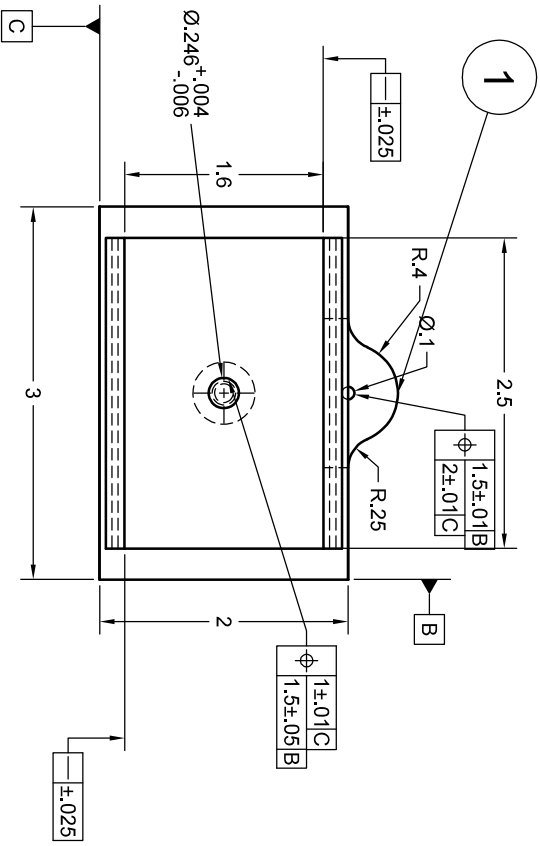
Group 1025		PROJECT	
Unless Otherwise Specified		E27-Final Project	
Dimensions are in inches. Tolerances: Fractional $\pm .005$ -.006 Angular $\pm .006$ -.006		TITLE	
Interpret Geometric Tolerances per ASME Y14.5M-1994		Dial Pin Nut V3	
APPROVED A.L.	12/8/2020	SIZE	CODE
CHECKED J.A.		B	DWG NO
DRAWN Noah Shemis	12/7/2020	SCALE 10:1	WEIGHT
DIAL PIN NUT V3		ALUMINUM 6061 T6	
PART NAME		80 HOT FORMED	
PARTS LIST		MATERIAL	
DRAWN		SHEET 1/1	



		Group 1025	
Unless Otherwise Specified		PROJECT	
E27-Final Project		TITLE	
Dimensions are in inches. Tolerances: Fractional $\pm .005$ -.006 Angular $\pm .006$ -.006		Hinge Pin V2	
Interpolate Geometric Tolerances per ASME Y14.5M-1994			
APPROVED J.C.		12/8/2020	SIZE
CHECKED K.C.		B	CODE
DRAWN Noah Shermis		12/7/2020	SCALE 1:1
WEIGHT		SHEET 1/1	REV
HINGE PIN V2		STEEL	
PART NAME		MATERIAL	
PARTS LIST			



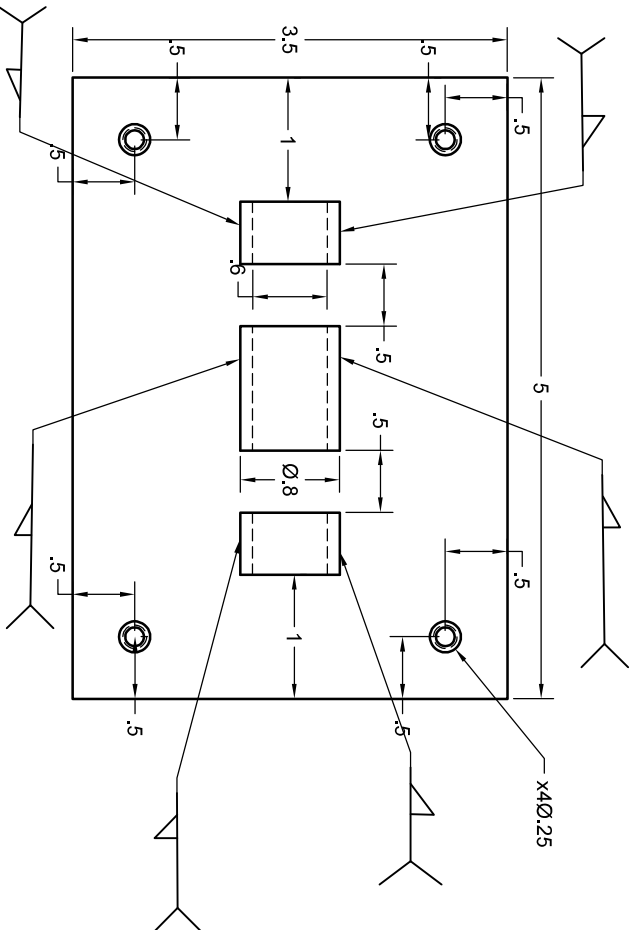
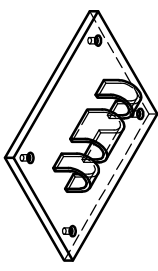
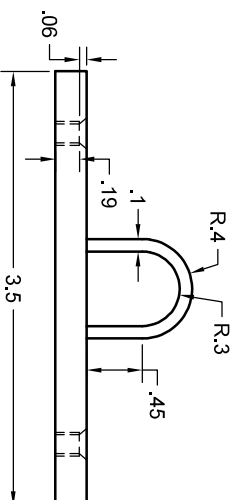
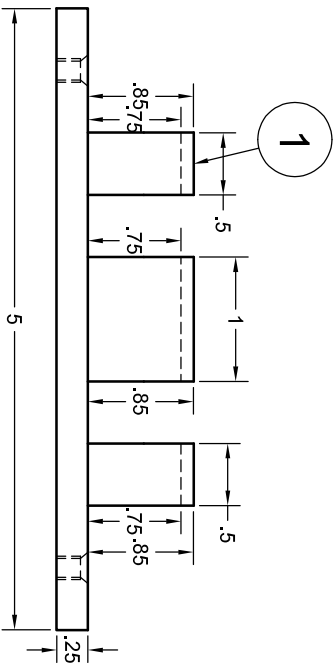
Ø.46		1		Group 1025	
				PROJECT	
Unless Otherwise Specified				E27-Final Project	
Dimensions are in inches. Tolerances: Fractional +.005, -.005 Angular +.005, -.005				TITLE	
Interpretate Geometric Tolerances per ASME Y14.5M-1994				Socket V5	
SOCKET V5		ALUMINUM 6061 T6		SIZE	
		80 HOT FORMED		CODE	
PART NAME		MATERIAL		DWG NO	
PARTS LIST				Socket	
APPROVED J.C.		12/8/2020		WEIGHT	
CHECKED K.C.		12/8/2020		SHEET 1/1	
DRAWN Noah Shermis		11/3/2020		REV	



SECTION A-A
SCALE 1:1

x2
DETAIL B
SCALE 3:1

Group 1025		PROJECT		E27-Final Project	
Unless Otherwise Specified		TITLE		Ball and Plate V10	
Dimensions are in inches. Tolerances: Fractional +.006-.008 Angular +.006-.008		Inches Geometric Tolerances per ASME Y14.5M-1994			
1	BALL AND PLATE	ALUMINUM 6061 T6	12/8/2020	CODE	DWG NO
QTY	PART NUMBER	MATERIAL	CHECKED J.A.	SIZE	Ball and Plate
PARTS LIST			DRAWN Noah Shemis	SCALE 1:1	WEIGHT
					SHEET 1/1
					REV



1	BASE PLATE	STEEL AISI 4130
QTY	PART NUMBER	MATERIAL
PARTS LIST		
APPROVED J.A.	12/8/2020	SIZE
CHECKED J.C.	12/8/2020	B
DRAWN	Noah Shemis	11/3/2020
SCALE	1:1	WEIGHT
SHEET	1/1	REV

Group 1025

Unless Otherwise Specified

PROJECT

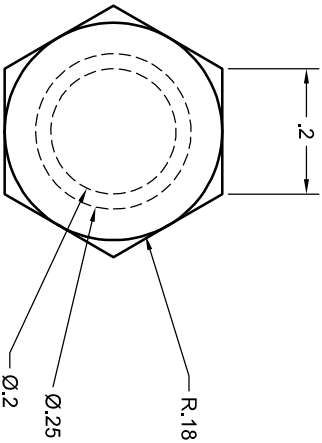
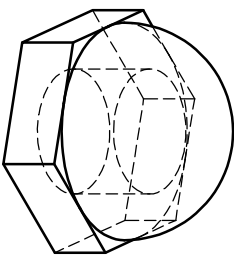
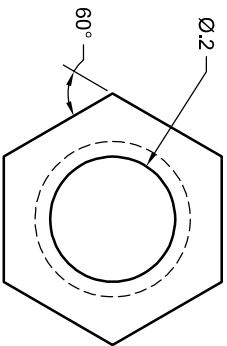
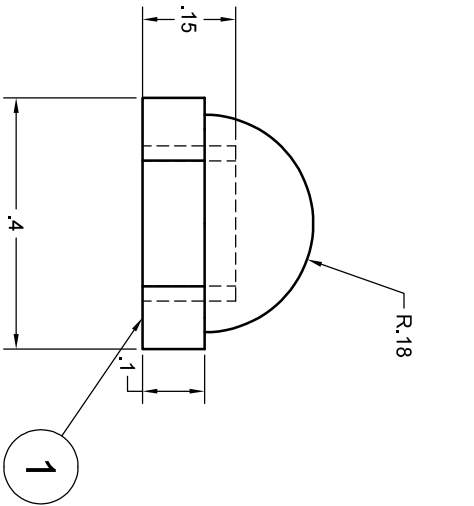
E27-Final Project

TTITLE

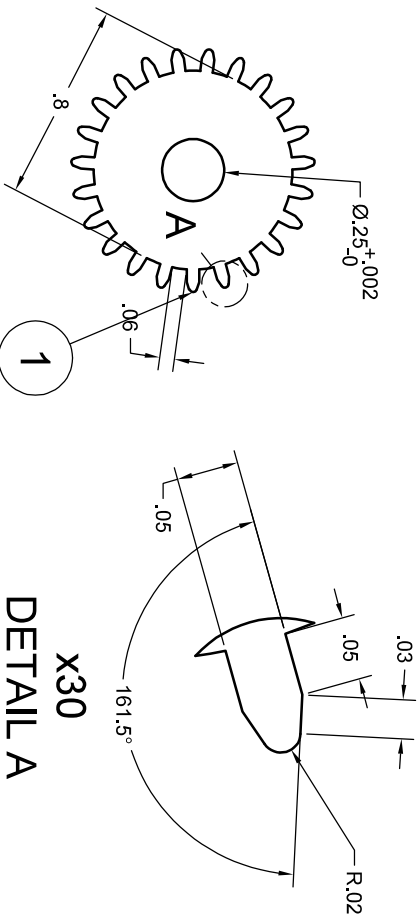
Base Plate V4

Dimensions are in inches. Tolerances: Fractional +.006-.006
Angular +.006-.006

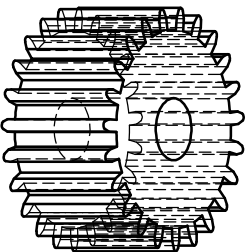
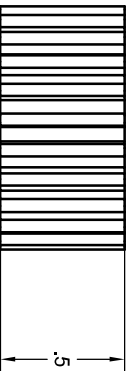
Interpret Geometric Tolerances per ASME Y14.5M-1994



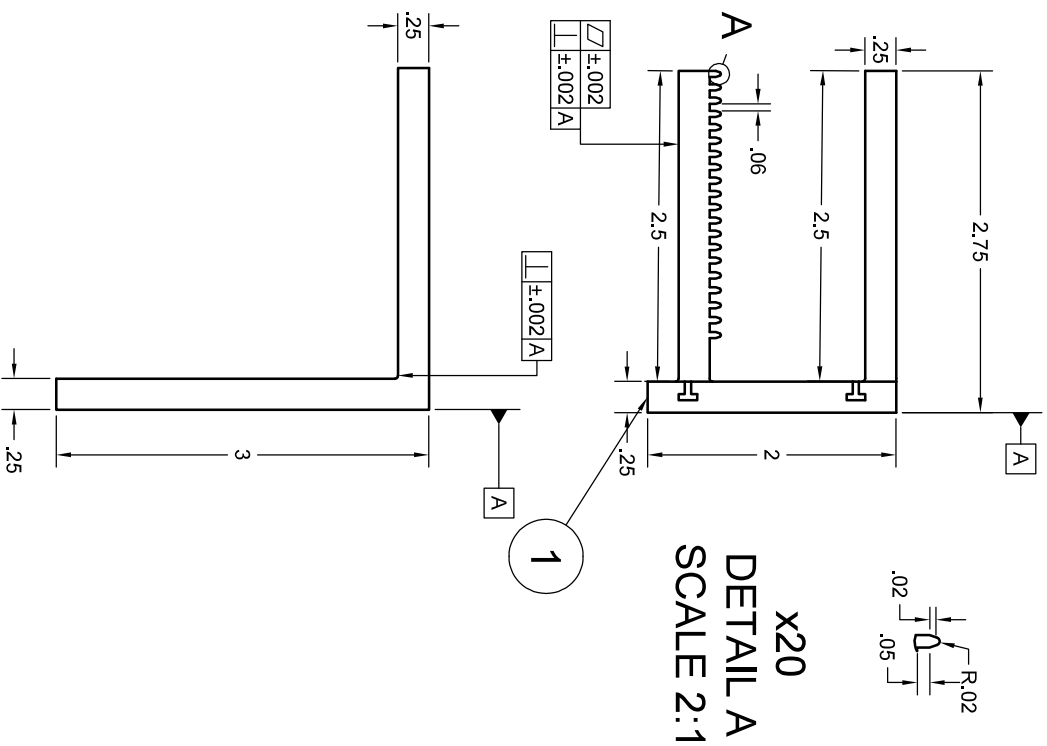
CENTRAL GEAR NUT V2		ALUMINUM 6061 T6	
80 HOT FORMED		MATERIAL	
PART NAME		PARTS LIST	
APPROVED K.C.		12/8/2020	
CHECKED J.A.		12/8/2020	
DRAWN Noah Shermis		12/8/2020	
SCALE 5:1		WEIGHT	
SHEET 1/1		REV	
PROJECT		E27-Final Project	
TITLE		Central Gear Nut V2	
Unless Otherwise Specified		Group 1025	
Dimensions are in inches. Tolerances: Fractional +.006-.006 Angular +.006-.006		Interpret Geometric Tolerances per ASME Y14.5M-1994	




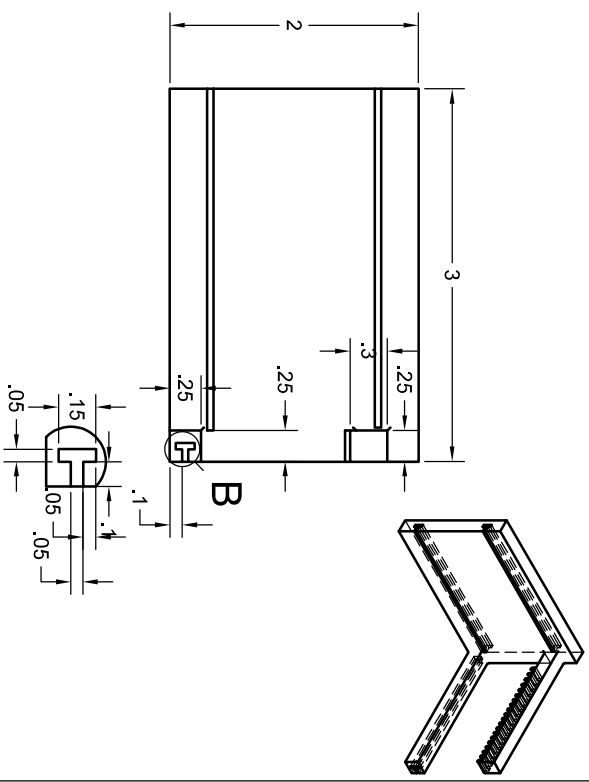
X30
DETAIL A
SCALE 10:1



Group 1025		PROJECT	
Unless Otherwise Specified		E27-Final Project	
Dimensions are in inches. Tolerances: Fractional +.006-.006 Angular +.006-.006		TITLE	
Interpolate Geometric Tolerances per ASME Y14.5M-1994		Clamp Gear V6	
CLAMP GEAR V6	ALUMINUM 6061 T6	APPROVED A.L.	12/8/2020
PART NAME	80 HOT FORMED	CHECKED K.C.	12/8/2020
PARTS LIST		DRAWN Noah Shermis	12/7/2020
		SCALE 2:1	WEIGHT
		SHEET 1/1	REV

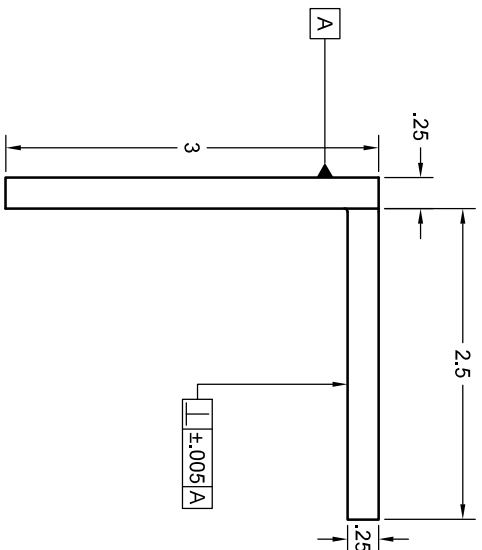


Group 1025															
Unless Otherwise Specified				PROJECT											
				E27-Final Project											
										TITLE					
										Clamp-Right V5					
Dimensions are in inches Tolerances Fractional +.005 - .005 Angular .005 - .005				Imperative Geometric Tolerances per ASME Y14.5M-1994											
CLAMP-RIGHT V5				ALUMINUM 6061 T6		REV									
PART NAME				80 HOT FORMED		REV									
PARTS LIST				MATERIAL		REV									
APPROVED J.C.				12/8/2020		SIZE		CODE		DWG NO					
CHECKED J.A.				12/8/2020		B		Clamp-Right		REV					
DRAWN Noah Shermis				12/27/2020		SCALE 1:1		WEIGHT		SHEET 1/1					



DETAIL A
SCALE 2:1
x20

DETAIL B
SCALE 2:1
x3



Group 1025											
Unless Otherwise Specified				PROJECT							
E27-Final Project				TITLE							
Dimensions are in inches. Tolerances: Fractional +.005 -.006 Angular +.005 -.006				Clamp-left V7							
Imperative Geometric Tolerances per ASME Y14.5M-1994											
CLAMP-LEFT V7		ALUMINIUM 6061 T6		APPROVED K.C.		12/8/2020		SIZE	CODE	DWG NO	REV
				CHECKED A.L		12/8/2020		B		Clamp-left	
PART NAME		MATERIAL		DRAWN Noah Shernis		11/3/2020		SCALE 1:1	WEIGHT		SHEET 1/1
PARTS LIST											