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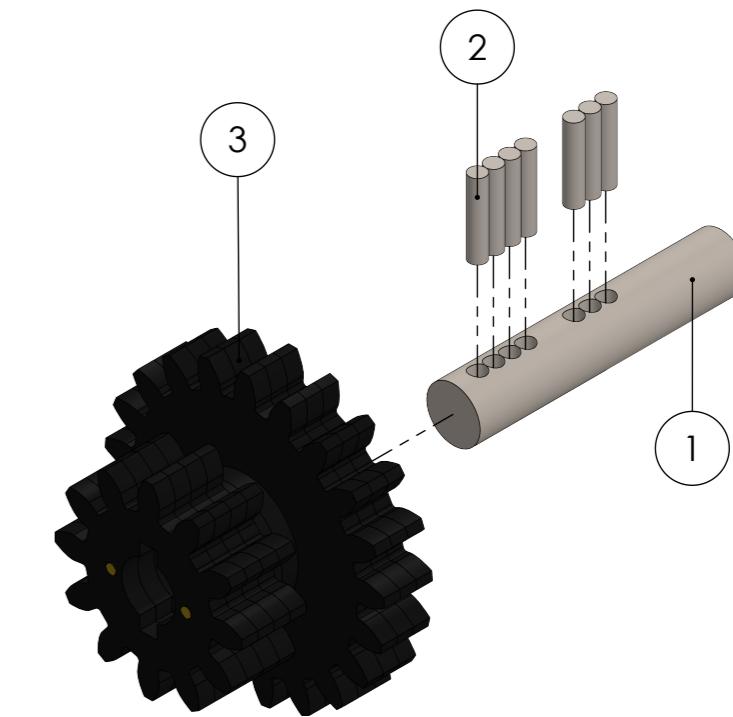
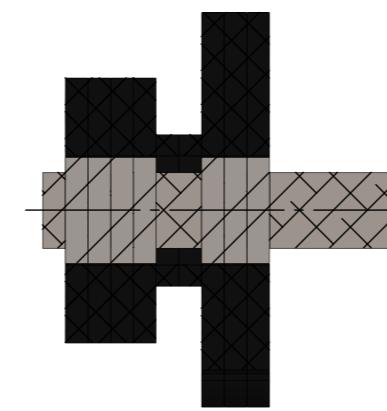
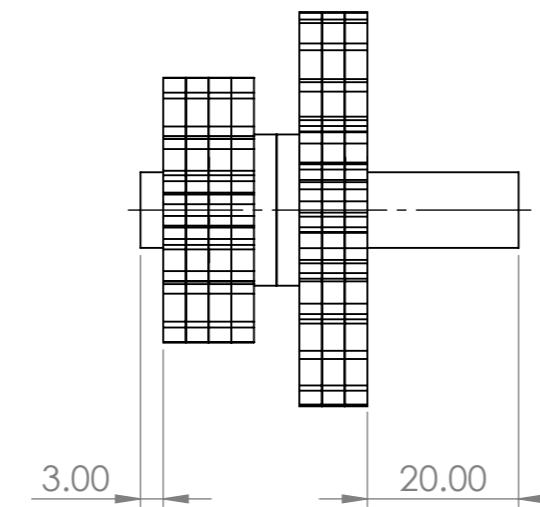
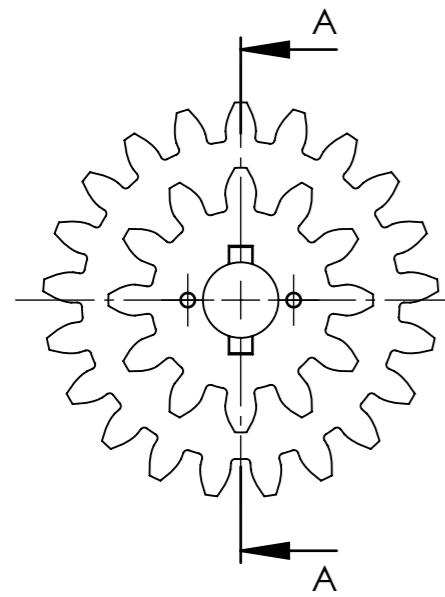
ITEM NO.

PART NUMBER

DESCRIPTION

QTY.

1	Shaft_KeyPins_SingleEnded	Planet Stage 2	1
2	Key_Pin_3mm	14mm	7
3	Planet_Gear_Stage_2		1



UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MILLIMETERS
SURFACE FINISH:
TOLERANCES:
LINEAR:
ANGULAR:

DRAWN Adam Telfer

CHK'D

APP'D

MFG

Q.A.

FINISH:

DATE

25/10/25

DEBURR AND
BREAK SHARP
EDGES

TITLE:

Stage 2 Planet Gear

Assembly View

DWG NO.

F-02

SCALE:1:1

WEIGHT:

SHEET 2 OF 7

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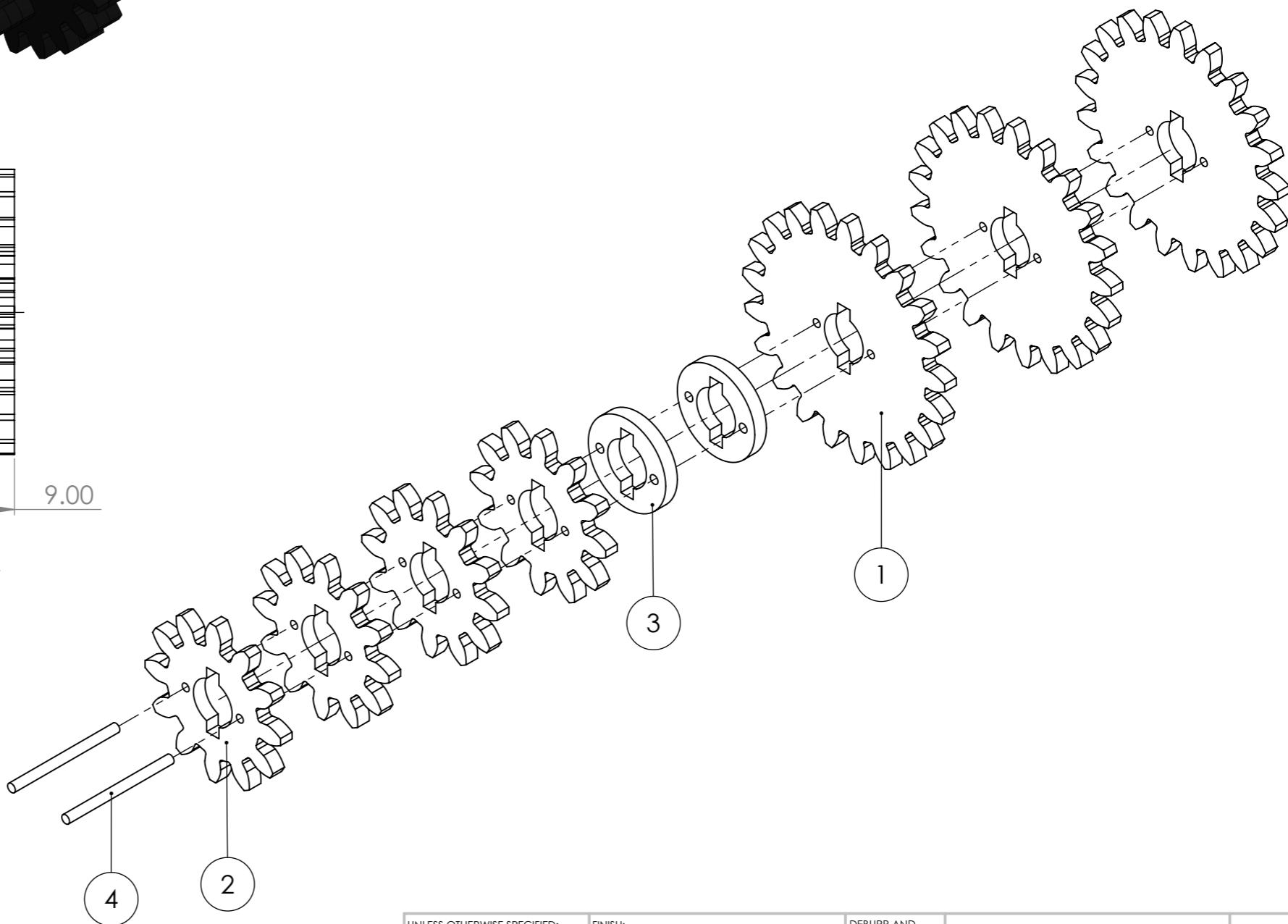
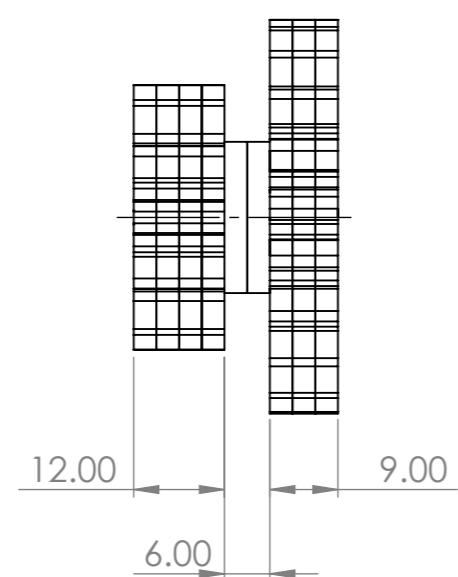
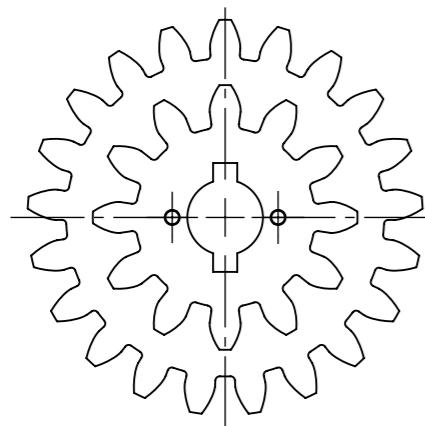
C

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A



Notes

Gears and spacers are laser cut from 3 mm acrylic sheet.

2D profiles are found on sheet F-04.

Alignment Pins are 2 mm brass rod that is oversized during assembly then cut flush to the gear face.

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:			FINISH:	DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION
DRAWN	NAME	SIGNATURE	DATE			
CHK'D	Adam Telfer		25/10/25			
APP'D						
MFG						
Q.A				MATERIAL:		
					DWG NO.	
					SCALE:1:1	
						SHEET 3 OF 7

Stage 2 Planet Gear

F-03

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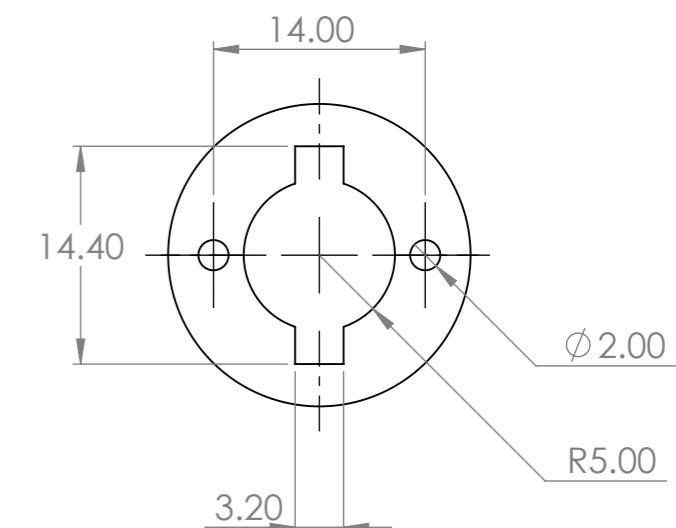
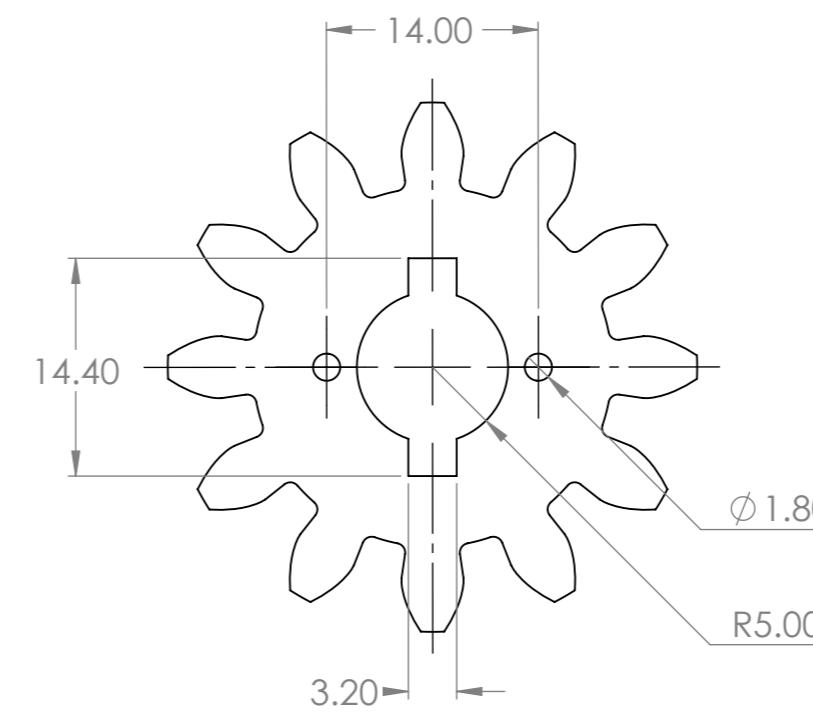
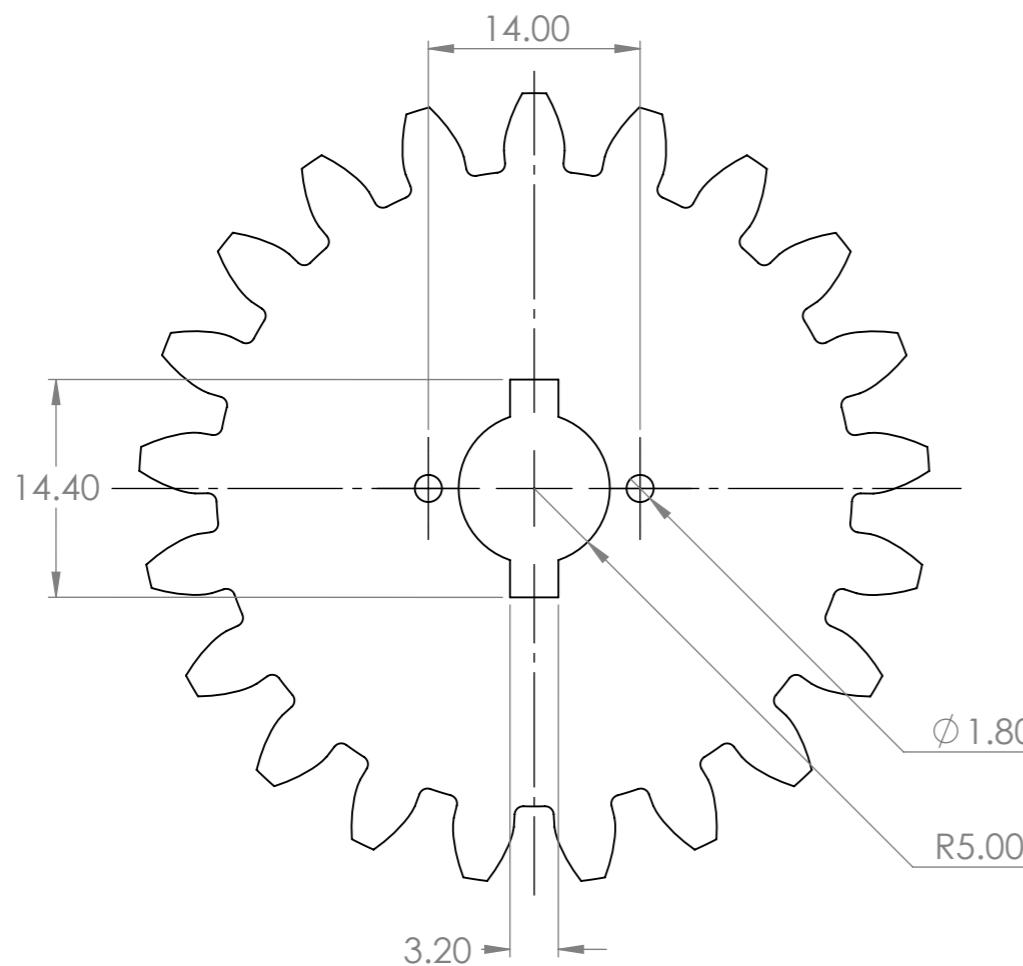
F

F

Stage 2 - Planet 1	
Module	2.27
Teeth	21
Pressure Angle	20 deg

Stage 2 - Planet 2	
Module	2.27
Teeth	21
Pressure Angle	20 deg

Spacer



Notes

Gears and spacer are laser cut from 3 mm acrylic sheet.

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:	FINISH:	DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION
DRAWN	NAME	SIGNATURE	DATE	
CHK'D			25/10/25	
APP'D				
MFG				
Q.A				
		MATERIAL:	Acrylic	
		WEIGHT:	SCALE:2:1	SHEET 4 OF 7
			F-04	A3

Stage 2 Planet Gear Profiles

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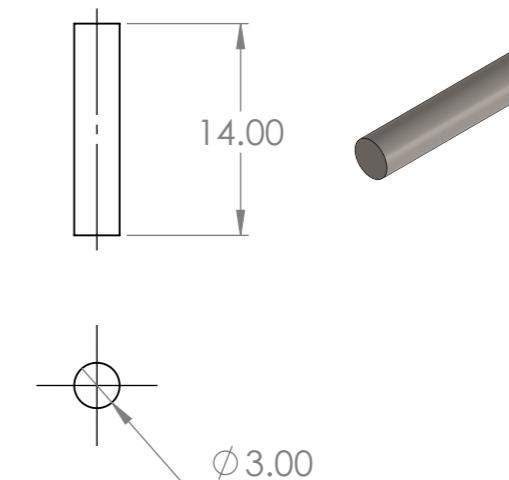
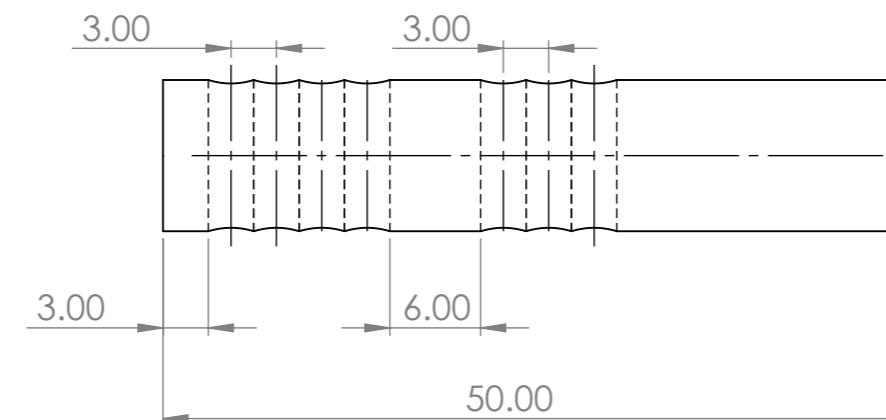
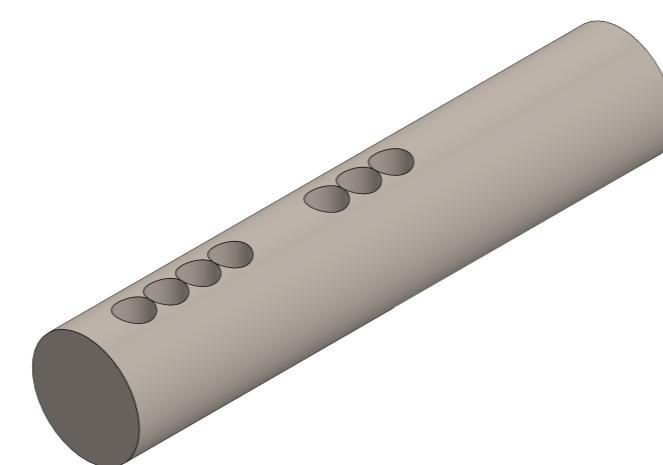
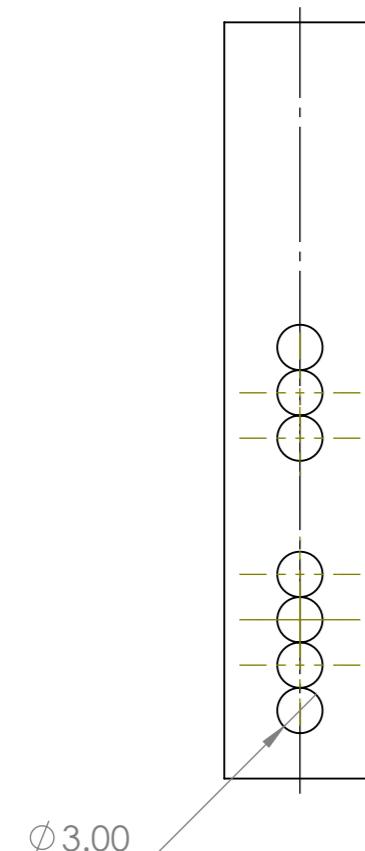
1

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Stage 2 Planet Gear Shaft

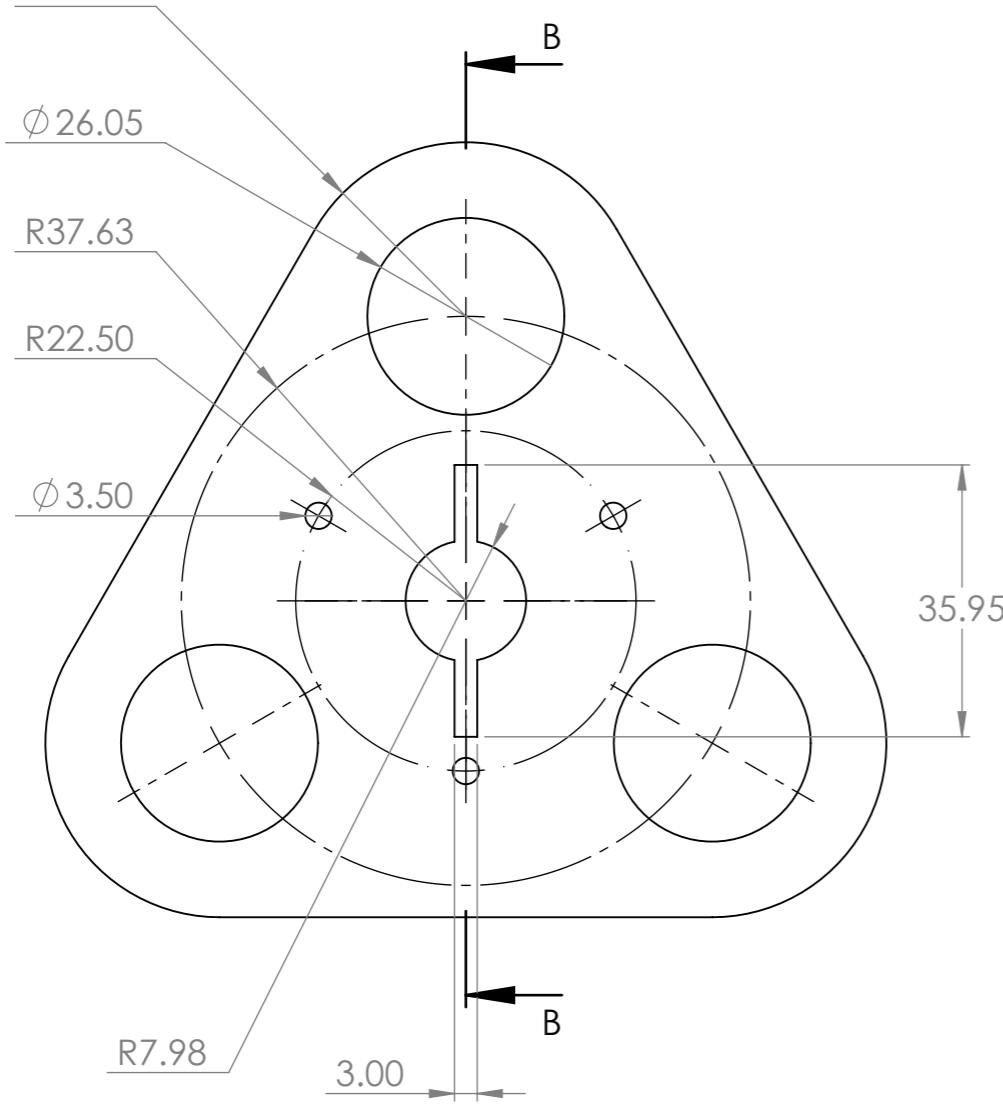
Key Pin



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH:	DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION
DRAWN	NAME Adam Telfer	SIGNATURE	DATE 25/10/25		
CHK'D					
APP'D					
MFG					
Q.A					
		MATERIAL: Shaft: Aluminium Pin: Stainless Steel		DWG NO.	
				SCALE:2:1	A3
				SHEET 5 OF 7	

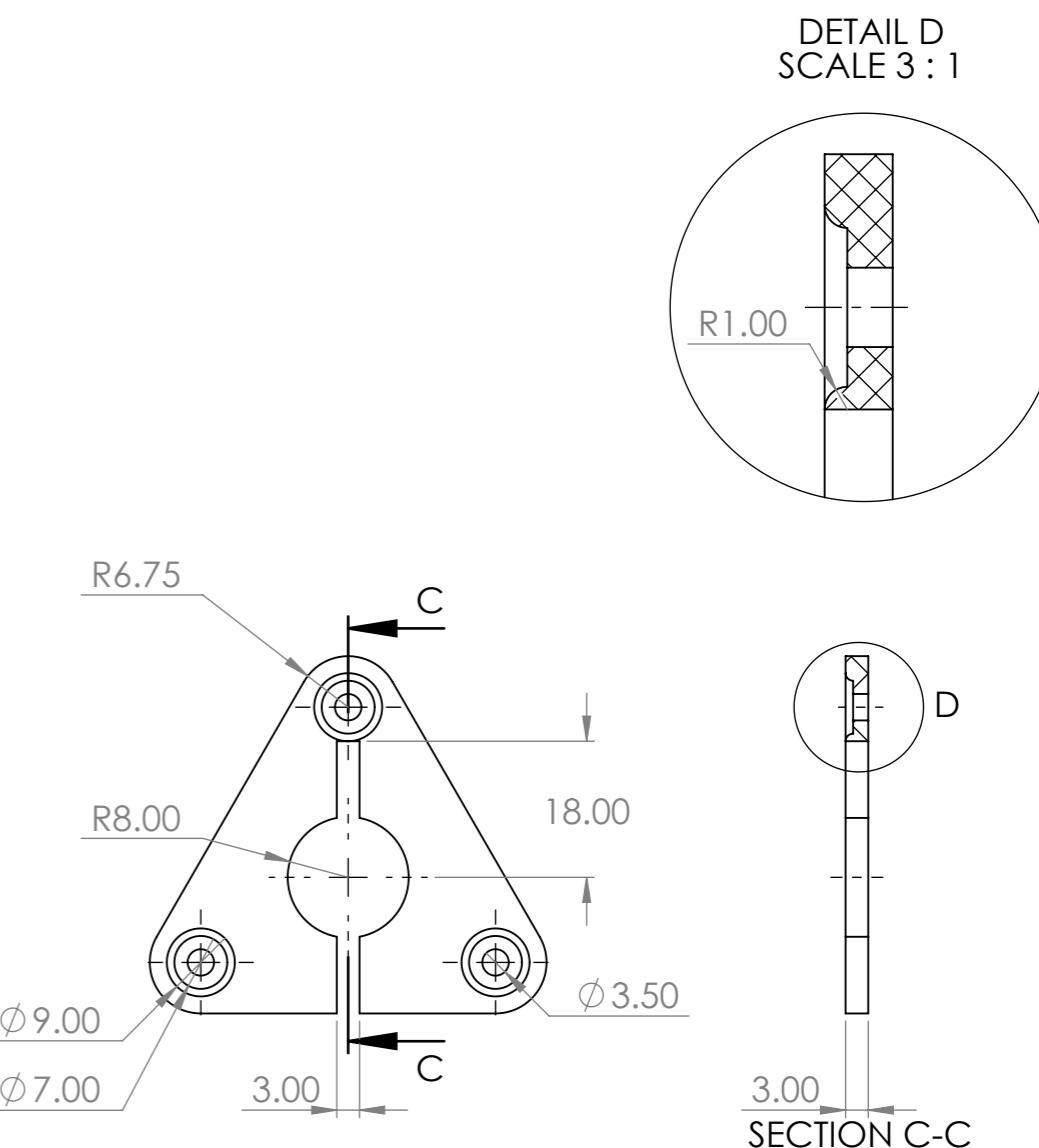
Stage 2 Planet Shaft
and Pin
F-05

Carrier - Stage 2



SECTION B-

Carrier Retaining Plate - Stage 2



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH:			DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION
	NAME	SIGNATURE	DATE			<p>TITLE: Stage 2 Carrier and Retainer Plate</p>	
DRAWN	Adam Telfer		25/10/25				
CHK'D							
APPV'D							
MFG							
Q.A				MATERIAL: 3D Printed PLA	DWG NO.		
				WEIGHT:	SCALE:1:1	SHEET 6 OF 7	

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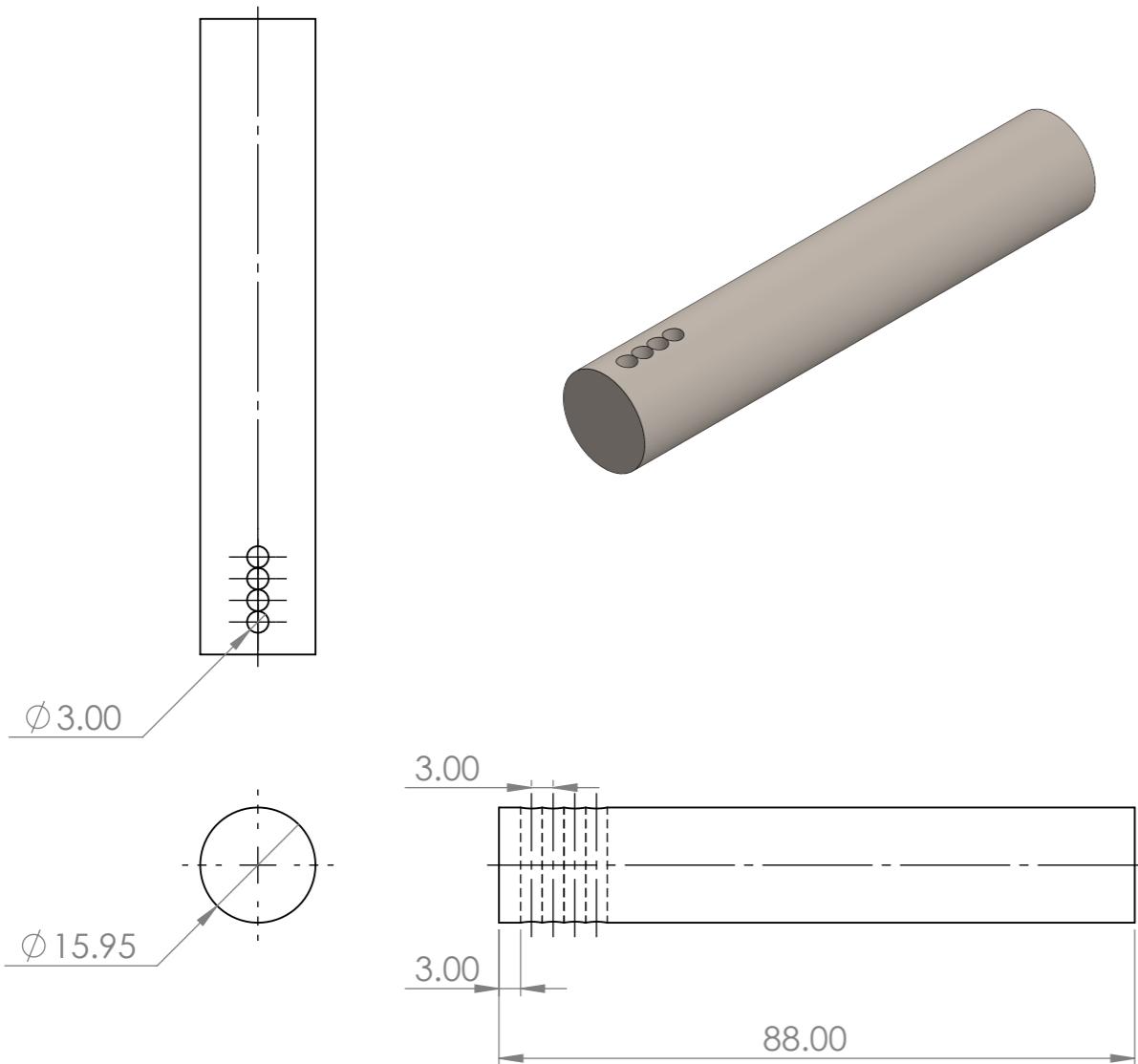
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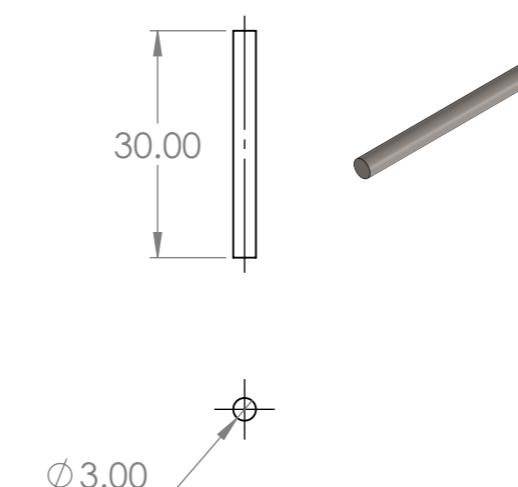
2

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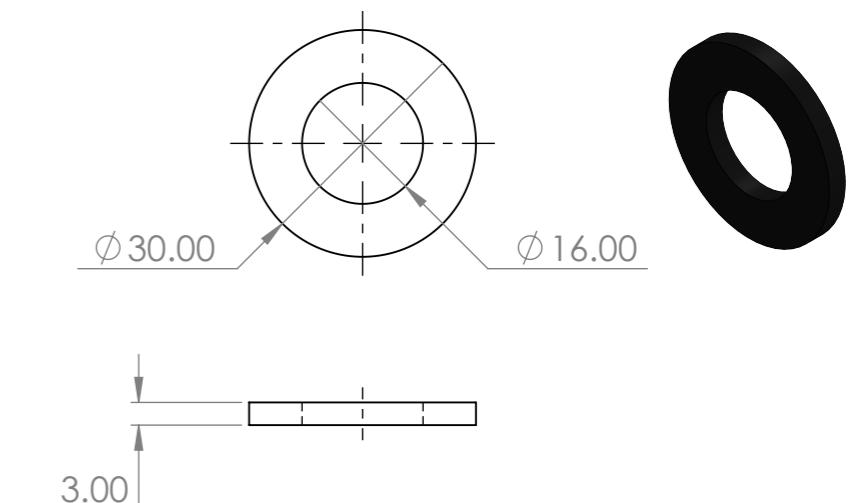
Output Shaft



Output Shaft Pin



Spacer - Carrier Stage 2



Notes

Spacer is laser cut from 3 mm acrylic.

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH:			DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION
DRAWN	Adam Telfer	SIGNATURE	DATE			TITLE:	Output Shaft, Pin and Spacer
CHK'D			25/10/25			DWG NO.	F-07
APP'D							A3
MFG							
Q.A				MATERIAL: Shaft: Aluminium Pin: Stainless Steel Spacer: Acrylic		SCALE:1:1	SHEET 7 OF 7
				WEIGHT:			