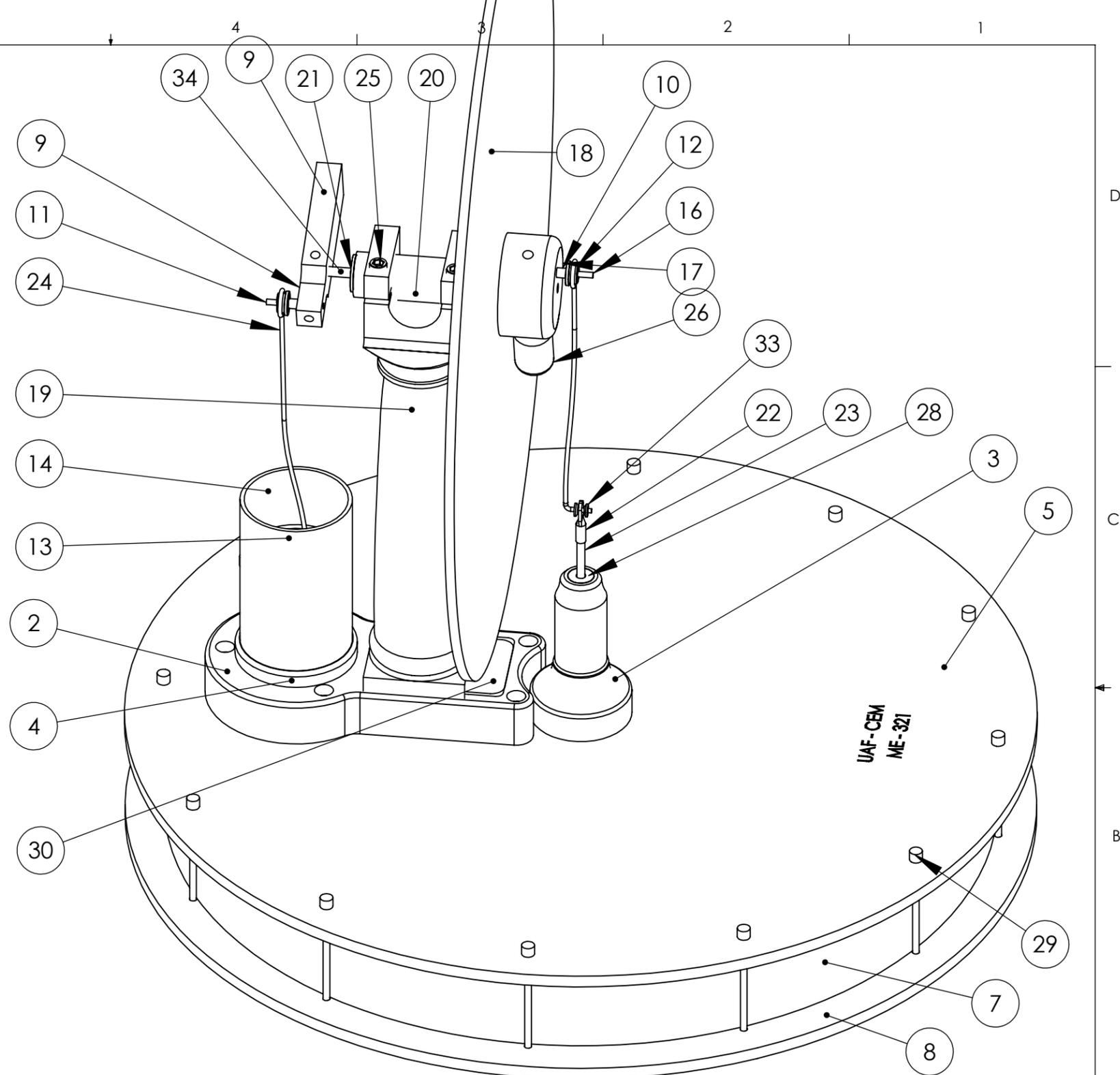


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	DRW#
1	Threaded nipple	6061 Aluminum round, 3/8 Dia.	2	6
2	Island Plate	6061 Aluminum flat bar, 3/8 x 2	1	6
3	Displacer Gland	6061 Aluminum, 1" Dia.	1	3
4	Dashpot mount	6061 Aluminum, 1-1/4" Dia.	1	3
5	Top Plate	6061 Alumium Sheet, 1/8" thick	1	4
6	Displacer		1	
7	McMaster 8585K48	Lexan tube, 8" OD	1	4
8	Bottom Plate	6061 Aluminum plate, 1/8" thick	1	4
9	Power Piston Crank	6061 Aluminum flat bar	1	3
10	Spacer, small	Type 303 Stainless steel, 3/32" Dia.	2	5
11	Pin	Music wire, 0.055" Prestraightened S.S.	1	2
12	A 7Y55-FSS3109, Stock Drive Products	Stainless steel flanged double shielded bearing	2	N/A
13	Airpot Corp. 110797-1	Included in Airport assembly	1	N/A
14	Airpot Corp. 110797-1	Precision air dashpot, glass cylinder, graphite piston	1	N/A
15	Screw, flywheel hub		3	N/A
16	Pin	Music wire, 0.070" Prestraightened S.S.	1	2
17	Flywheel hub	6061 Aluminum, 1" Dia.	1	1
18	Flywheel	3/32" Polycarbonate sheet	1	
19	Column	6061 Aluminum, 1" Square bar	1	6
20	Eccentric bearing sleeve	6061 Aluminum, 1/2" Dia.	1	2
21	A 7Y55-FSS1805, Stock Drive Products	Stainless steel flanged double shielded bearing	2	N/A
22	displacer clevis		1	
23	Displacer connecting rod	Music wire, 3/32" Pre-straightened S.S.	1	5
24	Power Piston Cnnecting Rod	Music wire, 0.039" Pre-straightened S.S.	1	2
25	McMaster 92185A108	4-40x3/8 SH Screw, S.S.	2	N/A
26	Displacer Counterwieght	SS	1	3
27	Modified screw		1	
28	Displacer gland bushing	Graphite, 1/4" Dia.	1	5
29	McMaster 91771A141	2-56x1/4 Flathead screw, S.S.	12	N/A
30	Dovetail keeper	6061 Aluminum flat bar, 1/2" x 1"	1	6
31	Spacer Bushing	3/16" Dia 303 Stainless Steel	1	5
32	Long connecting wire	Music wire, 0.039" Pre-straightened S.S.	1	2
33	Keeper		2	5
34	Crank shaft	Type 303 Stainless steel, 3/32" Dia.	1	2
35	Displacer insert		1	5



Large O-Rings
 Orings for gland, dashpot
 Screw for dovetail keeper
 Screws for column mounting plate
 New clevis
 Set screws
 Foam displacer inserts

Dovetail keeper / mount plate don't match
 Colomn needs dovetail



**University of Alaska Fairbanks
 College of Engineering & Mines**

	Name	Date
Engineer:		
Drawn by:	MNV	9/2010
Checked by:		
Approved by:		
Do Not Scale Drawing		

Project:	ME321 LOW DELTA T STIRLING HEAT ENGINE
Part Name:	Engine Overview
Part No:	2.0
Rev:	2.0

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