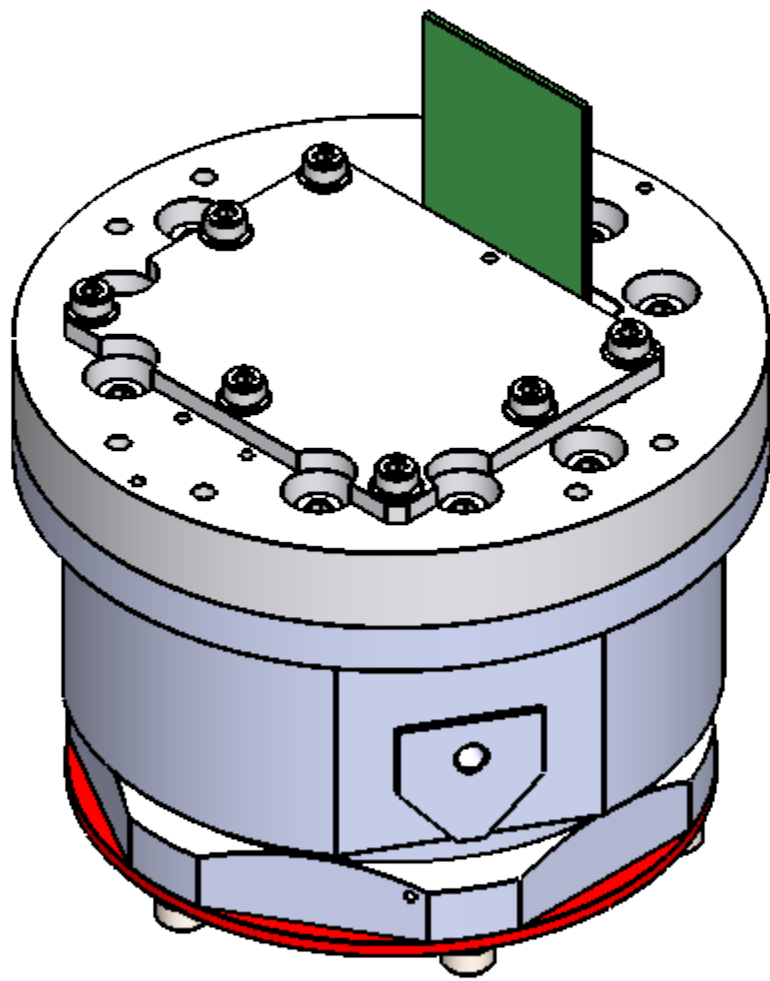
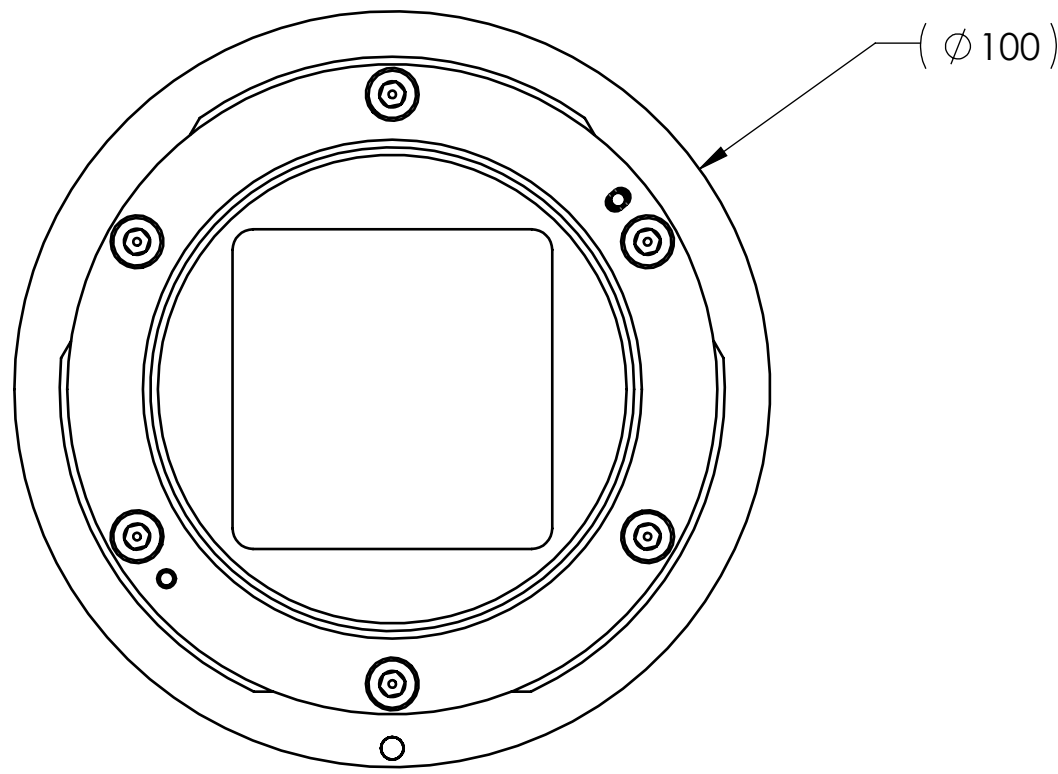
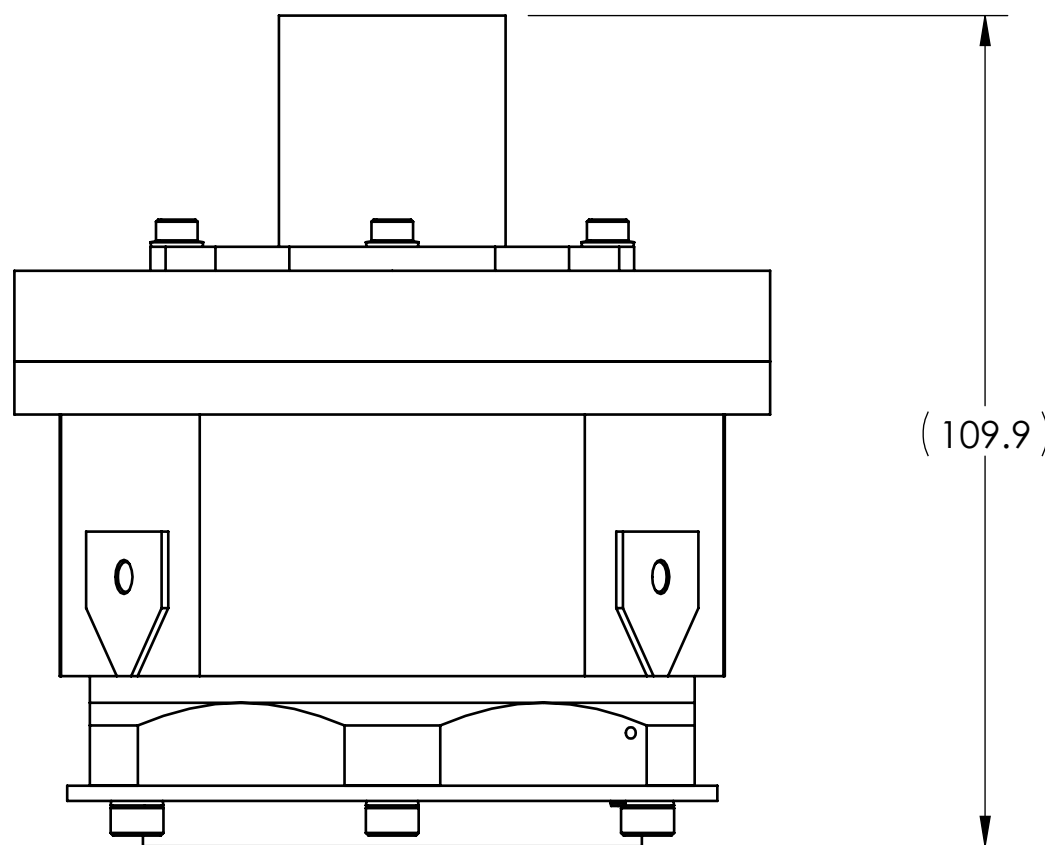
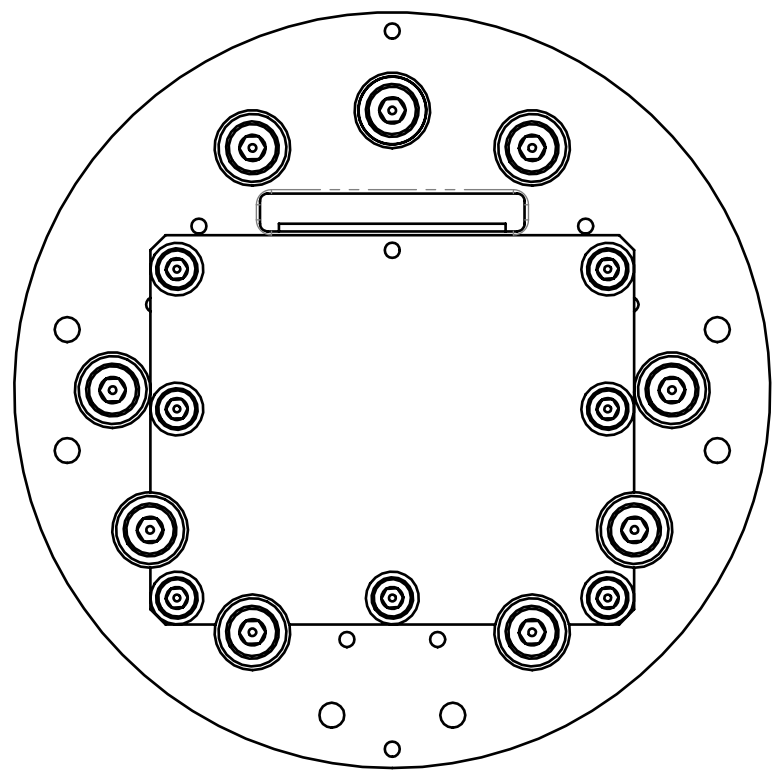


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REVISIONS						
ZONE	REV.	DESCRIPTION	DATE		APPROVED	
	A	INITIAL RELEASE	5/26/2017		Alex Delacroix	



ISOMETRIC VIEW



NOTES: UNLESS OTHERWISE DETAILED

1. GEOMETRY AND OTHER DETAILS NOT PROVIDED HERE SHALL BE DERIVED FROM PROVIDED 3D CAD MODEL:
GATPAL-ABA-AA0-GATTINI_DETECTOR_HOUSING_ASSEMBLY, REV: A
2. 3D FILE REVISION TO BE EQUAL TO THIS 2D DRAWING.

3. PRESS ITEM 2 INTO ITEM 1 AND ITEM 14 INTO ITEM 13.
4. TORQUE TO 0.5N.m
5. TORQUE TO 0.13N.m (18 OZ.IN)
6. INSTALL ACCORDING TO GATPLA-ABA-P00 INSTALLATION PROCEDURE.
7. TAG WITH PART NUMBER AND REVISION.

29	7	93235A312	Vented Socket Head Screw, M3-0.5 X 8 mm Long	18-8 Stainless Steel	McMaster-Carr
28	1	GATPAL-ABA-AAJ	COLD PLATE COVER	6061-T6	MACHINED PART
27	9	93235A333	Vented Socket Head Screw, M4-0.7 X 10 mm Lg	18-8 Stainless Steel	McMaster-Carr
26	10	91477A141	BELLEVILLE SPRING LOCK WASHER, M4, 4.3mm ID, 9mm OD, 1mm Thk, 18-8 SS	18-8 Stainless Steel	McMaster-Carr
25	3	9713K54	BELLEVILLE DISC SPRING, .125" ID, .25" OD	AISI 302 Stainless Steel	Mc Master-Carr
24	1	H2RG	INFRARED DETECTOR		Teledyne
23	1	A12	EPOXY	A-12 Epoxy	ARMSTRONG
22	1	GATPAL-ABA-AAK	DETECTOR CONNECTOR - PCB ASSEMBLY	SEE BOM	ASSEMBLY
21	3	94035A162	Precision Shoulder Screw, 3/16" Dia X 9/32" Lg Shoulder, #8-32 X 3/16" Lg	18-8 Stainless Steel	McMaster-Carr
20	3	9712K58	Belleville Disc Spring ID0.19 OD0.375		McMaster-Carr
19	3	91225A112	PHENOLIC WASHER, 9mm OD X 4.3mm ID X 0.8mm THICK	Phenolic	Mc Master-Carr
18	3	GATPAL-ABA-AAG	INSULATING SLEEVE	Cryogenic G10-CR	MACHINED PART
17	3	GATPAL-ABA-AAH	INSULATING SPACER	Kapton Polyimide	CUT PART
16	6	90278A316	Precision Shoulder Screw, 4mm Dia X 8mm Lg Shoulder, M3-0.5 x 4mm Lg	18-8 Stainless Steel	McMaster-Carr
15	3	GATPAL-ABA-AAF	DETECTOR MOUNT FLEXURE	6061-T6	MACHINED PART
14	2	91595A108	DOWEL PIN, 3mm Dia X 10mm Lg	Alloy Steel	Mc Master-Carr
13	1	GATPAL-ABA-AAE	DETECTOR COLD PLATE	6061-T6	MACHINED PART
12	4	91292A111	Socket Head Cap Screw, M3-0.5 x 6 mm	18-8 Stainless Steel	McMaster-Carr
11	2	TO-220	RESISTOR HEATER		
10	1	4344-144	THERMOSTAT		KLIXON
9	1	GATPAL-ABA-AAD	DETECTOR MOUNTING PLATE	Molybdenum	MACHINED PART
8	6	93235A322	Vented 18-8 Stainless Steel Socket Head Cap Screw, M4 Thread, 1 mm Vent Diameter, 8 mm Long	Stainless Steel (ferritic)	McMaster-Carr
7	23	91477A121	BELLEVILLE SPRING LOCK WASHER, M3, 3.2mm ID, 7mm OD, .6mm Thk, 18-8 SS	18-8 Stainless Steel	McMaster-Carr
6	1	GATPAL-ABA-AAC	FILTER HOLDER BAFFLE	6061-T6 Aluminum	
5	1	cov glss vt	Band Pass Filter	Glass	TBD
4	2	GATPAL-ABA-AAB	FILTER CUSHIONNING RING	Kapton	MACHINED PART
3	1	099-140-CT	SPRINGED FILTER HOLDER, 217.5mm Lg	Copper, UNS C10100	OMEGA SHIELDING
2	2	93600A191	Dowel Pin, 2mm Dia X 8mm Lg	AISI 316 Stainless Steel	Mc Master-Carr
1	1	GATPAL-ABA-AAA	DETECTOR HOUSING	6061-T6	MACHINED PART
ITEM NO.	QTY	PART NUMBER	DESCRIPTION	MATERIAL	VENDOR

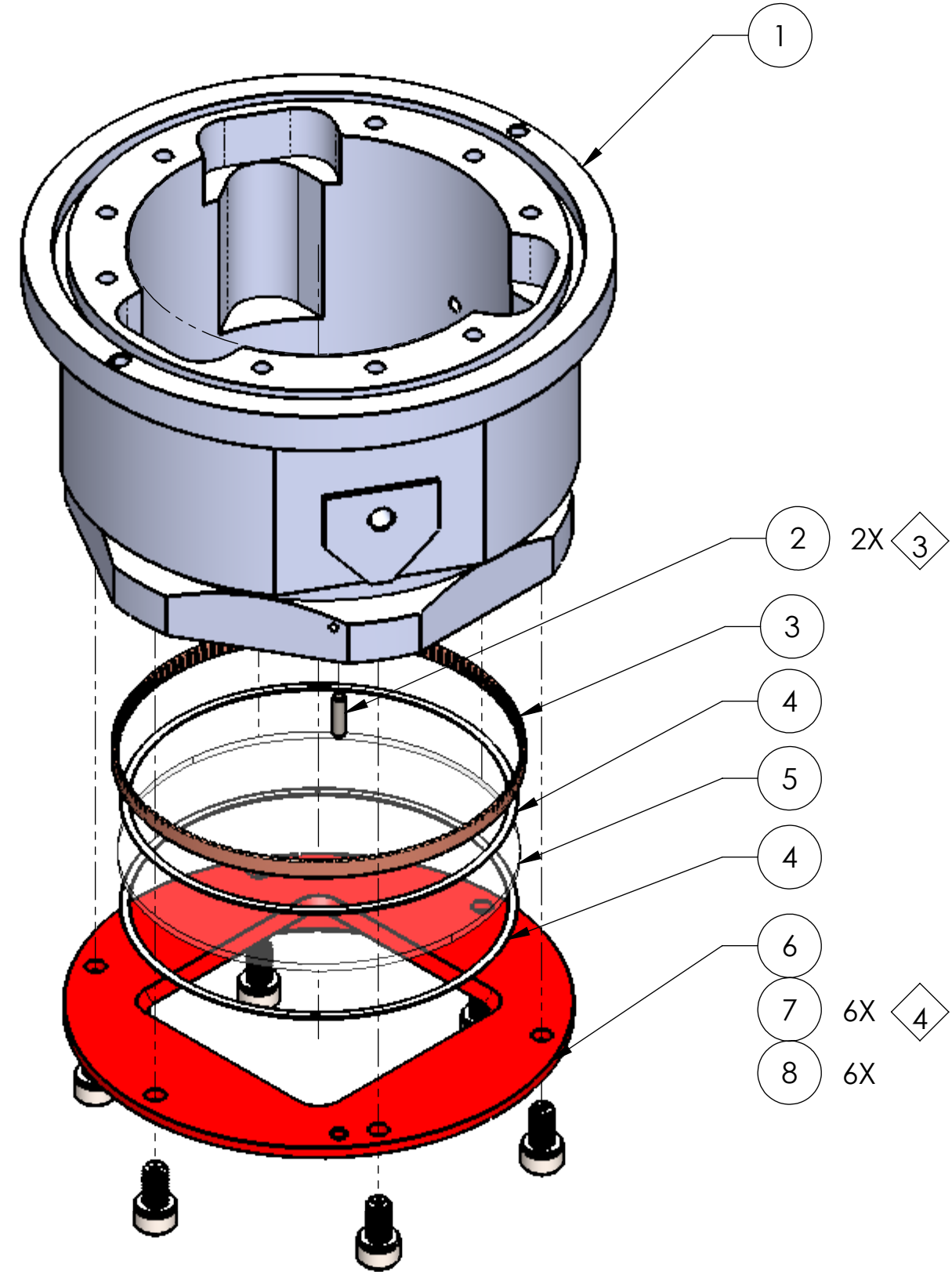
		UNLESS OTHERWISE SPECIFIED:	DRAWN	DATE	NAME	CALIFORNIA INSTITUTE OF TECHNOLOGY CALTECH OPTICAL OBSERVATORIES		
		DIMENSIONS ARE IN mm	DRAWN	"Drawn Date"	"Created Date"			
		MACHINED FILLET RADII: R0.4-0.7	ENG APPR.					
		DE-BURR AND BREAK EDGES: 0.2-0.7 RADIUS OR CHAMFER	MFG APPR.	xx/xx/2013		TITLE:		
		MACHINED SURFACE 1.6/0.8	INTERPRET DRAWING IN ACCORDANCE WITH ASME Y14.100			DETECTOR HOUSING ASSEMBLY		
		ROUGHNESS μm Ra ∇				DETECTOR-INTERFACE ASSEMBLY		
		----- GENERAL TOLERANCES -----	GEOMETRIC TOLERANCING PER ASME Y14.5M-2009					
		LINER: ANGULAR:						
		0 - 6 ±0.1 MACH: ±0.5°	DO NOT SCALE DRAWING					
		>6 - 120 ±0.3 BEND: ±1.0°	THIRD ANGLE PROJECTION			SIZE	DWG. NO.	REV
GATPAL-ABA-A00	GATPAL					D	GATPAL-ABA-AA0	A
NEXT ASSY	USED ON					SCALE: 1:1	WT: 0.98kg	SHEET 1 OF 2
APPLICATION		MATERIAL						
		SEE BOM						

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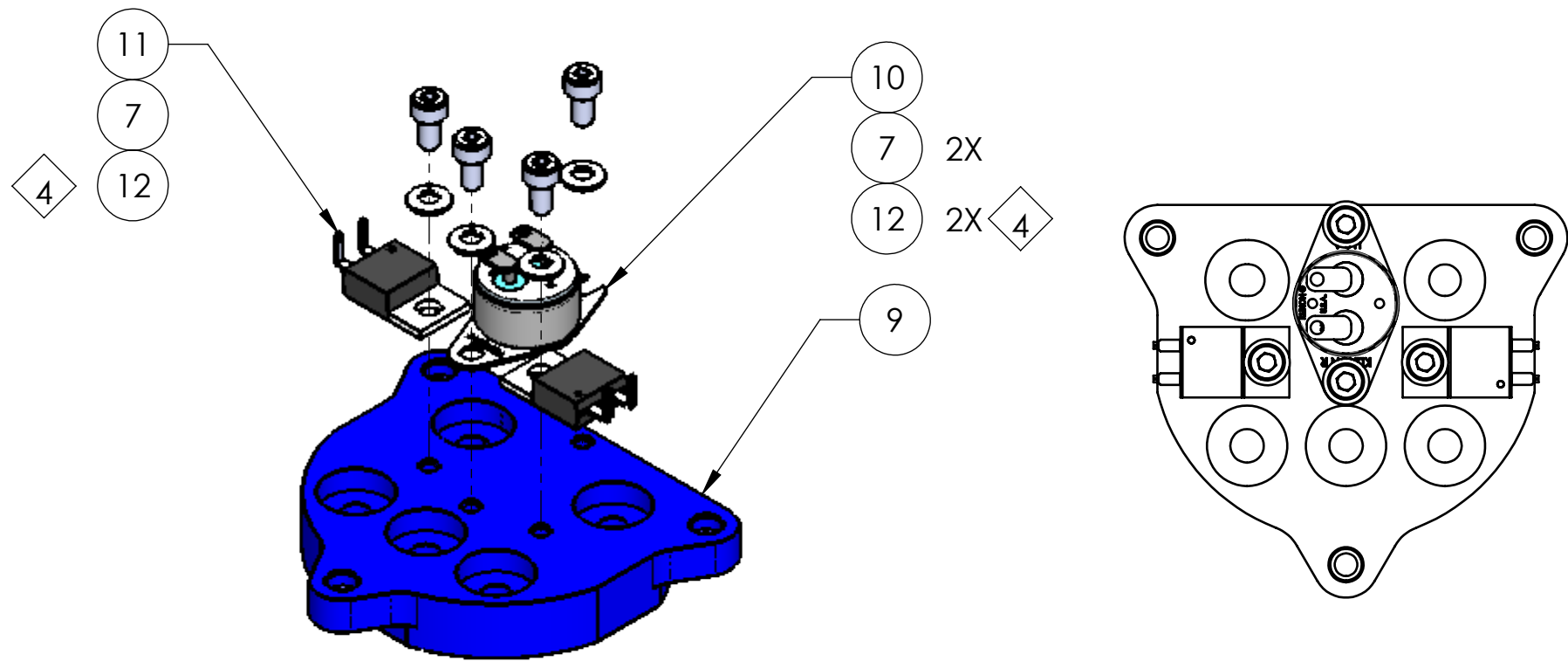
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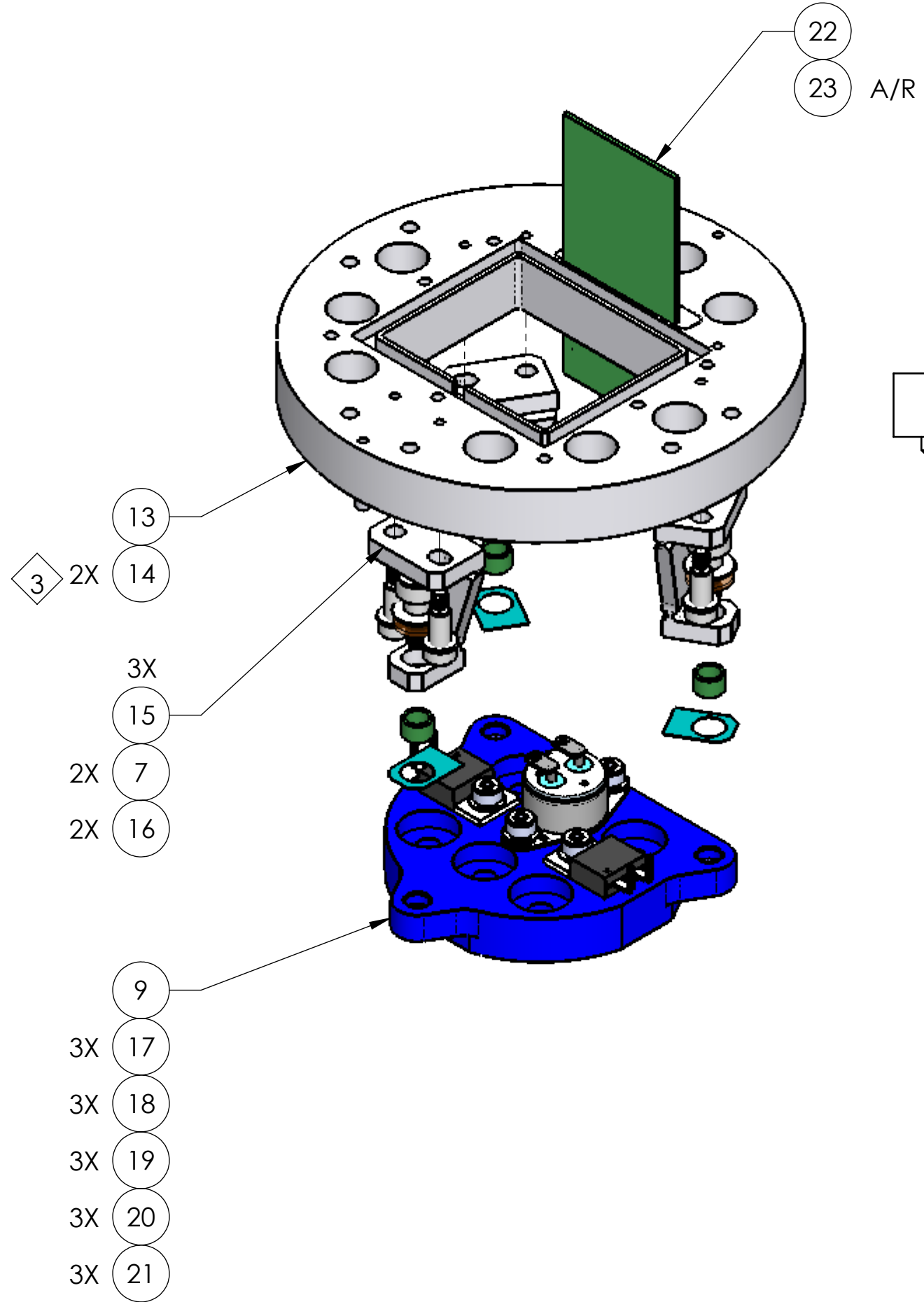
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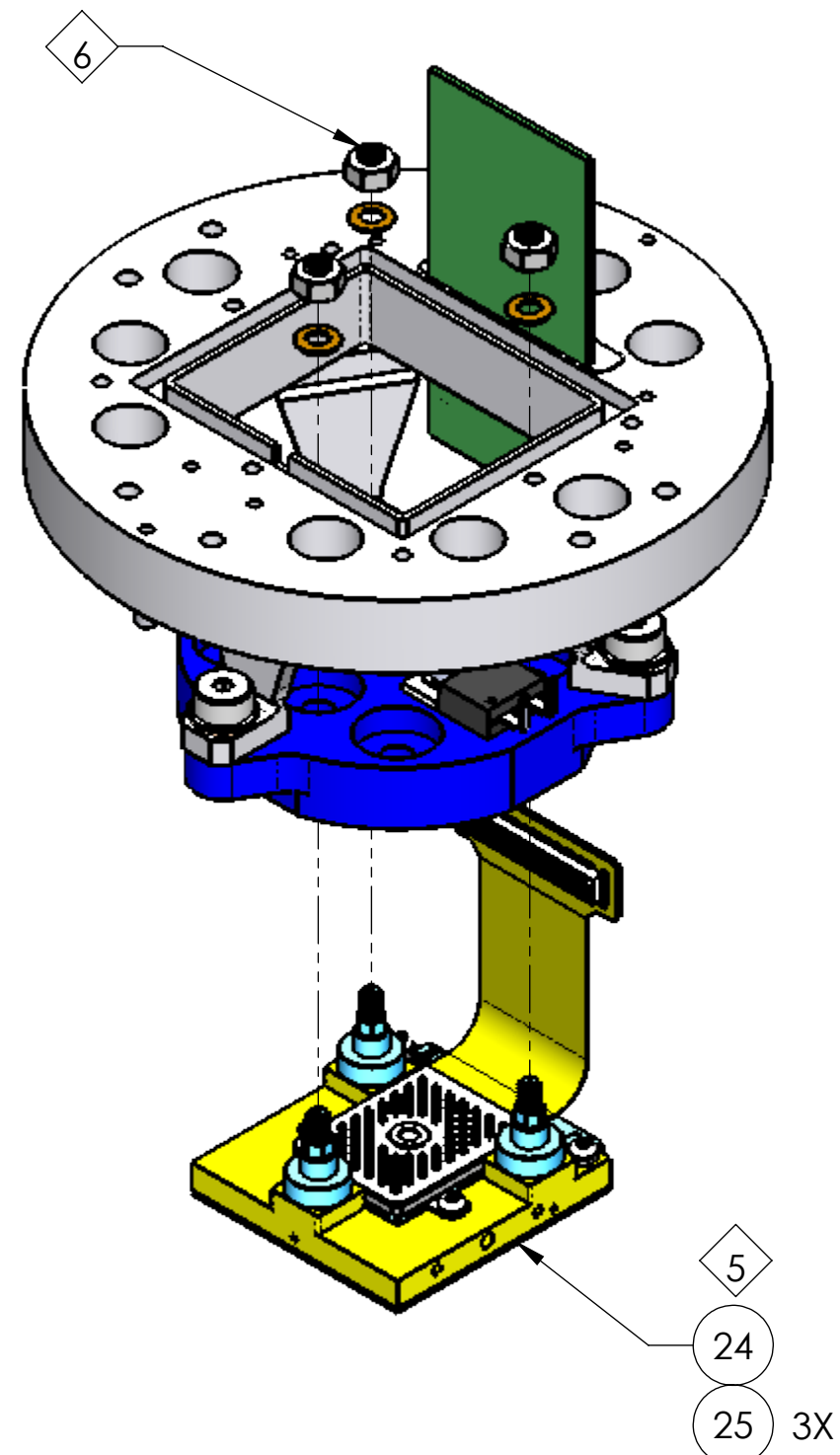
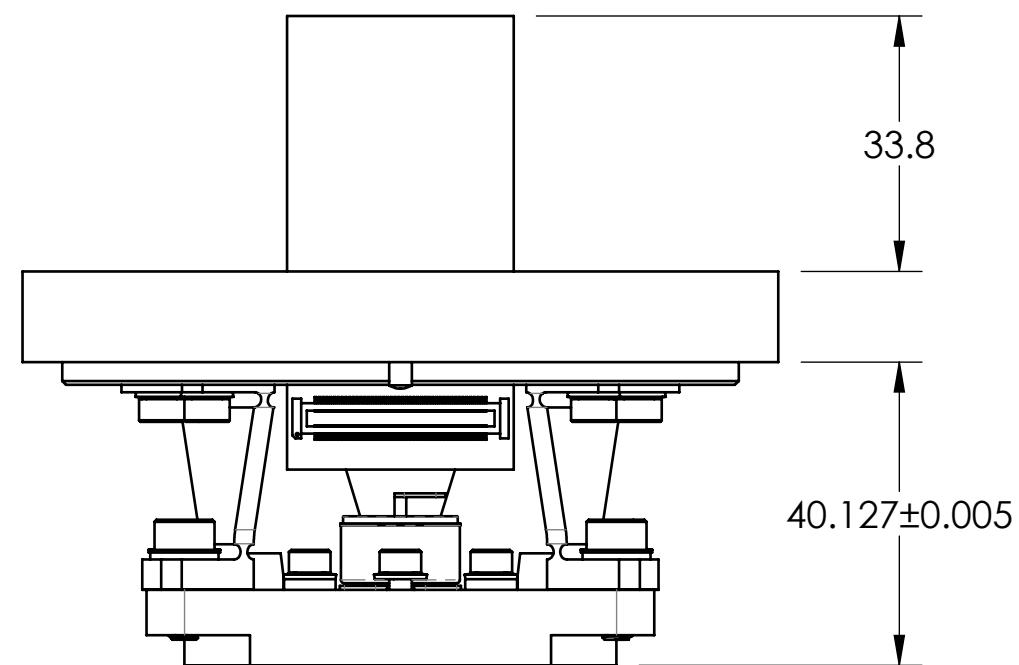
STEP 1



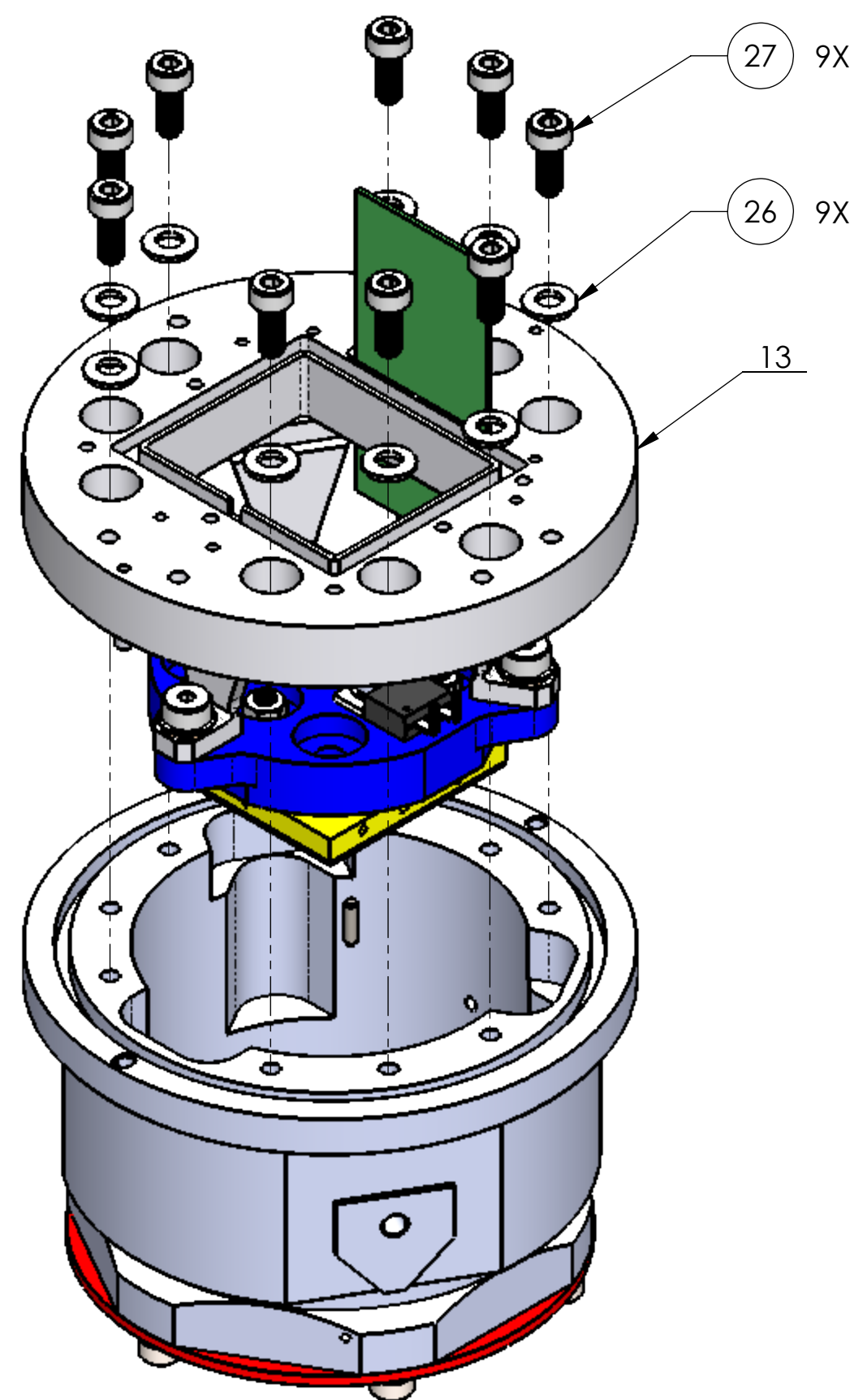
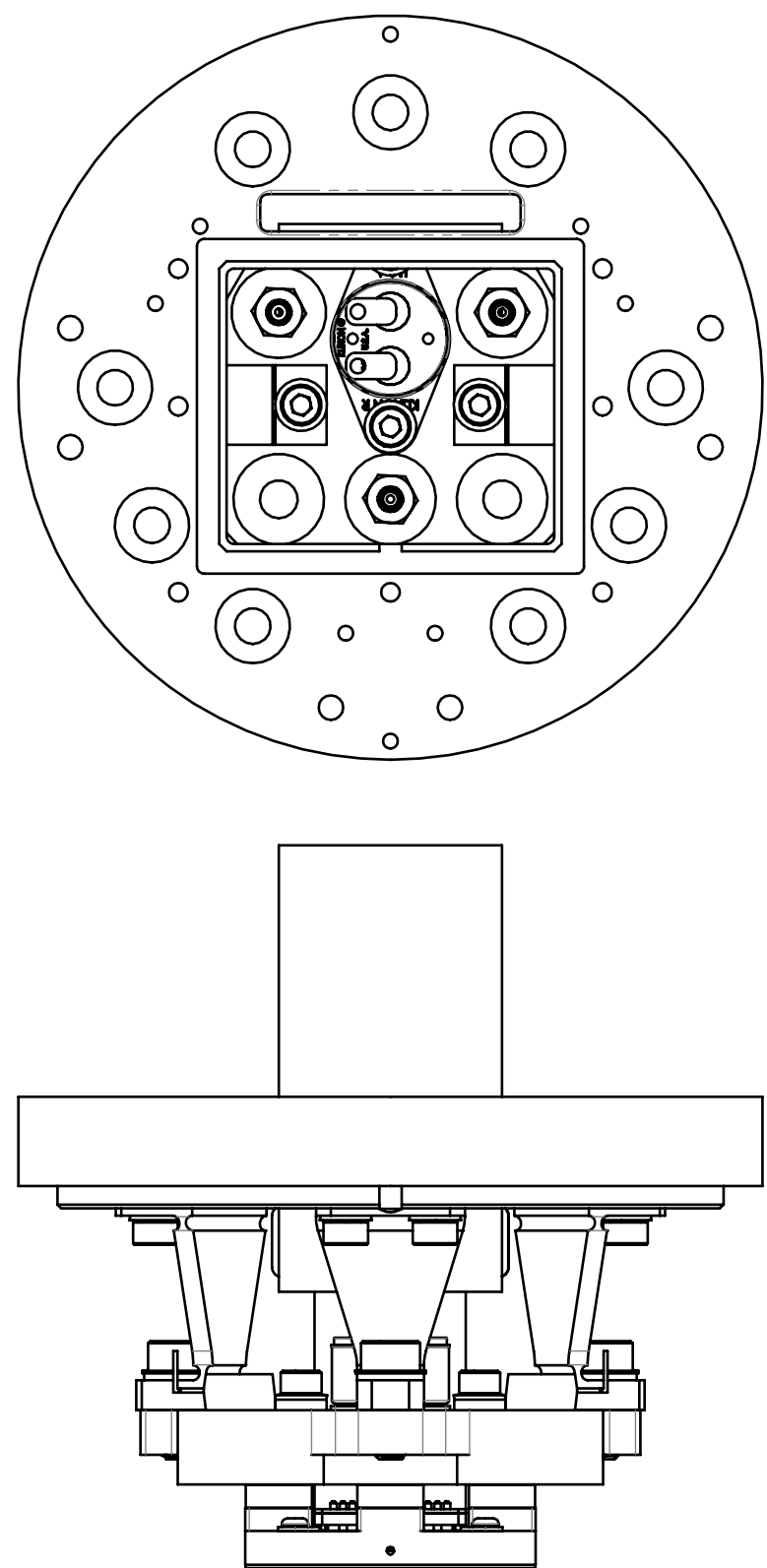
STEP 2



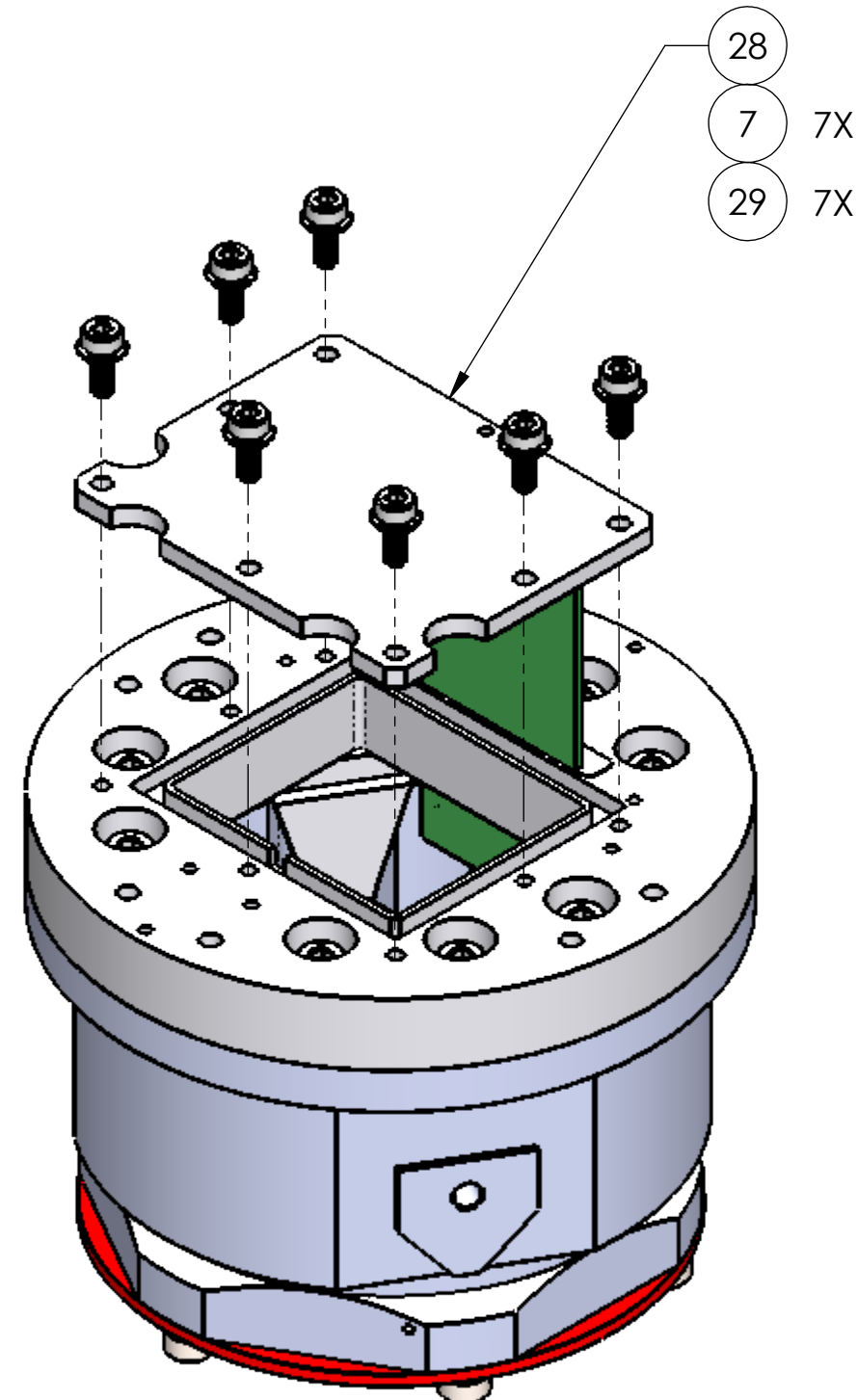
STEP 3



STEP 4



STEP 5



STEP 6

CALIFORNIA INSTITUTE OF TECHNOLOGY CALTECH OPTICAL OBSERVATORIES		
TITLE: DETECTOR HOUSING ASSEMBLY DETECTOR-INTERFACE ASSEMBLY		
SIZE D	DWG. NO. GATPAL-ABA-AA0	REV A
SCALE: 1:1		SHEET 2 OF 2

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