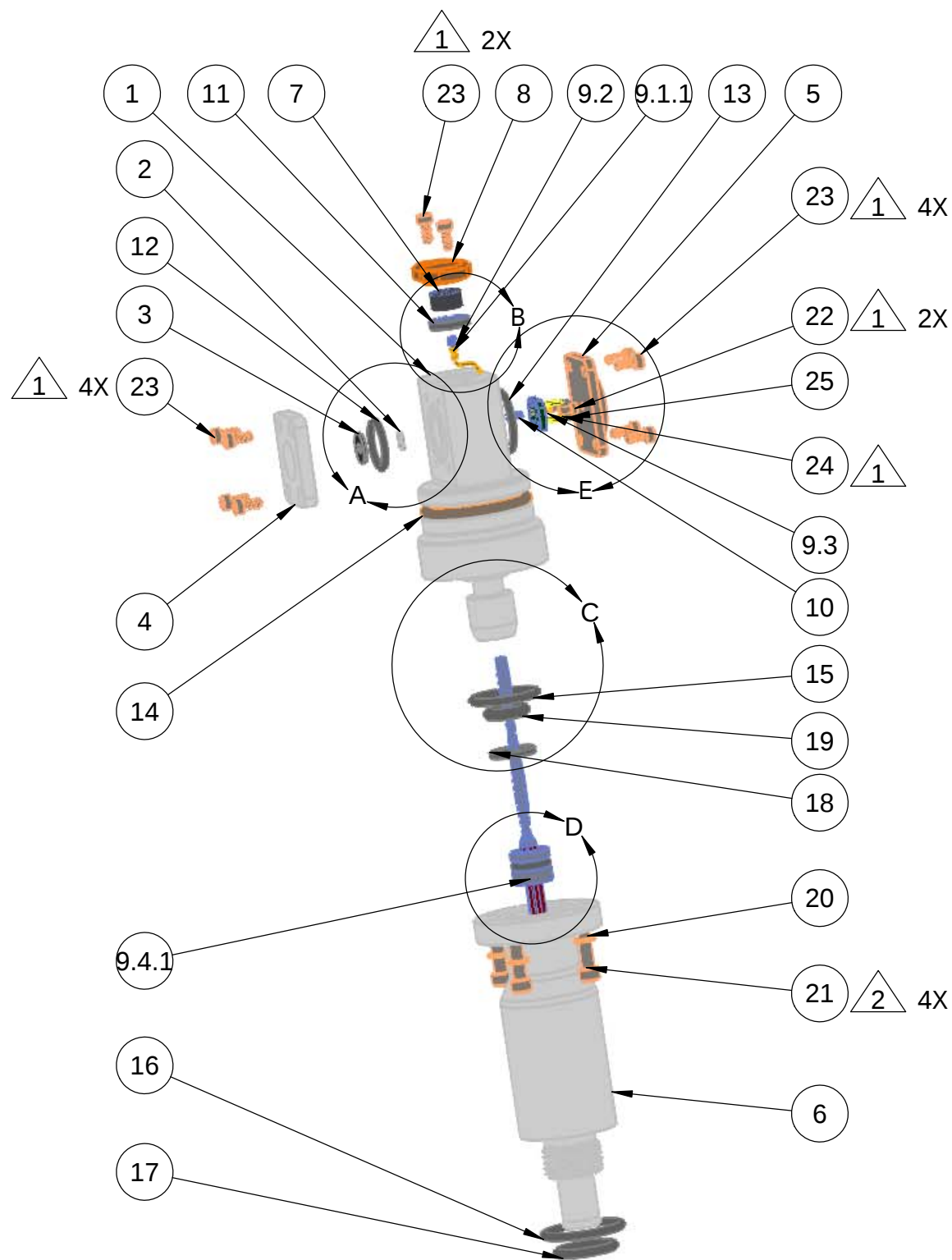


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NOTES:

- | | |
|---|---|
| 1 | Apply thread locker item (28) |
| 2 | No thread locker at initial assembly
Thread locker applied before deployment |

Status: Released to Manufacturing

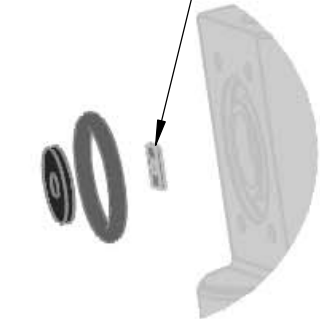
MBARI BOM						
ITEM NO.	Revision	File Name	Vendor	Vendor Part Number	Dwg Num	ASSY. QTY.
1	U	Housing	MBARI	NA	100221678	1
2	F	DuraFETchip6	Sea-Bird Electronics	73005966		1
3	F	duraFETFaceGasket_Viton_D75A	McMaster Carr	86075K21	100221683	1
4	G	FrontCoverPlateTailShoulder	MBARI	NA	100221681	1
5	J	backCoverPlate	MBARI	NA	100221684	1
6	K	portAdapter	MBARI	NA	100221685	1
7	G	VLRefPelletAlteredItem	Van London	Chloride ISE Pellet 7.2mm x 4.6mm MBARI-001 use MBARI Pin and Die	100221686	1
8	H	VLRefElectrodeCap	MBARI	NA	100221687	1
9		GDF_Wiring_Harness	MBARI	NA	100221659	1
9.1	F	VLPelletContact	MBARI	NA	100221688	1
9.1.1	I	VLPelletContactAlteredItem	Mill-Max	0286-0-00-34-00-00-03-0		1
9.1.2	I	Wire	Weico	2330		1
9.1.3	I	VLPelletWireSolder	Kester	24-6337-8808 or 24-6337-9756 or AIM SN100C		1
9.2	F	VLPelletFuzzButton	Custom Interconnects	80-075075		1
9.3		CircuitCardAssy	MBARI	NA	100221480_Assy	1
9.3.1	D	100221480rb2_isfetinterfacepcb	MBARI	NA (part of 100221480)		1
9.3.2	D	mill-max-8969-0-05-21-00-00-03-0	Mill-Max	8969-0-05-21-00-00-03-0		4
9.3.3	D	mill-max-4068-0-00-15-00-00-33-0	Mill-Max	4068-0-00-15-00-00-03-0		3
9.4	F	PaveTechPenetrator	Pave Technology	5535		1
9.4.1	G	PaveTechPenetrator	Pave Technology	NA (part of 5535)		1
9.4.2	F	ORingViton-10	Pave Technology	NA (part of 5535)		1
10	F	Fuzzbutton	Custom Interconnects	80-020125		3
11	F	ORingSquare-010	McMaster Carr	4061T115		1
12	F	ORing1.5x10mm_Buna_D70A	McMaster Carr	9262K127		1
13	F	1.5x13mmORing_Buna_D70A	McMaster Carr	9262K123		1
14	F	ORing-118_Silicon_D70A	McMaster Carr	9396K75		1
15	F	ORing-015_Buna_D70A	McMaster Carr	4198T511		1
16	F	ORing-017_Viton_D75A	McMaster Carr	9464K71		1
17		VitonO-Ring 3-906 D90A	McMaster-Carr	9752K116		1
18	F	backupRing108	McMaster Carr	5288T163 (MC special order)		1
19	F	MIL SPEC O-RING-108	McMaster-Carr	5018T533		1
20	F	regular lw 0.112 titanium	United Titanium	1-01-322-00.00		4
21	F	hx-shcs 0.112-40x0.375x0.375-n	McMaster-Carr	95435A350		4
22	F	hx-shcs 0.06-80x0.125x0.125-n	McMaster Carr	92196A052		2
23	F	SHCS Ti2-56x0.188	McMaster Carr	95435A207		10
24	F	sbhcscrew 0.06-80x0.125-hx-n	McMaster-Carr	92949A050		1
25	F	18-8 Stainless Steel Washer	McMaster-Carr	92141A002		2
26		Lapping Paper 9 micron	McMaster-Carr	4837A118		1
27		Haynes Silicone Grease	Amazon	Hayg 4OZ		1
28		ThreadLocker	Vibra-Tite VC3	McMaster-Carr 75145A69		1

BILL OF MATERIALS

NEXT ASSY Description	NEXT ASSY Number	UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS		DATE		Monterey Bay Aquarium Research Institute M B A R I  7700 Sandholdt Rd. Moss Landing, CA 95039 831 775-1922					
		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN	Gene M.	ENGINEER	Gene M.					CHECKED	
THIRD ANGLE PROJECTION		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADII .0150-.030. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.				PROJECT NO.	901217	PROJECT	Chem Sensors						
		DO NOT SCALE DRAWING				MAT'L			SIZE B		DWG. NO. 100221682		REV. K		
							SCALE 1:4		CAD FILE:		SHEET 1 OF 2				

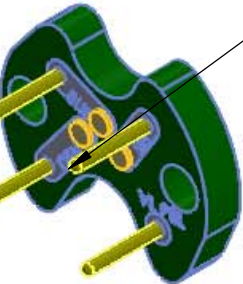
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BACKSIDE TRACES
POINT UP



DETAIL A
SCALE 2 : 1.5

DMM IN DIODE MODE
NEGATIVE PROBE HERE



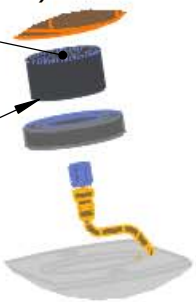
POSITIVE PROBE HERE FOR
SUBSTRATE-SOURCE TEST

POSITIVE PROBE HERE FOR
SUBSTRATE-DRAIN TEST

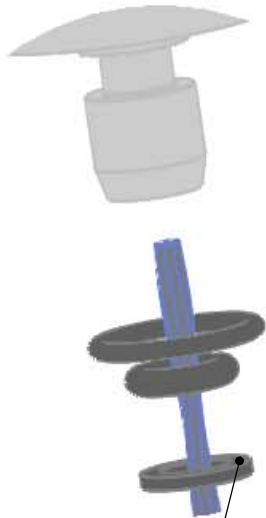
INSTALL MATTE (GRAY)
SIDE UP

SILVER
SIDE DOWN

DETAIL B
SCALE 2 : 1.5

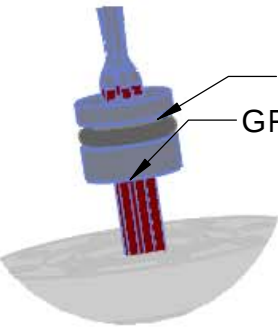


DETAIL C
SCALE 2 : 1.5

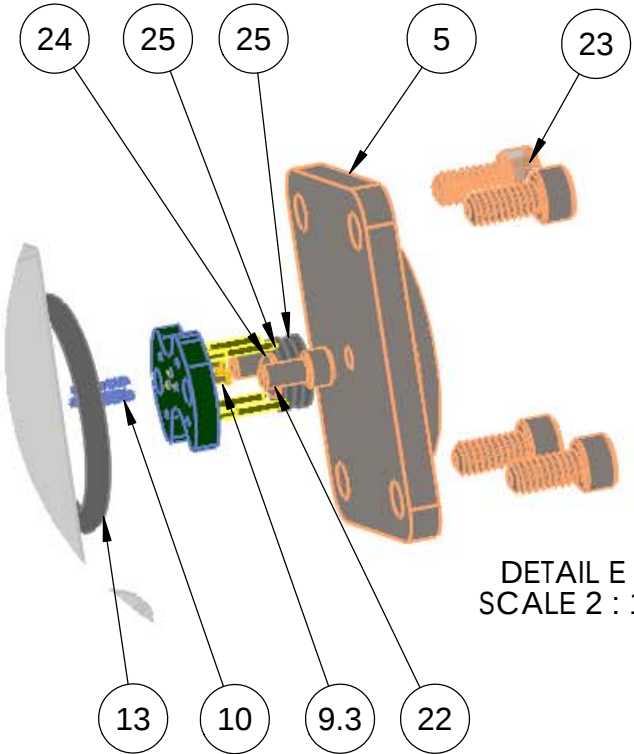


INSTALL BACKUP RING
CUP FACE UP

INSTALL THIN SIDE UP
GREEN DOT SIDE DOWN



DETAIL D
SCALE 2 : 1.5

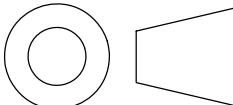


DETAIL E
SCALE 2 : 1

Screw Torque Req'ts +/- 10%

Screw Size	Torque in-lbs	Torque Nm
0-80	App. 1.0	App. 0.11
2-56	3	0.34
4-40	3.5	0.40

BILL OF MATERIALS

BILL OF MATERIALS													
NEXT ASSY Description	NEXT ASSY Number	UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS		DATE		Monterey Bay Aquarium Research Institute MBARI 7700 Sandholdt Rd. Moss Landing, CA 95039 831 775-1922  GDF ASSEMBLY, ASSEMBLY NOTES			
		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN		Gene M.					
THIRD ANGLE PROJECTION		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADII .0150-.030. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.				ENGINEER		Gene M.					
						CHECKED							
						PROJECT NO.		901206					
						PROJECT		Coastal Profiling Float					
						SIZE B		DWG. NO.				REV. K	
		DO NOT SCALE DRAWING				MAT'L				SCALE 1:4 CAD FILE:		SHEET 2 OF 2	