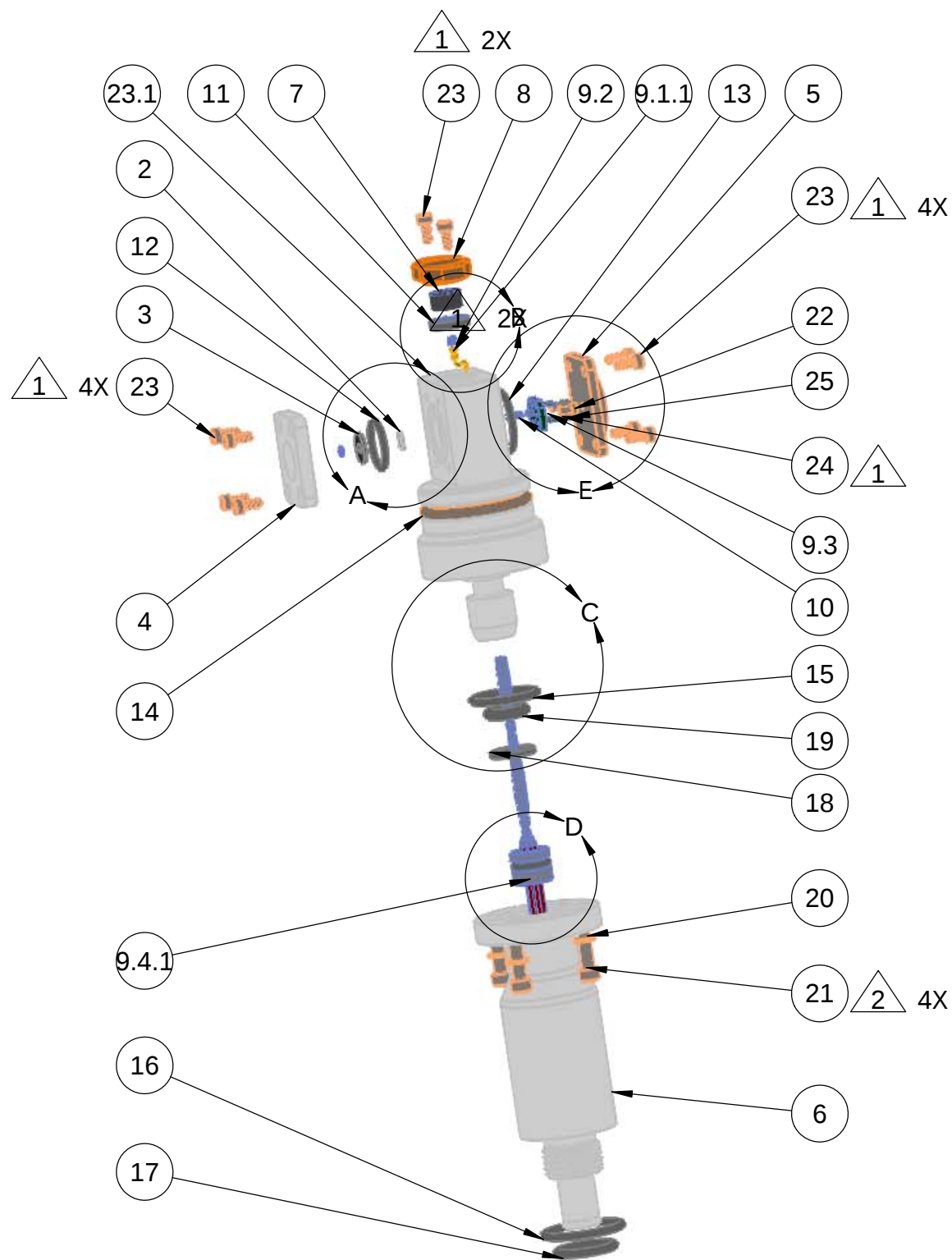


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NOTES:

1 Apply thread locker item (28)

2 No thread locker

Status: Released to Manufacturing

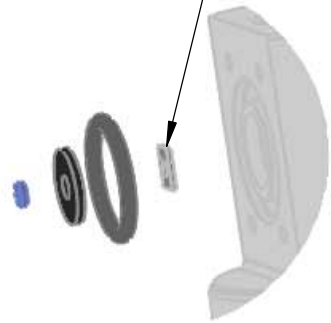
MBARI BOM						
ITEM NO.	Revision	SW-File Name(File Name)	Vendor	VendorNo	Dwg Num	ASSY. QTY.
23.1	S	Housing	MBARI		100221678	1
2	F	DuraFETchip6	MBARI CFE			1
3	F	duraFETFaceGasket_Viton_D75A	McMaster Carr	86075K21	100221683	1
4	G	FrontCoverPlateTallShoulder	MBARI		100221681	1
5	I	backCoverPlate	MBARI		100221684	1
6	H	portAdapter	MBARI		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		100221687	1
9		GDF_Wiring_Harness			100221659	1
9.1	F	VPelletContact			100221688	1
9.1.1	I	VPelletContactAlteredItem	Mill-Max	0286-0-00-34-00-00-03-0		1
9.1.2	I	Wire	Weico	2330		1
9.1.3	I	VPelletWireSolder	Kester	24-6337-8808 or 24-6337-9756 or AIM SN100C		1
9.2	F	VPelletFuzzButton	Custom Interconnects	80-075075		1
9.3		ISFETInterfaceAssy				1
9.3.1	E	ISFETInterfaceAssy			100221480_Assembly	1
9.3.2	D	100221480rb2_isfetinterfacepcb				1
9.4	F	PaveTechPenetrator		5535		1
9.4.1	G	PaveTechPenetrator	Pave Technology			1
9.4.2	F	ORingViton-10	Pave Technology			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	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	Haynes			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			
		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN Gene M.		 7700 Sandholdt Rd. Moss Landing, CA 95039 831 775-1922			
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. 901217											
						PROJECT Chem Sensors					
		DO NOT SCALE DRAWING				MAT'L					
						SIZE B		DWG. NO. 100221682		REV. J	
						SCALE 1:4		CAD FILE:		SHEET 1 OF 2	

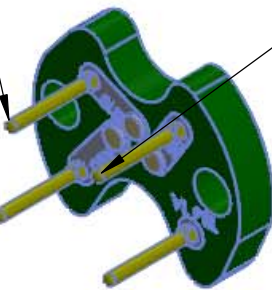
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BACKSIDE TRACES
POINT UP



DETAIL A
SCALE 2 : 1.5

DMM IN DIODE MODE
NEGATIVE PROBE HERE



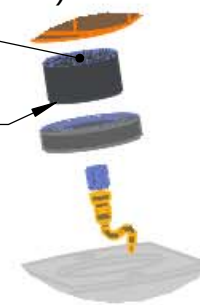
POSITIVE PROBE HERE FOR
SUBSTRATE-SOURCE TEST

POSITIVE PROBE HERE FOR
SUBSTRATE-DRAIN TEST

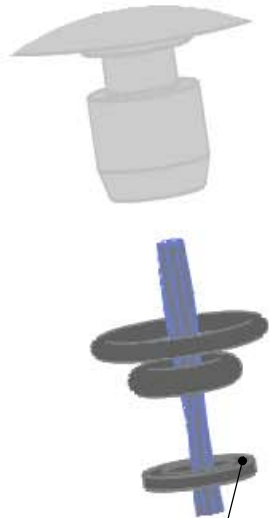
INSTALL MATTE (GRAY)
SIDE UP

SILVER
SIDE DOWN

DETAIL B
SCALE 2 : 1.5

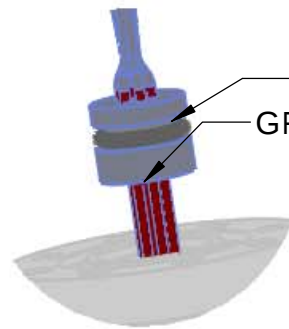


DETAIL C
SCALE 2 : 1.5

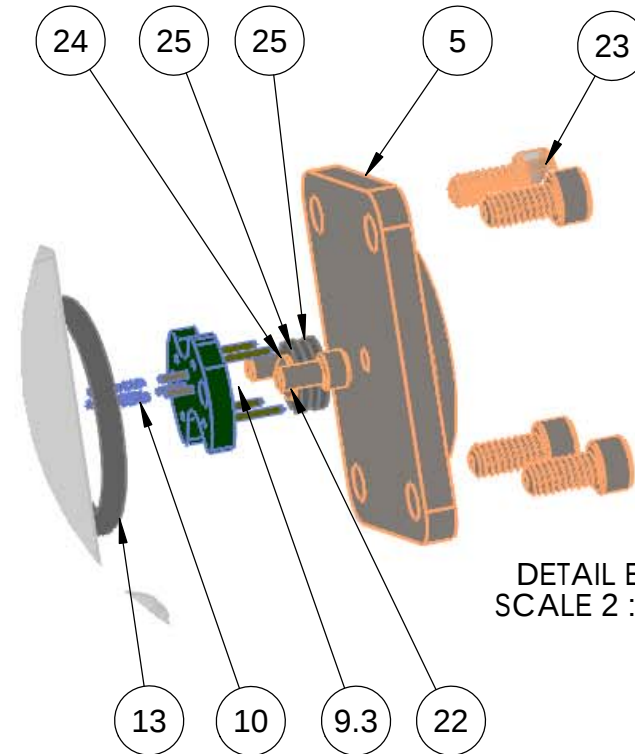


INSTALL BACKUP RING
CUP FACE UP

INSTALL THIN SIDE UP
GREEN DOT SIDE DOWN



DETAIL D
SCALE 2 : 1.5

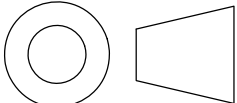


DETAIL E
SCALE 2 : 1

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.				
		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.	
THIRD ANGLE PROJECTION							CHECKED				
		DO NOT SCALE DRAWING					PROJECT NO.	901206	J		
							PROJECT	Coastal Profiling Float			
							SIZE B			DWG. NO.	
							SCALE 1:4			CAD FILE:	
							SHEET 2 OF 2				