



**Sea-Bird Electronics, Inc.**  
13431 NE 20th Street  
Bellevue, WA 98005 United States

Phone  
Fax

+1-425-643-9866  
+1-425-643-9954  
www.seabird.com

## SERVICE REPORT

**Service Request**  
**Date**  
**Sales Order**

**1005503377**  
15-MAR-2018  
314897358

## CUSTOMER INFORMATION

Name: MBARI - MONTEREY BAY AQUARIUM RESEARCH INSTITUTE  
Account : 40279834  
Jared Figurki  
jared@mbari.org  
831-775-1967

PO Number:  
1711511

### Bill To Address

ACCOUNTS PAYABLE;7700 SANDHOLDT RD.;  
MOSS LANDING,CA,95039-9644,US

### Ship To Address

7700 SANDHOLDT ROAD;BUILDING A;  
MOSS LANDING,CA,95039-9644,US

## PRODUCT INFORMATION

**Item:** 37IM.LEGACY  
**Item Description:** (LEGACY) SBE 37IM MicroCAT  
**Serial:** 37IM20000-0819

### Special Notes

Services Requested:  
Evaluate/Repair Instrumentation.  
Perform Routine Calibration Service.  
Replace Antifoulant Device(s).

Services Performed:  
Perform initial diagnostic evaluation.  
Performed pressure calibration.  
Performed "POST" cruise calibration.  
Installed NEW AF24173 Anti-foulant cylinder(s).

| Item      | Item Description                                                                                                                                                                                                                                                                                                                                                                                 | Qty |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| PCAL37    | Extra charge to calibrate SBE 37 pressure channel                                                                                                                                                                                                                                                                                                                                                | 1   |
| SERVICE37 | Complete External Inspection. Test All Functions. Calibrate C & T, C&P and recal if necessary. Replace end cap O-rings and Hydrostatic pressure test if necessary. Includes typical repairs. (Does not include: Major electronic board replacement. Instruments deemed "Damaged Beyond Repair". Missing/damaged mounts or cables. Upgrades or modifications. Spares or antifoulant replacement.) | 1   |
| REPLACEAF | Extra charge to install one antifoulant device, includes one 801542.1.                                                                                                                                                                                                                                                                                                                           | 2   |

### Unbilled Items

| Item     | Item Description                          | Qty |
|----------|-------------------------------------------|-----|
| 801542.1 | AF24173 ANTI-FOULANT, SINGLE CYLINDER, V2 | 2   |



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## PRODUCT INFORMATION

**Item:** 44.LEGACY

**Item Description:** (LEGACY) SBE 44 Underwater Inductive Modem

**Serial:** 4438144-0067

### Special Notes

Services Requested:

Evaluate/Repair Instrumentation.

Services Performed:

Perform initial diagnostic evaluation.



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## PRODUCT INFORMATION

**Item:** 37IMP-IDO.LEGACY  
**Item Description:** (LEGACY) SBE 37IMP-IDO MicroCAT  
**Serial:** 37IMP66603-9309

### Special Notes

Services Requested:  
Evaluate/Repair Instrumentation.  
Perform Routine Calibration Service.  
Replace Antifoulant Device(s).

Problems Found:  
The IM endcap was found to be below tolerance.

Services Performed:  
Perform initial diagnostic evaluation.  
Replaced IM end cap.  
Performed pressure calibration.  
Performed "POST" cruise calibration.  
Installed NEW AF24173 Anti-foulant cylinder(s).

| Item      | Item Description                                                                                                                                                                                                                                                                                                                                                                                 | Qty |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| PCAL37    | Extra charge to calibrate SBE 37 pressure channel                                                                                                                                                                                                                                                                                                                                                | 1   |
| SERVICE37 | Complete External Inspection. Test All Functions. Calibrate C & T, C&P and recal if necessary. Replace end cap O-rings and Hydrostatic pressure test if necessary. Includes typical repairs. (Does not include: Major electronic board replacement. Instruments deemed "Damaged Beyond Repair". Missing/damaged mounts or cables. Upgrades or modifications. Spares or antifoulant replacement.) | 1   |
| REPLACEAF | Extra charge to install one antifoulant device, includes one 801542.1.                                                                                                                                                                                                                                                                                                                           | 2   |

### Unbilled Items

| Item     | Item Description                          | Qty |
|----------|-------------------------------------------|-----|
| 802010   | SBE37IM V3 MODEM/BATTERY EC W/DF-11 CONN  | 1   |
| 801542.1 | AF24173 ANTI-FOULANT, SINGLE CYLINDER, V2 | 2   |



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## PRODUCT INFORMATION

**Item:** 43I.LEGACY  
**Item Description:** (LEGACY) SBE 43I Oxygen Sensor  
**Serial:** 43I0719

### Special Notes

Services Requested:  
Evaluate/Repair Instrumentation.  
Perform Routine Calibration Service.

Problems Found:  
The SBE 43 Anode Assembly was found to have failed.

Services Performed:  
Perform initial diagnostic evaluation.  
Replaced the SBE 43 Anode sub assembly.  
Replaced the SBE 43 Getter sub assembly.  
Replaced the electronic board set.  
Replaced the lid and membrane assembly (0.5 mil).  
Replaced the electrolyte with new fluid.  
Replaced the O-rings.  
Performed a hydrostatic pressure test.  
Performed a "Final" Calibration.

| Item   | Item Description                           | Qty |
|--------|--------------------------------------------|-----|
| CAL_43 | SBE 43 dissolved oxygen sensor calibration | 1   |

### Unbilled Items

| Item     | Item Description                             | Qty |
|----------|----------------------------------------------|-----|
| 41308T   | TESTED SBE43-IDO PCB ASSY                    | 1   |
| 801576.1 | SBE43 LID & MEMBRANE SUB-ASSY, 1MIL MEMBRANE | 1   |
| 801230   | SBE43 ANODE SUB-ASSEMBLY / DWG 41092         | 1   |
| 801229   | SBE43 GETTER SUB-ASSEMBLY / DWG 41091        | 1   |