



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

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 Fax

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

**SERVICE REPORT**

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

**1005505915**  
 25-OCT-2018  
 315286749

**CUSTOMER INFORMATION**

Name: NOAA - ATLANTIC OCEANOGRAPHIC AND METEOROLOGICAL LAB  
 Account : 40279759  
 ULISES RIVERO  
 ULISES.RIVERO@NOAA.GOV  
 305-361-4438

PO Number:

**Bill To Address**

4301 RICKENBACKER CAUSEWAY;  
 MIAMI,FL,33149,US

**Ship To Address**

4301 RICKENBACKER CAUSEWAY;  
 MIAMI,FL,33149,US

**PRODUCT INFORMATION**

**Item:** 03P.210  
**Item Description:** SBE3PLUS TEMP, GE PROBE, 6800M, XSG  
**Serial:** 03P5898

**Special Notes**

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

Services Performed:

Perform initial diagnostic evaluation.  
 Performed "POST" cruise calibration.

Item	Item Description	Qty
CAL_3	SBE 3 Temperature sensor calibration; 11 points -1 to 31deg.C	1

**Unbilled Items**

Item	Item Description	Qty



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**PRODUCT INFORMATION**

**Item:** 03P.210  
**Item Description:** SBE3PLUS TEMP, GE PROBE, 6800M, XSG  
**Serial:** 03P5348

**Special Notes**

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

Services Performed:  
 Perform initial diagnostic evaluation.  
 Performed "POST" cruise calibration.

Item	Item Description	Qty
CAL_3	SBE 3 Temperature sensor calibration; 11 points -1 to 31deg.C	1

**Unbilled Items**

Item	Item Description	Qty



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**PRODUCT INFORMATION**

**Item:** 03P.LEGACY  
**Item Description:** (LEGACY) SBE 03Plus Temperature Sensor  
**Serial:** 03P5237

**Special Notes**

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

Services Performed:  
 Perform initial diagnostic evaluation.  
 Performed "POST" cruise calibration.

Item	Item Description	Qty
CAL_3	SBE 3 Temperature sensor calibration; 11 points -1 to 31deg.C	1

**Unbilled Items**

Item	Item Description	Qty



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**PRODUCT INFORMATION**

**Item:** 03P.LEGACY  
**Item Description:** (LEGACY) SBE 03Plus Temperature Sensor  
**Serial:** 03P5140

**Special Notes**

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

Services Performed:  
 Perform initial diagnostic evaluation.  
 Performed "POST" cruise calibration.

Item	Item Description	Qty
CAL_3	SBE 3 Temperature sensor calibration; 11 points -1 to 31deg.C	1

**Unbilled Items**

Item	Item Description	Qty



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**PRODUCT INFORMATION**

**Item:** 03P.LEGACY  
**Item Description:** (LEGACY) SBE 03Plus Temperature Sensor  
**Serial:** 03P5236

**Special Notes**

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

Services Performed:  
 Perform initial diagnostic evaluation.  
 Performed "POST" cruise calibration.

Item	Item Description	Qty
CAL_3	SBE 3 Temperature sensor calibration; 11 points -1 to 31deg.C	1

**Unbilled Items**

Item	Item Description	Qty



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**PRODUCT INFORMATION**

**Item:** 03F.LEGACY  
**Item Description:** (LEGACY) SBE 03F Temperature Sensor  
**Serial:** 031692

**Special Notes**

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

Services Performed:  
 Perform initial diagnostic evaluation.  
 Performed "POST" cruise calibration.

Item	Item Description	Qty
CAL_3	SBE 3 Temperature sensor calibration; 11 points -1 to 31deg.C	1

**Unbilled Items**

Item	Item Description	Qty



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**PRODUCT INFORMATION**

**Item:** 04C.210  
**Item Description:** SBE4C COND SENSOR V2, 6800M, XSG, SCOTCHCAST  
**Serial:** 04-4709

**Special Notes**

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

Services Performed:  
 Perform initial diagnostic evaluation.  
 Performed "POST" cruise calibration.

Item	Item Description	Qty
CAL_4C	SBE 4C Conductivity Calibration for CTD sensors (includes 6-point 35 PSU post deployment cal., and C&P with 6-point 35 PSU re-cal, if necessary)	1

**Unbilled Items**

Item	Item Description	Qty



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**PRODUCT INFORMATION**

**Item:** 04C.210  
**Item Description:** SBE4C COND SENSOR V2, 6800M, XSG, SCOTCHCAST  
**Serial:** 04-4204

**Special Notes**

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

Services Performed:  
 Perform initial diagnostic evaluation.  
 Performed "POST" cruise calibration.

Item	Item Description	Qty
CAL_4C	SBE 4C Conductivity Calibration for CTD sensors (includes 6-point 35 PSU post deployment cal., and C&P with 6-point 35 PSU re-cal, if necessary)	1

**Unbilled Items**

Item	Item Description	Qty





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**PRODUCT INFORMATION**

**Item:** 04C.210  
**Item Description:** SBE4C COND SENSOR V2, 6800M, XSG, SCOTCHCAST  
**Serial:** 04-4349

**Special Notes**

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

Services Performed:  
 Perform initial diagnostic evaluation.  
 Performed "POST" cruise calibration.

Item	Item Description	Qty
CAL_4C	SBE 4C Conductivity Calibration for CTD sensors (includes 6-point 35 PSU post deployment cal., and C&P with 6-point 35 PSU re-cal, if necessary)	1

**Unbilled Items**

Item	Item Description	Qty



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**PRODUCT INFORMATION**

**Item:** 04C.210  
**Item Description:** SBE4C COND SENSOR V2, 6800M, XSG, SCOTCHCAST  
**Serial:** 04-4346

**Special Notes**

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

Services Performed:  
 Perform initial diagnostic evaluation.  
 Performed "POST" cruise calibration.

Item	Item Description	Qty
CAL_4C	SBE 4C Conductivity Calibration for CTD sensors (includes 6-point 35 PSU post deployment cal., and C&P with 6-point 35 PSU re-cal, if necessary)	1

**Unbilled Items**

Item	Item Description	Qty



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**PRODUCT INFORMATION**

**Item:** 04C.LEGACY  
**Item Description:** (LEGACY) SBE 04C Conductivity Sensor  
**Serial:** 042980

**Special Notes**

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

Services Performed:  
 Perform initial diagnostic evaluation.  
 Performed "POST" cruise calibration.

Item	Item Description	Qty
CAL_4C	SBE 4C Conductivity Calibration for CTD sensors (includes 6-point 35 PSU post deployment cal., and C&P with 6-point 35 PSU re-cal, if necessary)	1

**Unbilled Items**

Item	Item Description	Qty



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**PRODUCT INFORMATION**

**Item:** 04C.LEGACY  
**Item Description:** (LEGACY) SBE 04C Conductivity Sensor  
**Serial:** 041374

**Special Notes**

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

Services Performed:  
 Perform initial diagnostic evaluation.  
 Performed "POST" cruise calibration.

Item	Item Description	Qty
CAL_4C	SBE 4C Conductivity Calibration for CTD sensors (includes 6-point 35 PSU post deployment cal., and C&P with 6-point 35 PSU re-cal, if necessary)	1

**Unbilled Items**

Item	Item Description	Qty



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**PRODUCT INFORMATION**

**Item:** 43.LEGACY  
**Item Description:** (LEGACY) SBE 43 Oxygen Sensor  
**Serial:** 430140

**Special Notes**

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

Services Performed:  
 Perform initial diagnostic evaluation.  
 Performed "POST" cruise calibration.

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

**Unbilled Items**

Item	Item Description	Qty



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**PRODUCT INFORMATION**

**Item:** 43.LEGACY  
**Item Description:** (LEGACY) SBE 43 Oxygen Sensor  
**Serial:** 432082

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

Problems Found:  
 Air was found in the electrolyte.

Services Performed:  
 Perform initial diagnostic evaluation.  
 Performed "POST" cruise calibration.  
 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
801576	SBE43 LID & MEMBRANE SUB-ASSY, .5MIL MEMBRANE	1



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**PRODUCT INFORMATION**

**Item:** 43.LEGACY  
**Item Description:** (LEGACY) SBE 43 Oxygen Sensor  
**Serial:** 432085

**Special Notes**

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

**Problems Found:**

The membrane was found to be punctured.

**Services Performed:**

Perform initial diagnostic evaluation.  
 Replaced the lid and membrane assembly (0.5 mil).  
 Replaced the electrolyte with new fluid.  
 Replaced the lithium back-up battery(s).  
 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
801576	SBE43 LID & MEMBRANE SUB-ASSY, .5MIL MEMBRANE	1
22085	BATTERY, SANYO CR14250SE-SP1-1, 850 mA-h	2



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**PRODUCT INFORMATION**

**Item:** 43.LEGACY  
**Item Description:** (LEGACY) SBE 43 Oxygen Sensor  
**Serial:** 432940

**Special Notes**

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

Services Performed:  
 Perform initial diagnostic evaluation.  
 Performed "POST" cruise calibration.  
 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
801576	SBE43 LID & MEMBRANE SUB-ASSY, .5MIL MEMBRANE	1





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**PRODUCT INFORMATION**

**Item:** 43.LEGACY  
**Item Description:** (LEGACY) SBE 43 Oxygen Sensor  
**Serial:** 432691

**Special Notes**

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

Services Performed:  
 Perform initial diagnostic evaluation.  
 Performed "POST" cruise calibration.

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

**Unbilled Items**

Item	Item Description	Qty