



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

1005503807
 21-FEB-2018
 314980178

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: 03F.LEGACY
Item Description: (LEGACY) SBE 03F Temperature Sensor
Serial: 031701

Special Notes

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

Services Performed:

Perform initial diagnostic evaluation.
 Performed "POST" cruise calibration.
 Backfilled with Argon gas.
 Replaced the O-rings.
 Performed a hydrostatic pressure test.
 Performed a "Final" 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.LEGACY
Item Description: (LEGACY) SBE 04C Conductivity Sensor
Serial: 041335

Special Notes

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

Problems Found:

The conductivity cell was found to be cracked.

Services Performed:

Perform initial diagnostic evaluation.
 Performed "POST" cruise calibration.
 Replaced the conductivity cell.
 Replaced the O-rings.
 Performed a hydrostatic pressure test.
 Performed a "Final" Calibration.

Item	Item Description	Qty
REP4CEL/A	Replace broken SBE 4 cell (aluminum tray). Requires calibration	1
CONCERT/S	Confirm and recertify sensor including opening the main housing, replacing end cap "piston" o-rings, and making minor internal repairs or modifications. Hydrostatic pressure test following closure. Cost of major repairs or modifications is not included.	1
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
80009.2	CONDUCTIVITY CELL, 6800M ALUMINUM ASSEMBLY	1



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PRODUCT INFORMATION

Item: 43.LEGACY
Item Description: (LEGACY) SBE 43 Oxygen Sensor
Serial: 430703

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 battery.
 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
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: 432712

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.
 Performed "POST" cruise calibration.
 Replaced the battery.
 Replaced the pressure compensation bag.
 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
31087	PRESSURE COMPENSATION BAG, SBE43, DWG /21716A	1
801576	SBE43 LID & MEMBRANE SUB-ASSY, .5MIL MEMBRANE	1
22085	BATTERY, SANYO CR14250SE-SP1-1, 850 mA-h	2