



SEA-BIRD ELECTRONICS, INC.
 13431 NE 20th Street
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Phone +1-425-643-9866
 Fax +1-425-643-9954
 www.seabird.com

SERVICE REPORT

Service Request 1005501544
Date 10-APR-2017

CUSTOMER INFORMATION

Name: NOAA - ATLANTIC OCEANOGRAPHIC AND METEOROLOGICAL LAB
 Account : 40279759
 GRANT RAWSON
 GRANT.RAWSON@NOAA.GOV
 (305) 361-4412

PO Number:
 EA133M15CQ0039 D-0016

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.

Problems Found:
 No problems found

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 (FRRF)	1

Unbilled Items

Item	Item Description	Qty



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SERVICE REPORT

Service Request **1005501544**
Date **10-APR-2017**

PRODUCT INFORMATION

Item: 03P.LEGACY
Item Description: (LEGACY) SBE 03Plus Temperature Sensor
Serial: 03P5171

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

Problems Found:
 No problems found

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 (FRRF)	1

Unbilled Items

Item	Item Description	Qty



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SERVICE REPORT

Service Request **1005501544**
Date **10-APR-2017**

PRODUCT INFORMATION

Item: 03P.210
Item Description: SBE3PLUS TEMP, GE PROBE, 6800M, XSG
Serial: 03-5207

Special Notes

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

Problems Found:
 No problems found

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 (FRRF)	1

Unbilled Items

Item	Item Description	Qty



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SERVICE REPORT

Service Request 1005501544
Date 10-APR-2017

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.

Problems Found:
 No problems found

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 (FRRF)	1

Unbilled Items

Item	Item Description	Qty



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SERVICE REPORT

Service Request 1005501544
Date 10-APR-2017

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.

Problems Found:
 No problems found

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 (FRRF)	1

Unbilled Items

Item	Item Description	Qty



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SERVICE REPORT

Service Request **1005501544**
Date **10-APR-2017**

PRODUCT INFORMATION

Item: 03P.210
Item Description: SBE3PLUS TEMP, GE PROBE, 6800M, XSG
Serial: 03-5348

Special Notes

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

Problems Found:
 No problems found

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 (FRRF)	1

Unbilled Items

Item	Item Description	Qty



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SERVICE REPORT

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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:
 No problems found

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 P (FRRF))	1

Unbilled Items

Item	Item Description	Qty



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SERVICE REPORT

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PRODUCT INFORMATION

Item: 04C.LEGACY
Item Description: (LEGACY) SBE 04C Conductivity Sensor
Serial: 041347

Special Notes

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

Problems Found:
 No problems found

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 P (FRRF))	1

Unbilled Items

Item	Item Description	Qty



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PRODUCT INFORMATION

Item: 04C.LEGACY
Item Description: (LEGACY) SBE 04C Conductivity Sensor
Serial: 043657

Special Notes

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

Problems Found:
 No problems found

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 P (FRRF))	1

Unbilled Items

Item	Item Description	Qty



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SERVICE REPORT

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PRODUCT INFORMATION

Item: 04C.LEGACY
Item Description: (LEGACY) SBE 04C Conductivity Sensor
Serial: 043833

Special Notes

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

Problems Found:
 No problems found

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 P (FRRF))	1

Unbilled Items

Item	Item Description	Qty



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SERVICE REPORT

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PRODUCT INFORMATION

Item: 04C.LEGACY
Item Description: (LEGACY) SBE 04C Conductivity Sensor
Serial: 043858

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

Problems Found:
 No problems found

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 P (FRRF))	1

Unbilled Items

Item	Item Description	Qty



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SERVICE REPORT

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PRODUCT INFORMATION

Item: 04C.LEGACY
Item Description: (LEGACY) SBE 04C Conductivity Sensor
Serial: 043860

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

Problems Found:
 No problems found

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 P (FRRF)	1

Unbilled Items

Item	Item Description	Qty



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PRODUCT INFORMATION

Item: 43.LEGACY
Item Description: (LEGACY) SBE 43 Oxygen Sensor
Serial: 430154

Special Notes

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

Problems Found:
 No post cal possible.
 An anode failure was found.

Services Performed:
 Perform initial diagnostic evaluation.
 Replaced the SBE 43 Anode sub assembly.
 Replaced the lid and membrane assembly.
 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 (FRRF)	1

Unbilled Items

Item	Item Description	Qty
801576	SBE43 LID & MEMBRANE SUB-ASSY, .5MIL MEMBRANE	1
801230	SBE43 ANODE SUB-ASSEMBLY / DWG 41092	1
22085	BATTERY, SANYO CR14250SE-SP1-1, 850 mA-h	2



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Date **10-APR-2017**

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:
 No problems found

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

Item	Item Description	Qty
CAL_43	SBE 43 DISSOLVED OXYGEN SENSOR CALIBRATION (FRRF)	1

Unbilled Items

Item	Item Description	Qty



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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:
 No problems found

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

Item	Item Description	Qty
CAL_43	SBE 43 DISSOLVED OXYGEN SENSOR CALIBRATION (FRRF)	1

Unbilled Items

Item	Item Description	Qty



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PRODUCT INFORMATION

Item: 43.LEGACY
Item Description: (LEGACY) SBE 43 Oxygen Sensor
Serial: 43-2949

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

Problems Found:
 No problems found

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

Item	Item Description	Qty
CAL_43	SBE 43 DISSOLVED OXYGEN SENSOR CALIBRATION (FRRF)	1

Unbilled Items

Item	Item Description	Qty