



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

1005501907
 12-JUN-2017
 314603537

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: 031075

Special Notes

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

Problems Found:
 No problems found

Services Performed:
 Performed 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 |
|------|------------------|-----|
| | | |



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

1005501907
 12-JUN-2017
 314603537

PRODUCT INFORMATION

Item: 03P.LEGACY
Item Description: (LEGACY) SBE 03Plus Temperature Sensor
Serial: 03P2946

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

Problems Found:
 No problems found

Services Performed:
 Performed 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 |
|------|------------------|-----|
| | | |



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

1005501907
 12-JUN-2017
 314603537

PRODUCT INFORMATION

Item: 03P.LEGACY
Item Description: (LEGACY) SBE 03Plus Temperature Sensor
Serial: 03P5233

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

Problems Found:
 Small temperature drift found.

Services Performed:
 Performed initial diagnostic evaluation.
 Performed "POST" cruise calibration.
 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 (FRRF) | 1 |

Unbilled Items

| Item | Item Description | Qty |
|------|------------------|-----|
| | | |



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

1005501907
 12-JUN-2017
 314603537

PRODUCT INFORMATION

Item: 03P.LEGACY
Item Description: (LEGACY) SBE 03Plus Temperature Sensor
Serial: 03P5855

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

Problems Found:
 No problems found

Services Performed:
 Performed 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 |
|------|------------------|-----|
| | | |



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

1005501907
 12-JUN-2017
 314603537

PRODUCT INFORMATION

Item: 04C.LEGACY
Item Description: (LEGACY) SBE 04C Conductivity Sensor
Serial: 041387

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

Problems Found:
 No problems found

Services Performed:
 Performed 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 |
|------|------------------|-----|
| | | |



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

1005501907
 12-JUN-2017
 314603537

PRODUCT INFORMATION

Item: 04C.LEGACY
Item Description: (LEGACY) SBE 04C Conductivity Sensor
Serial: 043854

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

Problems Found:
 No problems found

Services Performed:
 Performed 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 |
|------|------------------|-----|
| | | |



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

1005501907
 12-JUN-2017
 314603537

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.

Problems Found:
 No problems found

Services Performed:
 Performed 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 |
|------|------------------|-----|
| | | |



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

1005501907
 12-JUN-2017
 314603537

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.

Problems Found:
 No problems found

Services Performed:
 Performed 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 |
|------|------------------|-----|
| | | |



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

1005501907
 12-JUN-2017
 314603537

PRODUCT INFORMATION

Item: 43.LEGACY
Item Description: (LEGACY) SBE 43 Oxygen Sensor
Serial: 430730

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

Problems Found:
 No problems found

Services Performed:
 Performed 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 |
|------|------------------|-----|
| | | |



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

1005501907
 12-JUN-2017
 314603537

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:
 No problems found

Services Performed:
 Performed 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 |
|------|------------------|-----|
| | | |



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

1005501907
 12-JUN-2017
 314603537

PRODUCT INFORMATION

Item: 43.LEGACY
Item Description: (LEGACY) SBE 43 Oxygen Sensor
Serial: 43-2934

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

Problems Found:
 No problems found

Services Performed:
 Performed 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 |
|------|------------------|-----|
| | | |



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

1005501907
 12-JUN-2017
 314603537

PRODUCT INFORMATION

Item: 43.LEGACY
Item Description: (LEGACY) SBE 43 Oxygen Sensor
Serial: 43-2942

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

Problems Found:
 No problems found

Services Performed:
 Performed 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 |
|------|------------------|-----|
| | | |



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

1005501907
 12-JUN-2017
 314603537

PRODUCT INFORMATION

Item: 43.LEGACY
Item Description: (LEGACY) SBE 43 Oxygen Sensor
Serial: 43-2948

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

Problems Found:
 No problems found

Services Performed:
 Performed 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 |
|------|------------------|-----|
| | | |



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

1005501907
 12-JUN-2017
 314603537

PRODUCT INFORMATION

Item: 03P.LEGACY
Item Description: (LEGACY) SBE 03Plus Temperature Sensor
Serial: 03P2958

Special Notes

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

Problems Found:
 Small temperature drift was found.

Services Performed:
 Performed initial diagnostic evaluation.
 Performed "POST" cruise calibration.
 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 (FRRF) | 1 |

Unbilled Items

| Item | Item Description | Qty |
|------|------------------|-----|
| | | |



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

1005501907
 12-JUN-2017
 314603537

PRODUCT INFORMATION

Item: 03P.LEGACY
Item Description: (LEGACY) SBE 03Plus Temperature Sensor
Serial: 03P4799

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

Problems Found:
 No problems found

Services Performed:
 Performed 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 |
|------|------------------|-----|
| | | |



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

1005501907
 12-JUN-2017
 314603537

PRODUCT INFORMATION

Item: 04C.LEGACY
Item Description: (LEGACY) SBE 04C Conductivity Sensor
Serial: 042973

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

Problems Found:
 No problems found

Services Performed:
 Performed 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 |
|------|------------------|-----|
| | | |



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

1005501907
 12-JUN-2017
 314603537

PRODUCT INFORMATION

Item: 04C.LEGACY
Item Description: (LEGACY) SBE 04C Conductivity Sensor
Serial: 043861

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

Problems Found:
 No problems found

Services Performed:
 Performed 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 |
|------|------------------|-----|
| | | |



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

1005501907
 12-JUN-2017
 314603537

PRODUCT INFORMATION

Item: 05T.21130
Item Description: SBE5T, TI, XSG, STD VOLT, 3000 RPM, FAST
Serial: 05-7705

Special Notes

Services Requested:
 Perform initial diagnostic evaluation.
 Replaced the O-rings.
 Performed a hydrostatic pressure test.

Problems Found:
 No problems found

Services Performed:
 Perform initial diagnostic evaluation.
 Replaced the O-rings.
 Performed a hydrostatic pressure test.

| Item | Item Description | Qty |
|----------|--|-----|
| BASERV/P | BASE SERVICE CHARGE FOR PUMP, COVERS HANDLING & INSPECTION, REPLACING THRUST WASHERS AND O-RINGS, AND IS ADDED TO OTHER (FRRF) | 1 |

Unbilled Items

| Item | Item Description | Qty |
|------|------------------|-----|
| | | |



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

1005501907
 12-JUN-2017
 314603537

PRODUCT INFORMATION

Item: 05T.21130
Item Description: SBE5T, TI, XSG, STD VOLT, 3000 RPM, FAST
Serial: 05-7890

Special Notes

Services Requested:
 Perform initial diagnostic evaluation.
 Replaced the O-rings.
 Performed a hydrostatic pressure test.

Problems Found:
 No problems found

Services Performed:
 Perform initial diagnostic evaluation.
 Replaced the O-rings.
 Performed a hydrostatic pressure test.

| Item | Item Description | Qty |
|----------|--|-----|
| BASERV/P | BASE SERVICE CHARGE FOR PUMP, COVERS HANDLING & INSPECTION, REPLACING THRUST WASHERS AND O-RINGS, AND IS ADDED TO OTHER (FRRF) | 1 |

Unbilled Items

| Item | Item Description | Qty |
|------|------------------|-----|
| | | |



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

1005501907
 12-JUN-2017
 314603537

PRODUCT INFORMATION

Item: 43.LEGACY
Item Description: (LEGACY) SBE 43 Oxygen Sensor
Serial: 431348

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

Problems Found:
 No problems found

Services Performed:
 Performed 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 |
|------|------------------|-----|
| | | |