

13431 NE 20th Street Bellevue, WA 98005 United States

Service Request
Date
Sales Order

PO Number:

Phone

Fax

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

1005506497 29-JAN-2019 315385666

### **SERVICE REPORT**

**CUSTOMER INFORMATION** 

Name: NOAA IRC Account: 40288197 RUHUL AMIN

RUHUL.AMIN@NOAA.GOV

808-725-5633

**Bill To Address** 

1845 WASP BLVD; BUILDING 176;

Honolulu, HI, 96818, US

Ship To Address

1845 WASP BLVD; BUILDING 176;

Honolulu, HI, 96818, US

### PRODUCT INFORMATION

Item: 09P.LEGACY

Item Description: (LEGACY) SBE 09Plus CTD

Serial: 09P-92740

**Special Notes** 

Services Requested:

Evaluate/Repair Instrumentation.
Perform Routine Calibration Service.

Services Performed:

Perform initial diagnostic evaluation. Performed pressure calibration.

Item	Item Description	Qty
CONCERT9A	Confirm and recertify SBE 9plus. Complete external inspection. Test all functions and input channel responses. Replace anodes if necessary. Cross-check pressure sensor (room temperature comparison to SBE reference Digiquartz giving new slope/offset coefficients.) Cost of sensor calibrations, major repairs or modifications is extra.	1

Item	Item Description	Qty



13431 NE 20th Street Bellevue, WA 98005 United States

> **Service Request Date**

+1-425-643-9866 +1-425-643-9954 www.seabird.com 1005506497

29-JAN-2019

315385666

**SERVICE REPORT** 

Sales Order

Phone

Fax

### PRODUCT INFORMATION

Item: 04C.LEGACY

Item Description: (LEGACY) SBE 04C Conductivity Sensor

Serial: 0652

**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

Item	Item Description	Qty



13431 NE 20th Street Bellevue, WA 98005 United States

Service Request Date Sales Order

Phone

Fax

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

1005506497 29-JAN-2019

315385666

## **SERVICE REPORT**

## PRODUCT INFORMATION

Item: 03F.LEGACY

Item Description: (LEGACY) SBE 03F Temperature Sensor

Serial: 975

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

Item	Item Description	Qty



13431 NE 20th Street Bellevue, WA 98005 United States

Servi

www.seabird.com
Service Request 1005506497
Date 29-JAN-2019

+1-425-643-9866

+1-425-643-9954

315385666

Phone

Sales Order

Fax

# **SERVICE REPORT**

### PRODUCT INFORMATION

Item: 43.LEGACY

Item Description: (LEGACY) SBE 43 Oxygen Sensor

**Serial:** 430715

**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

Item	Item Description	Qty



13431 NE 20th Street Bellevue, WA 98005 United States

Service Request Date Sales Order

Phone

Fax

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

1005506497 29-JAN-2019 315385666

## **SERVICE REPORT**

### PRODUCT INFORMATION

Item: 43.LEGACY

Item Description: (LEGACY) SBE 43 Oxygen Sensor

**Serial:** 430593

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

Item	Item Description	Qty



13431 NE 20th Street Bellevue, WA 98005 United States

Service Request Date Sales Order

Phone

Fax

+1-425-643-9954 www.seabird.com **1005506497** 

+1-425-643-9866

29-JAN-2019 315385666

### **SERVICE REPORT**

#### PRODUCT INFORMATION

Item: ECO.LEGACY

Item Description: (LEGACY) ECO (FLRTD-XXX, BBFL2-XXX, BB2FL-XXX..ETC)

Serial: FLRTD-1366

**Special Notes** 

Services Requested:

Evaluate/Repair Instrumentation. Perform Routine Calibration Service.

**ECO Calibration and Repairs** 

Diagnosis:

Evaluated instrument FLRTD-1366 and found no problems.

Repairs and Modifications:

Standard service performed.

Comments:

New Device file and characterization sheets included.

#### **ECO Standard Service:**

The instrument bulkhead connector, pressure housing and window\optics are inspected for damage.

Instrument is checked to determine proper functionality. Incoming settings and memory are collected if incoming condition allows. A pre-service characterization is performed. Data is analyzed and Instrument is rescaled, if applicable.

The head is inspected for cracks in detector and motor bores. Case seals, shaft, shaft seal, faceplate, wiper, desiccant pack and batteries (if equipped) are replaced. Noise, stability, and live pressure test is performed.

Final calibration and characterization is completed. Including calibration of thermistor and pressure sensor, if equipped. A device file, repair sheet, and new characterization sheets are provided to customer via hard copy and CD.

Item	Item Description	Qty
WET_SRV_CHRG	Service Charges from WETLabs (FRRF)	1

Item	Item Description	Qty



13431 NE 20th Street Bellevue, WA 98005 United States

Service Request Date Sales Order

Phone

Fax

+1-425-643-9954 www.seabird.com **1005506497** 

+1-425-643-9866

1005506497 29-JAN-2019

315385666

## **SERVICE REPORT**

#### PRODUCT INFORMATION

Item: ECO.LEGACY

Item Description: (LEGACY) ECO (FLRTD-XXX, BBFL2-XXX, BB2FL-XXX..ETC)

Serial: FLNTURTD-4108

**Special Notes** 

Services Requested:

Evaluate/Repair Instrumentation.
Perform Routine Calibration Service.

**ECO Calibration and Repairs** 

Diagnosis:

Evaluated instrument FLNTURTD-4108 and found no problems.

Repairs and Modifications:

Standard service performed.

Comments:

New Device file and characterization sheets included.

#### **ECO Standard Service:**

The instrument bulkhead connector, pressure housing and window\optics are inspected for damage.

Instrument is checked to determine proper functionality. Incoming settings and memory are collected if incoming condition allows. A pre-service characterization is performed. Data is analyzed and Instrument is rescaled, if applicable.

The head is inspected for cracks in detector and motor bores. Case seals, shaft, shaft seal, faceplate, wiper, desiccant pack and batteries (if equipped) are replaced. Noise, stability, and live pressure test is performed.

Final calibration and characterization is completed. Including calibration of thermistor and pressure sensor, if equipped. A device file, repair sheet, and new characterization sheets are provided to customer via hard copy and CD.

Item	Item Description	Qty
WET_SRV_CHRG	Service Charges from WETLabs (FRRF)	1

Gilbillod Rollio			
Item	Item Description	Qty	