

**Sea-Bird Electronics, Inc.**

13431 NE 20th Street
Bellevue, WA 98005 United States

Phone

+1-425-643-9866

www.seabird.com

(Do Not Send Payments To This Physical Address – See Remit to Information)

SERVICE REPORT**Service Request****1005522877****Date**

27-FEB-2025

Sales Order

321276157

CUSTOMER INFORMATION

Name: NOAA - PMEL PACIFIC MARINE ENVIRO LAB

Account : 40279844

DAVID STRAUZ

DAVID.STRAUSZ@NOAA.GOV

206-526-4510

PO Number:

IDIQ

Bill To Address

NOAA - PMEL PACIFIC MARINE ENVIRO LAB

7600 SAND POINT WAY NE

SEATTLE,WA,98115-6349,US

Ship To Address

NOAA - PMEL PACIFIC MARINE ENVIRO LAB

7600 SAND POINT WAY NE

SEATTLE,WA,98115-6349,US

PRODUCT INFORMATION**Item:** 16P.LEGACY**Item Description:** (LEGACY) SBE 16Plus (V1/V2) CT(D)**Serial:** 16P60727-6627**Special Notes**

Services Performed:

Perform initial diagnostic evaluation.

Performed "POST" cruise calibration.

Installed NEW AF24173 Anti-foulant cylinder(s).

Item	Item Description	Qty
SBS-SVC-16	COMPREHENSIVE SERVICE/CALIBRATION OF SBE16P AND SBE16PV2, INCLUDING ALL MINOR AND ONE MAJOR REPAIR SUCH AS REPLACEMENT OF THE TEMPERATURE PROBE, CONDUCTIVITY CELL, OR NON-DIGIQUARTZ PRESSURE SENSOR. INCLUDES ROOM TEMPERATURE PRESSURE CHARACTERIZATION IF REQUIRED.	1
REPLACEAF	EXTRA CHARGE TO INSTALL ONE ANTIFOULANT DEVICE, INCLUDES ONE PN 801542.1.	1
REPLACEAF	EXTRA CHARGE TO INSTALL ONE ANTIFOULANT DEVICE, INCLUDES ONE PN 801542.1.	1

Unbilled Items

Item	Item Description	Qty
801542.1	AF24173 ANTI-FOULANT, SINGLE CYLINDER, V2	2

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PRODUCT INFORMATION**Item:** 16P.LEGACY**Item Description:** (LEGACY) SBE 16Plus (V1/V2) CT(D)**Serial:** 16P60727-6628**Special Notes**

6627:

Installed (2) new anti-foulants

Services Performed:

Perform initial diagnostic evaluation.

Performed "POST" cruise calibration.

Installed NEW AF24173 Anti-foulant cylinder(s).

Item	Item Description	Qty
SBS-SVC-16	COMPREHENSIVE SERVICE/CALIBRATION OF SBE16P AND SBE16PV2, INCLUDING ALL MINOR AND ONE MAJOR REPAIR SUCH AS REPLACEMENT OF THE TEMPERATURE PROBE, CONDUCTIVITY CELL, OR NON-DIGIQUARTZ PRESSURE SENSOR. INCLUDES ROOM TEMPERATURE PRESSURE CHARACTERIZATION IF REQUIRED.	1
REPLACEAF	EXTRA CHARGE TO INSTALL ONE ANTIFOULANT DEVICE, INCLUDES ONE PN 801542.1.	1
REPLACEAF	EXTRA CHARGE TO INSTALL ONE ANTIFOULANT DEVICE, INCLUDES ONE PN 801542.1.	1

Unbilled Items

Item	Item Description	Qty
801542.1	AF24173 ANTI-FOULANT, SINGLE CYLINDER, V2	2

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PRODUCT INFORMATION**Item:** 43.LEGACY**Item Description:** (LEGACY) SBE 43 Oxygen Sensor**Serial:** 431875**Special Notes**

Problems Found:

The membrane is damaged.

Services Performed:

Perform initial diagnostic evaluation.

Replaced the lid and membrane assembly (0.5 mil).

Replaced the electrolyte with new fluid.

Installed NEW Wet-pluggable style connector(s).

Replaced the O-rings.

Performed a hydrostatic pressure test.

Performed a "Final" Calibration.

Item	Item Description	Qty
172021	CONN, MCBH-4-M, TI, 1/2-20, 3/8" TL	1
SBS-SVC-43	COMPREHENSIVE SERVICE/CALIBRATION OF SBE43 INCLUDING ALL MINOR AND ONE MAJOR REPLACE SUCH AS REPLACEMENT OF THE MEMBRANE.	1
BHCON	Extra charge to replace bulkhead connector (any sensor, pump or instrument). Cost of connector is additional (see price list).	1
SBS-SVC-MCBH	CONVERT CONNECTOR(S) TO WET-PLUGGABLE/MCBH (FRRF)	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

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SERVICE REPORT**Service Request****1005522877****Date**

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PRODUCT INFORMATION**Item:** 43.2111**Item Description:** oo - SBE43, 1/2 MIL, 7000m, XSG, STD 43 PLENUM**Serial:** 43-3200**Special Notes**

Services Performed:

Perform initial diagnostic evaluation.

Performed "POST" cruise calibration.

Installed NEW Wet-pluggable style connector(s).

Replaced the O-rings.

Performed a hydrostatic pressure test.

Performed a "Final" Calibration.

Item	Item Description	Qty
172021	CONN, MCBH-4-M, TI, 1/2-20, 3/8" TL	1
SBS-SVC-43	COMPREHENSIVE SERVICE/CALIBRATION OF SBE43 INCLUDING ALL MINOR AND ONE MAJOR REPLACE SUCH AS REPLACEMENT OF THE MEMBRANE.	1
BHCON	Extra charge to replace bulkhead connector (any sensor, pump or instrument). Cost of connector is additional (see price list).	1
SBS-SVC-MCBH	CONVERT CONNECTOR(S) TO WET-PLUGGABLE/MCBH (FRRF)	1

Unbilled Items

Item	Item Description	Qty

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PRODUCT INFORMATION**Item:** ASY-PAR-00037**Item Description:** PAR-SER ICSA, 1000m**Serial:** PARSERICSA-1103**Special Notes**

Service Report on PARSERICSA-1103

Diagnosis:

No Problems Found.

Repairs and Modifications:

Standard Service.

Passed Calibration.

The calibrated output was within 5% of the reference sensor output under natural light conditions.

Item	Item Description	Qty
SBS-SVC-SATPAR	COMPREHENSIVE SERVICE/CALIBRATION FOR SAT PAR SENSORS, INCLUDING ALL MINOR AND ONE MAJOR REPAIR.	1

Unbilled Items

Item	Item Description	Qty

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PRODUCT INFORMATION

Item: ASY-PAR-00037

Item Description: PAR-SER ICSA, 1000m

Serial: PARSERICSA-1102

Special Notes

Service Report on PARSERICSA-1102

Diagnosis:

No Problems Found.

Repairs and Modifications:

Standard Service.

Passed Calibration.

The calibrated output was within 5% of the reference sensor output under natural light conditions.

Item	Item Description	Qty
SBS-SVC-SATPAR	COMPREHENSIVE SERVICE/CALIBRATION FOR SAT PAR SENSORS, INCLUDING ALL MINOR AND ONE MAJOR REPAIR.	1

Unbilled Items

Item	Item Description	Qty

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SERVICE REPORT**Service Request****1005522877****Date****27-FEB-2025****Sales Order****321276157****PRODUCT INFORMATION**

Item: ECO.LEGACY

Item Description: (LEGACY) ECO Single Channel

Serial: FLS-027

Special Notes

ECO Calibration and Repairs

Diagnosis:

Evaluated instrument (FLS-027) and found that the unit needed tuning.

Repairs and Modifications:

Unit was calibrated, retuned and standard service was provided.

Comments:

New Device files and Characterization sheets included.

ECO Standard Service:

The instrument's bulkhead connector, pressure housing and optical head are inspected for damage. The optics are inspected for any crack and/ or delamination. The instrument is also evaluated to determine proper functionality.

If applicable, the head is inspected for cracks in motor bores. Case seals, shaft, shaft seal, faceplate, wiper, desiccant pack, and batteries (if equipped) are replaced.

Incoming settings and memory are collected if incoming condition allows. When requested, a pre-service characterization can be performed. Then, the final calibration and characterization are conducted. Noise, stability, and live pressure test are also performed before service is completed.

A device file, repair sheet, and new characterization sheets are provided to customer via USB.

Item	Item Description	Qty
SBS-SVC-ECOSINGLE	COMPREHENSIVE SERVICE FOR SINGLE CHANNEL ECOS, INCLUDING ALL MINOR AND ONE MAJOR REPAIR. DOES NOT INCLUDE OPTICS HEAD REPLACEMENT.	1

Unbilled Items

Item	Item Description	Qty

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PRODUCT INFORMATION**Item:** 39.LEGACY**Item Description:** (LEGACY) SBE 39 Temperature (Depth) Recorder**Serial:** 39-3774**Special Notes**

Services Performed:

Perform initial diagnostic evaluation.

Performed pressure calibration.

Performed "POST" cruise calibration.

Replaced lithium battery.

Item	Item Description	Qty
SBS-SVC-39	COMPREHENSIVE SERVICE/CALIBRATION OF SBE39 AND SBE39P, INCLUDING ALL MINOR AND ONE MAJOR REPAIR SUCH AS REPLACEMENT OF TEMPERATURE PROBE OR NON-DIGIQUARTZ PRESSURE SENSOR. INCLUDES ROOM TEMPERATURE PRESSURE CHARACTERIZATION IF REQUIRED.	1

Unbilled Items

Item	Item Description	Qty
22074	SBE 39 lithium battery, UltraLife U9VL, 9V (spare)	1

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PRODUCT INFORMATION**Item:** 39.LEGACY**Item Description:** (LEGACY) SBE 39 Temperature (Depth) Recorder**Serial:** 3944807-3759**Special Notes**

Services Performed:

Perform initial diagnostic evaluation.

Performed pressure calibration.

Performed "POST" cruise calibration.

Replaced lithium battery.

Item	Item Description	Qty
SBS-SVC-39	COMPREHENSIVE SERVICE/CALIBRATION OF SBE39 AND SBE39P, INCLUDING ALL MINOR AND ONE MAJOR REPAIR SUCH AS REPLACEMENT OF TEMPERATURE PROBE OR NON-DIGIQUARTZ PRESSURE SENSOR. INCLUDES ROOM TEMPERATURE PRESSURE CHARACTERIZATION IF REQUIRED.	1

Unbilled Items

Item	Item Description	Qty
22074	SBE 39 lithium battery, UltraLife U9VL, 9V (spare)	1

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PRODUCT INFORMATION**Item:** 39.LEGACY**Item Description:** (LEGACY) SBE 39 Temperature (Depth) Recorder**Serial:** 3939602-1805**Special Notes**

Problems Found:

The temperature was found to have excessive drift.

Services Performed:

Perform initial diagnostic evaluation.

Performed pressure calibration.

Performed "POST" cruise calibration.

Replaced the temperature probe.

Replaced the O-rings.

Performed a hydrostatic pressure test.

Performed a "Final" Calibration.

Replaced the battery.

Item	Item Description	Qty
SBS-SVC-39	COMPREHENSIVE SERVICE/CALIBRATION OF SBE39 AND SBE39P, INCLUDING ALL MINOR AND ONE MAJOR REPAIR SUCH AS REPLACEMENT OF TEMPERATURE PROBE OR NON-DIGIQUARTZ PRESSURE SENSOR. INCLUDES ROOM TEMPERATURE PRESSURE CHARACTERIZATION IF REQUIRED.	1

Unbilled Items

Item	Item Description	Qty
801654	SBE39 TEMPERATURE PROBE ASSY, E-BEAM, FENWAL	1
22074	SBE 39 lithium battery, UltraLife U9VL, 9V (spare)	1

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PRODUCT INFORMATION**Item:** 39.LEGACY**Item Description:** (LEGACY) SBE 39 Temperature (Depth) Recorder**Serial:** 3931349-0970**Special Notes**

Services Performed:

Perform initial diagnostic evaluation.

Performed "POST" cruise calibration.

Replaced lithium battery.

Item	Item Description	Qty
SBS-SVC-39	COMPREHENSIVE SERVICE/CALIBRATION OF SBE39 AND SBE39P, INCLUDING ALL MINOR AND ONE MAJOR REPAIR SUCH AS REPLACEMENT OF TEMPERATURE PROBE OR NON-DIGIQUARTZ PRESSURE SENSOR. INCLUDES ROOM TEMPERATURE PRESSURE CHARACTERIZATION IF REQUIRED.	1

Unbilled Items

Item	Item Description	Qty
22074	SBE 39 lithium battery, UltraLife U9VL, 9V (spare)	1

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PRODUCT INFORMATION**Item:** 39.LEGACY**Item Description:** (LEGACY) SBE 39 Temperature (Depth) Recorder**Serial:** 3928082-0809**Special Notes**

Services Performed:

Perform initial diagnostic evaluation.

Performed "POST" cruise calibration.

Replaced lithium battery.

Item	Item Description	Qty
SBS-SVC-39	COMPREHENSIVE SERVICE/CALIBRATION OF SBE39 AND SBE39P, INCLUDING ALL MINOR AND ONE MAJOR REPAIR SUCH AS REPLACEMENT OF TEMPERATURE PROBE OR NON-DIGIQUARTZ PRESSURE SENSOR. INCLUDES ROOM TEMPERATURE PRESSURE CHARACTERIZATION IF REQUIRED.	1

Unbilled Items

Item	Item Description	Qty
22074	SBE 39 lithium battery, UltraLife U9VL, 9V (spare)	1

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PRODUCT INFORMATION**Item:** 39.LEGACY**Item Description:** (LEGACY) SBE 39 Temperature (Depth) Recorder**Serial:** 3935165-1425**Special Notes**

Services Performed:

Perform initial diagnostic evaluation.

Performed "POST" cruise calibration.

Replaced lithium battery.

Item	Item Description	Qty
SBS-SVC-39	COMPREHENSIVE SERVICE/CALIBRATION OF SBE39 AND SBE39P, INCLUDING ALL MINOR AND ONE MAJOR REPAIR SUCH AS REPLACEMENT OF TEMPERATURE PROBE OR NON-DIGIQUARTZ PRESSURE SENSOR. INCLUDES ROOM TEMPERATURE PRESSURE CHARACTERIZATION IF REQUIRED.	1

Unbilled Items

Item	Item Description	Qty
22074	SBE 39 lithium battery, UltraLife U9VL, 9V (spare)	1

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27-FEB-2025

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PRODUCT INFORMATION**Item:** 39.LEGACY**Item Description:** (LEGACY) SBE 39 Temperature (Depth) Recorder**Serial:** 3928082-0810**Special Notes**

Services Performed:

Perform initial diagnostic evaluation.

Performed "POST" cruise calibration.

Replaced lithium battery.

Item	Item Description	Qty
SBS-SVC-39	COMPREHENSIVE SERVICE/CALIBRATION OF SBE39 AND SBE39P, INCLUDING ALL MINOR AND ONE MAJOR REPAIR SUCH AS REPLACEMENT OF TEMPERATURE PROBE OR NON-DIGIQUARTZ PRESSURE SENSOR. INCLUDES ROOM TEMPERATURE PRESSURE CHARACTERIZATION IF REQUIRED.	1

Unbilled Items

Item	Item Description	Qty
22074	SBE 39 lithium battery, UltraLife U9VL, 9V (spare)	1

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PRODUCT INFORMATION**Item:** 39.LEGACY**Item Description:** (LEGACY) SBE 39 Temperature (Depth) Recorder**Serial:** 3936048-1637**Special Notes**

Problems Found:

The connector wiring is loose.

Services Performed:

Perform initial diagnostic evaluation.

Fixed the connector wiring.

Performed "POST" cruise calibration.

Replaced lithium battery.

Item	Item Description	Qty
SBS-SVC-39	COMPREHENSIVE SERVICE/CALIBRATION OF SBE39 AND SBE39P, INCLUDING ALL MINOR AND ONE MAJOR REPAIR SUCH AS REPLACEMENT OF TEMPERATURE PROBE OR NON-DIGIQUARTZ PRESSURE SENSOR. INCLUDES ROOM TEMPERATURE PRESSURE CHARACTERIZATION IF REQUIRED.	1

Unbilled Items

Item	Item Description	Qty
22074	SBE 39 lithium battery, UltraLife U9VL, 9V (spare)	1

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PRODUCT INFORMATION**Item:** 39.LEGACY**Item Description:** (LEGACY) SBE 39 Temperature (Depth) Recorder**Serial:** 3939648-1636**Special Notes**

Problems Found:

The connector was found to be damaged.

Services Performed:

Perform initial diagnostic evaluation.

Replaced the connector.

Replaced "O"-rings.

Performed hydrostatic pressure test.

Performed pressure calibration.

Performed "POST" cruise calibration.

Replaced the battery.

Item	Item Description	Qty
SBS-SVC-39	COMPREHENSIVE SERVICE/CALIBRATION OF SBE39 AND SBE39P, INCLUDING ALL MINOR AND ONE MAJOR REPAIR SUCH AS REPLACEMENT OF TEMPERATURE PROBE OR NON-DIGIQUARTZ PRESSURE SENSOR. INCLUDES ROOM TEMPERATURE PRESSURE CHARACTERIZATION IF REQUIRED.	1

Unbilled Items

Item	Item Description	Qty
17654	Bulkhead connector, 4-pin Standard, XSG-4-BCL-HP-SS	1
22074	SBE 39 lithium battery, UltraLife U9VL, 9V (spare)	1

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PRODUCT INFORMATION**Item:** 39.LEGACY**Item Description:** (LEGACY) SBE 39 Temperature (Depth) Recorder**Serial:** 39-1162**Special Notes**

Services Performed:

Perform initial diagnostic evaluation.

Performed "POST" cruise calibration.

Replaced the battery.

Item	Item Description	Qty
SBS-SVC-39	COMPREHENSIVE SERVICE/CALIBRATION OF SBE39 AND SBE39P, INCLUDING ALL MINOR AND ONE MAJOR REPAIR SUCH AS REPLACEMENT OF TEMPERATURE PROBE OR NON-DIGIQUARTZ PRESSURE SENSOR. INCLUDES ROOM TEMPERATURE PRESSURE CHARACTERIZATION IF REQUIRED.	1

Unbilled Items

Item	Item Description	Qty
22074	SBE 39 lithium battery, UltraLife U9VL, 9V (spare)	1

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PRODUCT INFORMATION**Item:** 39.LEGACY**Item Description:** (LEGACY) SBE 39 Temperature (Depth) Recorder**Serial:** 3931349-0967**Special Notes**

Services Performed:

Perform initial diagnostic evaluation.

Performed "POST" cruise calibration.

Replaced the battery.

Item	Item Description	Qty
SBS-SVC-39	COMPREHENSIVE SERVICE/CALIBRATION OF SBE39 AND SBE39P, INCLUDING ALL MINOR AND ONE MAJOR REPAIR SUCH AS REPLACEMENT OF TEMPERATURE PROBE OR NON-DIGIQUARTZ PRESSURE SENSOR. INCLUDES ROOM TEMPERATURE PRESSURE CHARACTERIZATION IF REQUIRED.	1

Unbilled Items

Item	Item Description	Qty
22074	SBE 39 lithium battery, UltraLife U9VL, 9V (spare)	1

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PRODUCT INFORMATION**Item:** 39.LEGACY**Item Description:** (LEGACY) SBE 39 Temperature (Depth) Recorder**Serial:** 3931349-1166**Special Notes**

Services Performed on 3931349-1166:

Perform initial diagnostic evaluation.

Performed "POST" cruise calibration.

Performed final test.

Item	Item Description	Qty
SBS-SVC-39	COMPREHENSIVE SERVICE/CALIBRATION OF SBE39 AND SBE39P, INCLUDING ALL MINOR AND ONE MAJOR REPAIR SUCH AS REPLACEMENT OF TEMPERATURE PROBE OR NON-DIGIQUARTZ PRESSURE SENSOR. INCLUDES ROOM TEMPERATURE PRESSURE CHARACTERIZATION IF REQUIRED.	1

Unbilled Items

Item	Item Description	Qty
22074	SBE 39 lithium battery, UltraLife U9VL, 9V (spare)	1

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PRODUCT INFORMATION**Item:** 39.LEGACY**Item Description:** (LEGACY) SBE 39 Temperature (Depth) Recorder**Serial:** 39-1163**Special Notes**

Services Performed on 39-1163:

Perform initial diagnostic evaluation.

Performed "POST" cruise calibration.

Performed final test.

Item	Item Description	Qty
SBS-SVC-39	COMPREHENSIVE SERVICE/CALIBRATION OF SBE39 AND SBE39P, INCLUDING ALL MINOR AND ONE MAJOR REPAIR SUCH AS REPLACEMENT OF TEMPERATURE PROBE OR NON-DIGIQUARTZ PRESSURE SENSOR. INCLUDES ROOM TEMPERATURE PRESSURE CHARACTERIZATION IF REQUIRED.	1

Unbilled Items

Item	Item Description	Qty
22074	SBE 39 lithium battery, UltraLife U9VL, 9V (spare)	1

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SERVICE REPORT**Service Request****1005522877****Date****27-FEB-2025****Sales Order****321276157****PRODUCT INFORMATION**

Item: ECO.LEGACY

Item Description: (LEGACY) ECO Single Channel

Serial: FLSB-158

Special Notes

ECO Calibration and Repairs

Diagnosis:

Evaluated instrument (FLSB-158) and found unit required Standard Calibration.

Repairs and Modifications:

Installed 6 New 9V Batteries, Faceplate, and Shutter, Standard Calibration Completed. Unit Returned to Customer

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.

If applicable, a pre-service characterization is performed. Data is analyzed and Instrument is rescaled.

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 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 USB.

Item	Item Description	Qty
SBS-SVC-ECOSINGLE	COMPREHENSIVE SERVICE FOR SINGLE CHANNEL ECOS, INCLUDING ALL MINOR AND ONE MAJOR REPAIR. DOES NOT INCLUDE OPTICS HEAD REPLACEMENT.	1

Unbilled Items

Item	Item Description	Qty
EXA-ZX0064	BATTERY, 9v, Lithium	6
BAA-000017	ASSY, Shutter, CCW, Curved, ECO	1
MAA-220524	ECO faceplate copper shuttered	1

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PRODUCT INFORMATION**Item:** 37SM.LEGACY**Item Description: (LEGACY) SBE 37SM MicroCAT****Serial:** 37SM25429-1805**Special Notes**

Services Performed on 37SM25429-1805:

Perform initial diagnostic evaluation.

Performed "POST" cruise calibration.

Cleaned & platinized cell.

Performed Final Test.

Installed NEW AF24173 Anti-foulant cylinder(s).

Item	Item Description	Qty
REPLACEAF	EXTRA CHARGE TO INSTALL ONE ANTIFOULANT DEVICE, INCLUDES ONE PN 801542.1.	1
REPLACEAF	EXTRA CHARGE TO INSTALL ONE ANTIFOULANT DEVICE, INCLUDES ONE PN 801542.1.	1
SBS-SVC-37	COMPREHENSIVE SERVICE/CALIBRATION FOR SBE37, SB37V2, AND SBE37V3 INCLUDING ALL MINOR AND ONE MAJOR REPAIR SUCH AS REPLACEMENT OF TEMPERTAURE PROBE, CONDUCTIVITY CELL, OR NON-DIGIQUARTZ PRESSURE SENSOR. INCLUDES ROOM TEMPERATURE PRESSURE CHARACTERIZATION IF REQUIRED.	1

Unbilled Items

Item	Item Description	Qty
801542.1	AF24173 ANTI-FOULANT, SINGLE CYLINDER, V2	2

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SERVICE REPORT**Service Request****1005522877****Date**

27-FEB-2025

Sales Order

321276157

PRODUCT INFORMATION**Item:** 37SM.LEGACY**Item Description:** (LEGACY) SBE 37SM MicroCAT**Serial:** 37SM39602-4078**Special Notes**

Services Performed on 37SM39602-4078:

Perform initial diagnostic evaluation.

Performed "POST" cruise calibration.

Performed pressure calibration.

Performed Final Test.

Installed NEW AF24173 Anti-foulant cylinder(s).

Item	Item Description	Qty
REPLACEAF	EXTRA CHARGE TO INSTALL ONE ANTIFOULANT DEVICE, INCLUDES ONE PN 801542.1.	1
REPLACEAF	EXTRA CHARGE TO INSTALL ONE ANTIFOULANT DEVICE, INCLUDES ONE PN 801542.1.	1
SBS-SVC-37	COMPREHENSIVE SERVICE/CALIBRATION FOR SBE37, SB37V2, AND SBE37V3 INCLUDING ALL MINOR AND ONE MAJOR REPAIR SUCH AS REPLACEMENT OF TEMPERTAURE PROBE, CONDUCTIVITY CELL, OR NON-DIGIQUARTZ PRESSURE SENSOR. INCLUDES ROOM TEMPERATURE PRESSURE CHARACTERIZATION IF REQUIRED.	1

Unbilled Items

Item	Item Description	Qty
801542.1	AF24173 ANTI-FOULANT, SINGLE CYLINDER, V2	2

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Sales Order

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PRODUCT INFORMATION**Item:** 37SM.LEGACY**Item Description:** (LEGACY) SBE 37SM MicroCAT**Serial:** 37SM22852-1525**Special Notes**

Services Performed on 37SM22852-1525:

Perform initial diagnostic evaluation.

Performed "POST" cruise calibration.

Cleaned & platinization cell.

Performed Final Test.

Installed NEW AF24173 Anti-foulant cylinder(s).

Item	Item Description	Qty
SBS-SVC-37	COMPREHENSIVE SERVICE/CALIBRATION FOR SBE37, SB37V2, AND SBE37V3 INCLUDING ALL MINOR AND ONE MAJOR REPAIR SUCH AS REPLACEMENT OF TEMPATURE PROBE, CONDUCTIVITY CELL, OR NON-DIGIQUARTZ PRESSURE SENSOR. INCLUDES ROOM TEMPERATURE PRESSURE CHARACTERIZATION IF REQUIRED.	1
REPLACEAF	EXTRA CHARGE TO INSTALL ONE ANTIFOULANT DEVICE, INCLUDES ONE PN 801542.1.	1
REPLACEAF	EXTRA CHARGE TO INSTALL ONE ANTIFOULANT DEVICE, INCLUDES ONE PN 801542.1.	1

Unbilled Items

Item	Item Description	Qty
801542.1	AF24173 ANTI-FOULANT, SINGLE CYLINDER, V2	2

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SERVICE REPORT**Service Request****1005522877****Date**

27-FEB-2025

Sales Order

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PRODUCT INFORMATION**Item:** 37SM.LEGACY**Item Description:** (LEGACY) SBE 37SM MicroCAT**Serial:** 37SM29475-2355**Special Notes**

Services Performed on 37SM29475-2355:

Perform initial diagnostic evaluation.

Performed "POST" cruise calibration.

Performed pressure calibration.

Performed Final Test.

Installed NEW AF24173 Anti-foulant cylinder(s).

Item	Item Description	Qty
REPLACEAF	EXTRA CHARGE TO INSTALL ONE ANTIFOULANT DEVICE, INCLUDES ONE PN 801542.1.	1
REPLACEAF	EXTRA CHARGE TO INSTALL ONE ANTIFOULANT DEVICE, INCLUDES ONE PN 801542.1.	1
SBS-SVC-37	COMPREHENSIVE SERVICE/CALIBRATION FOR SBE37, SB37V2, AND SBE37V3 INCLUDING ALL MINOR AND ONE MAJOR REPAIR SUCH AS REPLACEMENT OF TEMPERTAURE PROBE, CONDUCTIVITY CELL, OR NON-DIGIQUARTZ PRESSURE SENSOR. INCLUDES ROOM TEMPERATURE PRESSURE CHARACTERIZATION IF REQUIRED.	1

Unbilled Items

Item	Item Description	Qty
801542.1	AF24173 ANTI-FOULANT, SINGLE CYLINDER, V2	2

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Sales Order

321276157

PRODUCT INFORMATION**Item:** 37SM.LEGACY**Item Description:** (LEGACY) SBE 37SM MicroCAT**Serial:** 37SM22852-1527**Special Notes**

Services Performed on 37SM22852-1527:

Perform initial diagnostic evaluation.

Performed "POST" cruise calibration.

Replaced Temp Probe.

Replaced "O"- rings.

Performed hydrostatic pressure test.

Performed Final Test.

Installed NEW AF24173 Anti-foulant cylinder(s).

Item	Item Description	Qty
SBS-SVC-37	COMPREHENSIVE SERVICE/CALIBRATION FOR SBE37, SB37V2, AND SBE37V3 INCLUDING ALL MINOR AND ONE MAJOR REPAIR SUCH AS REPLACEMENT OF TEMPATURE PROBE, CONDUCTIVITY CELL, OR NON-DIGIQUARTZ PRESSURE SENSOR. INCLUDES ROOM TEMPERATURE PRESSURE CHARACTERIZATION IF REQUIRED.	1
REPLACEAF	EXTRA CHARGE TO INSTALL ONE ANTIFOULANT DEVICE, INCLUDES ONE PN 801542.1.	1
REPLACEAF	EXTRA CHARGE TO INSTALL ONE ANTIFOULANT DEVICE, INCLUDES ONE PN 801542.1.	1

Unbilled Items

Item	Item Description	Qty
801871	MODULAR uCAT TEMP PROBE ASSY, FENWAL /41164A	1
801542.1	AF24173 ANTI-FOULANT, SINGLE CYLINDER, V2	2

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Sales Order

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PRODUCT INFORMATION**Item:** 37SM.LEGACY**Item Description: (LEGACY) SBE 37SM MicroCAT****Serial:** 37SM25541-1858**Special Notes**

Services Performed on 37SM25541-1858:

Perform initial diagnostic evaluation.

Performed "POST" cruise calibration.

Cleaned and platinization cell.

Performed Final Test.

Installed NEW AF24173 Anti-foulant cylinder(s).

Item	Item Description	Qty
SBS-SVC-37	COMPREHENSIVE SERVICE/CALIBRATION FOR SBE37, SB37V2, AND SBE37V3 INCLUDING ALL MINOR AND ONE MAJOR REPAIR SUCH AS REPLACEMENT OF TEMPATURE PROBE, CONDUCTIVITY CELL, OR NON-DIGIQUARTZ PRESSURE SENSOR. INCLUDES ROOM TEMPERATURE PRESSURE CHARACTERIZATION IF REQUIRED.	1
REPLACEAF	EXTRA CHARGE TO INSTALL ONE ANTIFOULANT DEVICE, INCLUDES ONE PN 801542.1.	1
REPLACEAF	EXTRA CHARGE TO INSTALL ONE ANTIFOULANT DEVICE, INCLUDES ONE PN 801542.1.	1

Unbilled Items

Item	Item Description	Qty
801542.1	AF24173 ANTI-FOULANT, SINGLE CYLINDER, V2	2

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Sales Order

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PRODUCT INFORMATION**Item:** 37SM.LEGACY**Item Description:** (LEGACY) SBE 37SM MicroCAT**Serial:** 37SM36048-3768**Special Notes**

Services Performed on 37SM36048-3768:

Perform initial diagnostic evaluation.

Performed "POST" cruise calibration.

Performed pressure calibration.

Performed Final Test.

Installed NEW AF24173 Anti-foulant cylinder(s).

Item	Item Description	Qty
REPLACEAF	EXTRA CHARGE TO INSTALL ONE ANTIFOULANT DEVICE, INCLUDES ONE PN 801542.1.	1
REPLACEAF	EXTRA CHARGE TO INSTALL ONE ANTIFOULANT DEVICE, INCLUDES ONE PN 801542.1.	1
SBS-SVC-37	COMPREHENSIVE SERVICE/CALIBRATION FOR SBE37, SB37V2, AND SBE37V3 INCLUDING ALL MINOR AND ONE MAJOR REPAIR SUCH AS REPLACEMENT OF TEMPERTAURE PROBE, CONDUCTIVITY CELL, OR NON-DIGIQUARTZ PRESSURE SENSOR. INCLUDES ROOM TEMPERATURE PRESSURE CHARACTERIZATION IF REQUIRED.	1

Unbilled Items

Item	Item Description	Qty
801542.1	AF24173 ANTI-FOULANT, SINGLE CYLINDER, V2	2

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27-FEB-2025

Sales Order

321276157

PRODUCT INFORMATION**Item:** 37SM.LEGACY**Item Description:** (LEGACY) SBE 37SM MicroCAT**Serial:** 37SM28082-2332**Special Notes**

Services Performed on 37SM28082-2332:

Perform initial diagnostic evaluation.

Performed "POST" cruise calibration.

Performed pressure calibration.

Performed Final Test.

Installed NEW AF24173 Anti-foulant cylinder(s).

Item	Item Description	Qty
REPLACEAF	EXTRA CHARGE TO INSTALL ONE ANTIFOULANT DEVICE, INCLUDES ONE PN 801542.1.	1
REPLACEAF	EXTRA CHARGE TO INSTALL ONE ANTIFOULANT DEVICE, INCLUDES ONE PN 801542.1.	1
SBS-SVC-37	COMPREHENSIVE SERVICE/CALIBRATION FOR SBE37, SB37V2, AND SBE37V3 INCLUDING ALL MINOR AND ONE MAJOR REPAIR SUCH AS REPLACEMENT OF TEMPERTAURE PROBE, CONDUCTIVITY CELL, OR NON-DIGIQUARTZ PRESSURE SENSOR. INCLUDES ROOM TEMPERATURE PRESSURE CHARACTERIZATION IF REQUIRED.	1

Unbilled Items

Item	Item Description	Qty
801542.1	AF24173 ANTI-FOULANT, SINGLE CYLINDER, V2	2

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SERVICE REPORT**Service Request****1005522877****Date**

27-FEB-2025

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PRODUCT INFORMATION**Item:** 37SM.LEGACY**Item Description:** (LEGACY) SBE 37SM MicroCAT**Serial:** 37SM36048-3766**Special Notes**

Services Performed on 37SM36048-3766:

Perform initial diagnostic evaluation.

Performed "POST" cruise calibration.

Performed pressure calibration.

Performed Final Test.

Installed NEW AF24173 Anti-foulant cylinder(s).

Item	Item Description	Qty
REPLACEAF	EXTRA CHARGE TO INSTALL ONE ANTIFOULANT DEVICE, INCLUDES ONE PN 801542.1.	1
REPLACEAF	EXTRA CHARGE TO INSTALL ONE ANTIFOULANT DEVICE, INCLUDES ONE PN 801542.1.	1
SBS-SVC-37	COMPREHENSIVE SERVICE/CALIBRATION FOR SBE37, SB37V2, AND SBE37V3 INCLUDING ALL MINOR AND ONE MAJOR REPAIR SUCH AS REPLACEMENT OF TEMPERTAURE PROBE, CONDUCTIVITY CELL, OR NON-DIGIQUARTZ PRESSURE SENSOR. INCLUDES ROOM TEMPERATURE PRESSURE CHARACTERIZATION IF REQUIRED.	1

Unbilled Items

Item	Item Description	Qty
801542.1	AF24173 ANTI-FOULANT, SINGLE CYLINDER, V2	2

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27-FEB-2025

Sales Order

321276157

PRODUCT INFORMATION**Item:** 37SM.LEGACY**Item Description:** (LEGACY) SBE 37SM MicroCAT**Serial:** 37SM25429-1810**Special Notes**

Services Performed on 37SM25429-1810:

Perform initial diagnostic evaluation.

Performed "POST" cruise calibration.

Replaced conductivity cell.

Replaced "O"-rings.

Performed hydrostatic pressure test.

Performed Final Test.

Installed NEW AF24173 Anti-foulant cylinder(s).

Item	Item Description	Qty
SBS-SVC-37	COMPREHENSIVE SERVICE/CALIBRATION FOR SBE37, SB37V2, AND SBE37V3 INCLUDING ALL MINOR AND ONE MAJOR REPAIR SUCH AS REPLACEMENT OF TEMPERATURE PROBE, CONDUCTIVITY CELL, OR NON-DIGIQUARTZ PRESSURE SENSOR. INCLUDES ROOM TEMPERATURE PRESSURE CHARACTERIZATION IF REQUIRED.	1
REPLACEAF	EXTRA CHARGE TO INSTALL ONE ANTIFOULANT DEVICE, INCLUDES ONE PN 801542.1.	1
REPLACEAF	EXTRA CHARGE TO INSTALL ONE ANTIFOULANT DEVICE, INCLUDES ONE PN 801542.1.	1

Unbilled Items

Item	Item Description	Qty
801139	MODULAR MICROCAT COND. CELL TRAY ASSEMBLY	1
801542.1	AF24173 ANTI-FOULANT, SINGLE CYLINDER, V2	2

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SERVICE REPORT**Service Request****1005522877****Date**

27-FEB-2025

Sales Order

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PRODUCT INFORMATION**Item:** ECO-DUAL.LEGACY**Item Description:** (LEGACY) ECO Dual Channel**Serial:** FLNTUS-1165**Special Notes**

FLNTUS-1165 can no longer be Calibrated. Failed Test Bed Voltage Stability. Complete Replacement required.



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SERVICE REPORT

Service Request

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Date

27-FEB-2025

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321276157

PRODUCT INFORMATION

Item: ECO-DUAL.LEGACY

Item Description: (LEGACY) ECO Dual Channel

Serial: FLNTUS-350

Special Notes

FLNTUS-350 will require replacement. G-1 unit no longer supported and can not calibrate.

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SERVICE REPORT**Service Request****1005522877****Date**

27-FEB-2025

Sales Order

321276157

PRODUCT INFORMATION**Item:** ECO.LEGACY**Item Description:** (LEGACY) ECO Single Channel**Serial:** FLSB-3718**Special Notes**

ECO Calibration and Repairs

Diagnosis:

Evaluated instrument (FLSB-3718) and found that the unit needed tuning. Also, it was found that bulkhead connector had broken pin.

Repairs and Modifications:

New battery flange was installed. Unit was calibrated, retuned and standard service was provided.

Comments:

New batteries, faceplate and shutter were provided. New Device files and Characterization sheets included.

ECO Standard Service:

The instrument's bulkhead connector, pressure housing and optical head are inspected for damage. The optics are inspected for any crack and/ or delamination. The instrument is also evaluated to determine proper functionality.

If applicable, the head is inspected for cracks in motor bores. Case seals, shaft, shaft seal, faceplate, wiper, desiccant pack, and batteries (if equipped) are replaced.

Incoming settings and memory are collected if incoming condition allows. When requested, a pre-service characterization can be performed. Then, the final calibration and characterization are conducted. Noise, stability, and live pressure test are also performed before service is completed.

A device file, repair sheet, and new characterization sheets are provided to customer via USB.

Item	Item Description	Qty
SBS-SVC-ECOSINGLE	COMPREHENSIVE SERVICE FOR SINGLE CHANNEL ECOS, INCLUDING ALL MINOR AND ONE MAJOR REPAIR. DOES NOT INCLUDE OPTICS HEAD REPLACEMENT.	1

Unbilled Items

Item	Item Description	Qty
BAA-000017	ASSY, Shutter, CCW, Curved, ECO	1
MAA-220524	ECO faceplate copper shuttered	1
BAA-000034	ASSY, Battery Flange, ECO	1

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SERVICE REPORT**Service Request****1005522877****Date****27-FEB-2025****Sales Order****321276157****PRODUCT INFORMATION**

Item: ECO.LEGACY

Item Description: (LEGACY) ECO Single Channel

Serial: FLSB-3450

Special Notes

ECO Calibration and Repairs

Diagnosis:

Evaluated instrument (FLSB-3450) and found that the unit needed tuning.

Repairs and Modifications:

Unit was calibrated, retuned and standard service was provided.

Comments:

New Device files and Characterization sheets included.

ECO Standard Service:

The instrument's bulkhead connector, pressure housing and optical head are inspected for damage. The optics are inspected for any crack and/ or delamination. The instrument is also evaluated to determine proper functionality.

If applicable, the head is inspected for cracks in motor bores. Case seals, shaft, shaft seal, faceplate, wiper, desiccant pack, and batteries (if equipped) are replaced.

Incoming settings and memory are collected if incoming condition allows. When requested, a pre-service characterization can be performed. Then, the final calibration and characterization are conducted. Noise, stability, and live pressure test are also performed before service is completed.

A device file, repair sheet, and new characterization sheets are provided to customer via USB.

Item	Item Description	Qty
SBS-SVC-ECOSINGLE	COMPREHENSIVE SERVICE FOR SINGLE CHANNEL ECOS, INCLUDING ALL MINOR AND ONE MAJOR REPAIR. DOES NOT INCLUDE OPTICS HEAD REPLACEMENT.	1

Unbilled Items

Item	Item Description	Qty

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27-FEB-2025

Sales Order

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PRODUCT INFORMATION**Item:** 39.LEGACY**Item Description:** (LEGACY) SBE 39 Temperature (Depth) Recorder**Serial:** 3928082-0814**Special Notes**

Item	Item Description	Qty
SBS-SVC-39	COMPREHENSIVE SERVICE/CALIBRATION OF SBE39 AND SBE39P, INLCUDING ALL MINOR AND ONE MAJOR REPAIR SUCH AS REPLACEMENT OF TEMPERATURE PROBE OR NON-DIGIQUARTZ PRESSURE SENSOR. INCLUDES ROOM TEMPERATURE PRESSURE CHARACTERIZATION IF REQUIRED.	1

Unbilled Items

Item	Item Description	Qty
22074	SBE 39 lithium battery, UltraLife U9VL, 9V (spare)	1