



**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**

**1005508671**  
14-OCT-2019  
315751863

## CUSTOMER INFORMATION

Name: UNIVERSITY OF ALASKA - SEWARD  
Account : 40280223  
STEVE HARTZ  
SJHARTZ@ALASKA.EDU  
1-907-224-5261

PO Number:

### Bill To Address

SEWARD MARINE CENTER / SFOS;P.O. BOX 730;  
  
SEWARD,AK,99664,US

### Ship To Address

JUNEAU CENTER;COLLEGE OF FISHERIES & OCEAN  
SCIENCE;11120 GLACIER HIGHWAY;  
JUNEAU,AK,99801,US

## PRODUCT INFORMATION

**Item:** 09P.LEGACY  
**Item Description:** (LEGACY) SBE 09Plus CTD  
**Serial:** 09P19507-0533

### Special Notes

Services Requested:  
Evaluate/Repair Instrumentation.  
Perform Routine Calibration Service.  
Replace the instruments "O"-rings.  
Perform hydrostatic pressure test.  
Install Serial Data Uplink, 9600 unidirectional RS-232, with 19200 baud sensor communication interface

Services Performed:  
Perform initial diagnostic evaluation.  
Installed serial uplink.  
Replaced pressure capillary.  
Replaced the O-rings.  
Performed a hydrostatic pressure test.  
Performed pressure calibration.  
Replaced the anodes.

Item	Item Description	Qty
CONCERT9B	Confirm and recertify SBE 9plus. Includes opening main housing, replacing end cap "piston" o-rings and making minor internal repairs or modifications. 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). Hydrostatic pressure test and water bath check following closure. Cost of sensor calibrations, major repairs or modifications is extra.	1
ADDUPLINK	Extra charge to install 9600 baud serial uplink in 9plus and 11plus V2 (requires SBE 11plus V2; not available for earlier deck unit versions)	1



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### Unbilled Items

Item	Item Description	Qty
50029	PRESSURE SENSOR CAPILLARY ASSEMBLY, SPARE	1
41613	9plus LOGIC, UNIVERSAL SERIAL INTRFC /41613A	1
41799	SBE 9+ MODEM W/9600 BPS UPLINK CAPABILITY	1
30044	SEACAT ANODE, 1" DIA., G1050	3
172025	CONN, MCBH-4-M, AL, 1/2-20, 3/8" TL	1