

Customer Information:

Company	Oregon State University	Date	9/4/2008
Contact	Dave O Gorman		
PO Number	S0953A		

Serial Number	03P2327
Model Number	SBE 03Plus

Services Requested:

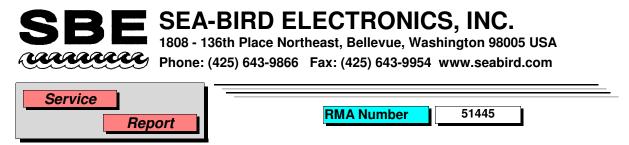
- 1. Evaluate/Repair Instrumentation.
- 2. Perform Routine Calibration Service.

Problems Found:

Services Performed:

- 1. Performed initial diagnostic evaluation.
- 2. Performed "Post Cruise" calibration of the temperature sensor.

Special Notes:



Customer Information:

Company	Oregon State University	Date	9/4/2008
Contact	Dave O Gorman		
PO Number	S0953A		

erial Number 040670
odel Number SBE 04-01/0

Services Requested:

- 1. Evaluate/Repair Instrumentation.
- 2. Perform Routine Calibration Service.

Problems Found:

Services Performed:

- 1. Performed initial diagnostic evaluation.
- 2. Performed "Post Cruise" calibration of the conductivity sensor.

Special Notes:



	Report	RMA Number	51445	
Customer Int	formation:			
Company	Oregon State University		Date	9/4/2008
Contact	Dave O Gorman			
PO Number	S0953A			
Serial Numb	er 09P6012-0256			

Services Requested:

1. Evaluate/Repair Instrumentation.

Model Number | SBE 09Plus

2. Perform Routine Calibration Service.

Problems Found:

- 1. Both analog interface boards required replacement to match the new control, store A/D card.
- 2. The CSAD board was found to be cracked and components U1 and U7 were missing from the logic board.
- 3. The backplane was found to have broken connector edges on the PCB.
- 4. The Sea-Cable interface assembly was found to have broken posts on the power supply.
- 5. The top end cap interface board had serveral damaged components and the ribbon cable was broken.
- 6. Modem would not fire bottles, component U10 and the EPROM were missing and have been replaced.
- 7. The three pin bulkhead connector located at JB2 was was found to have damaged threads.
- 8. The Digiquartz retainer plate was found to be cracked.

Services Performed:

- 1. Performed initial diagnostic evaluation.
- 2. Installed NEW three pin bulkhead connector(s).
- 3. Installed NEW backplane with pump control via modmem standard, V2.
- 4. Installed NEW top card file assembly
- 5. Installed NEW Digiquartz retainer plate. *
- 6. Installed NEW Analog Interface Board.
- 7. Installed NEW SBE 9Plus CSAD card.
- 8. Installed NEW logic board.
- 9. Installed NEW Seacable Interface Assembly.
- 10. Performed internal inspection and O-ring replacement.
- 11. Performed hydrostatic pressure test.
- 12. Calibrated the pressure sensor.
- 13. Replaced anode(s).
- 14. Performed complete system check and full diagnostic evaluation.

Special Notes:

* The Digiquartz retainer plate was replaced at no charge.



Customer Information:

Company	Oregon State University	Date	9/4/2008
Contact	Dave O Gorman	_	
PO Number	S0953A		

Serial Number	430387
Model Number	SBE 43

Services Requested:

- 1. Evaluate/Repair Instrumentation.
- 2. Perform Routine Calibration Service.

Problems Found:

Services Performed:

- 1. Performed initial diagnostic evaluation.
- 2. Performed "Post Cruise" calibration of the oxygen sensor.
- 3. Performed full diagnostic evaluation.

Special Notes: