



# SEA-BIRD ELECTRONICS, INC.

13431 NE 20th St. Bellevue, Washington 98005 USA

Phone: (425) 643-9866 Fax: (425) 643-9954 [www.seabird.com](http://www.seabird.com)

**Service**

**Report**

**RMA Number**

**83585**

## Customer Information:

<b>Company</b>	Pacific Marine Environmental Lab	<b>Date</b>	4/15/2015
<b>Contact</b>	David Strausz		
<b>PO Number</b>	TBD		

<b>Serial Number</b>	030696
<b>Model Number</b>	SBE 03-01/F

## Services Requested:

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

## Problems Found:

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## Services Performed:

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

## Special Notes:

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**Service**

**Report**

**RMA Number**

**83585**

## Customer Information:

**Company** Pacific Marine Environmental Lab **Date** 4/15/2015

**Contact** David Strausz

**PO Number** TBD

**Serial Number** 030701

**Model Number** SBE 03-01/F

## Services Requested:

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

## Problems Found:

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## Services Performed:

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

## Special Notes:

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**Service**

**Report**

**RMA Number**

**83585**

## Customer Information:

**Company** Pacific Marine Environmental Lab **Date** 4/15/2015

**Contact** David Strausz

**PO Number** TBD

**Serial Number** 030710

**Model Number** SBE 03-01/F

## Services Requested:

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

## Problems Found:

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## Services Performed:

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

## Special Notes:

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**Service**

**Report**

**RMA Number**

**83585**

## Customer Information:

**Company** Pacific Marine Environmental Lab **Date** 4/15/2015

**Contact** David Strausz

**PO Number** TBD

**Serial Number** 03P5584

**Model Number** SBE 03

## Services Requested:

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

## Problems Found:

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## Services Performed:

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

## Special Notes:

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**Service**

**Report**

**RMA Number**

**83585**

## Customer Information:

<b>Company</b>	Pacific Marine Environmental Lab	<b>Date</b>	4/15/2015
<b>Contact</b>	David Strausz		
<b>PO Number</b>	TBD		

<b>Serial Number</b>	040304
<b>Model Number</b>	SBE 04-01/0

## Services Requested:

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

## Problems Found:

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## Services Performed:

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

## Special Notes:

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**Service**

**Report**

**RMA Number**

**83585**

## Customer Information:

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<b>Contact</b>	David Strausz		
<b>PO Number</b>	TBD		

<b>Serial Number</b>	040334
<b>Model Number</b>	SBE 04-01/0

## Services Requested:

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

## Problems Found:

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## Services Performed:

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

## Special Notes:

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**Service**

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**RMA Number**

**83585**

## Customer Information:

<b>Company</b>	Pacific Marine Environmental Lab	<b>Date</b>	4/15/2015
<b>Contact</b>	David Strausz		
<b>PO Number</b>	TBD		

<b>Serial Number</b>	1625591-3114
<b>Model Number</b>	SBE 16-03

## Services Requested:

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

## Problems Found:

1. Customer noted spiking at depth. Inspected all boards and connections. No problems found. Instrument passed all calibration checks and bath test. If problems continue parts are not available for any board repairs.

## Services Performed:

1. Performed initial diagnostic evaluation.
2. Performed "Post Cruise" calibration of the temperature & conductivity sensors.
3. Performed complete system check and full diagnostic evaluation.

## Special Notes:

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## Customer Information:

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<b>Contact</b>	David Strausz		
<b>PO Number</b>	TBD		

<b>Serial Number</b>	1625591-3115
<b>Model Number</b>	SBE 16-03

## Services Requested:

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

## Problems Found:

1. The 16 arrived with an aluminum cell support kit installed on a titanium cell guard.

## Services Performed:

1. Performed initial diagnostic evaluation.
2. Calibrated the pressure sensor.
3. Performed "Post Cruise" calibration of the temperature & conductivity sensors.
4. Installed NEW conductivity cell support kit.
5. Performed complete system check and full diagnostic evaluation.

## Special Notes:





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<b>Contact</b>	David Strausz		
<b>PO Number</b>	TBD		

<b>Serial Number</b>	163611-0539
<b>Model Number</b>	SBE 16

## Services Requested:

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

## Problems Found:

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## Services Performed:

1. Performed initial diagnostic evaluation.
2. Performed "Post Cruise" calibration of the temperature & conductivity sensors.
3. Performed complete system check and full diagnostic evaluation.

## Special Notes:

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<b>Contact</b>	David Strausz		
<b>PO Number</b>	TBD		

<b>Serial Number</b>	164208-0655
<b>Model Number</b>	SBE 16-03

## Services Requested:

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

## Problems Found:

1. The lithium backup batteries had reached the end of their life expectancy.

## Services Performed:

1. Performed initial diagnostic evaluation.
2. Downloaded customers stored data. \*
3. Replaced the lithium back-up battery(s).
4. Calibrated the pressure sensor.
5. Performed "Post Cruise" calibration of the temperature & conductivity sensors.
6. Performed complete system check and full diagnostic evaluation.

## Special Notes:

\* Attempted to download data but it was garbled.

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<b>Company</b>	Pacific Marine Environmental Lab	<b>Date</b>	4/15/2015
<b>Contact</b>	David Strausz		
<b>PO Number</b>	TBD		

**Serial Number** 16P60727-6629

**Model Number** SBE 16Plus

## Services Requested:

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

## Problems Found:

## Services Performed:

1. Performed initial diagnostic evaluation.
2. Upgraded firmware to most current revision (see special notes).\*
3. Performed "Post Cruise" calibration of the temperature & conductivity sensors.
4. Performed complete system check and full diagnostic evaluation.

## Special Notes:

\* Version 2.5.2.



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**Service**

**Report**

**RMA Number**

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## Customer Information:

**Company** Pacific Marine Environmental Lab **Date** 4/15/2015

**Contact** David Strausz

**PO Number** TBD

**Serial Number** 37SM25541-1860

**Model Number** SBE 37SM

## Services Requested:

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

## Problems Found:

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## Services Performed:

1. Performed initial diagnostic evaluation.
2. Performed "Post Cruise" calibration of the temperature & conductivity sensors.
3. Performed "Post Cruise" calibration of the temperature & conductivity sensors.
4. Performed complete system check and full diagnostic evaluation.

## Special Notes:

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**RMA Number**

**83585**

## Customer Information:

**Company** Pacific Marine Environmental Lab **Date** 4/15/2015

**Contact** David Strausz

**PO Number** TBD

**Serial Number** 37SM25541-1866

**Model Number** SBE 37SM

## Services Requested:

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

## Problems Found:

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## Services Performed:

1. Performed initial diagnostic evaluation.
2. Performed "Post Cruise" calibration of the temperature & conductivity sensors.
3. Performed complete system check and full diagnostic evaluation.

## Special Notes:

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<b>Contact</b>	David Strausz		
<b>PO Number</b>	TBD		

<b>Serial Number</b>	37SM26834-2025
<b>Model Number</b>	SBE 37SM

## Services Requested:

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

## Problems Found:

1. The anti-foulant devices appeared "dirty".

## Services Performed:

1. Performed initial diagnostic evaluation.
2. Performed "Post Cruise" calibration of the temperature & conductivity sensors.
3. Installed NEW AF24173 Anti-foulant cylinder.
4. Performed complete system check and full diagnostic evaluation.

## Special Notes:



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**Service**

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**RMA Number**

**83585**

## Customer Information:

**Company** Pacific Marine Environmental Lab **Date** 4/15/2015

**Contact** David Strausz

**PO Number** TBD

**Serial Number** 37SM28082-2318

**Model Number** SBE 37SM

## Services Requested:

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## Problems Found:

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## Services Performed:

1. Performed initial diagnostic evaluation.
2. Performed "Post Cruise" calibration of the temperature & conductivity sensors.
3. Performed complete system check and full diagnostic evaluation.

## Special Notes:

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**83585**

## Customer Information:

<b>Company</b>	Pacific Marine Environmental Lab	<b>Date</b>	4/15/2015
<b>Contact</b>	David Strausz		
<b>PO Number</b>	TBD		

<b>Serial Number</b>	37SM28082-2329
<b>Model Number</b>	SBE 37SM

## Services Requested:

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

## Problems Found:

1. The conductivity cell was found to require cleaning and re-platinization.
2. The anti-foulant devices appeared "dirty".

## Services Performed:

1. Performed initial diagnostic evaluation.
2. Performed "Post Cruise" calibration of the temperature & conductivity sensors.
3. Cleaned and replatinized the conductivity cell.
4. Performed "Final" calibration of the temperature & conductivity sensors.
5. Installed NEW AF24173 Anti-foulant cylinder.
6. Performed complete system check and full diagnostic evaluation.

## Special Notes:





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## Customer Information:

<b>Company</b>	Pacific Marine Environmental Lab	<b>Date</b>	4/15/2015
<b>Contact</b>	David Strausz		
<b>PO Number</b>	TBD		

<b>Serial Number</b>	37SM36048-3767
<b>Model Number</b>	SBE 37SM

## Services Requested:

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

## Problems Found:

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## Services Performed:

1. Performed initial diagnostic evaluation.
2. Calibrated the pressure sensor.
3. Calibrated the pressure sensor.
4. Performed "Post Cruise" calibration of the temperature & conductivity sensors.
5. Performed complete system check and full diagnostic evaluation.

## Special Notes:

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**Report**

**RMA Number**

**83585**

## Customer Information:

**Company** Pacific Marine Environmental Lab **Date** 4/15/2015

**Contact** David Strausz

**PO Number** TBD

**Serial Number** 37SM36048-3769

**Model Number** SBE 37SM

## Services Requested:

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

## Problems Found:

## Services Performed:

1. Performed initial diagnostic evaluation.
2. Calibrated the pressure sensor.
3. Performed "Post Cruise" calibration of the temperature & conductivity sensors.
4. Installed NEW AF24173 Anti-foulant cylinder.
5. Performed complete system check and full diagnostic evaluation.

## Special Notes:



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**Service**

**Report**

**RMA Number**

**83585**

## Customer Information:

**Company** Pacific Marine Environmental Lab **Date** 4/15/2015

**Contact** David Strausz

**PO Number** TBD

**Serial Number** 37SM36048-3770

**Model Number** SBE 37SM

## Services Requested:

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

## Problems Found:

## Services Performed:

1. Performed initial diagnostic evaluation.
2. Calibrated the pressure sensor.
3. Performed "Post Cruise" calibration of the temperature & conductivity sensors.
4. Performed complete system check and full diagnostic evaluation.

## Special Notes:



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**Service**

**Report**

**RMA Number**

**83585**

## Customer Information:

**Company** Pacific Marine Environmental Lab **Date** 4/15/2015

**Contact** David Strausz

**PO Number** TBD

**Serial Number** 37SM40084-3979

**Model Number** SBE 37SM

## Services Requested:

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

## Problems Found:

## Services Performed:

1. Performed initial diagnostic evaluation.
2. Calibrated the pressure sensor.
3. Performed "Post Cruise" calibration of the temperature & conductivity sensors.
4. Performed complete system check and full diagnostic evaluation.

## Special Notes:



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**Service**

**Report**

**RMA Number**

**83585**

## Customer Information:

**Company** Pacific Marine Environmental Lab **Date** 4/15/2015

**Contact** David Strausz

**PO Number** TBD

**Serial Number** 37SM40084-4285

**Model Number** SBE 37SM

## Services Requested:

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

## Problems Found:

## Services Performed:

1. Performed initial diagnostic evaluation.
2. Calibrated the pressure sensor.
3. Performed "Post Cruise" calibration of the temperature & conductivity sensors.
4. Performed complete system check and full diagnostic evaluation.

## Special Notes:



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**Service**

**Report**

**RMA Number**

**83585**

## Customer Information:

**Company** Pacific Marine Environmental Lab **Date** 4/15/2015

**Contact** David Strausz

**PO Number** TBD

**Serial Number** 3928082-0810

**Model Number** SBE 39

## 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.
3. Installed NEW 9 Volt lithium battery.
4. Performed internal inspection and O-ring replacement.
5. Performed hydrostatic pressure test.
6. Performed complete system check and full diagnostic evaluation.

## Special Notes:



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**Service**

**Report**

**RMA Number**

**83585**

## Customer Information:

<b>Company</b>	Pacific Marine Environmental Lab	<b>Date</b>	4/15/2015
<b>Contact</b>	David Strausz		
<b>PO Number</b>	TBD		

<b>Serial Number</b>	3928082-0814
<b>Model Number</b>	SBE 39

## Services Requested:

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

## Problems Found:

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## Services Performed:

1. Performed initial diagnostic evaluation.
2. Performed "Post Cruise" calibration of the temperature sensor.
3. Installed NEW 9 Volt lithium battery.
4. Performed internal inspection and O-ring replacement.
5. Performed hydrostatic pressure test.
6. Performed complete system check and full diagnostic evaluation.

## Special Notes:

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**Service**

**Report**

**RMA Number**

**83585**

## Customer Information:

**Company** Pacific Marine Environmental Lab

**Date** 4/15/2015

**Contact** David Strausz

**PO Number** TBD

**Serial Number** 3928082-0816

**Model Number** SBE 39

## 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.
3. Installed NEW 9 Volt lithium battery.
4. Performed internal inspection and O-ring replacement.
5. Performed hydrostatic pressure test.
6. Performed complete system check and full diagnostic evaluation.

## Special Notes:





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<b>Contact</b>	David Strausz		
<b>PO Number</b>	TBD		

<b>Serial Number</b>	3928082-0818
<b>Model Number</b>	SBE 39

## Services Requested:

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

## Problems Found:

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## Services Performed:

1. Performed initial diagnostic evaluation.
2. Performed "Post Cruise" calibration of the temperature sensor.
3. Installed NEW 9 Volt lithium battery.
4. Performed internal inspection and O-ring replacement.
5. Performed hydrostatic pressure test.
6. Performed complete system check and full diagnostic evaluation.

## Special Notes:

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## Customer Information:

**Company** Pacific Marine Environmental Lab **Date** 4/15/2015

**Contact** David Strausz

**PO Number** TBD

**Serial Number** 3935165-1574

**Model Number** SBE 39

## Services Requested:

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

## Problems Found:

## Services Performed:

1. Performed initial diagnostic evaluation.
2. Calibrated the pressure sensor.
3. Performed "Post Cruise" calibration of the temperature sensor.
4. Installed NEW 9 Volt lithium battery.
5. Performed internal inspection and O-ring replacement.
6. Performed hydrostatic pressure test.
7. Performed complete system check and full diagnostic evaluation.

## Special Notes:



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<b>Contact</b>	David Strausz		
<b>PO Number</b>	TBD		

<b>Serial Number</b>	3939602-1773
<b>Model Number</b>	SBE 39

## Services Requested:

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

## Problems Found:

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## Services Performed:

1. Performed initial diagnostic evaluation.
2. Performed "Post Cruise" calibration of the temperature sensor.
3. Installed NEW 9 Volt lithium battery.
4. Performed internal inspection and O-ring replacement.
5. Performed complete system check and full diagnostic evaluation.
6. Performed hydrostatic pressure test.

## Special Notes:

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## Customer Information:

<b>Company</b>	Pacific Marine Environmental Lab	<b>Date</b>	4/15/2015
<b>Contact</b>	David Strausz		
<b>PO Number</b>	TBD		

<b>Serial Number</b>	3939602-1778
<b>Model Number</b>	SBE 39

## Services Requested:

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

## Problems Found:

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## Services Performed:

1. Performed initial diagnostic evaluation.
2. Performed "Post Cruise" calibration of the temperature sensor.
3. Installed NEW 9 Volt lithium battery.
4. Performed internal inspection and O-ring replacement.
5. Performed hydrostatic pressure test.
6. Performed complete system check and full diagnostic evaluation.

## Special Notes:

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## Customer Information:

<b>Company</b>	Pacific Marine Environmental Lab	<b>Date</b>	4/15/2015
<b>Contact</b>	David Strausz		
<b>PO Number</b>	TBD		

<b>Serial Number</b>	3944807-3759
<b>Model Number</b>	SBE 39

## Services Requested:

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

## Problems Found:

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## Services Performed:

1. Performed initial diagnostic evaluation.
2. Calibrated the pressure sensor.
3. Performed "Post Cruise" calibration of the temperature sensor.
4. Installed NEW 9 Volt lithium battery.
5. Performed internal inspection and O-ring replacement.
6. Performed hydrostatic pressure test.
7. Performed complete system check and full diagnostic evaluation.

## Special Notes:

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# SEA-BIRD ELECTRONICS, INC.

13431 NE 20th St. Bellevue, Washington 98005 USA

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**Service**

**Report**

**RMA Number**

**83585**

## Customer Information:

<b>Company</b>	Pacific Marine Environmental Lab	<b>Date</b>	4/15/2015
<b>Contact</b>	David Strausz		
<b>PO Number</b>	TBD		

<b>Serial Number</b>	3944807-3769
<b>Model Number</b>	SBE 39

## Services Requested:

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

## Problems Found:

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## Services Performed:

1. Performed initial diagnostic evaluation.
2. Calibrated the pressure sensor.
3. Performed "Post Cruise" calibration of the temperature sensor.
4. Installed NEW 9 Volt lithium battery.
5. Performed internal inspection and O-ring replacement.
6. Performed hydrostatic pressure test.
7. Performed complete system check and full diagnostic evaluation.

## Special Notes:

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**Service**

**Report**

**RMA Number**

**83585**

## Customer Information:

<b>Company</b>	Pacific Marine Environmental Lab	<b>Date</b>	4/15/2015
<b>Contact</b>	David Strausz		
<b>PO Number</b>	TBD		

<b>Serial Number</b>	3944807-3774
<b>Model Number</b>	SBE 39

## Services Requested:

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

## Problems Found:

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## Services Performed:

1. Performed initial diagnostic evaluation.
2. Calibrated the pressure sensor.
3. Performed "Post Cruise" calibration of the temperature sensor.
4. Installed NEW 9 Volt lithium battery.
5. Performed internal inspection and O-ring replacement.
6. Performed hydrostatic pressure test.
7. Performed complete system check and full diagnostic evaluation.

## Special Notes:

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**Service**

**Report**

**RMA Number**

**83585**

## Customer Information:

<b>Company</b>	Pacific Marine Environmental Lab	<b>Date</b>	4/15/2015
<b>Contact</b>	David Strausz		
<b>PO Number</b>	TBD		

<b>Serial Number</b>	3965436-5286
<b>Model Number</b>	SBE 39

## Services Requested:

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

## Problems Found:

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## Services Performed:

1. Performed initial diagnostic evaluation.
2. Performed "Post Cruise" calibration of the temperature sensor.
3. Installed NEW 9 Volt lithium battery.
4. Performed internal inspection and O-ring replacement.
5. Performed hydrostatic pressure test.
6. Performed complete system check and full diagnostic evaluation.

## Special Notes:

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**Service**

**Report**

**RMA Number**

**83585**

## Customer Information:

<b>Company</b>	Pacific Marine Environmental Lab	<b>Date</b>	4/15/2015
<b>Contact</b>	David Strausz		
<b>PO Number</b>	TBD		

<b>Serial Number</b>	3965436-5287
<b>Model Number</b>	SBE 39

## Services Requested:

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

## Problems Found:

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## Services Performed:

0. Performed "Post Cruise" calibration of the temperature sensor.
1. Performed initial diagnostic evaluation.
2. Installed NEW 9 Volt lithium battery.
3. Performed internal inspection and O-ring replacement.
4. Performed hydrostatic pressure test.
5. Performed complete system check and full diagnostic evaluation.

## Special Notes:

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**Service**

**Report**

**RMA Number**

**83585**

## Customer Information:

**Company** Pacific Marine Environmental Lab **Date** 4/15/2015

**Contact** David Strausz

**PO Number** TBD

**Serial Number** 3965436-5288

**Model Number** SBE 39

## 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.
3. Installed NEW 9 Volt lithium battery.
4. Performed internal inspection and O-ring replacement.
5. Performed hydrostatic pressure test.
6. Performed complete system check and full diagnostic evaluation.

## Special Notes:



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**Service**

**Report**

**RMA Number**

**83585**

## Customer Information:

**Company** Pacific Marine Environmental Lab **Date** 4/15/2015

**Contact** David Strausz

**PO Number** TBD

**Serial Number** 3965436-5473

**Model Number** SBE 39

## Services Requested:

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## Problems Found:

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## Services Performed:

1. Performed initial diagnostic evaluation.
2. Performed "Post Cruise" calibration of the temperature sensor.
3. Installed NEW 9 Volt lithium battery.
4. Performed internal inspection and O-ring replacement.
5. Performed hydrostatic pressure test.
6. Performed complete system check and full diagnostic evaluation.

## Special Notes:

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**Service**

**Report**

**RMA Number**

**83585**

## Customer Information:

**Company** Pacific Marine Environmental Lab **Date** 4/15/2015

**Contact** David Strausz

**PO Number** TBD

**Serial Number** 430910

**Model Number** SBE 43

## Services Requested:

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

## Problems Found:

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## Services Performed:

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

## Special Notes:

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**Service**

**Report**

**RMA Number**

**83585**

## Customer Information:

<b>Company</b>	Pacific Marine Environmental Lab	<b>Date</b>	4/15/2015
<b>Contact</b>	David Strausz		
<b>PO Number</b>	TBD		

<b>Serial Number</b>	431875
<b>Model Number</b>	SBE 43

## Services Requested:

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

## Problems Found:

1. An anode assembly failure was found.  
The resolution was lower than expected.

## Services Performed:

1. Performed initial diagnostic evaluation.
2. Replaced the SBE 43 Anode sub assembly.
3. Replaced the lid and membrane assembly (0.5 mil).
4. Replaced the electrolyte with new fluid.
5. Installed NEW board mounted battery.
6. Performed internal inspection and O-ring replacement.
7. Performed hydrostatic pressure test.
8. Performed "Final" calibration of the oxygen sensor.
9. Performed full diagnostic evaluation.

## Special Notes:



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**Service**

**Report**

**RMA Number**

**83585**

## Customer Information:

**Company** Pacific Marine Environmental Lab **Date** 4/15/2015

**Contact** David Strausz

**PO Number** TBD

**Serial Number** 431876

**Model Number** SBE 43

## Services Requested:

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

## Problems Found:

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## Services Performed:

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

## Special Notes:

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# SBE SEA-BIRD ELECTRONICS, INC.

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Phone: (425) 643-9866 Fax: (425) 643-9954 www.seabird.com

**Service**

**Report**

**RMA Number**

**83585**

## Customer Information:

**Company** Pacific Marine Environmental Lab

**Date** 4/15/2015

**Contact** David Strausz

**PO Number** TBD

**Serial Number** 4929574-0041

**Model Number** SBE 49

## Services Requested:

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

## Problems Found:

## Services Performed:

1. Performed initial diagnostic evaluation.
2. Calibrated the pressure sensor.
3. Performed "Post Cruise" calibration of the temperature & conductivity sensors.
4. Performed complete system check and full diagnostic evaluation.

## Special Notes:



# SEA-BIRD ELECTRONICS, INC.

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**Service**

**Report**

**RMA Number**

**83585**

## Customer Information:

<b>Company</b>	Pacific Marine Environmental Lab	<b>Date</b>	4/15/2015
<b>Contact</b>	David Strausz		
<b>PO Number</b>	TBD		

<b>Serial Number</b>	91220A
<b>Model Number</b>	SBE 09Plus

## Services Requested:

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

## Problems Found:

1. The 2-pin bulkhead connector was found to have bent/broken pins. Replace with wet pluggable type 172023.

## Services Performed:

1. Performed initial diagnostic evaluation.
2. Installed NEW two pin wet-pluggable bulkhead connector(s).
3. Performed internal inspection and O-ring replacement.
4. Performed hydrostatic pressure test.
5. Calibrated the pressure sensor.
6. Performed complete system check and full diagnostic evaluation.

## Special Notes:





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**Service**

**Report**

**RMA Number**

**83585**

## Customer Information:

<b>Company</b>	Pacific Marine Environmental Lab	<b>Date</b>	4/15/2015
<b>Contact</b>	David Strausz		
<b>PO Number</b>	TBD		

<b>Serial Number</b>	91220B
<b>Model Number</b>	SBE 09Plus

## Services Requested:

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

## Problems Found:

1. Replace sea cable connector with wet pluggable type per cust request.
2. The 6-pin bulkhead connector (JT2) was found to have corrosion damage.
3. The 6-pin bulkhead connector (JT3) was found to have corrosion damage.
4. The 6-pin bulkhead connector (JT5) was found to have corrosion damage.
5. The 6-pin bulkhead connector (JT7) was found to have corrosion damage and a broken pin.

## Services Performed:

0. Installed NEW six pin bulkhead connector(s).
1. Performed initial diagnostic evaluation.
2. Installed NEW two pin wet-pluggable bulkhead connector(s).
3. Performed internal inspection and O-ring replacement.
4. Performed hydrostatic pressure test.
5. Calibrated the pressure sensor.
6. Performed complete system check and full diagnostic evaluation.

## Special Notes: