



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

1005508991
18-NOV-2019
315793483

CUSTOMER INFORMATION

Name: MBARI - MONTEREY BAY AQUARIUM RESEARCH INSTITUTE
Account : 40279834
JARED FIGURSKI
JARED@MBARI.ORG
831 775 1967

PO Number:

Bill To Address

ACCOUNTS PAYABLE;7700 SANDHOLDT RD.;
MOSS LANDING,CA,95039-9644,US

Ship To Address

7700 SANDHOLDT ROAD;BUILDING A;
MOSS LANDING,CA,95039-9644,US

PRODUCT INFORMATION

Item: 37SMP.LEGACY

Item Description: (LEGACY) SBE 37SMP MicroCAT

Serial: 37SMP36916-3722

Special Notes

Services Requested:

Evaluate/Repair Instrumentation.

Perform Routine Calibration Service.

Replace Antifoulant Device(s).

No problems found.

Services Performed:

Performed initial diagnostic evaluation.

Replaced desiccant bag.

Performed "POST" cruise calibration.

Performed pressure calibration.

Installed NEW AF24173 Anti-foulant cylinder(s).

Item	Item Description	Qty
PCAL37	Extra charge to calibrate SBE 37 pressure channel	1
SERVICE37	Complete External Inspection. Test All Functions. Calibrate C & T, C&P and recal if necessary. Replace end cap O-rings and Hydrostatic pressure test if necessary. Includes typical repairs. (Does not include: Major electronic board replacement. Instruments deemed "Damaged Beyond Repair". Missing/damaged mounts or cables. Upgrades or modifications. Spares or antifoulant replacement.)	1
REPLACEAF	Extra charge to install one antifoulant device, includes one 801542.1.	2

Unbilled Items

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



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PRODUCT INFORMATION

Item: 37SM.LEGACY
Item Description: (LEGACY) SBE 37SM MicroCAT
Serial: 37SM29309-2448

Special Notes

Services Requested:
Evaluate/Repair Instrumentation.
Perform Routine Calibration Service.
Replace Antifoulant Device(s).

No problems found.

Services Performed:
Performed initial diagnostic evaluation.
Performed "POST" cruise calibration.
Installed NEW AF24173 Anti-foulant cylinder(s).

Item	Item Description	Qty
SERVICE37	Complete External Inspection. Test All Functions. Calibrate C & T, C&P and recal if necessary. Replace end cap O-rings and Hydrostatic pressure test if necessary. Includes typical repairs. (Does not include: Major electronic board replacement. Instruments deemed "Damaged Beyond Repair". Missing/damaged mounts or cables. Upgrades or modifications. Spares or antifoulant replacement.)	1
REPLACEAF	Extra charge to install one antifoulant device, includes one 801542.1.	2

Unbilled Items

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



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PRODUCT INFORMATION

Item: 37SMP.LEGACY
Item Description: (LEGACY) SBE 37SMP MicroCAT
Serial: 37SMP36916-3777

Special Notes

Services Requested:
Evaluate/Repair Instrumentation.
Perform Routine Calibration Service.
Replace Antifoulant Device(s).

Problems Found:

The conductivity cell was found to be damaged (crack in urethane) and requires replacement.

Services Performed:

Performed initial diagnostic evaluation.
Performed "POST" cruise calibration.
Performed pressure calibration.
Replaced the conductivity cell.
Replaced the O-rings.
Performed a hydrostatic pressure test.
Performed a "Final" Calibration.
Installed NEW AF24173 Anti-foulant cylinder(s).

Item	Item Description	Qty
SERVICE37	Complete External Inspection. Test All Functions. Calibrate C & T, C&P and recal if necessary. Replace end cap O-rings and Hydrostatic pressure test if necessary. Includes typical repairs. (Does not include: Major electronic board replacement. Instruments deemed "Damaged Beyond Repair". Missing/damaged mounts or cables. Upgrades or modifications. Spares or antifoulant replacement.)	1
PCAL37	Extra charge to calibrate SBE 37 pressure channel	1
REPLACEAF	Extra charge to install one antifoulant device, includes one 801542.1.	2

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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PRODUCT INFORMATION

Item: 05T.LEGACY

Item Description: (LEGACY) SBE 5T Submersible Pump

Serial: 053003

Special Notes

Services Requested:

Evaluate/Repair Instrumentation.

No problems found.

Services Performed:

Performed initial diagnostic evaluation.



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PRODUCT INFORMATION

Item: 37IM.LEGACY
Item Description: (LEGACY) SBE 37IM MicroCAT
Serial: 37IM17742-0385

Special Notes

Services Requested:
Evaluate/Repair Instrumentation.
Perform Routine Calibration Service.
Replace Antifoulant Device(s).

No problems found.

Services Performed:
Performed initial diagnostic evaluation.
Performed "POST" cruise calibration.
Installed NEW AF24173 Anti-foulant cylinder(s).

Item	Item Description	Qty
SERVICE37	Complete External Inspection. Test All Functions. Calibrate C & T, C&P and recal if necessary. Replace end cap O-rings and Hydrostatic pressure test if necessary. Includes typical repairs. (Does not include: Major electronic board replacement. Instruments deemed "Damaged Beyond Repair". Missing/damaged mounts or cables. Upgrades or modifications. Spares or antifoulant replacement.)	1
REPLACEAF	Extra charge to install one antifoulant device, includes one 801542.1.	2

Unbilled Items

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



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PRODUCT INFORMATION

Item: 37IM.LEGACY
Item Description: (LEGACY) SBE 37IM MicroCAT
Serial: 37IM20000-0819

Special Notes

Services Requested:
Evaluate/Repair Instrumentation.
Perform Routine Calibration Service.
Replace Antifoulant Device(s).

No problems found.

Services Performed:
Performed initial diagnostic evaluation.
Performed pressure calibration.
Performed "POST" cruise calibration.
Installed NEW AF24173 Anti-foulant cylinder(s).

Item	Item Description	Qty
PCAL37	Extra charge to calibrate SBE 37 pressure channel	1
SERVICE37	Complete External Inspection. Test All Functions. Calibrate C & T, C&P and recal if necessary. Replace end cap O-rings and Hydrostatic pressure test if necessary. Includes typical repairs. (Does not include: Major electronic board replacement. Instruments deemed "Damaged Beyond Repair". Missing/damaged mounts or cables. Upgrades or modifications. Spares or antifoulant replacement.)	1
REPLACEAF	Extra charge to install one antifoulant device, includes one 801542.1.	2

Unbilled Items

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



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PRODUCT INFORMATION

Item: 37IM.LEGACY
Item Description: (LEGACY) SBE 37IM MicroCAT
Serial: 37IM20000-0823

Special Notes

Services Requested:
Evaluate/Repair Instrumentation.
Perform Routine Calibration Service.
Replace Antifoulant Device(s).

No problems found.

Services Performed:
Performed initial diagnostic evaluation.
Performed "POST" cruise calibration.
Installed NEW AF24173 Anti-foulant cylinder(s).

Item	Item Description	Qty
SERVICE37	Complete External Inspection. Test All Functions. Calibrate C & T, C&P and recal if necessary. Replace end cap O-rings and Hydrostatic pressure test if necessary. Includes typical repairs. (Does not include: Major electronic board replacement. Instruments deemed "Damaged Beyond Repair". Missing/damaged mounts or cables. Upgrades or modifications. Spares or antifoulant replacement.)	1
REPLACEAF	Extra charge to install one antifoulant device, includes one 801542.1.	2

Unbilled Items

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



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18-NOV-2019
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PRODUCT INFORMATION

Item: 37IM.LEGACY
Item Description: (LEGACY) SBE 37IM MicroCAT
Serial: 37IM18612-0475

Special Notes

Services Requested:
Evaluate/Repair Instrumentation.
Perform Routine Calibration Service.
Replace Antifoulant Device(s).

No problems found.

Services Performed:
Performed initial diagnostic evaluation.
Performed "POST" cruise calibration.
Installed NEW AF24173 Anti-foulant cylinder(s).

Item	Item Description	Qty
SERVICE37	Complete External Inspection. Test All Functions. Calibrate C & T, C&P and recal if necessary. Replace end cap O-rings and Hydrostatic pressure test if necessary. Includes typical repairs. (Does not include: Major electronic board replacement. Instruments deemed "Damaged Beyond Repair". Missing/damaged mounts or cables. Upgrades or modifications. Spares or antifoulant replacement.)	1
REPLACEAF	Extra charge to install one antifoulant device, includes one 801542.1.	2

Unbilled Items

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



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SERVICE REPORT

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PRODUCT INFORMATION

Item: 37IM.LEGACY
Item Description: (LEGACY) SBE 37IM MicroCAT
Serial: 37IM18612-0471

Special Notes

Services Requested:
Evaluate/Repair Instrumentation.
Perform Routine Calibration Service.
Replace Antifoulant Device(s).

No problems found.

Services Performed:
Performed initial diagnostic evaluation.
Performed "POST" cruise calibration.
Installed NEW AF24173 Anti-foulant cylinder(s).

Item	Item Description	Qty
SERVICE37	Complete External Inspection. Test All Functions. Calibrate C & T, C&P and recal if necessary. Replace end cap O-rings and Hydrostatic pressure test if necessary. Includes typical repairs. (Does not include: Major electronic board replacement. Instruments deemed "Damaged Beyond Repair". Missing/damaged mounts or cables. Upgrades or modifications. Spares or antifoulant replacement.)	1
REPLACEAF	Extra charge to install one antifoulant device, includes one 801542.1.	2

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: 37IM.LEGACY

Item Description: (LEGACY) SBE 37IM MicroCAT

Serial: 37IM21734-1251

Special Notes

Services Requested:

Evaluate/Repair Instrumentation.

Perform Routine Calibration Service.

Replace Antifoulant Device(s).

No problems found.

Services Performed:

Performed initial diagnostic evaluation.

Performed "POST" cruise calibration.

Performed pressure calibration.

Installed NEW AF24173 Anti-foulant cylinder(s).

Item	Item Description	Qty
PCAL37	Extra charge to calibrate SBE 37 pressure channel	1
SERVICE37	Complete External Inspection. Test All Functions. Calibrate C & T, C&P and recal if necessary. Replace end cap O-rings and Hydrostatic pressure test if necessary. Includes typical repairs. (Does not include: Major electronic board replacement. Instruments deemed "Damaged Beyond Repair". Missing/damaged mounts or cables. Upgrades or modifications. Spares or antifoulant replacement.)	1
REPLACEAF	Extra charge to install one antifoulant device, includes one 801542.1.	2

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: 37IM.LEGACY

Item Description: (LEGACY) SBE 37IM MicroCAT

Serial: 37IM20000-0818

Special Notes

Services Requested:

Evaluate/Repair Instrumentation.

Perform Routine Calibration Service.

Replace Antifoulant Device(s).

Problems Found:

The pressure circuit was found to be outside of tolerance. Due to the age and style of sensor, replacement parts (pressure sensor, boardset, etc) are no longer available. Sensor being returned AS-IS. (The temperature and conductivity calibrations were within spec.)



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PRODUCT INFORMATION

Item: 44.LEGACY

Item Description: (LEGACY) SBE 44 Underwater Inductive Modem

Serial: 4438144-0067

Special Notes

Services Requested:

Evaluate/Repair Instrumentation.

No problems found.

Services Performed:

Performed initial diagnostic evaluation.

Item	Item Description	Qty
CONCERT/S	Confirm and recertify sensor including opening the main housing, replacing end cap "piston" o-rings, and making minor internal repairs or modifications. Hydrostatic pressure test following closure. Cost of major repairs or modifications is not included.	1

Unbilled Items

Item	Item Description	Qty



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18-NOV-2019
315793483

PRODUCT INFORMATION

Item: 37IM.LEGACY

Item Description: (LEGACY) SBE 37IM MicroCAT

Serial: 37IM17741-0416

Special Notes

Services Requested:

Evaluate/Repair Instrumentation.

Perform Routine Calibration Service.

Replace Antifoulant Device(s).

No problems found.

Services Performed:

Performed initial diagnostic evaluation.

Performed "POST" cruise calibration.

Performed pressure calibration.

Installed NEW AF24173 Anti-foulant cylinder(s).

Item	Item Description	Qty
PCAL37	Extra charge to calibrate SBE 37 pressure channel	1
SERVICE37	Complete External Inspection. Test All Functions. Calibrate C & T, C&P and recal if necessary. Replace end cap O-rings and Hydrostatic pressure test if necessary. Includes typical repairs. (Does not include: Major electronic board replacement. Instruments deemed "Damaged Beyond Repair". Missing/damaged mounts or cables. Upgrades or modifications. Spares or antifoulant replacement.)	1
REPLACEAF	Extra charge to install one antifoulant device, includes one 801542.1.	2

Unbilled Items

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



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315793483

PRODUCT INFORMATION

Item: 37IMP.LEGACY
Item Description: (LEGACY) SBE 37IMP MicroCAT
Serial: 37-12120

Special Notes

Services Requested:
Evaluate/Repair Instrumentation.
Perform Routine Calibration Service.
Replace Antifoulant Device(s).

Problems Found:
Cable mounting piece was found to be missing.

Services Performed:
Performed initial diagnostic evaluation.
Performed "POST" cruise calibration.
Performed pressure calibration.
Installed new cable clamp.
Installed NEW AF24173 Anti-foulant cylinder(s).

Item	Item Description	Qty
PCAL37	Extra charge to calibrate SBE 37 pressure channel	1
SERVICE37	Complete External Inspection. Test All Functions. Calibrate C & T, C&P and recal if necessary. Replace end cap O-rings and Hydrostatic pressure test if necessary. Includes typical repairs. (Does not include: Major electronic board replacement. Instruments deemed "Damaged Beyond Repair". Missing/damaged mounts or cables. Upgrades or modifications. Spares or antifoulant replacement.)	1
235951	MIM uCAT CABLE GUIDE 11.3mm v4	1
REPLACEAF	Extra charge to install one antifoulant device, includes one 801542.1.	2

Unbilled Items

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



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18-NOV-2019

315793483

PRODUCT INFORMATION

Item: 63.LEGACY

Item Description: (LEGACY) SBE 63 Optical Oxygen Sensor

Serial: 63-0765

Special Notes

Services Requested:

Evaluate/Repair Instrumentation.

Perform Routine Calibration Service.

No problems found.

Services Performed:

Performed initial diagnostic evaluation.

Performed "POST" cruise calibration.

Item	Item Description	Qty
CAL_63	SBE 63 dissolved oxygen sensor calibration	1

Unbilled Items

Item	Item Description	Qty



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SERVICE REPORT

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PRODUCT INFORMATION

Item: 37IMP-IDO.LEGACY
Item Description: (LEGACY) SBE 37IMP-IDO MicroCAT
Serial: 37IMP66603-9309

Special Notes

Services Requested:
Evaluate/Repair Instrumentation.
Perform Routine Calibration Service.
Replace Antifoulant Device(s).

No problems found.

Services Performed:
Performed initial diagnostic evaluation.
Performed "POST" cruise calibration.
Performed pressure calibration.
Installed NEW AF24173 Anti-foulant cylinder(s).

Item	Item Description	Qty
PCAL37	Extra charge to calibrate SBE 37 pressure channel	1
SERVICE37	Complete External Inspection. Test All Functions. Calibrate C & T, C&P and recal if necessary. Replace end cap O-rings and Hydrostatic pressure test if necessary. Includes typical repairs. (Does not include: Major electronic board replacement. Instruments deemed "Damaged Beyond Repair". Missing/damaged mounts or cables. Upgrades or modifications. Spares or antifoulant replacement.)	1
REPLACEAF	Extra charge to install one antifoulant device, includes one 801542.1.	2

Unbilled Items

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



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PRODUCT INFORMATION

Item: 43I.LEGACY

Item Description: (LEGACY) SBE 43I Oxygen Sensor

Serial: 43I0719

Special Notes

Services Requested:

Evaluate/Repair Instrumentation.

Perform Routine Calibration Service.

No problems found.

Services Performed:

Performed initial diagnostic evaluation.

Performed "POST" cruise calibration.

Item	Item Description	Qty
CAL_43	SBE 43 dissolved oxygen sensor calibration	1

Unbilled Items

Item	Item Description	Qty