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Service Request Date Sales Order 1005518210 13-JUL-2023 320607658

SERVICE REPORT

CUSTOMER INFORMATION

Name: NOAA - PMEL PACIFIC MARINE ENVIRO LAB

Account: 40299841 DAVID STRAUSZ

DAVID.STRAUSZ@NOAA.GOV

1-206-526-4510

Bill To Address

NOAA - PMEL PACIFIC MARINE ENVIRO LAB 7600 SAND POINT WAY NE SEATTLE,WA,98115,US 1333MJ23FNRMA0011

PO Number:

Ship To Address NOAA - PMEL PACIFIC MARINE ENVIRO LAB 7600 SAND POINT WAY NE SEATTLE,WA,98115,US

PRODUCT INFORMATION

Item: 16P.LEGACY

Item Description: (LEGACY) SBE 16Plus (V1/V2) CT(D)

Serial: 16P29504-4287

Special Notes

Services Requested:

PCAL16 SERVICE16

Problems Found:

Excessive salinity sensor drift was found. Cell cleaning and replatinizing recommended.

Services Performed:

Performed initial diagnostic evaluation.

Replaced the lithium back-up battery(s).

Performed pressure calibration.

Performed "POST" cruise calibration.

Cleaned and replatinized the conductivity cell.

Performed a "Final" Calibration.

Performed complete system check and full diagnostic evaluation.

Installed NEW AF24173 Anti-foulant cylinder(s).

Item	Item Description	Qty
SERVICE16	Confirm / recertify SBE 16/16plus/16plus/2. Complete External Inspection. Test All Functions and input channel responses. Calibrate C & T. C&P and recal if necessary. Replace 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
PCAL16	Charge to calibrate SBE 16/16plus/16plusV2 pressure channel	1



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Item	Item Description	Qty
801542.1	AF24173 ANTI-FOULANT, SINGLE CYLINDER, V2	2
22009	Lithium back-up battery (BR-2/3A-T2SP)	3



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PRODUCT INFORMATION

Item: 16P.LEGACY

Item Description: (LEGACY) SBE 16Plus (V1/V2) CT(D)

Serial: 16P31373-4424

Special Notes Services Requested: SERVICE16

No problems found.

Services Performed:

Performed initial diagnostic evaluation. Performed "POST" cruise calibration.

Performed complete system check and full diagnostic evaluation.

Installed NEW AF24173 Anti-foulant cylinder(s).

Item	Item Description	Qty
SERVICE16	Confirm / recertify SBE 16/16plus/16plusV2. Complete External Inspection. Test All Functions and input channel responses. Calibrate C & T. C&P and recal if necessary. Replace 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

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: 16P60727-6629

Special Notes Services Requested: SERVICE16

No problems found.

Services Performed:

Performed initial diagnostic evaluation. Performed "POST" cruise calibration.

Performed complete system check and full diagnostic evaluation.

Installed NEW AF24173 Anti-foulant cylinder(s).

Item	Item Description	Qty
SERVICE16	Confirm / recertify SBE 16/16plus/16plusV2. Complete External Inspection. Test All Functions and input channel responses. Calibrate C & T. C&P and recal if necessary. Replace 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

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



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SERVICE REPORT

PRODUCT INFORMATION

Item: 16P.LEGACY

Item Description: (LEGACY) SBE 16Plus (V1/V2) CT(D)

Serial: 16P66476-7020

Special Notes Services Requested: SERVICE16

Problems Found:

Corrosion was found on battery bulkhead. Replacement recommended.

Services Performed:

Performed initial diagnostic evaluation.

Replaced battery bulkhead.

Performed "POST" cruise calibration.

Replaced the O-rings.

Performed a hydrostatic pressure test.

Performed complete system check and full diagnostic evaluation.

Installed NEW AF24173 Anti-foulant cylinder(s).

Item	Item Description	Qty
SERVICE16	Confirm / recertify SBE 16/16plus/16plusV2. Complete External Inspection. Test All Functions and input channel responses. Calibrate C & T. C&P and recal if necessary. Replace 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

Item	Item Description	Qty
801542.1	AF24173 ANTI-FOULANT, SINGLE CYLINDER, V2	2
801255	SEACATplus BATTERY BULKHEAD, 9-CELL	1



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PRODUCT INFORMATION

Item: 16P.LEGACY

Item Description: (LEGACY) SBE 16Plus (V1/V2) CT(D)

Serial: 7297

Special Notes Services Requested: SERVICE16

Problems Found:

Excessive salinity sensor drift was found. Cell cleaning and replatinizing recommended.

Services Performed:

Performed initial diagnostic evaluation. Performed "POST" cruise calibration.

Cleaned and replatinized the conductivity cell.

Performed a "Final" Calibration.

Performed complete system check and full diagnostic evaluation.

Installed NEW AF24173 Anti-foulant cylinder(s).

Item	Item Description	Qty
SERVICE16	Confirm / recertify SBE 16/16plus/16plusV2. Complete External Inspection. Test All Functions and input channel responses. Calibrate C & T. C&P and recal if necessary. Replace 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

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: 16P59942-6592

Special Notes Services Requested: SERVICE16

No problems found.

Services Performed:

Performed initial diagnostic evaluation. Replaced the lithium back-up battery(s). Performed "POST" cruise calibration.

Performed complete system check and full diagnostic evaluation.

Installed NEW AF24173 Anti-foulant cylinder(s).

Item	Item Description	Qty
SERVICE16	Confirm / recertify SBE 16/16plus/16plusV2. Complete External Inspection. Test All Functions and input channel responses. Calibrate C & T. C&P and recal if necessary. Replace 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

Item	Item Description	Qty
801542.1	AF24173 ANTI-FOULANT, SINGLE CYLINDER, V2	2
22009	Lithium back-up battery (BR-2/3A-T2SP)	3



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SERVICE REPORT

PRODUCT INFORMATION

Item: 16.LEGACY

Item Description: (LEGACY) SBE 16 CT(D)

Serial: 1611044-1815

Special Notes Services Requested: SERVICE16

Problems Found:

One (1) 6-pin connector had a broken pin. Replacement required.

Excessive salinity sensor drift was found. Cell cleaning and replatinizing recommended.

Services Performed:

Performed initial diagnostic evaluation.

Installed NEW bulkhead connector(s).

Replaced the O-rings.

Performed a hydrostatic pressure test.

Performed "POST" cruise calibration.

Cleaned and replatinized the conductivity cell.

Performed a "Final" Calibration.

Performed complete system check and full diagnostic evaluation.

Installed NEW AF24173 Anti-foulant cylinder.

Item	Item Description	Qty
SERVICE16	Confirm / recertify SBE 16/16plus/16plusV2. Complete External Inspection. Test All Functions and input channel responses. Calibrate C & T. C&P and recal if necessary. Replace 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.	1

Item	Item Description	Qty
17628	Bulkhead connector, 6-pin Standard, AG-306-HP-SS	1
801542.1	AF24173 ANTI-FOULANT, SINGLE CYLINDER, V2	1



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PRODUCT INFORMATION

Item: 37SM.LEGACY

Item Description: (LEGACY) SBE 37SM MicroCAT

Serial: 37SM28082-2341

Special Notes Services Requested: PCAL37 SERVICE37

No problems found.

Services Performed:

Performed initial diagnostic evaluation. Performed pressure calibration.

Performed "POST" cruise calibration.

Performed complete system check and full diagnostic evaluation.

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

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



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SERVICE REPORT

PRODUCT INFORMATION

Item: 37SM.LEGACY

Item Description: (LEGACY) SBE 37SM MicroCAT

Serial: 37SM28082-2329

Special Notes
Services Requested:

SERVICE37

CUSTOMER NOTES: 1679 has a corroded internal power connector and cable that needs to be investigated and repaired

Problems Found:

Excessive temperature drift. Temp probe replacement required.

Excessive salinity sensor drift was found. Cell replacement recommended.

Services Performed:

Performed initial diagnostic evaluation.

Performed "POST" cruise calibration.

Replaced the temperature probe.

Replaced the conductivity cell.

Replaced the O-rings.

Performed a hydrostatic pressure test.

Performed a "Final" Calibration.

Performed complete system check and full diagnostic evaluation.

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

Item	Item Description	Qty
801139	MODULAR MICROCAT COND. CELL TRAY ASSEMBLY	1
801871	MODULAR uCAT TEMP PROBE ASSY, FENWAL /41164A	1
801542.1	AF24173 ANTI-FOULANT, SINGLE CYLINDER, V2	2



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Service Request Date Sales Order 1005518210 13-JUL-2023 320607658

SERVICE REPORT

PRODUCT INFORMATION

Item: 37SM.LEGACY

Item Description: (LEGACY) SBE 37SM MicroCAT

Serial: 37SM-1852

Special Notes

Services Requested:

SERVICE37

CUSTOMER NOTES: 1679 has a corroded internal power connector and cable that needs to be investigated and repaired

Problems Found:

Excessive salinity sensor drift was found. Cell cleaning and replatinizing recommended.

Services Performed:

Performed initial diagnostic evaluation.

Performed "POST" cruise calibration.

Cleaned and replatinized the conductivity cell.

Performed a "Final" Calibration.

Replaced the O-rings.

Performed a hydrostatic pressure test.

Performed complete system check and full diagnostic evaluation.

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

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



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SERVICE REPORT

PRODUCT INFORMATION

Item: 37SM.LEGACY

Item Description: (LEGACY) SBE 37SM MicroCAT

Serial: 37SM29475-2357

Special Notes Services Requested: PCAL37

SERVICE37

Problems Found:

Excessive salinity sensor drift was found. Cell cleaning and replatinizing recommended.

Services Performed:

Performed initial diagnostic evaluation.

Performed pressure calibration.

Performed "POST" cruise calibration.

Cleaned and replatinized the conductivity cell.

Performed a "Final" Calibration.

Replaced the O-rings.

Performed a hydrostatic pressure test.

Performed complete system check and full diagnostic evaluation.

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

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



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Service Request Date Sales Order **1005518210** 13-JUL-2023 320607658

SERVICE REPORT

PRODUCT INFORMATION

Item: 37SM.LEGACY

Item Description: (LEGACY) SBE 37SM MicroCAT

Serial: 37SM25541-1856

Special Notes Services Requested: SERVICE37

CUSTOMER NOTES: 1679 has a corroded internal power connector and cable that needs to be investigated and repaired

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

Item	Item Description	Qty
80982	SBE37SM uCAT BATTERY PYLON ASSY INT PWR 3 PIN	1
801542.1	AF24173 ANTI-FOULANT, SINGLE CYLINDER, V2	2



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SERVICE REPORT

PRODUCT INFORMATION

Item: 37SM.LEGACY

Item Description: (LEGACY) SBE 37SM MicroCAT

Serial: 37SM36048-3762

Special Notes
Services Requested:
PCAL37
SERVICE37

Problems Found:

Excessive salinity sensor drift was found. Cell cleaning and replatinizing recommended.

Services Performed:

Performed initial diagnostic evaluation.

Performed pressure calibration.

Performed "POST" cruise calibration.

Cleaned and replatinized the conductivity cell.

Performed a "Final" Calibration.

Performed complete system check and full diagnostic evaluation.

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

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



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Service Request Date Sales Order 1005518210 13-JUL-2023 320607658

SERVICE REPORT

PRODUCT INFORMATION

Item: 37SM.LEGACY

Item Description: (LEGACY) SBE 37SM MicroCAT

Serial: 37SM26834-2022

Special Notes Services Requested:

SERVICE37

CUSTOMER NOTES: 1679 has a corroded internal power connector and cable that needs to be investigated and repaired

No problems found.

Services Performed:

Performed initial diagnostic evaluation. Performed "POST" cruise calibration.

Performed complete system check and full diagnostic evaluation.

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

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



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Service Request Date Sales Order

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SERVICE REPORT

PRODUCT INFORMATION

Item: 37SM.LEGACY

Item Description: (LEGACY) SBE 37SM MicroCAT

Serial: 37SM36048-3769

Special Notes Services Requested: PCAL37 SERVICE37

Problems Found:

Excessive salinity sensor drift was found. Cell cleaning and replatinizing recommended.

Services Performed:

Performed initial diagnostic evaluation.

Performed pressure calibration.

Performed "POST" cruise calibration.

Cleaned and replatinized the conductivity cell.

Performed a "Final" Calibration.

Replaced the O-rings.

Performed a hydrostatic pressure test.

Performed complete system check and full diagnostic evaluation.

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

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: 37SM28082-2321

Special NotesServices Requested:

SERVICE37

CUSTOMER NOTES: 1679 has a corroded internal power connector and cable that needs to be investigated and repaired

No problems found.

Services Performed:

Performed initial diagnostic evaluation. Performed "POST" cruise calibration.

Performed complete system check and full diagnostic evaluation.

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

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



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SERVICE REPORT

PRODUCT INFORMATION

Item: 37SM.LEGACY

Item Description: (LEGACY) SBE 37SM MicroCAT

Serial: 37SM-2328

Special Notes

Services Requested:

SERVICE37

CUSTOMER NOTES: 1679 has a corroded internal power connector and cable that needs to be investigated and repaired

Problems Found:

Excessive salinity sensor drift was found. Cell cleaning and replatinizing recommended.

Services Performed:

Performed initial diagnostic evaluation.

Performed "POST" cruise calibration.

Cleaned and replatinized the conductivity cell.

Performed a "Final" Calibration.

Replaced the O-rings.

Performed a hydrostatic pressure test.

Performed complete system check and full diagnostic evaluation.

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

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



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SERVICE REPORT

PRODUCT INFORMATION

Item: 37SM.LEGACY

Item Description: (LEGACY) SBE 37SM MicroCAT

Serial: 37SM36048-3767

Special Notes Services Requested: PCAL37

SERVICE37

Problems Found:

Excessive salinity sensor drift was found. Cell replacement recommended.

Services Performed:

Performed initial diagnostic evaluation.

Performed pressure calibration.

Performed "POST" cruise calibration.

Replaced the conductivity cell.

Replaced the O-rings.

Performed a hydrostatic pressure test.

Performed a "Final" Calibration.

Performed complete system check and full diagnostic evaluation.

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

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

PRODUCT INFORMATION

Item: 37SM.LEGACY

Item Description: (LEGACY) SBE 37SM MicroCAT

Serial: 37SM25541-1851

Special Notes
Services Requested:

SERVICE37

CUSTOMER NOTES: 1679 has a corroded internal power connector and cable that needs to be investigated and repaired

Problems Found:

Excessive salinity sensor drift was found. Cell cleaning and replatinizing recommended.

Services Performed:

Performed initial diagnostic evaluation.

Performed "POST" cruise calibration.

Cleaned and replatinized the conductivity cell.

Performed a "Final" Calibration.

Replaced the O-rings.

Performed a hydrostatic pressure test.

Performed complete system check and full diagnostic evaluation.

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

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



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Service Request Date Sales Order 1005518210 13-JUL-2023 320607658

SERVICE REPORT

PRODUCT INFORMATION

Item: 37SM.LEGACY

Item Description: (LEGACY) SBE 37SM MicroCAT

Serial: 37SM25541-1850

Special Notes
Services Requested:

SERVICE37

CUSTOMER NOTES: 1679 has a corroded internal power connector and cable that needs to be investigated and repaired

Problems Found:

Excessive salinity sensor drift was found. Cell cleaning and replatinizing recommended.

Services Performed:

Performed initial diagnostic evaluation.

Performed "POST" cruise calibration.

Cleaned and replatinized the conductivity cell.

Performed a "Final" Calibration.

Replaced the O-rings.

Performed a hydrostatic pressure test.

Performed complete system check and full diagnostic evaluation.

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

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



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Service Request Date Sales Order **1005518210** 13-JUL-2023 320607658

SERVICE REPORT

PRODUCT INFORMATION

Item: 37SM.LEGACY

Item Description: (LEGACY) SBE 37SM MicroCAT

Serial: 37SM-1860

Special Notes

Services Requested:

SERVICE37

CUSTOMER NOTES: 1679 has a corroded internal power connector and cable that needs to be investigated and repaired

Problems Found:

Excessive salinity sensor drift was found. Cell replacement recommended.

Services Performed:

Performed initial diagnostic evaluation.

Performed "POST" cruise calibration.

Replaced the conductivity cell.

Replaced the O-rings.

Performed a hydrostatic pressure test.

Performed a "Final" Calibration.

Performed complete system check and full diagnostic evaluation.

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

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

PRODUCT INFORMATION

Item: 37SM.LEGACY

Item Description: (LEGACY) SBE 37SM MicroCAT

Serial: 37SM26834-2024

Special Notes
Services Requested:

SERVICE37

CUSTOMER NOTES: 1679 has a corroded internal power connector and cable that needs to be investigated and repaired

No problems found.

Services Performed:

Performed initial diagnostic evaluation. Performed "POST" cruise calibration.

Performed complete system check and full diagnostic evaluation.

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

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



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SERVICE REPORT

PRODUCT INFORMATION

Item: 37SM.LEGACY

Item Description: (LEGACY) SBE 37SM MicroCAT

Serial: 37SM28082-2323

Special Notes
Services Requested:

SERVICE37

CUSTOMER NOTES: 1679 has a corroded internal power connector and cable that needs to be investigated and repaired

No problems found.

Services Performed:

Performed initial diagnostic evaluation.

Performed "POST" cruise calibration.

Performed complete system check and full diagnostic evaluation.

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

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



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Service Request Date Sales Order

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SERVICE REPORT

PRODUCT INFORMATION

Item: 37SM.LEGACY

Item Description: (LEGACY) SBE 37SM MicroCAT

Serial: 37SM36048-3764

Special Notes Services Requested: PCAL37 SERVICE37

No problems found.

Services Performed:

Performed initial diagnostic evaluation.

Performed pressure calibration.

Performed "POST" cruise calibration.

Performed complete system check and full diagnostic evaluation.

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

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



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Service Request Date Sales Order 1005518210 13-JUL-2023 320607658

SERVICE REPORT

PRODUCT INFORMATION

Item: PRAWLER.14

Item Description: PRAWLER CTD, PLASTIC, 600DBAR

Serial: 709-0045

Special Notes
Services Requested:
CALPRAWLER
CNCRTPRAWLER
PCALPRAWLER

Problems Found:

Bulkhead connector found to be damaged (bent/smashed pins) and loose. Replacement required. Excessive salinity sensor drift was found. Cell replacement recommended.

Services Performed:

Performed initial diagnostic evaluation.

Performed pressure calibration.

Performed "POST" cruise calibration.

Replaced the conductivity cell.

Installed NEW bulkhead connector(s).

Performed a "Final" Calibration.

Replaced the O-rings.

Performed a hydrostatic pressure test.

Performed complete system check and full diagnostic evaluation.

Installed NEW AF24173 Anti-foulant cylinder(s).

Item	Item Description	Qty
REPLACEAF	Extra charge to install one antifoulant device, includes one 801542.1.	2
CNCRTPRAWLER	CONFIRM AND RE-CERTIFY PRAWLER CTD (FRRF)	1
CALPRAWLER	CALIBRATE PRAWLER CONDUCTIVITY AND TEMPERATUE SENSORS (FRRF)	1
PCALPRAWLER	CALIBRATE PRAWLER PRESSURE SENSOR (FRRF)	1

Item	Item Description	Qty
801542.1	AF24173 ANTI-FOULANT, SINGLE CYLINDER, V2	2
801854	SBE37 V2.5 CONDUCTIVITY CELL ASSEMBLY	1



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Service Request Date Sales Order 1005518210 13-JUL-2023 320607658

PRODUCT INFORMATION

Item: 39.LEGACY

Item Description: (LEGACY) SBE 39 Temperature (Depth) Recorder

Serial: 3936272-1623

Special Notes Services Requested: PCAL39 SERVICE39

CUSTOMER NOTES: No data last deployemnt

No problems found.

Services Performed:

Performed initial diagnostic evaluation.

Performed pressure calibration.

Performed "POST" cruise calibration.

Performed complete system check and full diagnostic evaluation.

Installed NEW main battery(s).

Item	Item Description	Qty
SERVICE39	Complete External Inspection. Test All Functions. Calibrate temperature	1
	channel, 11 points (-1 to 31 deg C). Replace end cap O-rings and	
	Hydrostatic pressure test. Install new batteries. Includes typical repairs.	
	(Does not include: Major electronic board replacement. Instruments	
	deemed "Damaged Beyond Repair". Missing/damaged mounts or cables.	
	Upgrades or modifications. Spares.)	
PCAL39	Extra charge for pressure calibration	1

Item	Item Description	Qty



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SERVICE REPORT

PRODUCT INFORMATION

Item: 39.LEGACY

Item Description: (LEGACY) SBE 39 Temperature (Depth) Recorder

Serial: 39082-0815

Special Notes Services Requested: SERVICE39

CUSTOMER NOTES: Not talking

No problems found.

Services Performed:

Performed initial diagnostic evaluation. Performed "POST" cruise calibration.

Performed complete system check and full diagnostic evaluation.

Installed NEW main battery(s).

Item	Item Description	Qty
SERVICE39	Complete External Inspection. Test All Functions. Calibrate temperature channel, 11 points (-1 to 31 deg C). Replace end cap O-rings and Hydrostatic pressure test. Install new batteries. Includes typical repairs. (Does not include: Major electronic board replacement. Instruments deemed "Damaged Beyond Repair". Missing/damaged mounts or cables. Upgrades or modifications. Spares.)	1

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



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SERVICE REPORT

PRODUCT INFORMATION

Item: 39.LEGACY

Item Description: (LEGACY) SBE 39 Temperature (Depth) Recorder

Serial: 3925210-0561

Special Notes Services Requested: SERVICE39

CUSTOMER NOTES: 1805,1802, and 804 all faile on last deployment

No problems found.

Services Performed:

Performed initial diagnostic evaluation. Performed "POST" cruise calibration.

Performed complete system check and full diagnostic evaluation.

Installed NEW main battery(s).

Item	Item Description	Qty
SERVICE39	Complete External Inspection. Test All Functions. Calibrate temperature channel, 11 points (-1 to 31 deg C). Replace end cap O-rings and Hydrostatic pressure test. Install new batteries. Includes typical repairs. (Does not include: Major electronic board replacement. Instruments deemed "Damaged Beyond Repair". Missing/damaged mounts or cables. Upgrades or modifications. Spares.)	1

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



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SERVICE REPORT

PRODUCT INFORMATION

Item: 39.LEGACY

Item Description: (LEGACY) SBE 39 Temperature (Depth) Recorder

Serial: 3965436-5287

Special Notes Services Requested: SERVICE39

CUSTOMER NOTES: Has broken connector

Problems Found:

The bulkhead connector was found to be damaged: Replacement required.

Services Performed:

Performed initial diagnostic evaluation. Installed NEW bulkhead connector(s). Performed "POST" cruise calibration.

Replaced the O-rings.

Performed a hydrostatic pressure test.

Performed complete system check and full diagnostic evaluation.

Installed NEW main battery(s).

Item	Item Description	Qty
SERVICE39	Complete External Inspection. Test All Functions. Calibrate temperature channel, 11 points (-1 to 31 deg C). Replace end cap O-rings and Hydrostatic pressure test. Install new batteries. Includes typical repairs. (Does not include: Major electronic board replacement. Instruments deemed "Damaged Beyond Repair". Missing/damaged mounts or cables. Upgrades or modifications. Spares.)	1

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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SERVICE REPORT

PRODUCT INFORMATION

Item: 39.LEGACY

Item Description: (LEGACY) SBE 39 Temperature (Depth) Recorder

Serial: 3936048-1637

Special Notes Services Requested: SERVICE39

CUSTOMER NOTES: 1805,1802, and 804 all faile on last deployment

No problems found.

Services Performed:

Performed initial diagnostic evaluation.

Performed pressure calibration.

Performed "POST" cruise calibration.

Performed complete system check and full diagnostic evaluation.

Installed NEW main battery(s).

Item	Item Description	Qty
SERVICE39	Complete External Inspection. Test All Functions. Calibrate temperature channel, 11 points (-1 to 31 deg C). Replace end cap O-rings and Hydrostatic pressure test. Install new batteries. Includes typical repairs. (Does not include: Major electronic board replacement. Instruments deemed "Damaged Beyond Repair". Missing/damaged mounts or cables. Upgrades or modifications. Spares.)	1
PCAL39	Extra charge for pressure calibration	1

Item	Item Description	Qty



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SERVICE REPORT

PRODUCT INFORMATION

Item: 39.LEGACY

Item Description: (LEGACY) SBE 39 Temperature (Depth) Recorder

Serial: 3939602-1773

Special Notes Services Requested: SERVICE39

CUSTOMER NOTES: Broken power pin

Problems Found:

The bulkhead connector was found to be damaged: Replacement required.

Services Performed:

Performed initial diagnostic evaluation. Installed NEW bulkhead connector(s). Performed "POST" cruise calibration.

Replaced the O-rings.

Performed a hydrostatic pressure test.

Performed complete system check and full diagnostic evaluation.

Installed NEW main battery(s).

Item	Item Description	Qty
SERVICE39	Complete External Inspection. Test All Functions. Calibrate temperature channel, 11 points (-1 to 31 deg C). Replace end cap O-rings and Hydrostatic pressure test. Install new batteries. Includes typical repairs. (Does not include: Major electronic board replacement. Instruments deemed "Damaged Beyond Repair". Missing/damaged mounts or cables. Upgrades or modifications. Spares.)	1

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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SERVICE REPORT

PRODUCT INFORMATION

Item: 39.LEGACY

Item Description: (LEGACY) SBE 39 Temperature (Depth) Recorder

Serial: 3944807-3775

Special Notes Services Requested: PCAL39 SERVICE39

No problems found.

Services Performed:

Performed initial diagnostic evaluation.

Performed pressure calibration.

Performed "POST" cruise calibration.

Performed complete system check and full diagnostic evaluation.

Installed NEW main battery(s).

Item	Item Description	Qty
SERVICE39	Complete External Inspection. Test All Functions. Calibrate temperature channel, 11 points (-1 to 31 deg C). Replace end cap O-rings and Hydrostatic pressure test. Install new batteries. Includes typical repairs. (Does not include: Major electronic board replacement. Instruments deemed "Damaged Beyond Repair". Missing/damaged mounts or cables. Upgrades or modifications. Spares.)	1
PCAL39	Extra charge for pressure calibration	1

Item	Item Description	Qty



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SERVICE REPORT

PRODUCT INFORMATION

Item: 39.LEGACY

Item Description: (LEGACY) SBE 39 Temperature (Depth) Recorder

Serial: 3939602-1805

Special Notes Services Requested: SERVICE39

CUSTOMER NOTES: 1805,1802, and 804 all faile on last deployment

Problems Found:

Communication intermittent during calibration. Need wiring inspected.

Services Performed:

Performed initial diagnostic evaluation. Reworked/repaired internal connector wiring.

Performed pressure calibration. Performed "POST" cruise calibration.

Performed complete system check and full diagnostic evaluation.

Installed NEW main battery(s).

Item	Item Description	Qty
SERVICE39	Complete External Inspection. Test All Functions. Calibrate temperature channel, 11 points (-1 to 31 deg C). Replace end cap O-rings and Hydrostatic pressure test. Install new batteries. Includes typical repairs. (Does not include: Major electronic board replacement. Instruments deemed "Damaged Beyond Repair". Missing/damaged mounts or cables. Upgrades or modifications. Spares.)	1
PCAL39	Extra charge for pressure calibration	1

Item	Item Description	Qty



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PRODUCT INFORMATION

Item: ECO.LEGACY

Item Description: (LEGACY) ECO Single Channel

Serial: FLSB-3072

Special Notes Services Requested: SRVECOSINGLE

Diagnosis: Evaluated instrument (FLSB-3072) and found was out of spec.

Repairs and Modifications: Standard service performed.

Comments: New Device file and characterization sheets included.

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 hard copy and CD.

Item	Item Description	Qty
SRVECOSINGLE	Standard service includes evaluation, minor repairs, firmware updates, board modifications, calibration, and testing. This pricing does not include major repairs or shipping costs. Any additional repairs that are not listed will be quoted on an individual basis and provided with a revised service order after the technician examines the instrument.	1

Item	Item Description	Qty



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SERVICE REPORT

PRODUCT INFORMATION

Item: ECO.LEGACY

Item Description: (LEGACY) ECO Single Channel

Serial: FLSB-3048

Special Notes Services Requested: SRVECOSINGLE

ECO Calibration and Repairs

Diagnosis:

Evaluated instrument (FLSB-3048) and found it was out of spec.

Repairs and Modifications:

Retuned and standard service performed.

Comments:

New Device file and characterization sheets included.

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
SRVECOSINGLE	Standard service includes evaluation, minor repairs, firmware updates, board modifications, calibration, and testing. This pricing does not include major repairs or shipping costs. Any additional repairs that are not listed will be quoted on an individual basis and provided with a revised service order after the technician examines the instrument.	1

Item	Item Description	Qty



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SERVICE REPORT

PRODUCT INFORMATION

Item: ECO.LEGACY

Item Description: (LEGACY) ECO Single Channel

Serial: FLSB-659

Special Notes Services Requested: SRVECOSINGLE

ECO Calibration and Repairs

Diagnosis:

Evaluated instrument (FLSB-659) and found was out of spec.

Repairs and Modifications: Standard service performed.

Comments:

New Device file and characterization sheets included.

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 hard copy and CD.

Item	Item Description	Qty
SRVECOSINGLE	Standard service includes evaluation, minor repairs, firmware updates, board modifications, calibration, and testing. This pricing does not include major repairs or shipping costs. Any additional repairs that are not listed will be quoted on an individual basis and provided with a revised service order after the technician examines the instrument.	1

Item	Item Description	Qty



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SERVICE REPORT

PRODUCT INFORMATION

Item: ECO.LEGACY

Item Description: (LEGACY) ECO Single Channel

Serial: FLSB-1838

Special NotesServices Requested:
SRVECOSINGLE

ECO Calibration and Repairs

Diagnosis:

Evaluated instrument (FLSB-1838) and found it was out of spec.

Repairs and Modifications:

Retuned and standard service performed including new processor and bulkhead replacement.

Comments:

New Device file and characterization sheets included.

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
SRVECOSINGLE	Standard service includes evaluation, minor repairs, firmware updates, board modifications, calibration, and testing. This pricing does not include major repairs or shipping costs. Any additional repairs that are not listed will be quoted on an individual basis and provided with a revised service order after the technician examines the instrument.	1

Item	Item Description	Qty



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SERVICE REPORT

PRODUCT INFORMATION

Item: ECO.LEGACY

Item Description: (LEGACY) ECO Single Channel

Serial: FLSB-1796

Special NotesServices Requested:
SRVECOSINGLE

ECO Calibration and Repairs

Diagnosis:

Evaluated instrument (FLSB-1796) and found was out of spec.

Repairs and Modifications: Standard service performed.

Comments:

New Device file and characterization sheets included.

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
SRVECOSINGLE	Standard service includes evaluation, minor repairs, firmware updates, board modifications, calibration, and testing. This pricing does not include major repairs or shipping costs. Any additional repairs that are not listed will be quoted on an individual basis and provided with a revised service order after the technician examines the instrument.	1

Item	Item Description	Qty



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SERVICE REPORT

PRODUCT INFORMATION

Item: ECO-DUAL.LEGACY

Item Description: (LEGACY) ECO Dual Channel

Serial: FLNTUSB-4877

Special Notes Services Requested: SRVECODUAL

ECO Calibration and Repairs

Diagnosis:

Evaluated instrument (FLNTUSB-4877) and found it was out of spec.

Repairs and Modifications:

Retuned and standard service performed.

Comments:

New Device file and characterization sheets included.

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
SRVECODUAL	Standard service includes evaluation, minor repairs, firmware updates, board modifications, calibration, and testing. This pricing does not include major repairs or shipping costs. Any additional repairs that are not listed will be quoted on an individual basis and provided with a revised service order after the technician examines the instrument.	1

Item	Item Description	Qty



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Item: ECO-DUAL.LEGACY

PRODUCT INFORMATION

Item Description: (LEGACY) ECO Dual Channel

Serial: FLNTUSB-2164

Special Notes Services Requested: SRVECODUAL

ECO Calibration and Repairs

Diagnosis:

Evaluated instrument (FLNTUSB-2164) and found was out of spec.

Repairs and Modifications: Standard service performed.

Comments:

New Device file and characterization sheets included.

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
SRVECODUAL	Standard service includes evaluation, minor repairs, firmware updates, board modifications, calibration, and testing. This pricing does not include major repairs or shipping costs. Any additional repairs that are not listed will be quoted on an individual basis and provided with a revised service order after the technician examines the instrument.	1

Item	Item Description	Qty



13431 NE 20th Street Bellevue, WA 98005 United States Phone +1-425-643-9866

www.seabird.com

Service Request Date Sales Order 1005518210 13-JUL-2023 320607658

SERVICE REPORT

PRODUCT INFORMATION

Item: ECO-DUAL.LEGACY

Item Description: (LEGACY) ECO Dual Channel

Serial: FLNTUS-4315

Special Notes Services Requested: SRVECODUAL

ECO Calibration and Repairs

Diagnosis:

Evaluated instrument (FLNTUS-4315) and found it was out of spec.

Repairs and Modifications:

Retuned and standard service performed.

Comments:

New Device file and characterization sheets included.

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
SRVECODUAL	Standard service includes evaluation, minor repairs, firmware updates, board modifications, calibration, and testing. This pricing does not include major repairs or shipping costs. Any additional repairs that are not listed will be quoted on an individual basis and provided with a revised service order after the technician examines the instrument.	1

Item	Item Description	Qty