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SBE P/N 50107

DATE	SYM	REVISION RECORD	AUTH	DR	CHK

SBE21 Thermosalinograph Spares Kit

Kit Contents

SBE P/N	Manufacturer P/N	Primary SBE Application	QTY
17628	Connector, 6-pin bulkhead	Replacement bulkhead for sensor I/O	1
17653	Connector, 3-pin bulkhead	Replacement bulkhead for sensor I/O	1
17654	Connector, 4-pin bulkhead	Replacement bulkhead for CTD I/O	1
30384	Tygon Tubing, 7/16 OD, 1/16 wall	Storage hose for conductivity cell	2 ft
30411	Triton X-100	Concentrated cleaning and storage solution for cells	500 mL
30457	Parker Super-O Lubricant	Standard Silicon based lubricant for o-rings	1 tube
50106	SBE 21 O-ORing/Hardware Kit	Spare O-Rings and hardware for SBE 21 Systems	1

A. Bulkhead connector replacement

1. Use crescent wrench to removing existing bulkhead connector.
2. Make sure you preserve the Molex connector, as you will need it as a model. *If the Molex has more than 3 pins, you will need to cut it off to remove the wiring.*
3. Run a 1/2-20 tap through the bulkhead socket top clear the threads of Loctite or other residue.
4. Apply a thin coat of Loctite Primer (*recommend Loctite 7471 in a spray can*) to the threads of the new connector.
5. Allow primer about 3-5 minutes to dry.
6. Apply Loctite (*recommend Loctite 242*) to the 1st 2 threads of the bulkhead connector
7. Thread connector into socket, and tighten hand tight with a crescent wrench.

B. Cell cleaning and storage

1. Flush cell for a few minutes in warm to hot water to rinse it clean.
2. If cell is particularly dirty use a solution of Triton and hot water and a pump to allow cell to flush continuously a few minutes in the solution.
 - a. Solution should be mixed to about .5% by volume.
 - b. It may be mixed up to about 2% for the worst instances, but must be kept hot.
 - c. You need to mix Triton with hot water, as it is a very viscous substance.
3. Use the provided soaker hose (30384) to store cell.
 - a. Mix about .5% solution of Triton and fill soaker hose as you install it onto both cell ends.

C. O-Ring Replacement

1. Use a **plastic** spatula or dull tool to pry out old o-ring.
2. Be extra careful not to scratch o-ring seating surfaces.
3. Clean out seating surfaces with a Kim wipe, or other static free towelette.
4. Use a clean small brush to apply a thin coat of Parker Super-O onto all seating surfaces.
5. Visually inspect the o-ring for cracks or scratches. *If you see some, do not use the o-ring.*
6. Use clean fingers to rub Super-O onto the o-ring.
7. At the same time, you will be able to feel any textural variations on the material. *If you feel some, do not use the o-ring.*
8. Install o-ring into seating surface carefully, making sure it does not rub against any other parts in the process.

Sea-Bird Electronics Procedure

PROCEDURE NUMBER: 67060

TITLE: SBE21 Seaspares Kit

REVISION:

EFFECTIVE DATE: 11/20/2001

CHECKED BY:

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