



SEA-BIRD ELECTRONICS, INC.

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SBE P/N 50072

DATE	SYM	REVISION RECORD	AUTH	DR	CHK
9.30.02	A	New PN for Battery Cover Plate	CB	KLP	
6.17.03	B	New Data I/O Cable for all Seacats	CB	MJ	
2.18.04	C	New Battery Cover PCB	CB	KLP	

SBE Seacat Spares Support Kit

KIT CONTENTS

SBE P/N	Manufacturer P/N	Primary SBE Application	QTY
17046.1	4 pin female dummy with lock cap	Dummy plug for 4 pin bulkhead connector	1
17047.1	6 pin female dummy with lock cap	Dummy plug for 6 pin bulkhead connector	1
17628	6 pin bulkhead connector	6 pin spare bulkhead connector	1
17654	4 pin bulkhead connector	4 pin spare bulkhead connector	1
30044	Seacat anode	Anode for Aluminum Seacat endcap or cell guard	2
30384	Tygon tubing, 7/16 x 3/8"	Seacat conductivity cell soaker hose	2 ft
30388	Vinyl tube, 3/4" x 1/2"	Main sensor plumbing tubing	7 ft
30409	Teflon Tape	Tape for insides of hose clamps	7 ft
30411	Triton X100, 500ml	Triton solution for cell cleaning	1 bottle
30457	Parker O-Lube	O-Ring Lubricant	1 tube

CABLES

SBE P/N	Part Description	Primary SBE Application	QTY
801225	Cable, Profiler data I/O, DB-9s	Spare data I/O cable for 4 pin Seacat connectors	1

SUB-ASSEMBLIES

SBE P/N	Part Description	Primary SBE Application	QTY
50026	Profiler Magnetic switch Assembly	On-Off Switch for Profilers	1
50029	Pressure sensor Capillary Assembly	Spare capillary for pressure sensor	1
41124A	Seacat Battery Cover Plate	Spare cover plate for Battery compartment	1

OTHER KITS

SBE P/N	Manufacturer P/N	Primary SBE Application	QTY
50240	SBE 16/19 Small Hardware Spares	Refer to SBE PN 50240 Specific Kit Document	1
50012	SBE 16/19 Spare O-Rings	Refer to SBE PN 50012 Specific Kit Document	1
50025	Pressure Sensor Oil Refill Kit	Refer to SBE PN 50025 Specific Kit Document	1
50087	TC Duct Cell Filling & Storage Kit	Refer to SBE PN 50087 Specific Kit Document	1

SBE DRAWING: 41223

TITLE: Inertia-balanced Plumbing Configuration

Sea-Bird Electronics Procedure

PROCEDURE NUMBER: 67017

TITLE: **SBE Seacat Spares Support Kit**

REVISION: C

EFFECTIVE DATE: 02/18/2004

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APPLICATIONS:

Application	SBE P/N	Description	Customer Instructions
Replacement bulkhead connectors	17628, 17654	6 pin, 4 pin	A. installing Bulkhead connector
Replacement Seacat Anodes	30044	Seacat anode	B. Replacing Anodes
Replacement capillary	50029	Pressure Sensor Capillary Assembly	C. Installing Capillary
Replacement switch	50026	Profiler Magnetic Switch Assembly	D. Installing a new switch
Replacement Battery Cover	80076.1	Battery Cover Plate	Use 30145 screws, 30242 washers

A. Installing Bulkhead Connectors

1. Remove old bulkhead, and re-tap hole with ½-20 tap to clean surfaces.
2. Apply Loctite primer to hole. Twist wires on bulkhead while primer dries.
3. Apply Loctite to 1st 2 threads only of bulkhead, and screw into place. Use a crescent wrench to insure that bulkhead is very tight.

B. Replacing Anodes.

1. In some cases, the old anode will need to be drilled out.
2. Always re-tap the hole with a 12-28 tap.
3. Inject DC-4 and never-seez into hole, and thread new anode into place.
4. Make sure anodes have an internal tooth washer, PN 30414 and a nut if needed (PN 30408).
5. Tighten anodes as far as you can with breaking the washer.

C. Installing Capillary

1. Use a 9/16 box wrench to remove bad capillary.
2. Install new capillaries with a 7/16" hollow core Nutdriver. Tighten capillary slowly.
3. Capillary is secure when lower nut moves slightly in accordance with upper nut.

D. Installing a new Switch

1. New switch comes complete and assembled.
2. Remove old switch, remove screws from new switch and install new switch in its place
3. ON should face toward the battery endcap.
4. Inside the cell guard, magnet be in position directly opposite the 'ON', and beveled edge should face the cell.

E. Replacing Sensor Plumbing

1. Use the larger diameter plumbing (30388) for all plumbing applications.
 - a. Route sensor plumbing along as linear as possible a pattern.
 - b. Refer to included graphic for an idea of how to plumb a standard CTD system.
2. Use the smaller diameter plumbing (30384) to properly store the cell.
 - a. Mix about 1%-3% Triton solution in HOT water.
 - b. Use tubing at about 1 foot lengths to form a soaker hose around cell, and fill this most of the way with the Triton solution.
 - c. NEVER SHIP ANY CELLS WITH SOAKER HOSES FULL OF ANY FLUIDS.

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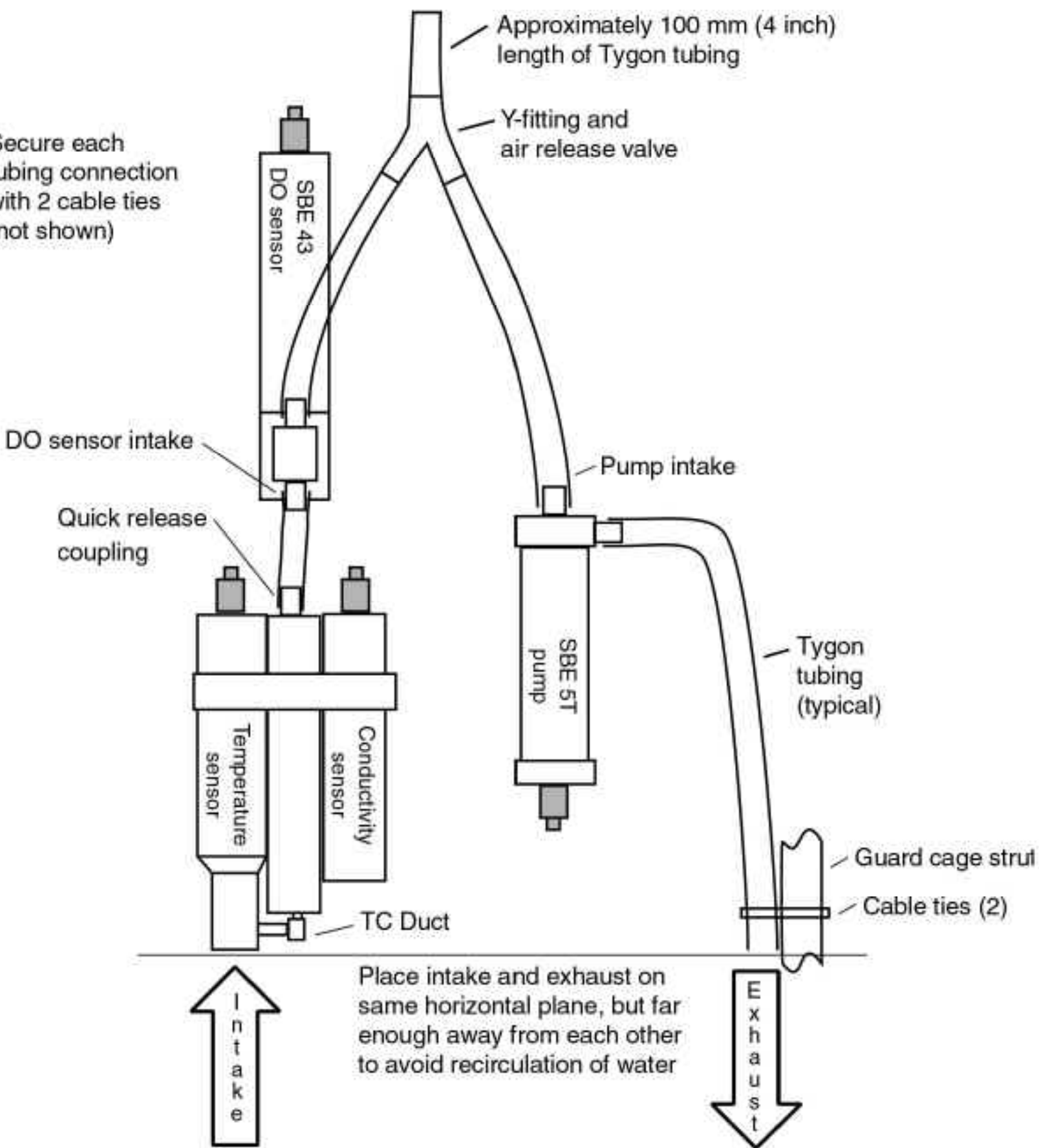
TITLE: **SBE Seacat Spares Support Kit**

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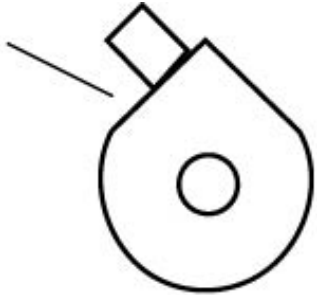
EFFECTIVE DATE: 02/18/2004

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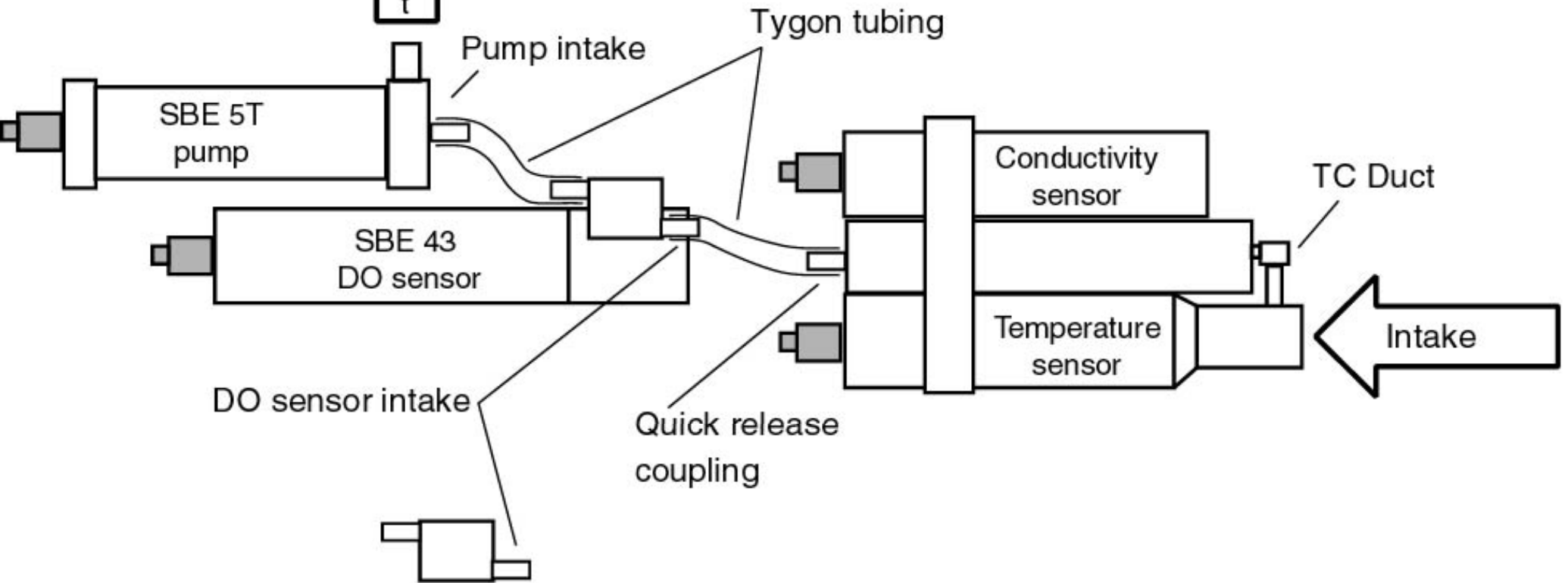
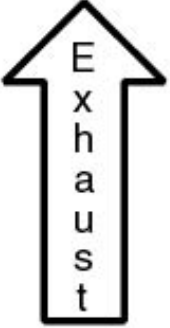
Secure each tubing connection with 2 cable ties (not shown)



Place pump exhaust above intake and DO sensor, with exhaust outlet 'corner' up



Secure each tubing connection with 2 cable ties (not shown)



Place DO sensor with exhaust above intake, oriented as shown ($\pm 45^\circ$)