

**SEA -BIRD ELECTRONICS, INC.**

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SBE P/N 50014

DATE	SYM	REVISION RECORD	AUTH	DR	CHK

**SBE 13-02B DO O-Ring Spares Kit***Kit Contents*

SBE P/N	Manufacturer P/N	Primary SBE Application	QTY
24019	Sensor Medics 868080	Beckman Oxygen Oil Seal Screw	1
30072	Parker 2-017N674-70	Bulkhead Connector	1
30074	Parker 2-022N674-70	Beckman Oxygen Sensor Seal	2
30081	Parker 18mm x 4mm x 70 Duro	Beckman Oxygen Pressure Balance	1
30082	Parker 2-213N674-70	Beckman Oxygen Receptacle - End Cap	1
30439	Bellofram 3-50-38-BBJ	Beckman Oxygen Pressure Diaphragm	1
30806	L-Seal LS-021	Sensor End Cap-Housing (6800m)	1
231004	Backup ring for LS021	Backup 30806, faces to inside of sensor	1

**APPLICATIONS:***Sensor Assembly*

Application	SBE P/N	Part Placement
Bulkhead Connector	30072	Interface between bulkhead connector and housing
Sensor End Cap-Housing, 6800m	30806	O-ring placed into endcap groove with backup ring to provide watertight seal
Backup 30806, faces to inside of sensor	231004	Placed into endcap groove with o-ring

*Housing Assembly*

Application	SBE P/N	Part Placement
Beckman Oxygen Oil Seal Screw	24019	Fills seal screw hole in sensor housing
Beckman Oxygen Sensor Seal	30074	(1) installed in the groove of the sensor housing, (1) placed around DO sensor
Beckman Oxygen Pressure Balance	30081	O-ring inserted into sensor housing over the receptacle (replaces factory o-ring)
Beckman Oxygen Receptacle - End Cap interface	30082	Replaces factory supplied O-Ring beneath Oxygen receptacle
Beckman Oxygen Pressure Diaphragm	30439	Diaphragm mounted on outside of sensor housing, placed in center of cut-out in housing

Parent Part Number: 50014SBE Drawings:

67031 Beckman DO Sensor Assembly

**Sea-Bird Electronics Procedure**

PROCEDURE NUMBER: 67012

TITLE: **SBE13-02B DO O-Ring Spares Kit**

REVISION:

EFFECTIVE DATE: 03/20/2001

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### Kit Assembly

#### A. General Guidelines For O-Ring Replacement

1. Remove the old O-Ring
  - a. Use a plastic spatula, or other NON-ABRASIVE, soft tool to pry in underneath.
  - b. Pull back until O-Ring stretches out of its groove, and cut it. Make sure not to scratch the seating surface.
  - c. Discard old O-Ring immediately to insure it does not get accidentally reused.
2. Installing the new O-Ring
  - a. Inspect O-Ring thoroughly, insuring it is completely free of all dust and debris before applying any lubricant. *Never clean with any abrasive material.*
  - b. Lubricate O-Ring lubricant. This should be a **silicone-based lubricant**. *Never use petroleum based lubricants on any SBE O-Rings.*
  - c. Slip O-Ring into seating groove. *If you must slide O-Ring over boards or any sharp edges, use a smooth plastic tool as a liner.*
  - d. Always close and seal the sensor as soon as possible after replacing an O-Ring or L-Seal.
  - e. Always clean and lubricate an O-Ring or L-Seal and it's seating surfaces thoroughly before installing.

Parent Part Number: 50014

SBE Drawings:

**67031** Beckman DO Sensor Assembly

#### **Sea-Bird Electronics Procedure**

PROCEDURE NUMBER: **67012**

TITLE: **SBE13-02B DO O-Ring Spares Kit**

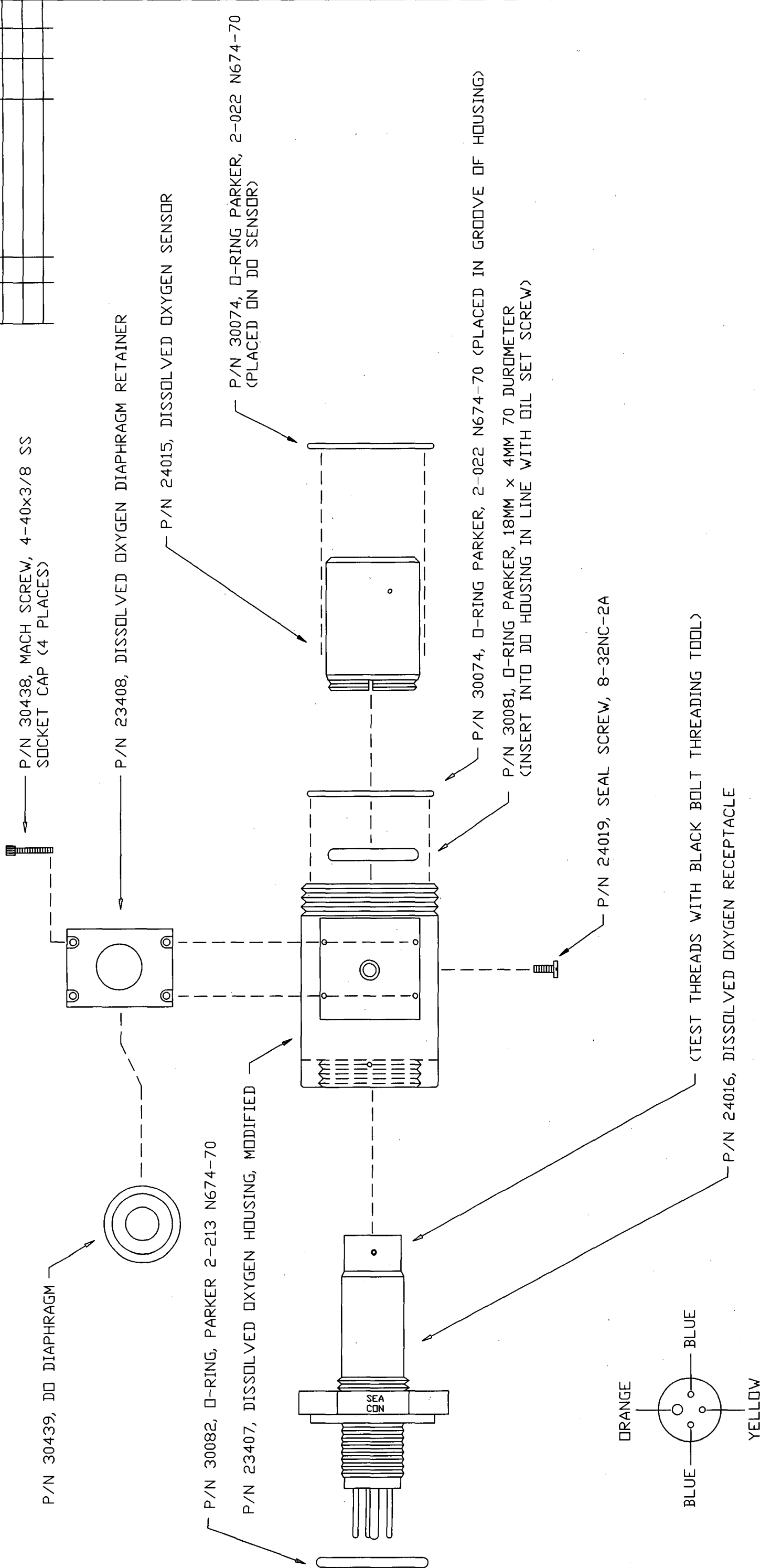
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CONNECTOR WIRING DIAGRAM

TOLERANCES	SEA-BIRD ELECTRONICS, INC		
FRACTIONAL	P/N	SCALE NTS	DRAWN BY CEG
DECIMAL	TITLE BECKMAN DISSOLVED OXYGEN SENSOR ASSEMBLY		
ANGULAR	DATE 4.14.98	DRAWING NUMBER 67031	REV

*Handwritten signature*