



## SEA-BIRD ELECTRONICS, INC.

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SBE P/N 60043

DATE	REV	REVISION RECORD	AUTH	DR	CHK
7.22.05	A	Clarified battery replacement	CB	KLP	
10/14	B	CHANGE O-RING FROM 31274	CB	CB	

### SBE 39IM Standard Spares Kit

#### Kit Contents

SBE P/N	Part Description	Primary SBE Application	QTY
31018	O-ring, Parker 2-029 N674-70	Pressure/Temperature endcap o-rings	4
31332	O-ring, Parker 2-028 NAS1611-028A	IM endcap o-rings	4
60039	SBE39 Desiccant Packs, 1gm- 25 ea	Replace Desiccant bag every time you open the sensor	1 can

### Procedure for SBE 39IM

#### A. REPLACING THE BATTERY

##### WARNING:

*Due to the possible buildup of pressure in the sensor ALWAYS remove the coupler endcap first and DO NOT have it pointing toward yourself or any one else during removal.*

1. Remove the two screws holding the endcap on.
2. Pull the endcap out slowly until you have enough room to reach in and disconnect the wire running from the endcap inside to the PCB.
3. Disconnect the wire from the PCB by removing the connector from the boardset.
4. Unscrew the sensor endcap.
5. Carefully pull the SBE39IM sensor assembly out of the housing.
6. Remove the 4-40 screw holding the Battery Holder to the boardset
7. Hold the battery connector plates with your thumb while replacing 9V battery.
8. Reinstall the Battery Holder to the boardset.
9. Carefully screw the sensor endcap back in.
10. Backfill the sensor with Argon or another Noble gas if available.
11. Reattach the connector from the coupler endcap to the PCB.
12. Install a new desiccant bag, and reseal the can.
13. Replace the coupler endcap and secure with screws.
  - a. Make sure there are no stray parts or wires caught by the endcap as you close the sensor.

#### B. REPLACING THE O-RINGS

1. Remove the old o-ring
  - a. Use a plastic spatula, or other NON-ABRASIVE, soft material to pry in underneath o-ring.
  - b. Pull back so o-ring stretches out of its groove, and cut it. Make sure not to scratch the o-ring seating surface.
  - c. Discard of old o-ring immediately to insure they do not get accidentally reused.
2. Installing the new o-Ring
  - a. Make sure o-ring is free of all dust and debris before applying any lubricant. Never clean with any abrasive material.
  - b. Lubricate o-ring with o-ring lubricant. This should be a silicone-based lubricant. Never use petroleum based lubricants on any SBE o-rings.

#### Sea-Bird Electronics Procedure

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- c. Slip o-ring over end cap and into the o-ring groove.
  - d. Always close and seal the sensor as soon as possible after replacing an o-ring.
  - e. Always clean and lubricate an o-ring before installing it.
3. Install a new desiccant bag, and reseal the can.

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