



# SEA-BIRD ELECTRONICS, INC.

1808 136th Place N.E., Bellevue, Washington 98005 USA

Telephone: (425) 643-9866 Telex: 292915 SBEI UR

Fax: (425) 643-9954

email: seabird@seabird.com

SBE P/N 50062

DATE	REV	REVISION RECORD	AUTH	DR	CHK
02.99	A	Add Drawing, reformat document	MJ	CEG	
07.13.04	B	Changed Descriptions for Impeller and Pump Head o-rings	ET	KLP	
03.17.06	C	Add Thrust Washer, PN 30095	CB	MJ	
06.04.07	D	ECN 1096: Universal external pump housing O-ring kit	PC	PC	

## SBE 5M / 5P / 5T Pump Housing O-Ring Kit

### KIT CONTENTS

SBE P/N	Manufacturer P/N	Primary SBE Application	QTY
30010	Pump Thrust Washer, 115-033-10	Thrust Washer for Pump Impeller	2
30082	Parker O-Ring, 2-213 N674-70	Connector Endcap O-Ring for 5T	1
30095	Parker O-Ring, 2-002 N674-70	Pump Impeller O-Ring	1
30571	Parker O-Ring, 2-124 N674-70	Pump Head O-Ring	1
31011	Parker O-Ring, 2-026 N674-70	Impeller Endcap O-Ring for 5M / 5P	1

## Pump Housing O-Ring Replacement

### A. General O-Ring Installation

- O-rings must be cleaned and lubricated with Silicone-Based lubricant before installing.
- Never use petroleum-based lubricant.
- Never clean an o-ring with any type of abrasive material.
- Always inspect all o-rings and o-ring surfaces for scratches or dirt before installation.

### B. Pump Impeller O-Ring and Thrust Washer (30095, 30010)

- Install one of the thrust washers (30010) onto the shaft.
- The Impeller should then be slid down all the way onto the shaft, followed by the second thrust washer (30010).
- Secure the fixture into place with the pump impeller o-ring (30095).
  - Do not put any lubricate on this o-ring.

### C. Pump Head O-Ring (30571)

- Lube the o-ring groove (on housing for 5T, on impeller endcap for 5M/5P) and Pump Head O-Ring (30571).
- Install the o-ring into the o-ring groove.
- Press the o-ring as tightly as possible into the groove.
- Backthread the pump head (23593) over the O-Ring until both are firmly seated and then thread the pump head hand tight onto the housing.

### D. Connector Endcap O-Ring (30082)

- Lubricate the o-ring and o-ring groove, as well as the housing seating surface with o-ring lubricant.
- Install the o-ring by carefully sliding it completely over the bulkhead connector.
- Next, use a plastic spatula to pry the o-ring over the endcap into its groove.

SBE DRAWING: 67029.02

TITLE: 5M/5P/5T Pump Housing O-Ring Kit

### Sea-Bird Electronics Procedure

PROCEDURE NUMBER: 67029

TITLE: SBE 5M/5P/5T Pump Housing O-Ring Kit

REVISION: D

EFFECTIVE DATE: 03/17/2006

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### E. Impeller Endcap O-Ring (31011)

1. Lubricate the o-ring and o-ring groove, as well as the housing seating surface with o-ring lubricant.
2. Install the o-ring into the o-ring groove furthest from the impeller side of the endcap.

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REVISION: **D**

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REVISIONS

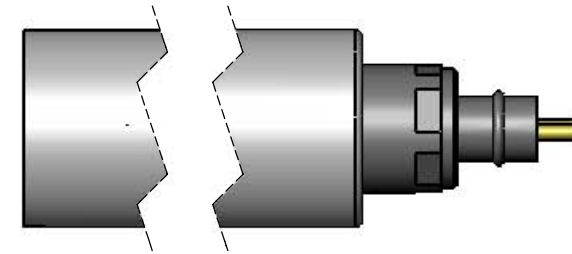
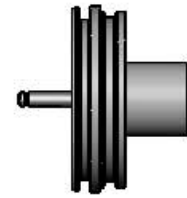
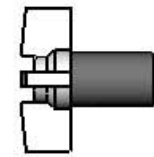
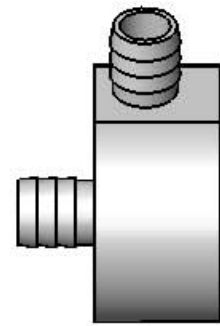
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	.01	Migrate to SolidWorks and add pump thrust washers.	03/20/2006	KHH
	.02	ECN 1096: Universal external pump housing O-ring kit.	06/04/2007	PC

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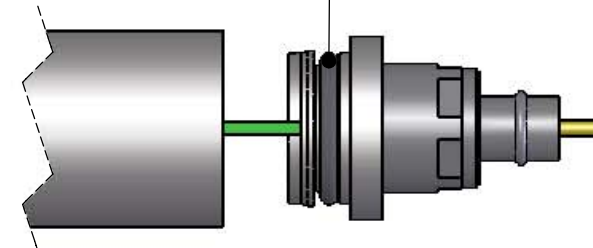
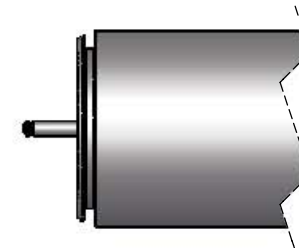
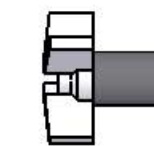
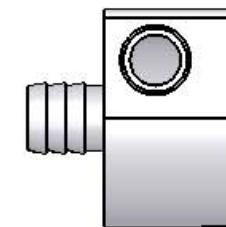
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5M / 5P



5T

C

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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	30010	Pump Thrust Washer, March #115-033-10	2
2	30082	O-ring, Parker 2-213 N674-70	1
3	30095	O-ring, Parker 2-002 N674-70	1
4	30571	O-ring, Parker 2-124 N674-70	1
5	31011	O-ring, Parker 2-026 N674-70	1

UNLESS OTHERWISE SPECIFIED:		NAME	DATE	SEA-BIRD ELECTRONICS, INC.	
DIMENSIONS ARE IN INCHES		DRAWN	PC	1808 - 136th PLACE NE, BELLEVUE, WA 98005	
TOLERANCES:		06/04/07		425-643-9866	
FRACTIONAL ±		PROPRIETARY AND CONFIDENTIAL		TITLE:	
ANGULAR: ± 2 BEND ±		THE INFORMATION CONTAINED IN THIS		SBE 5M/5P/5T Pump Housing O-ring Kit	
.XX ± .01 TYP RAD .015		DRAWING IS THE SOLE PROPERTY OF		P/N: 50062	
.XXX ± .005		SEA-BIRD ELECTRONICS, INC. ANY		SIZE DWG. NO. REV	
MACHINED SURFACES		REPRODUCTION IN PART OR AS A WHOLE		B 67029 .02	
INTERPRET GEOMETRIC		WITHOUT THE WRITTEN PERMISSION OF		SCALE: 1:2 SHEET 1 OF 1	
TOLERANCING PER:		SEA-BIRD ELECTRONICS, INC. IS PROHIBITED.			
ANSI Y14.5M - 1994		COMMENTS:			
MATERIAL		DEBUR AND BREAK			
N/A		SHARP EDGES			
FINISH		Old Part/Draw Info			
N/A		50062 /67029			
DO NOT SCALE DRAWING					

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