

SEA-BIRD ELECTRONICS, INC. 13431 NE 20th St., Bellevue, Washington 98005 USA

 13431 NE 20th St., Bellevue,
 Washington 98005 USA

 Telephone: (425) 643-9866
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SBE P/N Varies

DATE	REV	REVISION RECORD	AUTH	DR	CHK
06.03	В	Added new 7mm Kit	CB	MJ	
03.04	С	Updated Drawing Revision		KLP	
7.9.04	D	Change title	CB	KLP	
2.15.05	E	Add Clamp/Cap/Base components table and rework of assy. Instructions.	MJ	КНН	MJ
4.4.06	F	Add new kit to List	CB	MJ	
8.30.10	G	Updated for 37 V3	CB	PC	

SBE 37 SM/SI V3 Cable Clamp Assembly Kit

UNIVERSAL KIT CONTENTS

SBE P/N	Manufacturer P/N	Primary SBE Application	QTY
30633	Washer, 1/4" Split Ring, Ti	Used with cable guide cap and cable clamp securing bolts	2
30634	Washer, 1/4" Flat, Ti	Used with cable guide cap and cable clamp securing bolts	2
30867	Washer, Titanium, #6 Split Lock	Hold cable clamp half to flat area of sensor endcap	1
30900	Mach Screw, 1/4-20x2" Hex Ti	Secure cable guides/clamps to endcaps	2
31019	O-Ring, 2-008 N674-70	Placed on cable clamp 1/4-20 bolts as retainers	2
31066	Cap Screw, 8-32 x 3/4 Socket Head, Titanium	Secure cable guide base to battery/connector endcap	3
31873	Cap Screw, 6-32 x 1/2, Socket Head, Ti	Hold cable clamp half to flat area of sensor endcap	1

SPECIFIC KIT CONTENTS (varies to specified wire size)

SBE P/N	Manufacturer P/N	Manufacturer P/N Primary SBE Application						
Varies	SBE37 Microcat Cable Clamp	Attach to flat surface of sensor ec., clamps to cable	2					
Varies	SBE37 Microcat Cable Guide Cap	Attach to cable guide base to lock down mooring cable	1					
Varies	SBE37 Microcat Cable Guide Base	Attach to battery/connector endcap to hold cable	1					

CLAMP/CAP/BASE SUB-ASSEMBLY COMPONENTS (as seen in attached drawing, 67094E)

SBE P/N	Manufacturer P/N	Primary SBE Application	QTY
30633	Washer, 1/4" Split Ring, Ti	Used with cable guide cap and cable clamp securing bolts	2
30634	Washer, 1/4" Flat, Ti	Used with cable guide cap and cable clamp securing bolts	2
30900	Mach Screw, 1/4-20x2" Hex Ti	Secure cable guides/clamps to end caps	2
31019	O-Ring, 2-008 N674-70	Placed on cable clamp 1/4-20 bolts as retainers	2

KIT PART NUMBERS

SBE P/N	Kit Description
50465	SBE37 Modular Cable Clamp Kit, 1/4"
50466	SBE37 Modular Cable Clamp Kit, 5mm
50467	SBE37 Modular Cable Clamp Kit, 6mm
50468	SBE37 Modular Cable Clamp Kit, 7mm
50469	SBE37 Modular Cable Clamp Kit, 5/16" / 8mm
50470	SBE37 Modular Cable Clamp Kit, 3/8"
50471	SBE37 Modular Cable Clamp Kit, 10mm

SBE P/N	Kit Description
50472	SBE37 Modular Cable Clamp Kit, 11mm
50473	SBE37 Modular Cable Clamp Kit, ¹ /2"
50474	SBE37 Modular Cable Clamp Kit, 12mm
50475	SBE37 Modular Cable Clamp Kit, 14mm
50476	SBE37 Modular Cable Clamp Kit, 16mm
50477	SBE37 Modular Cable Clamp Kit, 18mm
50478	SBE37 Modular Cable Clamp Kit, 20mm

SBE DRAWING: 67094Sea-Bird Electronics ProcedureTITLE: SBE37SI/SM Microcat V3 CablePROCEDURE NUMBER: 67094Guide/Clamp AssemblyTITLE: SBE37 SM/SI V3 Cable Clamp Kit AssemblyREV: .05EFFECTIVE DATE: 8/30/2010CHECKED BY: __PC__ PAGE 1 of 3



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Clamp/Cap/Base Assembly - Usually Done at Seabird

- 1. One (1) Microcat Threaded Insert (231481) must be glued into each hole in the connector endcap Cable Guide Base (PN varies).
 - a. Clean the surfaces of the Celcon and of the threaded insert with alcohol.
 - b. Use a fine grit sandpaper to roughen the celcon surface area.
 - c. Prime the Celcon with DC-1200.
 - Follow instructions on the can.
 - DC-1200 has a cure time of about 30 minutes.
 - d. Use RTV 734 flowable to glue the insert into position.
- 2. Mate the cable guide cap to the cable guide base to achieve alignment of the threaded inserts while the RTV cures.
 - a. Align them together so that the circular cut-outs make a hole.
 - b. Use one (1) bolt (30900) for every insert to align them while they cure.
 - c. Slide the bolts into the guide cap from the rounded side.
- 3. RTV cures at an absolute minimum of 2 hours, but should be allowed to cure overnight.
- 4. Once the RTV has fully cured, you may remove the cable guide cap.
- 5. Secure the guide cap to the guide base.
 - a. Align them together so that the circular cut-outs make a hole.
 - b. Place one lock washer (30633) and one flat washer (30634) onto each of the two (2) bolts (30900).
 - c. Slide the bolts into the guide cap from the rounded side.
 - d. Slide one (1) o-ring (31019) over each bolt.
 - e. Secure the guide cap to the guide base with these bolts. The o-rings should seat themselves into the internal countersinks on the blocks.

Install Sensor Endcap Cable Clamp Assembly

- 1. Install the first clamp guide piece (one of the two identical blocks) onto the endcap.
 - a. Align it so that the threaded circular cut-out faces away from the sensor.
 - b. Secure onto the endcap with one (1) cap screw (31873) and one (1) lock washer (30867).
- 2. Install the second clamp piece to the first piece.
 - a. Align them so that the circular cut-outs make a hole.
 - b. Place one lock washer (30633) and one flat washer (30634) onto each of two (2) bolts (30900).
 - c. Slide the screws into the cable clamp from the flat side.
 - d. Slide one o-ring (31019) over each bolt.
 - e. Secure the cable clamps together with these bolts. The o-rings should seat themselves into the internal countersinks on the blocks.

<u>SBE DRAWING:</u> 67094	Sea-Bird Electronics Procedure
<u>TITLE:</u> SBE37SI/SM Microcat V3 Cable Guide/Clamp Assembly	PROCEDURE NUMBER: 67094 TITLE: SBE37 SM/SI V3 Cable Clamp Kit Assembly
	REVISION: G EFFECTIVE DATE: 8/30/2010
<u>REV:</u> .05	CHECKED BY: <u>PC</u> PAGE 2 of 3



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Install Connector Endcap Guide Cap and Base

- 1. The guide base installs onto the connector endcap with the rounded side containing the countersunk screw holes facing away from the sensor, and squared end facing the same direction as the clamp guides on the other end.
- 2. Secure the guide base to the endcap with three (3) cap screws (31066) directly into the endcap, *a. Coat the screws in NeverSeez.*

Re-Installing the Connector Endcap

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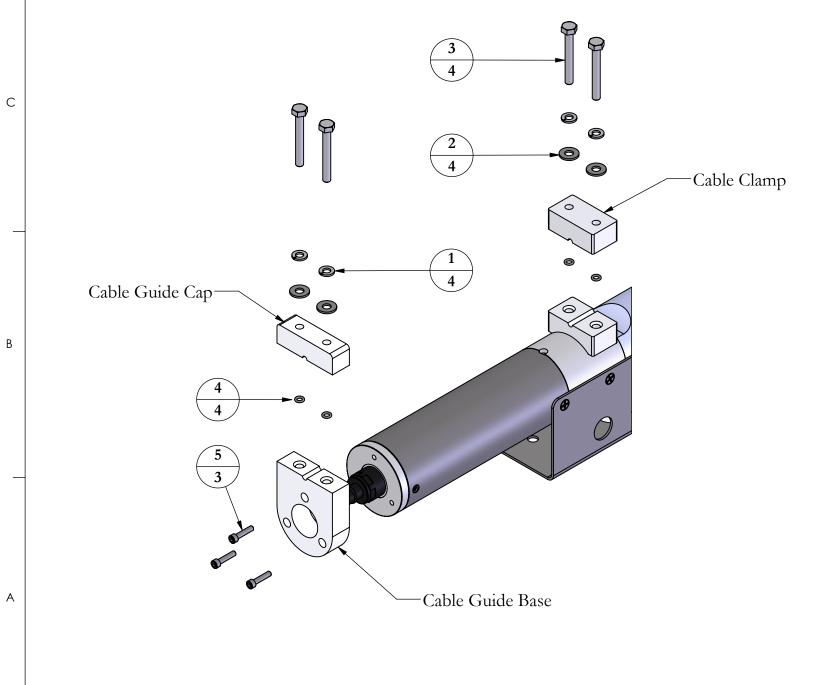
- 1. If you have removed the sensor endcap, either for this procedure, or to replace the batteries, please follow this procedure to properly re-install the endcap.
- 2. Inspect, clean and re-lubricate the seating surface as necessary.
- 3. Insert the molex header onto the pins on the battery post.
- 4. Verify visually that the pins are properly aligned. Microcats have "burned up" before because of the pins have been misalignment.
- 5. Install the endcap carefully, but tightly, onto the housing, so that the screw holes are both aligned.
- 6. Inject the holes with DC-4, and secure the housing to the endcap with the screws that were removed.

SBE DRAWING: 67094	Sea-Bird Electronics Procedure
<u>TITLE:</u> SBE37SI/SM Microcat V3 Cable Guide/Clamp Assembly <u>REV:</u> .05	PROCEDURE NUMBER: 67094 TITLE: SBE37 SM/SI V3 Cable Clamp Kit Assembly REVISION: G EFFECTIVE DATE: 8/30/2010 CHECKED BY: <u>PC</u> PAGE 3 of 3

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	ITEM NO.	PART NUMBER	DRAWING NUMBER		DESCRIPTION	QTY.			
	1	30633	N/A	٧	Vasher, 1/4" Split Ring Lock, Titanium	4			
	2	30634	N/A	Washer, 1/4" Flat, Titanium					
	3	30900	N/A	Мас	h Screw, 1/4-20 X 2" Hex Head Titanium	4			
P	4	31019	N/A	O-ring, Parker 2-008 N674-70					
D	5	31066	N/A	Cap	Screw, 8-32 X 3/4 Socket Head, Titanium	3			

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50465			SM/MSI Cable		-			4197	231483		231461	-		
50466			SM/MSI Cable		-			4198	232370		232369	-		
50467			SM/MSI Cable		-			4199	231743		231739	-		
50468			SM/MSI Cable	· · ·		/ 9/00 /00		4200	232194		232192	-		
50469			SM/MSI Cable		-	[/] 8mm		4201	231727		231569	-		
50470 50471			SM/MSI Cable SM/MSI Cable					4202 4203	231723 231744		231722	-		Γ
50471			SM/MSI Cable					4203	231744		231740 231692	-		
50472 50473	-		SM/MSI Cable		,			4205	231093		231092			
50474			SM/MSI Cable					4205	231742		231741	-		
50475			SM/MSI Cable		-			4207	233239		233238	-		
50476			SM/MSI Cable	•	,			4208	231763		231762	-		B
50477			SM/MSI Cable					4209	233002		233000	-		
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50470			SM/MSI Cable				234202	231723	3	23172	2		<u> </u>
50471	SBE37	V3 M	SM/MSI Cable	e Clamp Ki	t <i>,</i> 10mm		234203	231744	ł	23174	0		
50472	SBE37	V3 M	SM/MSI Cable	e Clamp Ki	t, 11mm		234204	231693	3	23169	2		
50473	SBE37	V3 M	SM/MSI Cable	e Clamp Ki	t, 1/2"		234205	231742	2	23173	8		
50474	SBE37	V3 M	SM/MSI Cable	e Clamp Ki	t, 12mm		234206	231745	5	23174	1		
50475	SBE37	V3 M	SM/MSI Cable	e Clamp Ki	t, 14mm		234207	233239)	23323	8		Б
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37	V3 M	SM/MSI Cable	Clamp Ki	t <i>,</i> 5mm		2	234198	2	32370		23236	Э		
37	V3 M	SM/MSI Cable	Clamp Ki	t, 6mm		2	234199	2	31743		23173	Э		
37	V3 M	SM/MSI Cable	Clamp Ki	t, 7mm		2	234200	2	32194		23219	2		
37	V3 M	SM/MSI Cable	Clamp Ki	t, 5/16" /	8mm	2	234201	2	31727		23156	Э		
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37	V3 M	SM/MSI Cable	Clamp Ki	t <i>,</i> 10mm		2	234203	2	31744		23174	2		
37	V3 M	SM/MSI Cable	Clamp Ki	t, 11mm		2	234204	2	31693		23169	2		
37	V3 M	SM/MSI Cable	Clamp Ki	t, 1/2"		2	234205	2	31742		23173	8		
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